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OPERATOR MANUAL

SQUARE FERTILIZER BROADCASTER 400/500

CE

FOREWORD

This manual contains valuable information about GRIZZLY® SFB 400/500. It has been carefully prepared to give you helpful suggestions for operating, adjusting, servicing repair parts.

Keep this manual in a convenient place for quick and easy reference. Study it carefully. You have purchased a dependable and sturdy FERTILIZER BROADCASTER, but only by proper care and operation can you expect to get the service and long life designed and built into it.

RIGHT-HAND AND LEFT-HAND sides are determined by watching from the tractor side.

Sometime in the future your GRIZZLY® SFB 400/500 may need new parts to replace those are worn or broken. If so, go to nearest GRIZZLY® dealer and provide him the model and part number.

Customer Information

Name_____

Purchased from_____

Purchased date_____

Model No._____

Serial No._____

Part Number:

Publication date: 08/08/2025 Ver-00

Language: English

Congratulation for purchasing your new Grizzly® square fertilizer broadcaster-400/500.

This square fertilizer broadcaster 400/500 has been designed and manufactured following all safety and quality requirements needed for a safe and satisfactory use over time.

A careful reading of this manual will permit you to familiarize with your new equipment, and will provide you all the tools needed to use it safely.

A proper maintenance and knowledge of the safety rules of use will allow to obtain the best performance and a long service life of the machine.

The Safety Alert Symbol used throughout this manual and on safety decals of the machine indicates the presence of potential hazard to the operator. When you see this symbol, be alert and carefully read the message that follows it.

The Safety Alert Symbol is used in conjunction with following Signal Words, according to the degree of possible injuries that may result operating the implement:

DANGER

Indicates an imminently hazardous situation that, if not avoided, will result in death or serious injury.

WARNING

Indicates a potentially hazardous situation that, if not avoided, could result in death or serious injury, and includes hazards that are exposed when guards are removed. It may also be used to alert against unsafe practices.

CAUTION

Indicates a potentially hazardous situation that, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

IMPORTANT
Indicates instructions or procedures that, if not observed, can cause damage to equipment or environment.

NOTE
Indicates helpful information.

READ, UNDERSTAND, and FOLLOW the safety messages following the Safety Alert Symbol and Signal Words. Failure to comply with safety messages could result in serious bodily injury or death.

TABLE OF CONTENTS

1. ABOUT THIS MANUAL

The operator must read the manual for a correct understanding of the hazards that may present when operating the Broadcaster, as well as for obtain optimum performance from the machine.

The manual is part of the machine, it must be kept in good condition and remain with the machine even in case of resale, until its demolition. In case of loss or damage, request a new copy to the Manufacturer or your Dealer.

The information, descriptions and illustrations in this manual describe the state of the product at the time of its publication, and may not reflect the product in the future.

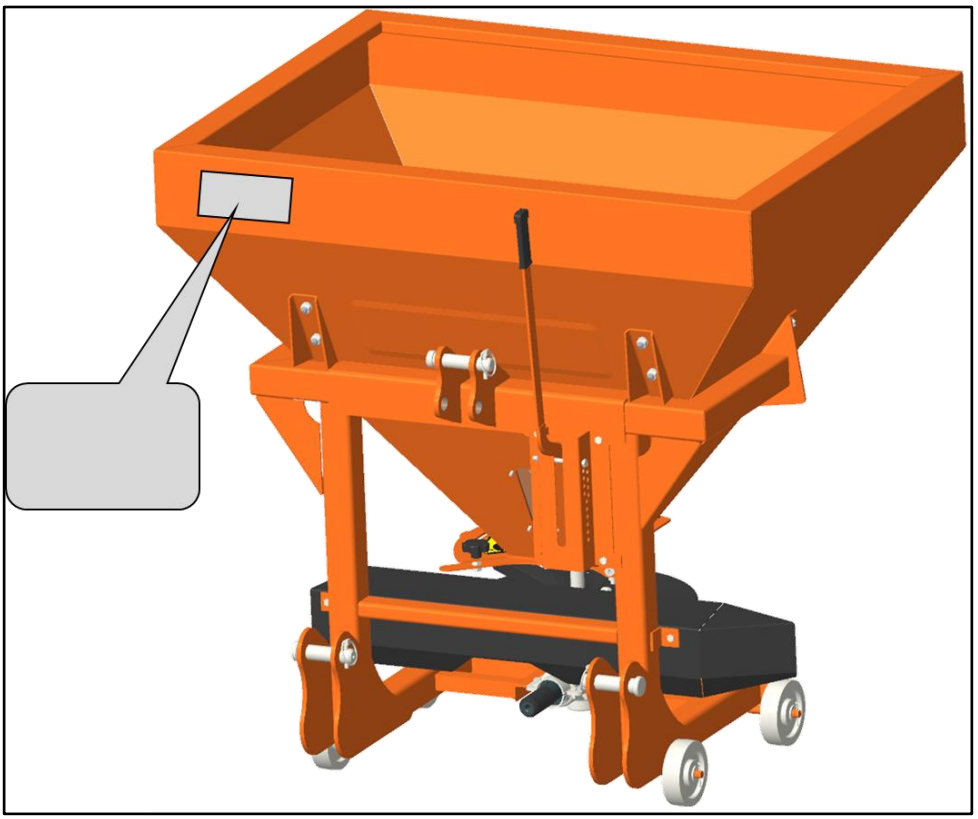
The Manufacturer reserve the right to make design improvements or changes in specifications without incurring in any obligation to install them on units previously sold.

