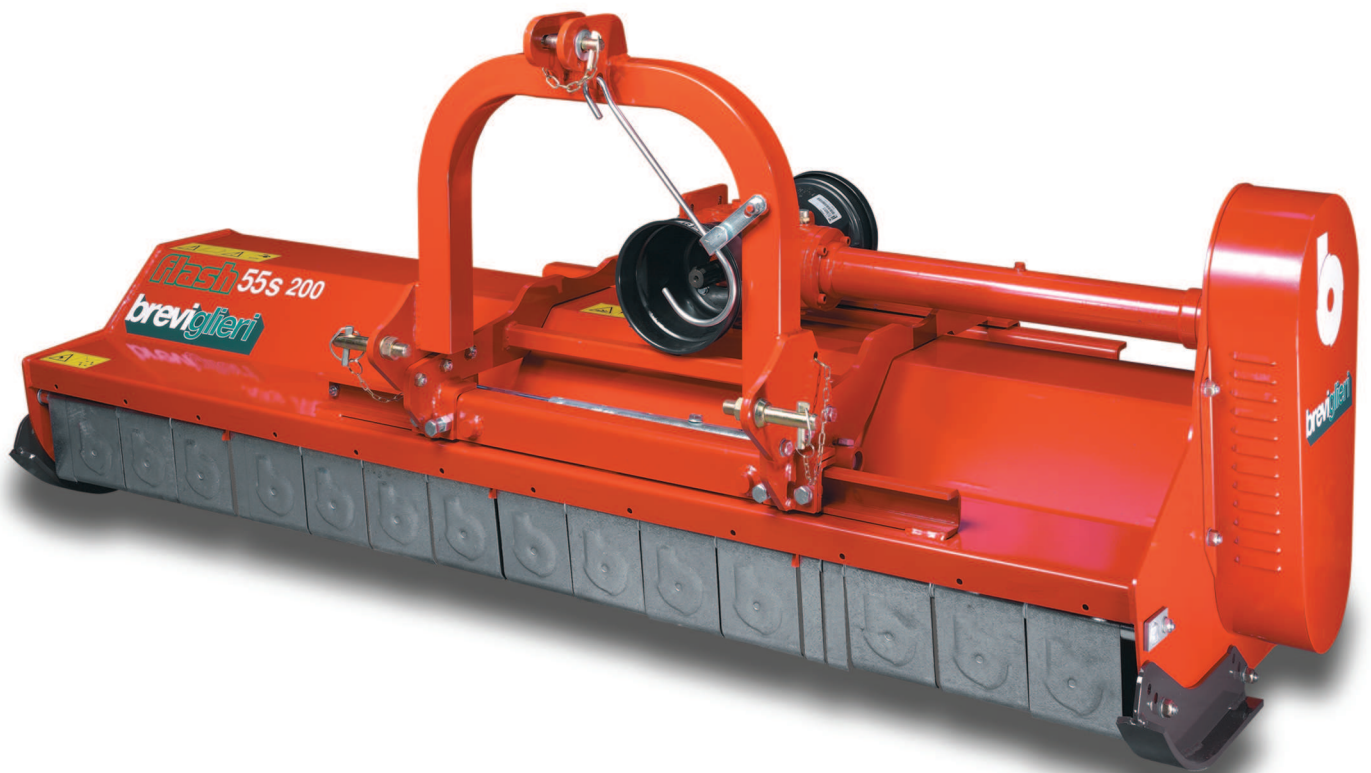


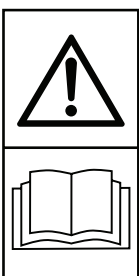
# breviglieri

macchine agricole

## TRINCIA flash55sr



T5500011/2



- Prima di iniziare ad operare, leggere attentamente le istruzioni per l'uso
- Read the operating instructions carefully before using the machine.
- Avant de commencer le travail, lisez attentivement les consignes d'utilisation
- Antes de empezar a operar con la máquina leer atentamente las instrucciones para el empleo
- Bevor Sie mit der Arbeit beginnen, lesen Sie diese Betriebsanleitungen aufmerksam durch

**Istruzioni per l'uso e manutenzione**  
***Operating and Maintenance Manual***  
**Manuel d'utilisation et d'entretien**  
***Instrucciones de empleo y mantenimiento***  
**Betriebs- und Wartungsanleitung**

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## SECTION 1

### Description and Main features

#### 1.1 INTRODUCTION

This manual contains all the information and indications considered necessary to know, correctly use and normally service "flash 55sr Cutter" (also called machine in the text) manufactured by **BREVIGLIERI SpA** of Nogara (VR) Italy, also called Manufacturer in the text.

The information and indications do not give a full description of the various components or a detailed illustration of how they operate. However, the user will find everything he normally requires in order to safely use the machine and keep it in a serviceable condition.

Failure to comply with the indications given in this manual, negligence during work, incorrect use of the machine and unauthorized modifications to the same may void the warranty supplied by the Manufacturer.

**The Manufacturer therefore declines all and every liability for damage due to negligence and failure to comply with the instructions in this manual.**

If repairs or overhauls of a complex nature are required, contact an authorized assistance center with specialized personnel or the actual Manufacturer who is at your complete disposal for prompt and accurate technical assistance and anything else that can ensure you get the best and most efficient performance from the machine.

**This manual must be kept in a safe place, ready to hand for consultation throughout the entire life of the machine.**

**Reference will solely be made to the Italian version of the instructions in the event of disputes.**

#### 1.2 WARRANTY

The Manufacturer guarantees new products for a period of 12 (twelve) months from the date of purchase. Check when purchasing, to make sure that the machine is complete and in a perfect condition.

Complaints should be presented in writing within 8 (eight) days after the machine is received.

The warranty merely covers the repair or replacement, free of charge, of those parts which, after thorough examination by the Manufacturer's technical staff, are recognized as being defective (with the exclusion of tines).

Expenses concerning replacement of lubricants, transport costs, customs duties and VAT remain at the purchaser's charge in any case.

Replacement or repair of parts under guarantee shall in no case extend the warranty terms.

**The Manufacturer does not accept returned goods without prior written authorization.**

The purchaser shall only be able to exercise his rights in relation to the warranty when he has complied with the conditions governing warranty performance, as indicated in the supply contract.

#### 1.2.1 WARRANTY EXCLUSIONS

(Besides the circumstances indicated in the supply contract) **the warranty becomes void:**

- When the damage can be ascribed to insufficient maintenance.
- When, following repairs made by the user without the Manufacturer's consent or owing to the installation of spurious spare parts, the machine has been subjected to changes and the damage is ascribable to these changes.
- When the machine has been hitched to tractors whose power rating exceeds the value given in the "Technical Specifications" table in this manual.
- When the user has failed to comply with the instructions in this manual.

Damage deriving from negligence, carelessness, bad and improper use of the machine or incorrect manoeuvres by the operator are also excluded from the warranty. Removal of the safety devices with which the machine is equipped shall automatically void the warranty and relieve the Manufacturer from all liability in merit.

The warranty also becomes void if spurious spare parts are used. Even when covered by the warranty, the machine must be returned Carriage Free.

### 1.3 DESCRIPTION OF THE MACHINE AND USE

The flash55sr Cutter bears “CE” marking in compliance with the European Union standards described in directive 98/37/EC and successive modifications, as stated in the declaration of conformity with which each machine is equipped.

#### 1.3.1 DESCRIPTION

The flash55s Cutter mainly consists of a metal structure that includes the central linkage with three-point hitches (2 Fig. 1) and a rotor with hammers (15 Fig. 1) or knives (16 Fig. 1) situated in the lower part, all of which is driven by a belt transmission installed at the side (9 Fig. 1). The power that drives the machine is transmitted by the tractor through a driveline (with CE marking) which meshes in a central position with the PTO (12 Fig. 1) of the overdrive unit (6 Fig. 1) following which it is transmitted to the bladed rotor by means of the side transmission belt (9 Fig. 1).

Two different types of cutter can be mounted:

- universal knives (16 Fig. 1) to mow lawns and cut the stubble of light crops such as: barley, oats, wheat, etc.
- hammers (15 Fig. 1) to cut undergrowth and shred the pruning residues in orchards, vineyards, poplar plantations, etc.

Thanks to its high speed, the rotor is able to accurately shred the plants with which it comes into contact, allowing the material to easily convert into fertilizing humus.

The mechanical shredding action produced by the Cutter improves the natural fertility of the soil, improving the way chemical fertilizer is dosed and thus reducing the amount required.

#### KEY to Fig. 1

- A Front part. Advancement direction of the machine
- B Rear part
- C Left side
- D Right side

- 1 Bonnet / Framework
- 2 Three-point hitch linkage
- 3 Upper 3rd point hitch and machine lifting point
- 4 Hydraulic circuit hoses
- 5 Driveline support
- 6 Overdrive unit
- 7 Rear PTO with shield
- 8 Side drive shaft
- 9 Side transmission unit with belts
- 10 Safety chains
- 11 Hydraulic ram to control cutter movement
- 12 Power take-off
- 13 Driveline shield
- 14 Lower 3-point hitch
- 15 Hammer
- 16 Universal knife
- 17 Identification plate

#### 1.3.2 USE

The flash55sr Cutter must only be used for agricultural purposes, ground care and/or for cutting operations on the field where it can be used to shred grass and woody plants.

The machine has been designed for use on farming-forestall land. It is therefore not suitable for excavation work of any kind. The cutting height should be chosen with care to prevent the cutting tools from hitting against stones or other objects that could damage the machine itself.

One single operator seated on the tractor is able to carry out the various operations required.

Any other use of the machine differing from the explanations given in this manual relieves for Manufacturer from all and every liability for deriving damage to persons, animals or property.

### 1.4 IDENTIFICATION

Each machine is provided with an identification plate (17 Fig. 1) with the following data:

- Manufacturer’s name and address;
- «CE» marking;
- A) Machine model;
- B) Machine version;
- C) Serial number;
- D) Weight (in Kg);
- E) Year of manufacture.

The data on the identification plate of the machine should be copied into the last page of this manual and must always be stated when spare parts and/or assistance are required.

#### Standard machine supply includes:

- Operation and maintenance manual for the machine;
- «CE» declaration of conformity.

### 1.5 NOISE LEVEL

The sound level has been measured in compliance with current standards, with the following results:

- Acoustic pressure LpAm (A) ..... dB 84
- Acoustic power LwA (A) ..... dB 99

### 1.6 TECHNICAL SPECIFICATIONS

Model	Cutting width	Machine width	Weight Kg	HP	Knives	
					N°	cutting height
flash105sr	105	120	260	20-30	30	2-5
flash125sr	125	140	285	25-35	36	2-5
flash155sr	155	170	320	25-40	48	2-5
flash180sr	180	195	355	30-45	54	2-5
flash200sr	200	215	390	35-50	60	2-5

## SECTION 2

### General safety notes

#### 2.1 SAFETY NOTES

The user must inform his personnel about the risks deriving from accidents, about the safety devices installed to safeguard the operator and about the general accident-preventing regulations established by the Directives and by the laws in force in the country where the machine is used.

It is therefore essential for operators to carefully read this manual, particularly the safety notes, and to pay great attention to operations which could be particularly hazardous.

The Manufacturer declines all and every liability for failure to comply with the safety and prevention regulations given in this manual.



Pay attention to this symbol when it appears in the manual. It indicates a possible danger situation.

There are three danger levels:

**DANGER:** This is the maximum level danger signal and warns that unless the described operations are carried out correctly, they will cause serious injuries, death or long term health hazards.

**WARNING:** The «WARNING» signal warns that unless the described operations are carried out correctly, they **could cause** serious injuries, death or long term health hazards.

**CAUTION:** This sign warns that unless the described operations are carried out correctly, they **could cause** damage to the machine and/or persons.

## 2.2 SAFETY DECALS

The machine has been designed and built in compliance with all possible safety standards able to safeguard those who work with it. Despite this, there may still be residue hazards which are signalled on the machine by decals.

These decals (pictograms) described in Fig. 3, are affixed to the machine and indicate the various situations of insecurity and danger in a brief form.

Keep the decals clean and immediately replace them if they detach or become damaged.

Consult Fig. 3, carefully read the following descriptions and memorize the meanings of the safety decals.

- 1) Carefully read the instruction manual **before beginning work.**
- 2) **Before proceeding with maintenance operations.** Stop the machine and read the instruction manual.
- 3) **Sharp objects thrown up by the machine could represent a danger hazard.** Keep at a safety distance.
- 4) **Danger of lower limbs being cut off.** Keep at a safety distance from the machine when it operates.
- 5) **Danger of upper limbs being cut off.** Do not remove the guards and keep well away from moving parts when the machine is operating.
- 6) **Danger of being caught up by the driveline.** Keep well away from the driveline when the tractor engine is on. Fix the guards in place with the relative chains.
- 7) **Danger of falling.** It is absolutely forbidden to climb on to the machine.
- 8) **Hitching points** to lift the machine.

## 2.3 SAFETY AND ACCIDENT PREVENTING RULES

**Carefully read the safety and accident-prevention rules before using the machine. Consult the Manufacturer if in doubt. The Manufacturer declines all and every liability for failure to comply with the safety and accident-prevention rules described below.**

- Do not touch moving parts.
- Adjustments or work on the machine must only be carried out when the tractor engine is off and the tractor blocked.
- It is absolutely forbidden to transport persons or animals on the machine.
- It is absolutely forbidden to operate the tractor or have it operated with the machine hitched by persons who are not in possession of an adequate driving license, by inexperienced persons or by those whose psycho-physical conditions of health are not good.
- Comply with all the accident prevention measures recommended and described in this manual.
- When a machine is hitched to a tractor, the weights will be distributed differently on the axles. It is therefore advisable to add ballast at the front of the tractor in order to balance the weight on the axles.
- When hitched to the tractor, the machine can only be operated with the driveline complete with shields fixed by their chains. keep well away from the spinning driveline.
- Before starting the tractor and machine, make sure that all the safety devices for transportation and use are in perfect conditions.
- Comply with the Highway Code regulations in force in your country when travelling on public roads.
- Do not exceed the maximum tolerated weight on the tractor axle.
- Become familiar with the controls and their functions before beginning work.
- Wear suitable clothing. Do not wear loose or flapping garments, scarves, necklaces or ties which could become caught up in moving parts. Wear protective garments such as goggles, gloves and protective footwear if required in the country where the machine is used or when working on particular stony ground.
- The machine must be hitched to a tractor with an adequate power rating.
- Pay the utmost attention when hitching and unhitching the machine to and from the tractor.
- Any accessories used for transportation purposes must be equipped with adequate signs and guards.
- Never ever leave the driver's seat whilst the tractor is operating.
- When driving round bends with and without the machine, take care of the centrifugal force exercised when the center of gravity is in a different position, particular when driving round bends.
- Check the rpm rate before inserting the driveline. Do not switch the 540 rpm rate with the 1000 rpm one.
- It is absolutely forbidden to linger within the range of action of the machine when this is operating.
- Before you get off the tractor, lower the machine hitched to the power lift unit, stop the tractor engine, engage the parking brake and remove the ignition key from the control panel.
- It is absolutely forbidden to get between the tractor and machine while the engine is running and the driveline engaged.
- Move the power lift control lever to the locked position before you hitch or unhitch the machine to or from the three-point linkage.
- The class of the machine's coupling pins must correspond to that of the power lift hitch.
- Take great care when you work near the lift links. This is a very dangerous area.
- It is absolutely forbidden to get between the tractor and the machine hitch in order to manoeuvre the lifting command from the outside.
- Fix the side lifting links with the relative chains and idlers during the transport phase.
- Set the control lever of the tractor's hydraulic lifting control in the locked position when driving on the roads with the machine raised.
- Only use the driveline recommended by the Manufacturer.
- Periodically check the driveline shield. It must always be in an optimum condition and firmly fixed.
- Pay the utmost attention to the driveline guard, both during transport and work.
- The driveline must always be mounted and demounted when the tractor engine is off.
- Make sure that the driveline is mounted on the tractor and machine PTO in the correct way.
- Prevent the shields from turning by means of the relative chains and always read the operation and maintenance manual supplied with the driveline.
- Make sure that there are no bystanders or animals in the vicinity before you engage the PTO.
- Do not engage the PTO when the engine is off.
- Disengage the PTO when the driveline is at an excessively wide angle (never more than 10 degrees, Fig. 4) and when it is not used.
- Only clean and grease the driveline when the PTO is disengaged, the engine off, the parking brake engaged and the ignition key removed from the tractor's ignition switch.
- Rest the driveline on its stand (5 Fig. 1) when not used.
- Prolonged use of the machine can cause the overdrive housing (6 Fig. 1) and certain parts of the hydraulic circuit to overheat. Do not touch these parts during and immediately after using the machine since they could cause burns.

- Do not carry out servicing or cleaning operations unless the PTO has been disengaged and the tractor engine turned off.
- Periodically check to make sure that the nuts and bolts are well torqued. Tighten them if necessary.
- Place adequate supports under the machine as a precaution when servicing or replacing the tines/blades with the machine raised.
- Before working on the cutting tools, detach the PTO, turn off the tractor engine, engage the parking brake and make sure that the tines are at a standstill.
- Use the recommended oils.
- Spare parts must comply with the requirements established by the Manufacturer. Only use genuine spare parts.
- The safety decals must always be clearly visible. They must be kept clean and replaced if they become illegible (new ones can be obtained from the Manufacturer).
- The instruction manual must be kept throughout the life of the machine.
- If the country in which the machine is used has noise prevention laws, adapt to these provisions by using the appropriate protections. The measured noise levels are given in section «1.5 Noise level».
- Comply with the laws in force in the country where the machine is used when it comes to using and disposing of the products used to clean and service the machine. Also comply with the instructions given by the manufacturer of such products.
- Comply with the anti-pollution laws in force in the country of use if the machine must be scrapped.

**Clear and delimit the zone to which the machine is to be transferred. Make sure that the available lifting means are fit for the purpose. Do not touch hanging loads and always keep at a safety distance from them. When transported, the loads must not be lifted more than 20 centimeters from the ground. Also make sure that the zone in which the operations take place is uncluttered and that there is a sufficient “escape route”, i.e. a clear and safe zone to which the operators can quickly move if the load should fall.**



**The surface on to which the machine is to be loaded must be perfectly horizontal, to prevent the load from shifting.**

Once the machine has been moved on to the truck or wagon, make sure that it remains locked in position.