2. INTRODUCTION

2.1 Machine Identification

Each Broadcaster is provided with a plate for unique identification (see position in picture below), showing with following information:

- Manufacturer name and address
- Product
- Model
- Chassis Serial Number
- Month & Year of manufacture
- Type
- Size/Working Width
- Weight



2.2 Introduction

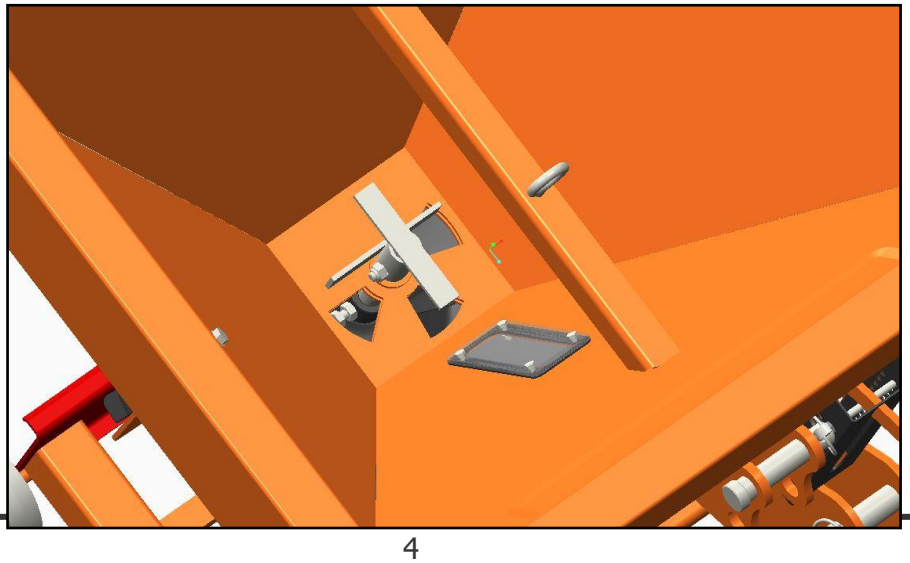
The Grizzly® fertilizer spreader is used to enrich the soil by spreading over the plant like wheat, barley, oat, sorghum, canola, cotton, beet, sunflower, corn and bean.

The machine is attached with the tractor through 3-point hitch system and PTO rpm of 540.
The machine consists of

- Chassis
- One hopper (stock) designed to contain the product to be spread
- Distribution components, driving and adjustment components.
- The chassis is the main parts of the machine which carries the other parts. Front side of the chassis is equipped with a coupling structure with three coupling points to the tractor. The hopper (stock) in a metal sheet has a square conical shape. The fertilizer contains in this hopper and there are holes at the bottom side of the hopper. The three opening is controlled through the lever which regulates the amount of fertilizer to be spread. The distribution unit is located just below the hopper.

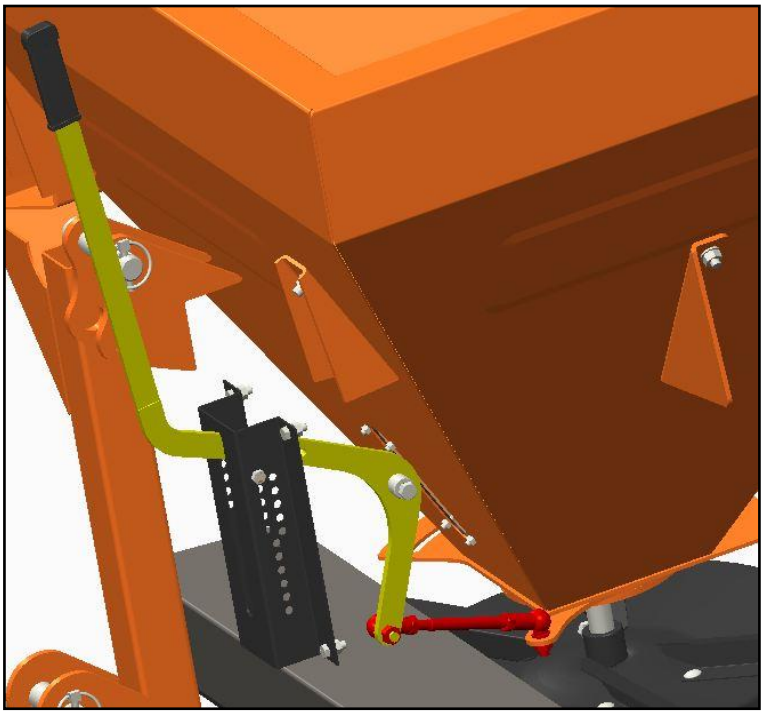
  The unit consists of

- Agitator to break the clod
- Spreading disc & Vanes
- Below the hopper there is the spreading disc. The fertilizer falls due to gravity on this spreading disc unit through the opening.