- Fix the machine firmly to the surface on which it rests by means of the pre-engineered points marked with the “hook” decal, using well tightened ropes or chains suited to its weight and able to prevent it from moving in any way.
- After having transported the machine to the desired site and before removing the elements that hold it in place, make sure that its position is unable to be of danger.
- Now remove the ropes and unload the machine from the means of transport in the same way as it was loaded.

## SECTION 3

Transportation and handling

### 3.1 TRANSPORTATION AND HANDLING

#### CAUTION



**If the machine, hitched to the tractor, must circulate on the public roads, comply with the Highway Code regulations in force in the country in which the machine itself is used.**

**The machine must be raised at least 40 cm from the ground for road transport.** If the machine must be transported over a long distance, it can be loaded on a truck or railway car. In this case, consult “1.6 Technical specifications” for the weight and dimensions. This will allow you to make sure that the machine can pass through tunnels or low constructions without difficulty. To lift the machine from the ground to the loading platform, use a crane with an adequate carrying capacity and hook up the machine from the relative lifting points indicated on the machine (Fig. 7).

**Loading with a crane.** Make sure that the carrying capacity of the crane is fit to lift the weight of the machine. The connecting points for lifting are clearly visible and are marked by stickers, see Fig. 3. Lift the machine with the utmost care and move it slowly without jolting on to the truck or railway car.



**DANGER**

**The lifting and transporting operations can be very dangerous unless they are carried out with the greatest care: have all persons not directly involved in the lifting operations move well clear of the lifting area.**

## SECTION 4

Operation

### 4.1 BEFORE USE



**WARNING**

**Before he sets the machine at work, the operator must have read and understood all parts of this manual and particularly “Section 2” about safety.**

Before beginning work, make sure that the machine is in order, that the lubricating oils are at the right level and that all parts subject to wear and deterioration are fully efficient. Also make sure that the guards are correctly positioned.



**CAUTION**

**Adjustments and operations required to prepare the machine for work must always be carried out with the machine off and blocked.**

#### 4.1.1 DRIVELINE



**DANGER**

**The driveline is a mechanical component. When it is operating it can be a source of danger to the physical well-being of those who work with it. Take the greatest care when carrying out operations that involve the driveline.**

Carefully read the instruction manual supplied with the driveline. If you have doubts about the way it operates, if it is without its shields, worn or broken, replace it with a new driveline bearing the "CE" mark.



**DANGER**

Never modify or adapt the driveline in any way. If this is necessary, contact your nearest Authorized Assistance Center.

Since the driveline spins at high speed, it is balanced during the testing phase. Any successive interventions could therefore lead to lack of balance which could then impair the functionality of the machine besides that of the actual driveline itself.

The angle at which the driveline works must be the minimum possible as this will ensure that both the driveline and machine are long-lasting.

When the driveline is fully extended, in all work conditions, the telescopic tubes must overlap to at least 1/3rd of their length (A Fig. 5).

When the driveline is fully inserted, the play must be at least 4 cm (B Fig. 5). Contact the Manufacturer's Technical Service if this is not possible.



**CAUTION**

Before engaging the PTO, make sure that its rotation speed corresponds to the rate for which the machine has been designed (540 or 1000 rpm).

#### 4.1.2 WORK POSITION



**DANGER**

**The operator must be seated in the driving seat of the tractor when the machine is working since only from that position is he able to act correctly. Before he leaves the driving seat, the operator must stop the machine, apply the parking brake and turn off the tractor engine.**

#### 4.2 HITCHING TO THE TRACTOR



**DANGER**

Hitching to the tractor could be a dangerous operation. Take great care and strictly comply with the instructions.

Proceed in the following way to hitch the machine to the tractor in the correct way:

- Make sure that you are using a tractor whose configuration suits the machine in question.
- Make sure that there are no objects, bystanders and/or animals in the immediate vicinity of the machine and that the PTO is disengaged.
- Make sure that the machine is in a stable, horizontal position, then back up the tractor towards the machine.
- Having reached the right position, turn off the tractor engine then fit the driveline first into the PTO of the machine and then to the tractor PTO. Make sure that it is firmly locked in position.
- Move the power lift bars near and fit them into the plates. Insert the plug and lock in place with the supplied split pins.

Since the power lift links of each tractor are a certain length and have a hole of a certain diameter, you must find the most suitable position for the tractor you use by inserting the pins into the relative holes according to your needs and depending on the diameter.

- Lock the power lift bars with the relative chains and idlers parallel to the tractor. This must be done to prevent the machine from swinging sideways.
- Insert the driveline and make sure that it is perfectly locked on to the tractor PTO. Check that the guard is free to turn. Fix the driveline shield with the relative chain. Remove the driveline support (5 Fig. 1) and fix it to the relative hitch on the linkage.



**DANGER**

Take the utmost care when you insert the driveline. Make sure that it is firmly locked on to the tractor PTO and on the machine.

Also comply with the indications in the instruction manual supplied with each driveline.

Make sure that the driveline shield, fixed with the relative chains, is free to turn without obstructions.

Also check the protective shields on the tractor and on the implement.

If some guard is not in perfect working order, it must be immediately replaced with a new guard. It is very important to ensure that the protective shields on both sides overlap the driveline ones by at least 5 cm.

- Connect the upper third point and adjust the top link in the correct way, making sure that the upper surface of the machine is parallel to the ground. This is very important as parallelism between the axis of the machine and that of the tractor PTO is obtained in this way.

#### 4.3 DURING WORK

Proceed in the following way after you have correctly hitched the machine, sat down in the driver's seat of the tractor and started the tractor engine:

- Position the cutter by means of the hydraulic power lift with the tools raised about 10-20 cm from the ground.
- Run the engine at a low rate and engage the PTO.
- Engage the forward gear and start work with the PTO at full rate. Gradually lower the machine until it rests on the ground. This allows it to adapt to the contours of the soil.



**CAUTION**

Do not depress the accelerator pedal in an imprudent way with the PTO engaged.

- Drive a short distance and check to make sure that the plants and undergrowth are being cut to the required degree.
- The cutting height is regulated by adjusting the rear roller as indicated in point "4.3.1 Cut regulation".

Certain factors must be taken into account when choosing the most suitable cut, i.e.:

- the height of the stalks;
- the quantity and size of any twigs and branches on the ground;
- the ground speed of the tractor;
- optimal cutting height adjustment.

A good cut is obtained at a low ground speed and with the blade rotor turning at high speed.



**CAUTION**

The speed of the tractor when the machine is operation must not exceed 6-8 kph or components could be broken or damaged.

Never swerve sharply or change direction when the machine is working.

Never ever reverse when the machine is on the ground.



**DANGER**

Stones or other sharp objects may be thrown up by the spinning blades during work.

Constantly check to make sure that there are no bystanders, children or domestic animals within the range of action of the machine.

#### 4.3.1 CUT REGULATION



**DANGER**

Cutting height regulation is a dangerous operation. Wear work gloves and use suitable tools in a good condition.

Proceed in the following way to adjust the cutting height:

- Park the tractor on a flat surface and hitch the machine then raise it with the power lift;
- Place two strong stands at the sides of the machine to protect yourself if it should fall;
- Lower the machine on to the stands, turn off the tractor engine and apply the parking brake.

The cutting height is established by the position of the bearing roller on the machine (Fig. 9).

To change the position, slacken off the bolts (1 Fig. 9) on both sides, then remove them from one side and move the roller either down or up depending on the required cutting height. Fit the bolts back in place and repeat the operation on the other side. Now carefully tighten all the bolts.

A taller cutting height is obtained with the roller in the lower position while the cutting height will be shorter when the roller is higher up. This is because the machine is furthered or neared to or from the ground.

Once the bearing roller has been adjusted and the machine lowered to the ground, adjust the third point of the machine so that it is parallel to the ground.

#### 4.3.2 SHREDDING DEGREE ADJUSTMENT



**DANGER**

Shredding degree adjustment is a dangerous operation. Wear work gloves and use suitable tools in a good condition.

Proceed in the following way to adjust the shredding degree:

- Park the tractor on a flat surface and hitch the machine then raise it with the power lift;
- Place two strong stands at the sides of the machine to protect yourself if it should fall;
- Lower the machine on to the stands, turn off the tractor engine and apply the parking brake.

Open or close the rear casing (2 Fig. 9) to adjust the degree to which the plants are shredded. The casing has various positions. The more it is closed, the finer the plants will be shredded.

To improve the shredding operation, the machine can be equipped with rear rakes (Fig. 10) which only allow the material to come out after it has been finely shredded.

This is convenient when pruning residues or other plants that have not been cut by the machine during its run need to be collected, since they are kept under the casing and shredded again.

Regulate the harvesting blades by raising or lowering them but do not allow them to touch the ground. Their adjustment therefore functions according to the actual ground itself.

If large twigs must be cut, the knives must be kept in a higher position. Vice versa, they must be set in a lower position if the twigs are smaller so that the material is held back if it is not cut.

#### 4.3.3 SIDE MOVEMENT

To move the cutter sideways when the machine is equipped with a hydraulic circuit, insert the two pins at the end of the hose pipes (1 Fig. 8) into the relative unions on the tractor.

Cutter movement will then be controlled from the driver's seat by means of the levers of the hydraulic valve system of the actual tractor itself.

#### 4.3.4 USEFUL TIPS

Here are a few useful suggestions on how to resolve some of the problems that may occur during work.

##### Cut plants shredded to much

- Slightly lift the cutter from the ground, adjusting the height with the wheels (the blades of the cutter must not touch the ground).
- Increase the ground speed.

##### Cut plants not shredded enough

- Slightly lower the machine towards the ground.
- Reduce the ground speed.
- Do not work in soil that is too wet.

##### Rotor clogged

- Soil too wet to work.
- Raise the machine from the ground.
- Reduce the ground speed.
- Do not work where the grass is too tall. If necessary, remove any material that has built up at the sides of the rotor to prevent overheating.

##### The machine jolts over the ground or vibrates

- Foreign bodies locked between the knives.
- Knives incorrectly mounted without the helical arrangement or with edges that dig into the ground.
- Worn or broken knives.
- Rotor misshapen owing to blows received during work from foreign bodies in the central part.

##### Other faults

The machine fails to work evenly along its length, shredding either too much or too little on one side, for example on the right: shorten the right link.

##### Work on hilly ground

Proceed "upwards" in the direction of the slope.

#### 4.4 TINES

The hammers/knives with which the machine is equipped are suitable for work with soil/plants of normal conformation. Check their condition each day to make sure they are not worn. If them should accidentally bend (or break) during work, they must be immediately replaced and mounted in the identical position.

**DANGER**

**Tool replacement (hammers or knives) is a dangerous operation.**

Proceed in the following way to replace the tools:

- Park the tractor on a flat surface with the machine hitched, then raise the machine with the power lift;
- Insert two strong bearing stands at the sides of the machine;
- Lower the machine on to the stands, turn off the tractor engine and apply the parking brake.

The hammers or knives must always be replaced in diametrically opposite pairs in order to keep the rotor in a balanced condition.

Proceed as described below to **replace worn or broken hammers**:

- remove the nut 1 (Fig. 11) of the bolt that fastens the worn hammer. Make sure that the new hammer is mounted in the same position;
- check the bolts for wear and replace the self-locking nuts.

Proceed as described below to **replace worn or broken knives**:

- remove the nut 1 (Fig. 12) of the bolt that fastens the worn knives. Check the positions of the various components during the assembly phase, particularly those of the spacers 2 (Fig. 12). Remember to mount the new knives and the other parts in the same positions;
- check the bolts for wear and replace the self-locking nuts.

**DANGER**

**If the hammers/knives become clogged, it is strictly forbidden to attempt to clean the machine whilst it is operating. First disengage the PTO, stop the tractor and apply the parking brake.**

**Wait until all moving parts have come to a complete standstill and only then proceed with the cleaning operations using the utmost caution.**

## 4.5 ACCESSORIES

All cutters are pre-engineered so that certain accessories can be mounted:

- hydraulic movement of the 3-point hitch;
- side skids;
- rear rakes;
- fixed or steering rear wheels.

Only mount accessories supplied by the Manufacturer since they are specifically designed and built for use with the relative machines.

### 4.5.1 HYDRAULIC MOVEMENT

Hydraulic movement controlled by a ram (12 Fig. 1) allows the operator to tow the machine as it works so that it follows a certain direction with the tractor. This movement must be gradual, never rapid.

Maximum operating pressure 150 bar.

After you have finished work, when the machine is unhitched from the tractor, always fit on the quick coupling guards to prevent the couplings themselves from being dirtied or ruined.

### 4.5.2 SIDE SKIDS

The side skids (1 Fig. 14) can be applied to the sides of the cutter and set a fixed cutting height established by the Manufacturer. They are used to mow grass on lawns where a uniform cut is required.

### 4.5.3 REAR RAKES

This accessory can be applied to any type of cutter. It is used when the plants must be shredded to a finer degree (Fig. 10). It is fitted in place of the rear hood. The rakes must never dig into the soil since their purpose is to hold back the cut plants so that they can be shredded further before being unloaded.

### 4.5.4 FIXED OR STEERING REAR WHEELS

Accessory mounted in place of the bearing roller (Fig. 13).

They are used when the maize stalks must be shredded on the field after the harvesting operations have been carried out, or where there is thick stubble or undergrowth and shrubs in general.

## 4.6 STOPPING THE MACHINE

**At the end of the job, the operator must:**

- Disengage the tractor PTO.
  - Lower the machine to the ground by means of the power lift.
  - Stop the tractor and engage the parking brake.
  - Make sure that all parts of the machine are at a standstill.
- Only after the above mentioned operations have been carried out may the operator leave the tractor unattended.

### 4.6.1 PARKING

- At the end of the job, the machine must be parked on a flat, suitable surface.
- Stop the tractor and apply the parking brake.
- With the tractor stopped and all components at a complete standstill, remove the driveline from the PTO of the tractor.
- Unhitched the machine from the tractor.

**WARNING**

**The place in which the machine is parked must be:**

- Dry.
- Sheltered from adverse weather conditions.
- Guarded or locked up to prevent children or unauthorized persons from freely accessing the machine.

**CAUTION**

**If the machine is to remain idle for a long period of time, lubricate the parts subject to wear and store the machine in a dry, sheltered place, covered with a plastic sheet. This will ensure that the machine is in the ideal condition when required again.**

# SECTION 5

## Maintenance

### 5.1 ROUTINE MAINTENANCE

The various routine maintenance operations are described below.

Remember that lower running costs and longer machine life depend on continual compliance with these instructions.

**WARNING**

**Before proceeding with any operation, make sure that the machine is parked on a flat surface. Prevent it from moving by placing chocks under the wheels.**



**Servicing, adjusting and the operations required to prepare the machine for work must be carried out with the tractor and the driveline detached from the machine.**

The servicing frequencies indicated in this manual are indicative and refer to normal conditions of use. They may therefore vary depending on the type of service, whether the environment is dirty or not, seasonal factors, etc.

The servicing operations must obviously be carried out more frequently in heavier duty service conditions.



**CAUTION**

- **Before injecting lubricating grease into the grease nipples, carefully clean these latter to prevent mud, dust or foreign bodies from mixing with the grease as this would reduce or even annul its lubricating effects.**  
**Injection into the greasing points of a large quantity of grease at high pressure can damage the bearing protection. This operation must therefore be carried out with the greatest care.**
- **Lubricate and grease all the required points, including the chains.**
- **Use oil of the recommended type for topping up and changes.**



**DANGER**

**Keep all lubricants well away from children's reach. Carefully read the warnings and precautions on the lubricant containers.**

**The operator should thoroughly wash himself after using lubricants.**

**Dispose of used oil in compliance with the anti-pollution laws.**

### 5.1.1 BELT REPLACEMENT AND TENSION ADJUSTMENT

The belts are correctly tightened when they give max 10 mm (Fig. 18).

Proceed in the following way to replace the belts and adjust their tension:

- remove the protective casing by loosening the bolts (1 and 2 Fig. 15);
- loosen the bolts (1 Fig. 16) of the driving pulley plate;
- loosen the check nut of the adjuster screw (2 Fig. 16);
- use the adjuster screw (2 Fig. 16) until the correct belt tension has been obtained;
- tighten the check nut of the adjuster screw (2 Fig. 16);
- tighten the bolts 81 Fig. 16) of the driving pulley plate;
- fit the protective casing back in its correct position.

The transmission components from the overdrive to the pulley must be aligned after the belt tension has been adjusted.

Loosen the overdrive bolts (1 Fig. 17), lift or lower the overdrive itself so that the transmission is parallel to the machine, then retighten the bolts (1 Fig. 17).

Check the planarity of the two pulleys when the belts are regulated or replaced. Place a metal straightedge on the surfaces of the two pulleys, as illustrated in Fig. 19. The surface of the straightedge must adhere in all the four points (1) indicated in Fig. 9.

## 5.2 LUBRICATION

Lubrication of any machine with parts that turn and/or rub together is a vitally important task for the life and functionality of the actual machine itself.

Lubrication must therefore be carried out systematically and at the required intervals.

The frequencies given refer to machine use in a normal environment. If this machine is used in heavier duty conditions, it must naturally be lubricated more frequently.

### 5.2.1 RECOMMENDED LUBRICANTS

- For the overdrive unit, it is advisable to: **OLIO AGIP ROTRA MP SAE 85W/140** or an equivalent type complying with API-GL5/MIL-L-2105C.
- For all greasing points, the Manufacturer recommends: **AGIP GR MU EP 2** grease or an equivalent type.

When servicing the driveline, strictly comply with the instructions given by the driveline Manufacturer, in the specific operation and maintenance manual with which each driveline is equipped.

### 5.2.2 AFTER THE FIRST 8 HOURS SERVICE

Each new machine must be checked after the first 8 hours service. proceed in the following way:

- Check the general condition of the machine.
- After you have checked the hammers/knives for wear, fully tighten the screws that fix them in place.
- Check to make sure that all the bolts on the machine are tight.

### 5.2.3 EVERY 20 HOURS SERVICE

- Make sure that the screws that fix the hammers/knives are well tightened.
- Grease the driveline, the roller adjuster screw and the roller supports.

### 5.2.4 EVERY 100 HOURS SERVICE

- Check the level of the oil in the overdrive housing. If necessary, top it up through the plug on the top of the gearbox (1 Fig. 20).

### 5.2.5 EVERY 500 HOURS SERVICE

- Change the oil in the overdrive housing after every 500 hours service or at least once a year.