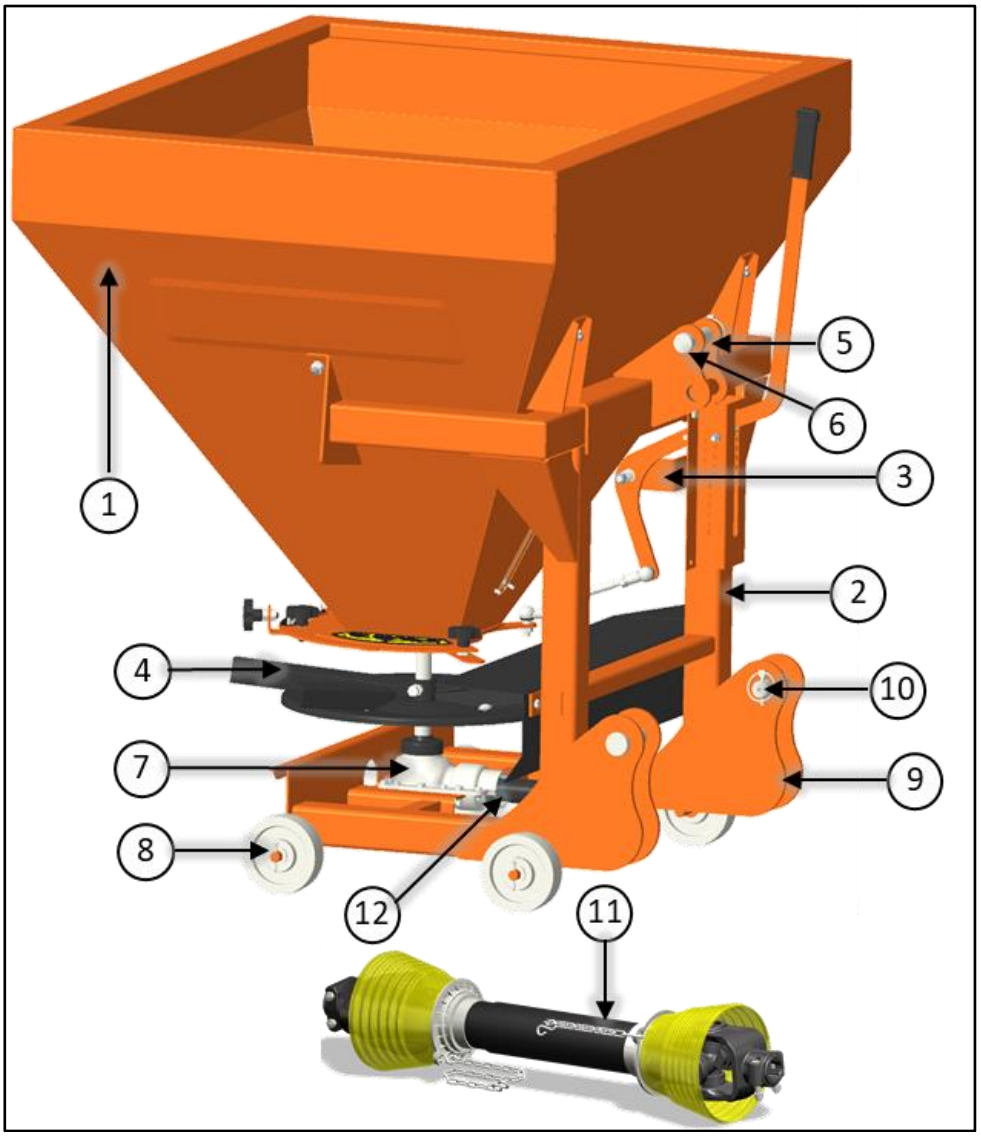


The product is dispensed manually with a lever, by varying the size of two opening on the bottom of the hopper. The left and right lever helps in the spreading the fertilizer to the left, right and both sides of the tractor.

The distributor spreader system consists of one horizontal disk which rotates about the vertical axis. The disk has 4 vanes positioned at 4 different location of the disk. The centrifugal force generated due to the rotation of the disk helps in the spreading the product in the field.