## 5.3 PREPARING FOR STORAGE

Proceed with the following operations at the end of the season or if the machine is to remain idle for a long period of time:

- Wash all fertilizers and chemical products from the machine and dry it.
- Carefully check the machine and replace any damaged or worn parts.
- Fully tighten all the screws and bolts, particularly the ones that fix the tines.
- Thoroughly grease the machine and then cover it with a tarpaulin and store it in a dry place.

If these operations are carried out with care, it will be all to the user's advantage as the machine will be in optimum conditions when needed again.

**If these operations are carried out with care, it will be all to the user's advantage as the machine will be in optimum conditions when needed again.**

**If the machine must be dismantled, comply with the anti-pollution laws in force. Old lubricants must and the various components must be disposed of according to their different structures.**

## 5.4 SPARE PARTS

All the parts forming the machine can be ordered from the Manufacturer, specifying:

- The machine model.
- The serial number of the machine.
- The year of manufacture.
- The serial number of the required part (indicated in the spare parts catalogue), a description of the part and the required quantity.
- The means of transport. If this is not specified, the Manufacturer will dedicate diligent care to the service but shall not be liable for delays in shipment due to causes of force majeure. the shipping costs are always at the consignee's charge. The goods travel at the purchaser's risk and peril even when sold carriage paid.

**Remember that the Manufacturer is always at your disposal for any assistance and/or spare parts you may required.**

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## SECTION 1

### Description et Caractéristiques principales

#### 1.1 PRÉSENTATION

Ce manuel donne toutes les informations et les instructions nécessaires pour la connaissance, l'utilisation correcte et l'entretien ordinaire du "Broyeur flash55sr" (ci-après dénommée aussi la machine) produit par **BREVEGLIERI SpA** de Nogara (VR) Italie, ci-après dénommée le Constructeur.

L'utilisateur trouvera dans ce manuel tout ce qu'il est utile de savoir pour l'utilisation en toute sécurité et la bonne conservation de la machine, même si les descriptions ne précisent pas les détails des organes ou de leur fonctionnement.

Le non respect des consignes de ce manuel, la négligence, une utilisation impropre de la machine et l'exécution de modifications qui ne sont pas autorisées peuvent entraîner l'expiration de la garantie délivrée par le Constructeur.

**Le Constructeur décline toute responsabilité dans le cas de dommages qui seraient occasionnés par la négligence et le non respect des consignes énoncées dans ce manuel.**

Pour les réparations ou les révisions qui imposent des opérations complexes, il faut s'adresser aux Centres Après-Vente agréés qui disposent de personnel spécialisé ou bien directement au Constructeur. Le Constructeur se rend disponible pour vous assurer un service Après-Vente ponctuel et immédiat, mais aussi pour vous aider à utiliser la machine de la meilleure façon possible et pour obtenir le rendement maximum.

**Le présent manuel doit être rangé dans un endroit sûr pour permettre sa conservation et sa consultation pendant toute la durée de vie de la machine.**

**En cas de contestation le texte des instructions du mode d'emploi, auquel il sera fait référence, sera exclusivement l'italien.**

#### 1.2 GARANTIE

Le Constructeur garantit ses produits neufs pour une durée de 12 (douze) mois à compter de la date de livraison. Au moment de l'achat vérifiez que la machine et les accessoires sont intacts et complets.

Les réclamations éventuelles devront être présentées par écrit sous huitaine, à compter de la réception de la machine.

Cette garantie couvre uniquement la réparation ou le remplacement gratuit des pièces qui seraient reconnues défectueuses, suite à un examen attentif effectué par le Service Technique du Constructeur (les outils sont exclus).

Dans tous les cas les frais soutenus pour le remplacement des lubrifiants, les frais de transport, les frais de douane et la TVA demeurent à la charge de l'acheteur.

Les remplacements ou les réparations des pièces sous garantie n'entraînent en aucun cas une prolongation des délais de garantie.

**Les restitutions sans autorisation écrite expresse du Constructeur ne sont pas acceptées.**

L'acheteur ne pourra faire valoir ses droits sur la garantie que s'il aura respecté les conditions concernant la prestation de la garantie, figurant dans le contrat de fourniture.

##### 1.2.1 EXCLUSIONS DE LA GARANTIE

**La garantie sera sans effet** dans les cas suivants (en plus des conditions prévues selon le contrat de fourniture):

- En cas de dommage imputable à un entretien insuffisant.
- Au cas où la machine subirait des changements suite à des réparations effectuées par l'utilisateur sans l'autorisation du Constructeur ou bien à cause du montage de pièces qui ne sont pas d'origine et que le dommage serait provoqué par ces changements.
- Au cas où la machine serait appliquée à des tracteurs d'une puissance supérieure à celle indiquée dans le tableau «Caractéristiques techniques».
- Au cas où les instructions décrites dans ce manuel ne seraient pas respectées.