2.3 MAIN PARTS DESCRIPTION



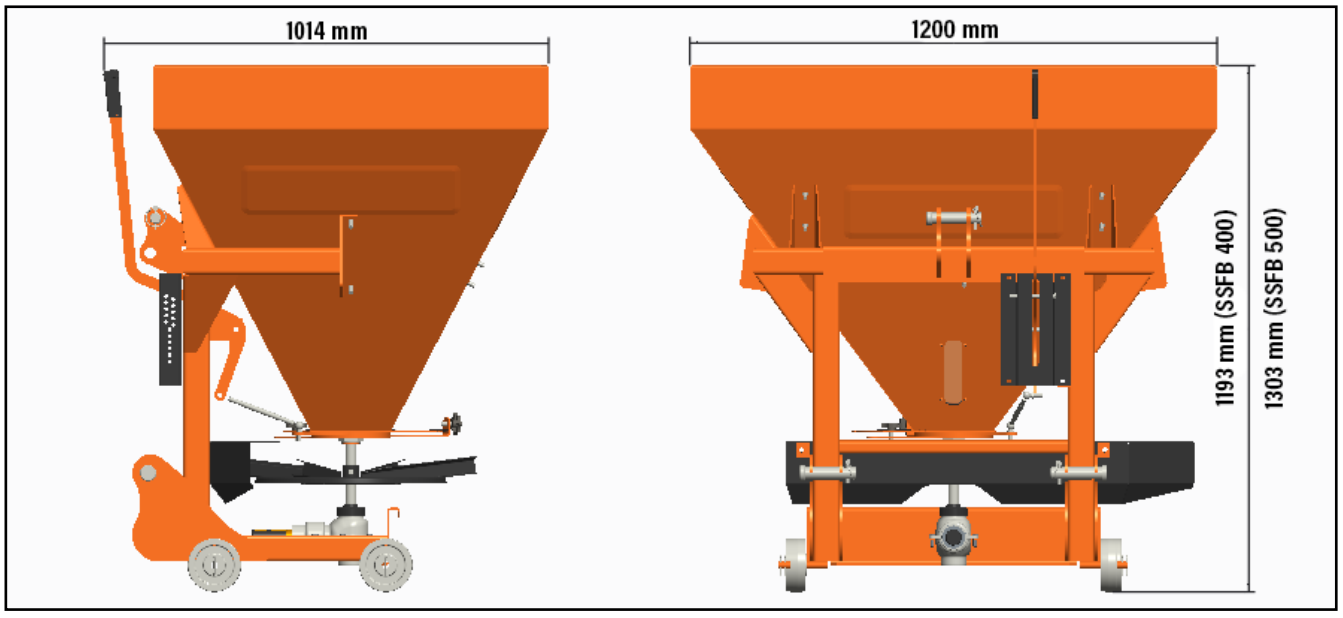
1. Hopper	7. Gear Box
2. Chassis	8. Wheel
3. Adjustment Mechanism	9. Lower Hitch
4. Spreading Disc	10. Lower Hitch Pin
5. Upper Hitch	11. Cardan (PTO) Driveshaft
6. Upper Hitch Pin	12. Implement Input Connection

2.4 Technical Specifications

FEATURES	UNIT	SSFB-400	SSFB-500
HOPPER CAPACITY	L	400	500
SPREADING DISC	Nos.	1	1
OVERALL WIDTH (W)	mm.	1200	1200
OVERALL LENGTH (L)	mm.	1014	1014
OVERALL HEIGHT (H)	mm.	1193	1303
MAX. WORKING WIDTH	M	14	14
CATEGORY	-	2	2
AGITATOR SYSTEM	-	Vertical	Vertical
TYPE OF GEARBOX RATIO	-	1:1	1:1
PTO INPUT SPEED	RPM	540	540
REQUIRED POWER	Hp / Kw	40-45 / 30-34	40-45 / 30-34
TOTAL WEIGHT	Kg / lbs.	120 / 265	127 / 280

The manufacturer reserves the right to make changes without prior notice.

If the machine is to be transported by lift, move it to a proper space by an appropriate lift or hoist with adequate capacity. As this operation poses danger, it has to be carried out by a competent operator. The mass of the machine is given on the number plate.



3. SAFETY

Proper use of the equipment, a strict observance of the safety messages listed below and application of all reasonable practices to avoid any risks prevents accidents or injury, allows the machine working better and longer, and minimizes the failures.
The manufacturer assumes no liability for any damage resulting from not applying the behavioral rules indicated into the manual.

3.1. GENERAL SAFETY INSTRUCTION

 **DANGER**
The machine must be used only by authorized and well trained operators. The operator must have read and understood the instructions of this manual, it must make adequate preparation for the proper use of the machine and must hold a driving license. In case of doubt about the use of the machine and/or the interpretation of this manual, the operator must contact the Manufacturer or the Dealer.

 **WARNING**
The manual must always remain with the machine. In case of loss or damage, request a new copy from the Manufacturer or your Dealer.

 **WARNING**
Follow strictly the rules prescribed by the safety pictograms applied to the machine.

 **WARNING**
Be sure that all safety pictograms are legible. If pictograms are worn, they must be replaced with others obtained from the Manufacturer, and placed in the position indicated by this manual.

 **DANGER**
Before using the machine, make sure that all safety devices are installed and in good working conditions. In case of damages of shields, replace them immediately.

 **DANGER**
Is absolutely forbidden to remove or alter safety devices.

 **DANGER**
Pay maximum attention to avoid any accidental contact with rotating parts of the machine.

 **DANGER**
During operation, adjustment, maintenance, repairing or transportation of the machine, the operator must always use appropriate Personal Protective Equipment (PPE).

 **DANGR**
Do not operate the implement while wearing loose fitting clothing that can give rise to entanglement in parts of the machine.

 **DANGER**
Do not operate the implement when tired, not in good condition or under the influence of alcohol or drugs.

 **CAUTION**
If the use of the machine is required at night or in conditions of reduced visibility, use the lighting system of the tractor and possibly an auxiliary lighting system.

3.2. EQUIPMENT SAFETY INSTRUCTION

 **DANGER**
The machine should be used by a single operator driving the tractor.

 **WARNING**
Any unauthorized modification of the machine may cause problems in safety and relieves the Manufacturer from any liability for damages or injuries that may result to operators, third parties and objects.