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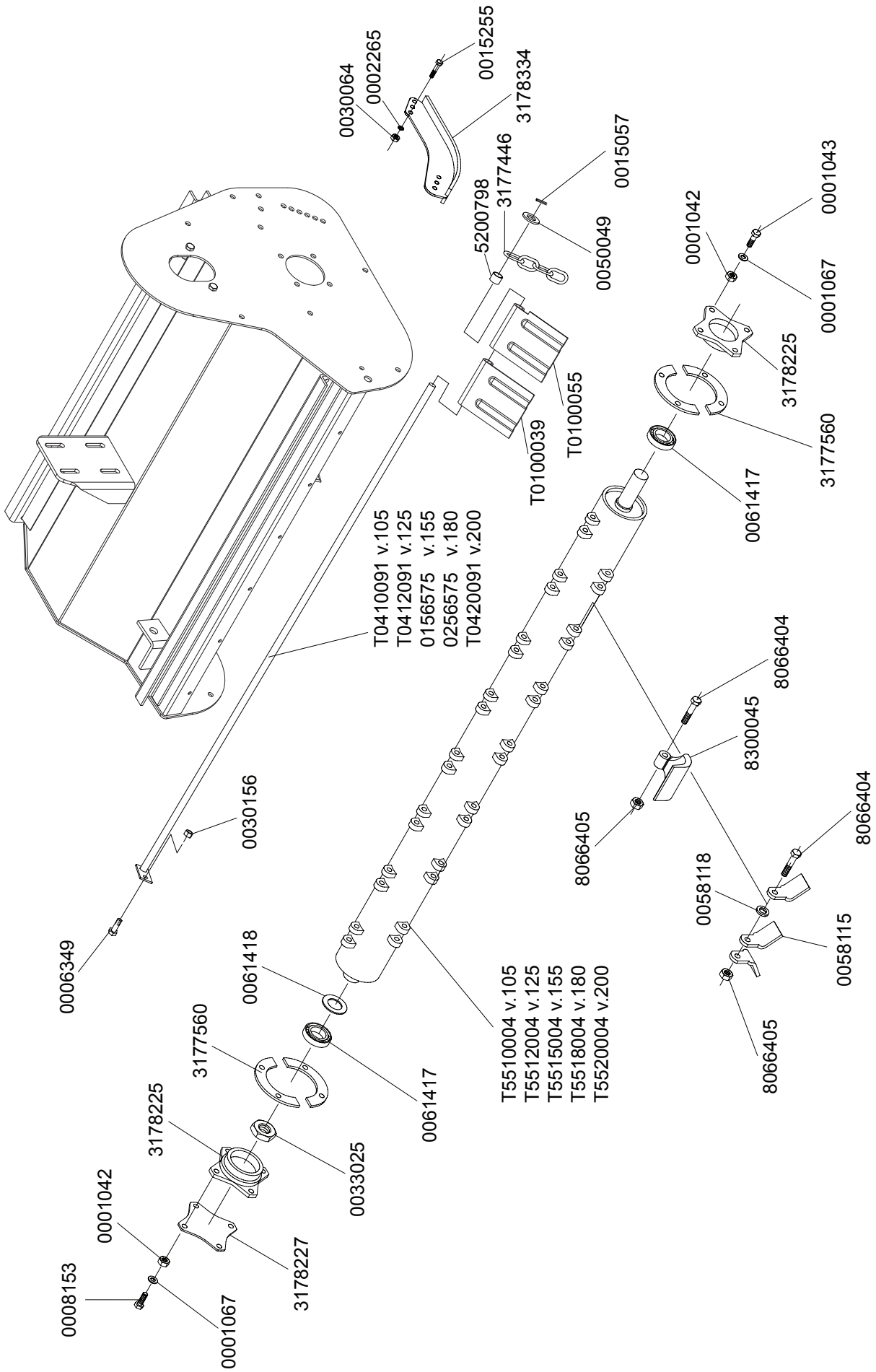
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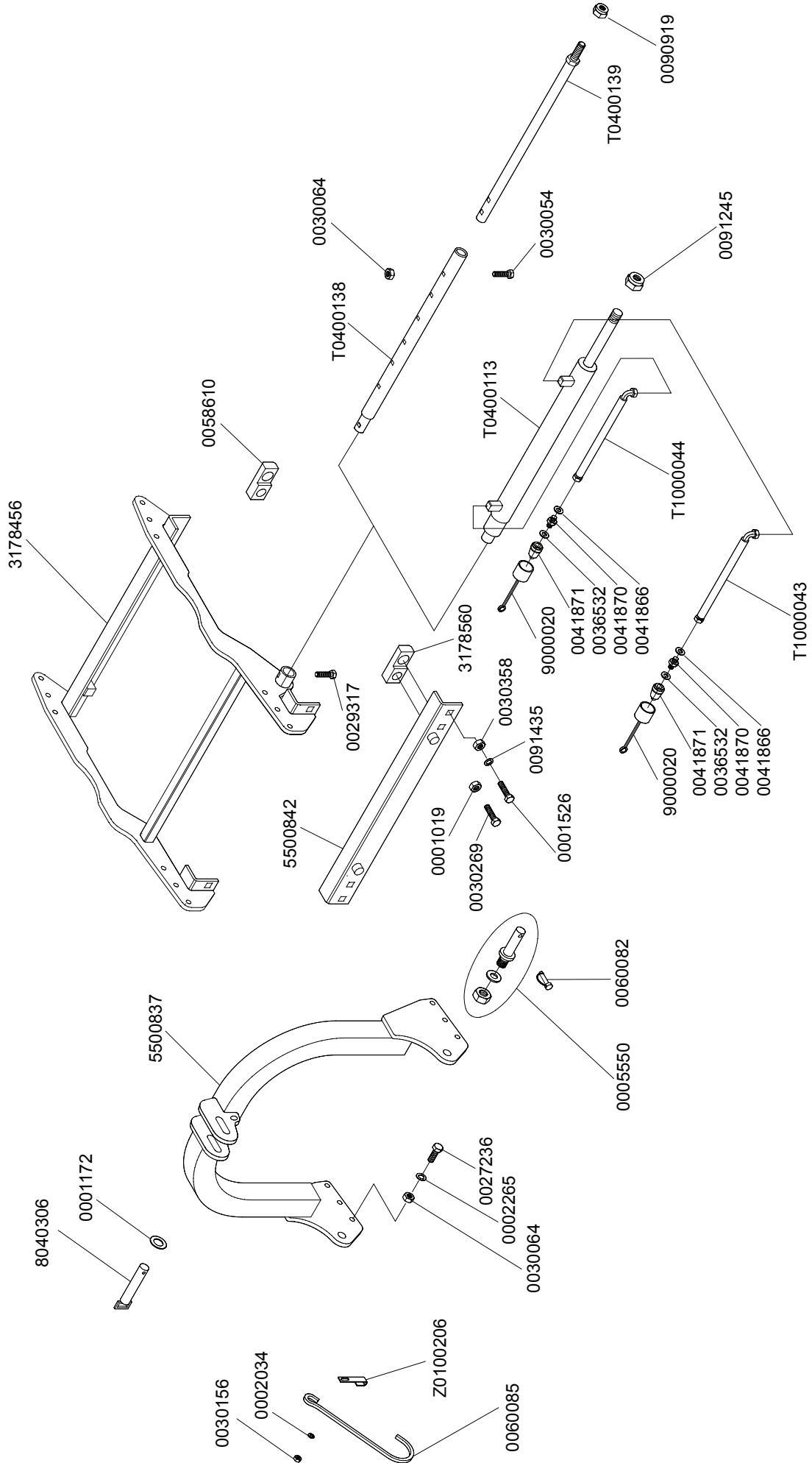
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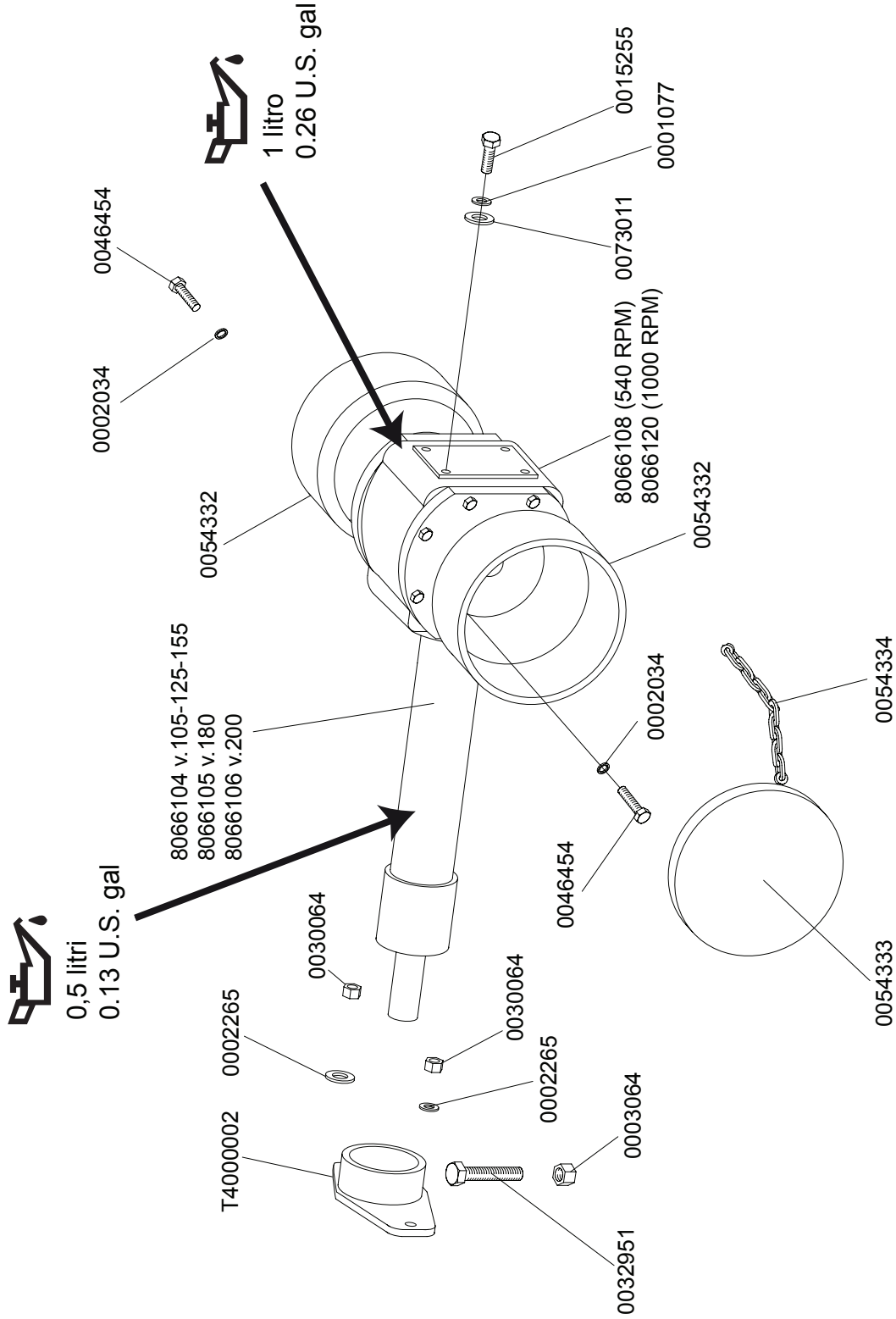
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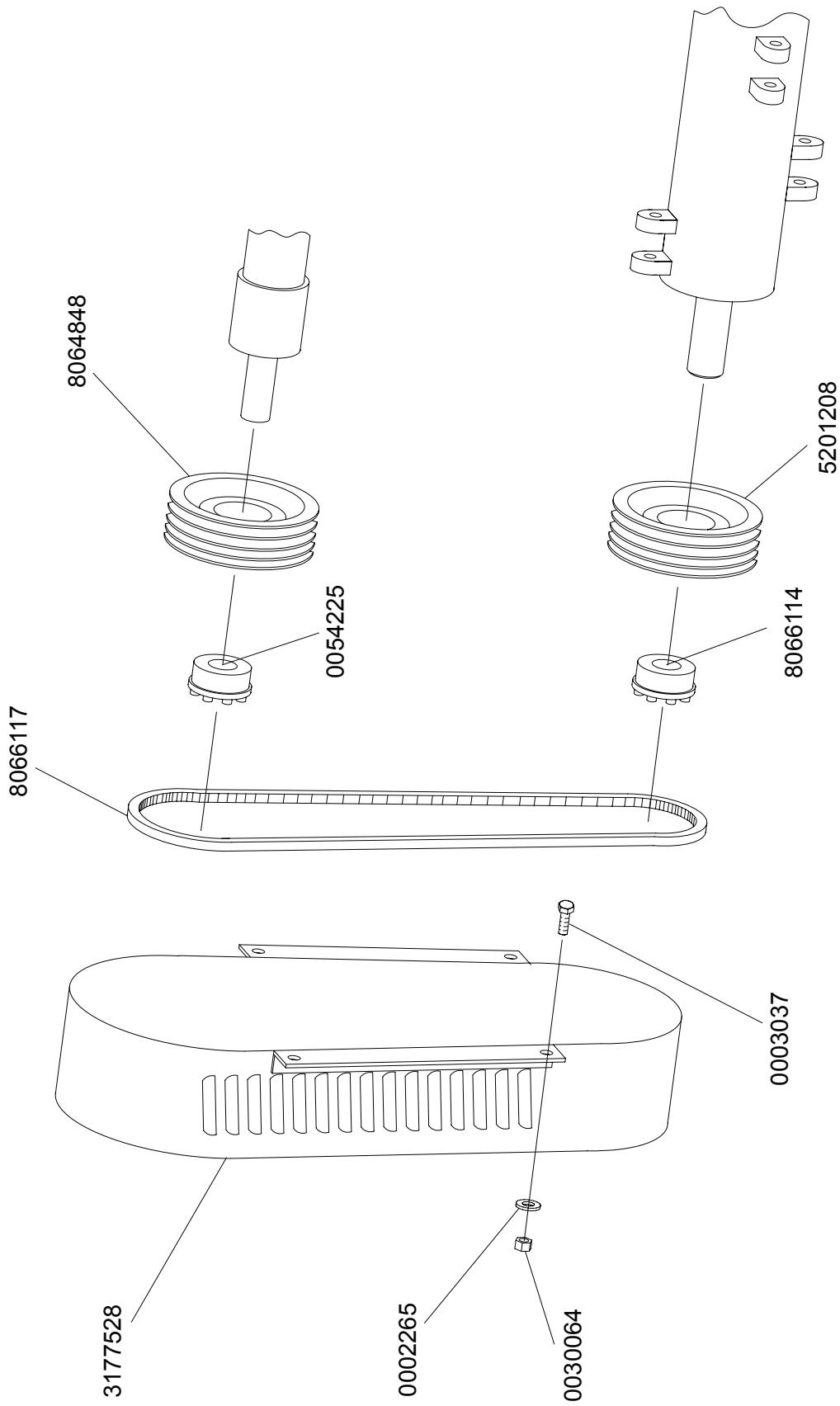