 **WARNING**
Before using the machine, familiarize yourself with its controls and its working capacity.

 **WARNING**
Do not use the machine with missing bolts, screws, pins or safety pins, safety guards etc.

 **WARNING**
Never use the machine to transport or lift people, animals or objects.

 **DANGER**
Do not operate if the driveshaft is damaged. The driveshaft could be subject to breakage during operation, causing serious injury or death. Remove the driveshaft and replace it with an undamaged one.

3.3. OPERATING SAFETY INSTRUCTION

 **WARNING**
Before using the machine, be sure to have cleared the operating area from obstacles (stones, branches, debris, etc...). Mark all the obstacles that cannot be eliminated (e.g. by means flags).

 **DANGER**
Never engage the tractor PTO in the presence of people close to the driveshaft. The body, hair or clothing of a person can get caught in rotating parts, causing serious injury or death.

 **DANGER**
Before engaging the PTO and during all operations, make sure that no person or animal is in immediate area of action of the machine. Never use the square fertilizer broadcaster 400/500 if people are in his working area.

 **DANGER**
It's absolutely forbidden to stand near the square fertilizer broadcaster 400 /500 with moving parts.

WARNING

The operator must operate machine lifting/lowering only from the driving seat of the tractor. Do not perform lifting maneuvers on side or behind the tractor.

WARNING

Before making changes in direction, turns or going in reverse, slightly lift the square fertilizer broadcaster 400/500 from the ground after disengaging the power take-off, to avoid damage to the machine

DANGER

In presence of steep slopes (greater than 15 degrees) the tilling action may cause instability of the tractor with risk of serious injury or death hazard. Consult the manual for the tractor to determine the maximum slope that the tractor is able to deal with.

DANGER

Always disengage the PTO before raising the square fertilizer broadcaster, and never engage the PTO with the square fertilizer broadcaster 400/500 in the raised position. The machine might throw objects at high speed, causing serious injury or death.

WARNING

Never leave the driver's seat when the tractor is turned on. Before leaving the tractor, lower the square fertilizer broadcaster 400/500 to the ground, disengage the PTO, insert the parking brake, stop engine and remove the key from the control panel.

DANGER

The PTO shields of tractor and implement side, the driveshaft shielding and the driveshaft retaining chains must be properly installed and in good condition, to avoid risk of entanglement with serious injury or death.

DANGER

Before engaging the PTO of the tractor, always make sure that the driveshaft is mounted in the correct direction, and that its clamping elements are properly connected both to tractor side and to square fertilizer broadcaster 400/500 side.

WARNING

Always disengage the tractor PTO when the driveshaft exceeds an angle of 10 degrees up or down while operating. An excessive angle with driveshaft rotating can break the driveshaft and cause flying projectiles.

CAUTION

Prolonged use of the square fertilizer broadcaster 400 /500 can cause overheating of the gearbox. Do not touch the gearbox during use and immediately after, it could be extremely hot and cause severe burn.

WARNING

All adjustment operations on the square fertilizer broadcaster 400/500 must be performed by qualified and trained operators, with the tractor engine off, the PTO disengaged, the square fertilizer broadcaster 400/500 lowered to the ground or on security stands, the ignition key off and the parking brake set.

3.4. TRANSPORTING SAFETY INSTRUCTION

WARNING

Before transporting the machine, determine the stopping characteristics of the tractor and implement.

WARNING

Transport only at speeds where you can maintain control of the equipment.

WARNING

When driving on roads, the implement must be in transport position adequately raised from the road surface, with tractor lifting hydraulics locked so that the square fertilizer broadcaster-400/500 cannot be lowered accidentally.

DANGER

The implement may be wider than the tractor. Pay attention during transporting to persons, animals or obstacles exposed.

WARNING

When turning, use extreme care and reduce tractor speed.

WARNING

Do not operate the tractor with weak or faulty brakes or worn tires.

CAUTION

Always use tractor lighting system and auxiliary lighting system for an adequate warning to operators of other vehicles, especially when transporting at night or in conditions of reduced visibility.

DANGER

In case is required the lifting of the machine, make sure that the lifting device chosen is suitable to perform the operation safely, and use only the lifting points prescribed on square fertilizer broadcaster 400/500.

3.5. MAINTENANCE SAFETY INSTRUCTION

 **WARNING**

All maintenance and repairing operations must be performed by qualified and trained operators, with the tractor engine off, the PTO disengaged, the square fertilizer broadcaster 400 /500 lowered to the ground or on security stands, the ignition key off and the parking brake set.

 **WARNING**

Perform repairs and replacements necessary to the machine using only original spare parts provided by the manufacturer or your Dealer.

 **DANGER**

Perform maintenance operations always using appropriate Personal Protective Equipment (protective eye glasses, hard hat, hearing protection, safety shoes, overall and work gloves, filter-mask).

 **CAUTION**

Before any maintenance operation, make sure that the parts which may become hot during use (gear box) have cooled.

 **WARNING**

Do not perform repairs that you do not know. Always follow the manual instructions and in case of doubt contact the Manufacturer or your Dealer.

 **DANGER**

Do not swallow fuels or lubricants. In case of accidental contact with eyes, rinse well with water and consult a doctor.