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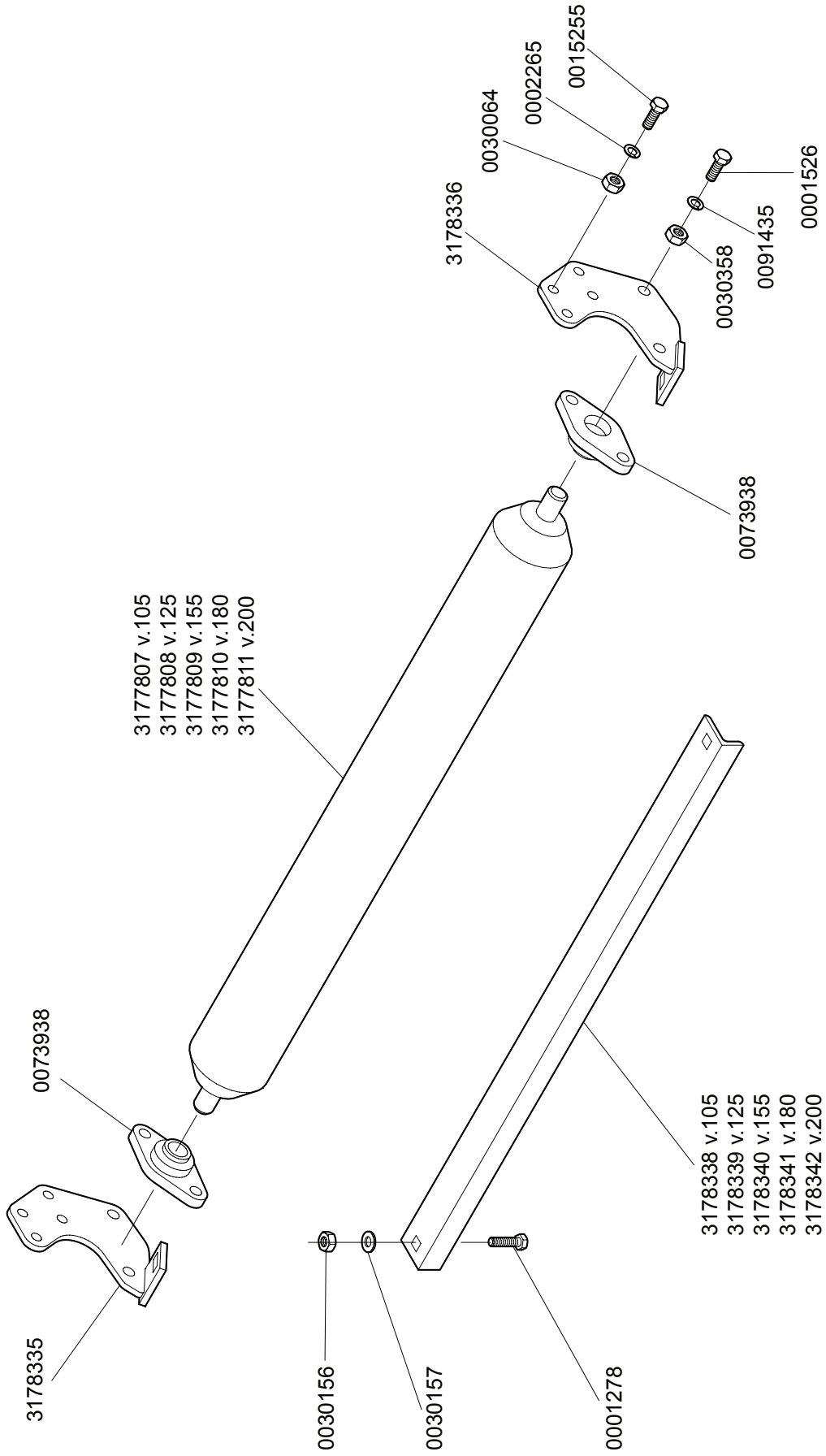


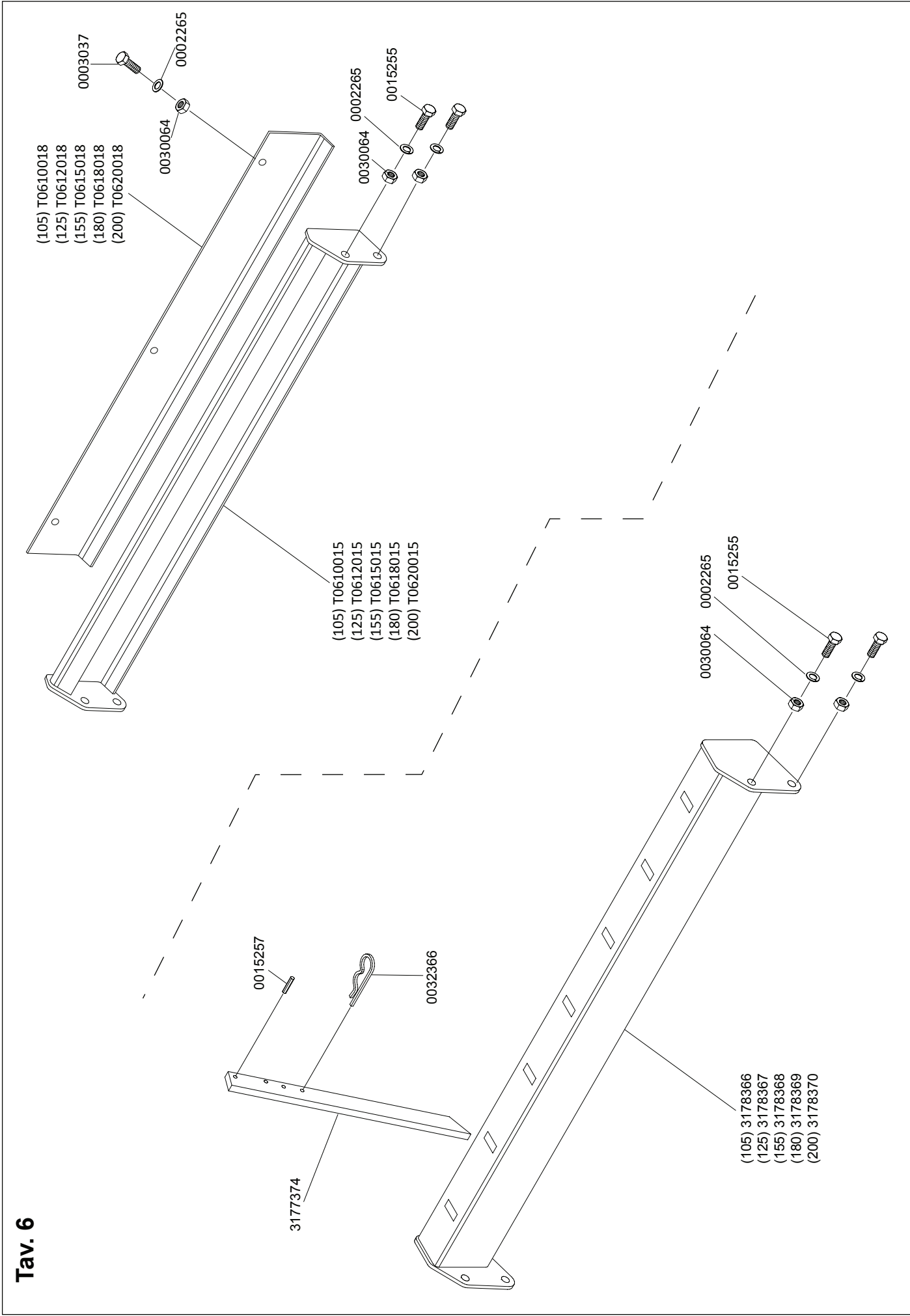


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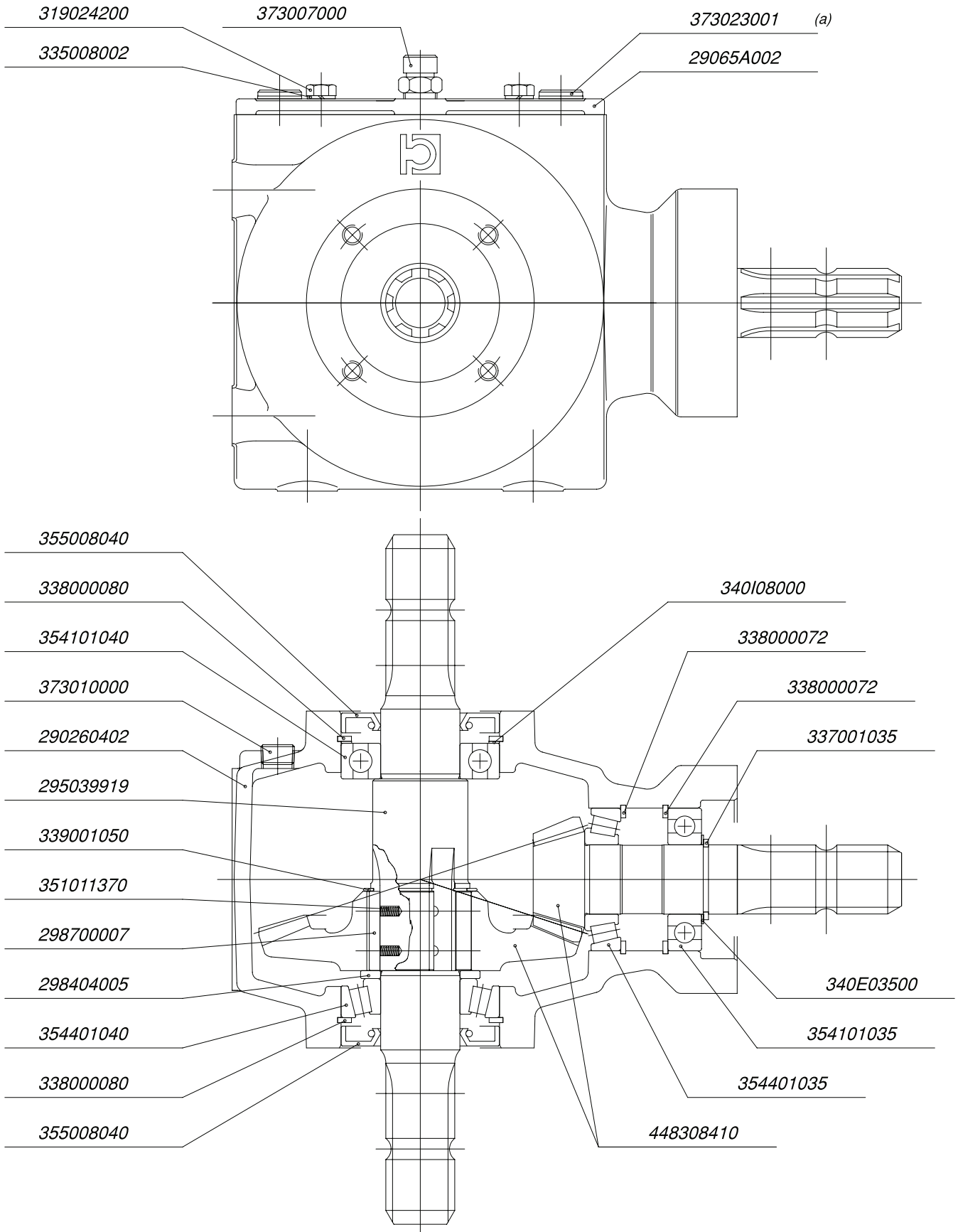
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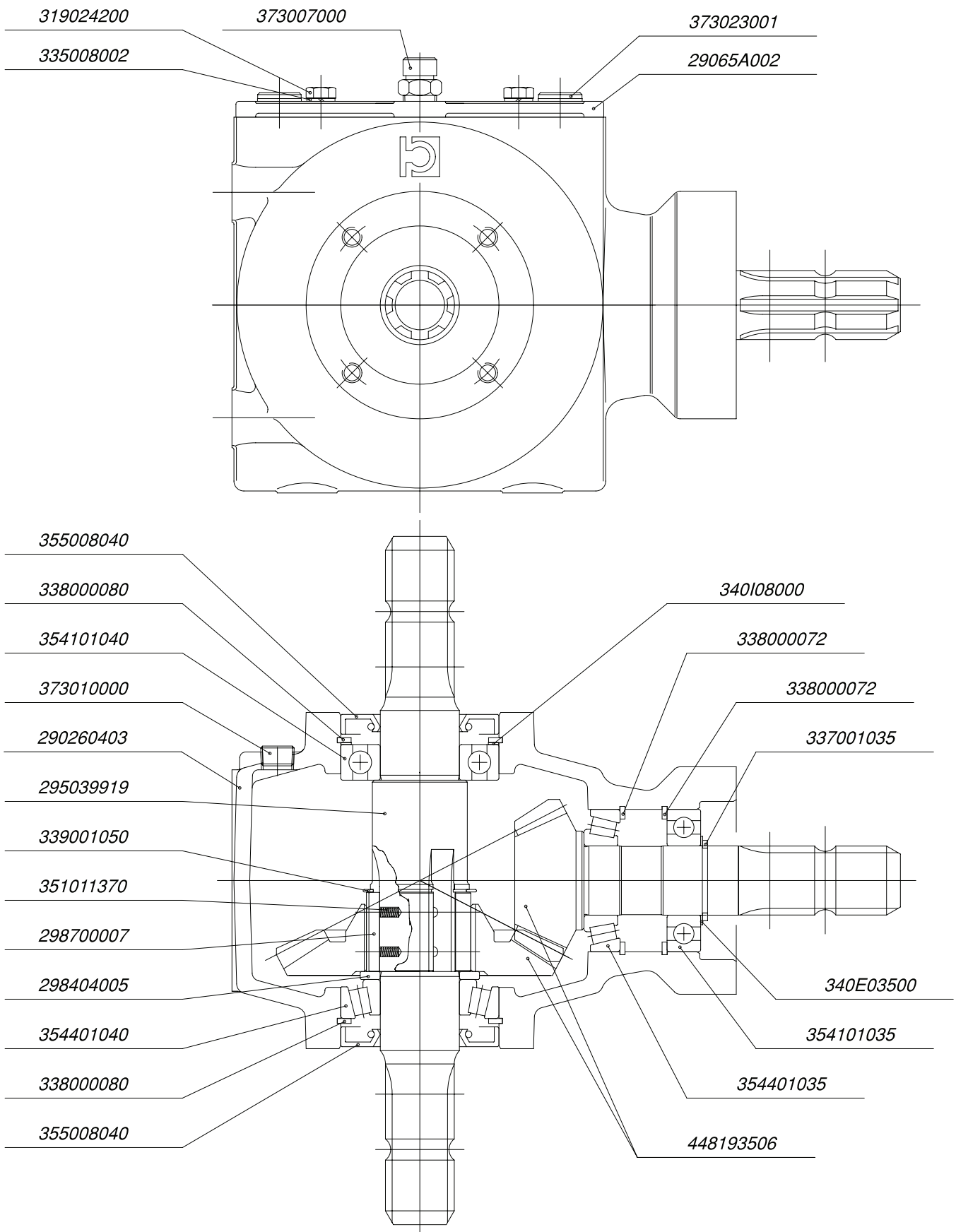


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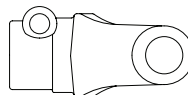
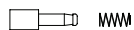
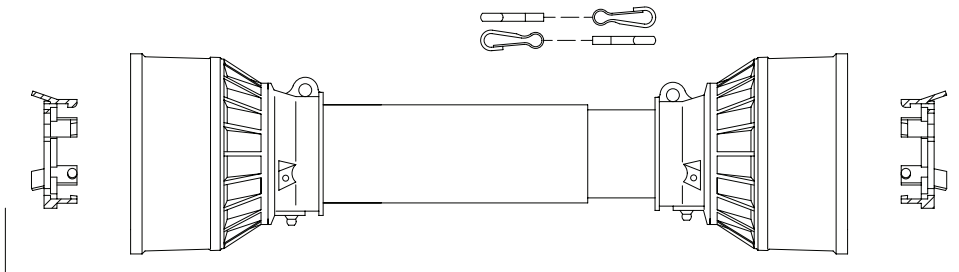
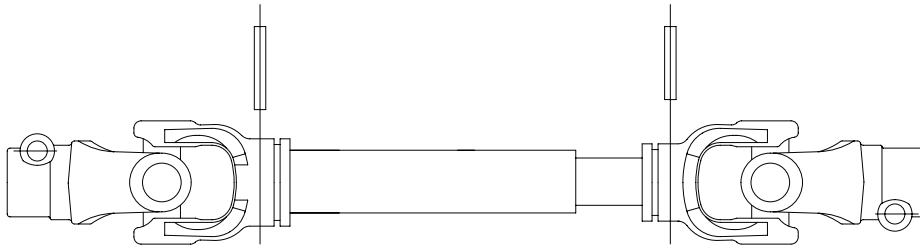
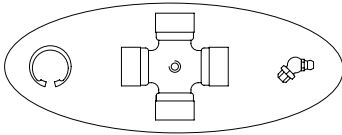


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Tav. 9

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