3.6. INFORMATION ON STORAGE

 **WARNING**

Never leave the tractor unattended with the square fertilizer broadcaster 400/500 in lifted position. Accidental operation of lifting lever or a hydraulic failure may cause sudden drop of unit with injury or death by crushing.

DANGER

Following operation, or before unhooking the machine, stop the tractor, set the brakes, disengage the PTO, lower the square fertilizer broadcaster 400/500 to the ground, shut off the engine, remove the ignition key and wait for all moving parts to stop.

WARNING

Make sure all parked machines are on a hard, level surface and engage all safety devices.

CAUTION

Place support blocks under square fertilizer broadcaster 400/500 as needed to prevent unit from tipping over onto a child and/or an adult. A square fertilizer broadcaster 400/500 that tips over can result in injury or death.

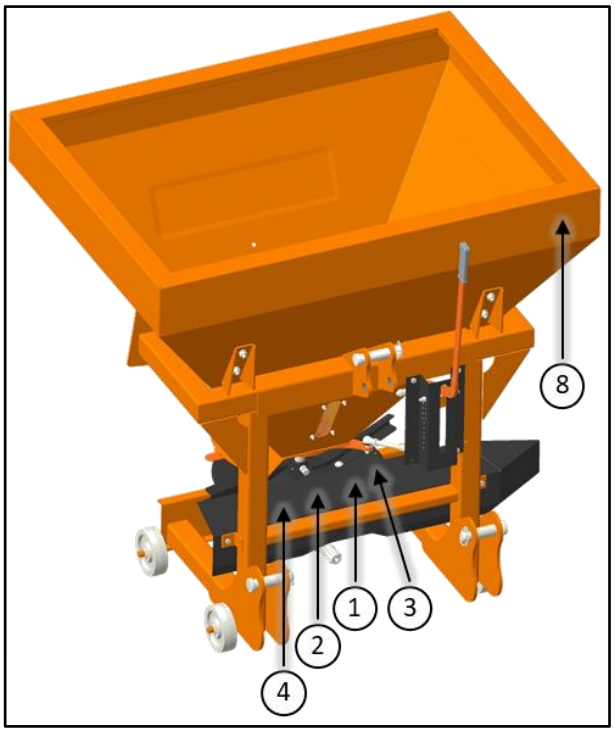
CAUTION

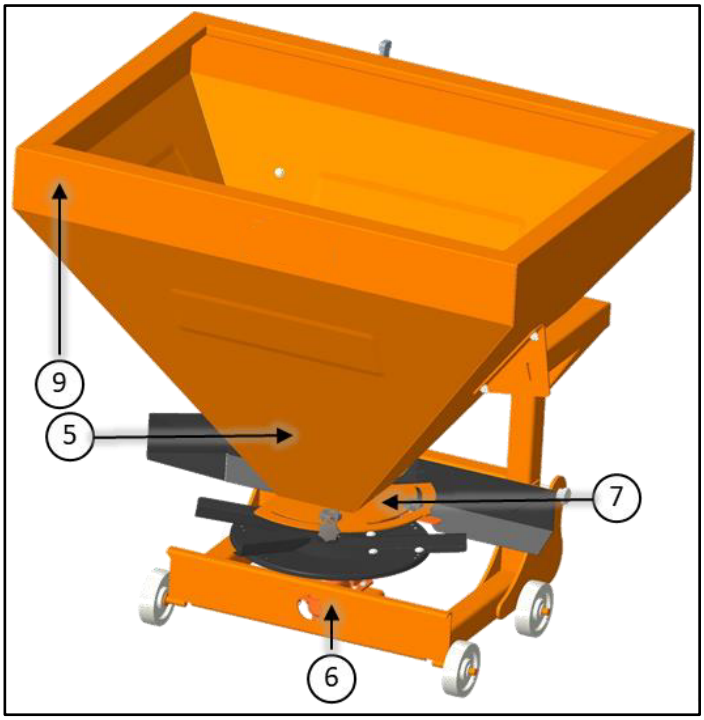
Store the unit in an area away from human activity.

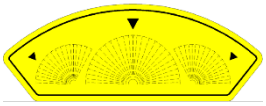
3.7. SAFETY LABELS

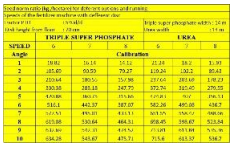
The safety labels on the machine provide key information for use in the safety of the machine. Make sure all the labels are in good condition. If the labels are deteriorated, they must be replaced as with others provided by the manufacturer, and placed in the position shown in this manual. Make sure all the labels are readable. If necessary, clean them using a cloth with soap and water.

IMPORTANT: If Safety Signs have been damaged, removed, become illegible or parts replaced without signs, new safety signs must be applied.
New Safety signs are available from your authorized Grizzly® Dealer or factory.





Sr. No.	Decal No.	Description	Picture
1	D1077	Attention Danger • Before making any operation on the machine, stop the engine of the tractor or the self-moving means, remove the key, put on the parking brake and read carefully the operator's manual. • Attention danger possible throwing of material and/or objects, please do not come up the machine. • Keep a safety distance of 50 meters, at least, from the machine.	
2	D1080	Crushing hazards & Thrown or flying objects hazards • Attention danger of crushing. • Do not stand between the machine and tractor when the tractor engine is running.	
3	D1081	Input Drivelines & PTO SPEED • Attention checks the sense of rotation and the number of revolutions (540 rpm) of the tractor power placing the PTO shaft. • Attention danger of entangling and dragging. Do not put hands near the running gearbox.	
4	D1082	SAFETY Equipment • Attentions use the individual protection devices, as required.	
5	D1078	WARNING - Hand Hazard • Wait until all machine components have completely stopped before touching them.	
6	D1008	GREASE	
7	D1120	FLOW DIRECTION PLATE	

8	D1121 D1121	400 LT 500 LT	
9	D1119	FERTILIZER SPREADING CHART	

4. PREPARING THE TRACTOR

4.1 USE YOUR TRACTOR OPERATOR'S MANUAL

NOTE: Use the proper HP of tractor for the particular model of machine. See the section technical specification.

- Always refer to YOUR tractor operator's manual for specific detailed information regarding operation of YOUR equipment.
- Following tractor related information uses tractors to illustrate preparation, attachment and operational procedures.
- Use your tractor Operator Manual for detailed information, as procedures will vary by equipment.

4.2 TRACTOR STABILITY AND LIFTING CAPACITY CHECK

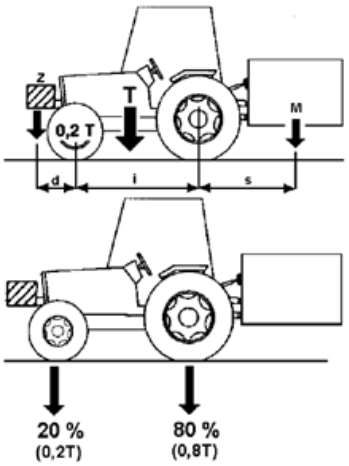
- The front counterweight may not be able to maintain tractor stability if the tractor is driven at excessive speed on rough ground with the implement raise. Drive slowly and carefully in these conditions.
- As far as road circulation is concerned, hitching equipment to the tractor to have a single unit, can alter stability and make it difficult to drive and work.

When you add a machine to the tractor, you will change the weight distribution over the axles. It is therefore recommended to add suitable ballast to the front of the tractor in order to properly distribute the weight over the axles.

Calculate the ballast to be used with the following formula:

$$M \times s < 0{,}2\,T \times i + Z\,(d + i)$$

$$Z > \frac{(M \times s) - (0{,}2\,T \times i)}{(d + i)}$$



Where:

i = tractor wheel inter-axis (m)

d = distance between the front axle and the front ballast (m)

s = projection of the piece of equipment from the rear axle (m)

T = tractor mass (kg)

Z = ballast mass (Kg)

M = equipment mass (Kg)

At least 20% of the total tractor-equipment mass should rest on the front bridge of the tractor. It should be remembered, however, that stability can be improved with the right choice of tractor equipment coupling and with the application of ballast at the front, in the limits and methods indicated by the tractor manufacturer. Moreover, when the tractor is stopped, the machine should be lowered onto the ground. This also improves stability.

5. PREPARING THE IMPLEMENT

- Tighten all bolts and nuts. See the bolt torque tables in the maintenance section.
- Before starting the implement check that the machine is perfectly in order, that the lubricants are at the correct level and all parts subjected to wear and deterioration are fully efficient.

6. ATTACHING AND DETACHING THE IMPLEMENT

6.1 Use Your Tractor Operator's Manual

- Always refer to YOUR tractor operator's manual for specific detailed information regarding operation of YOUR equipment.
- Following tractor related information uses tractors to illustrate preparation, attachment and operational procedures.
- Use your tractor OM for detailed information, as procedures will vary by equipment

6.2 Attaching implement to the Tractor

Implement can be attached to the suitable category tractor.
Follow below procedure for attaching the implement to the tractor

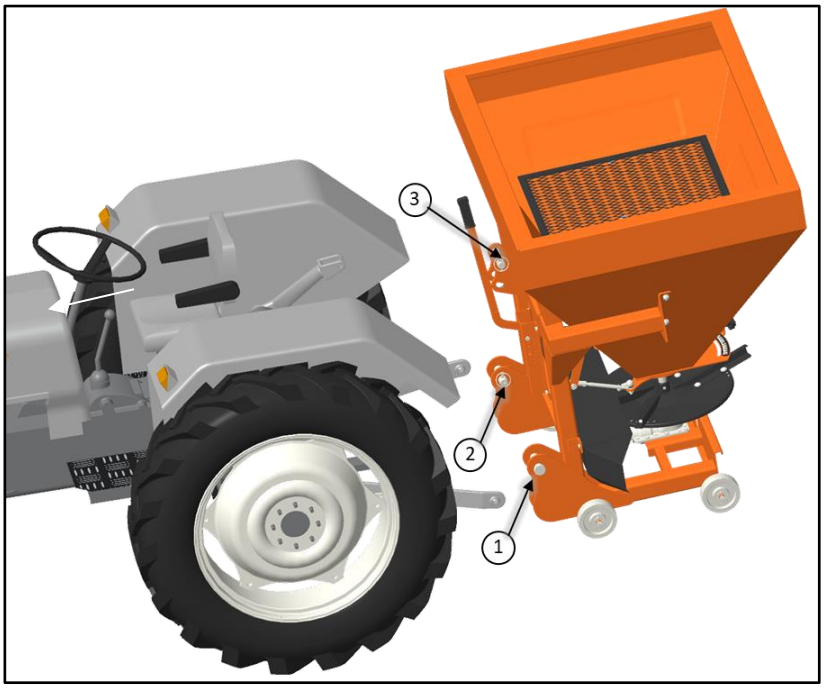
 **Warning**: Trained person is required to attach and detach from the tractor. Else may cause major injury to operator and Sevier damage to equipment and tractor.

 **Caution**: Implement should always be park on level ground for attaching a detaching to tractor safely and easily.

 **Caution**: Before attaching equipment to the tractor, check for any accessories fitted on tractor like drawbar, swinging drawbar, automatic hitch etc. for any hindrance, restriction, proper functioning and free up and movement of equipment. If required remove accessories before attaching equipment.

When using tractors with multi-speed PTO, be certain that PTO is set for prescribed RPM.

1. Bring the tractor back and insert LH lower link (1) of the tractor to the corresponding hitch pin of the equipment and lock it with the help of latch pin.
2. Similarly attach RH lower link (2) of the tractor to the corresponding hitch pin of the equipment. If required adjust height of lower link with the help of adjustable lift rod.
3. Attach top link (3) of tractor to top hitch point of the equipment. Adjust length of top link if required to reach and align to the required hole on the top hitch point.



6.3 DRIVELINE INSTALLATION

The gearbox unit is equipped with a free wheel inside, able to absorb the rotor inertia during stopping, and to prevent possible damage to the transmission system machine-tractor that would be caused by an instantaneous stop of the rotor.
Consequently, the use of a drive shaft with free wheel is not required.

Before installing the driveshaft, the operator must read the manuals of driveshaft and tractor, checking in particular that rpm and direction of rotation of the tractor PTO match those of the square fertilizer broadcaster 400/500.
If the direction of rotation of the PTO tractor does not match that of the machine, contact the Manufacturer or your Dealer.
To connect the driveshaft to the tractor and implement, the operator must:

- Park tractor and square fertilizer broadcaster 400/500 on a flat surface, with parking brake set, engine off, and ignition key removed;
- Check that driveshaft, square fertilizer broadcaster 400/500 and tractor are in good condition, otherwise provide for their replacement;
- Remove the PTO shield of the square fertilizer broadcaster 400/500 through the fixing screws;
- Insert the driveline yoke on the implement PTO by first lining up the splines, then ensure its tightening onto the shaft through its fastener/snap pin;
- Replace the PTO shield of the square fertilizer broadcaster 400/500 through the fixing screws;
- Insert the driveshaft yoke on the tractor PTO, then ensure its tightening onto shaft through its fastener;
- Hook to the tractor and square fertilizer broadcaster 400/500 the two retaining chains of the driveline shielding, to prevent shielding rotation during functioning of the machine.

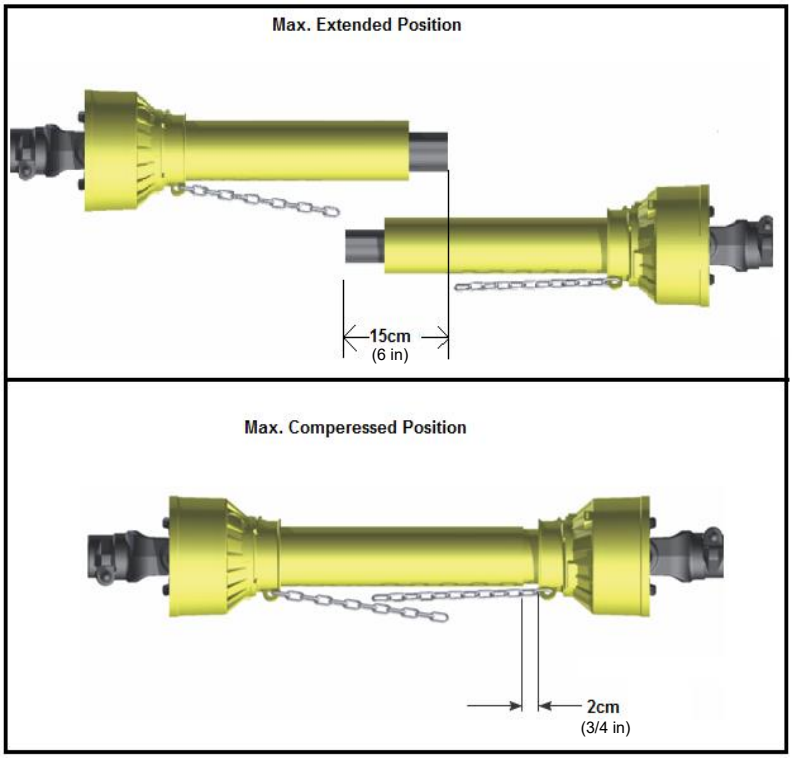
DRIVELINE LENGTH CHECK

Before operating the square fertilizer broadcaster 400/500, ensure that the size of driveshaft is adequate. The driveshaft supplied with the machine has a standard length, therefore it may need an adaptation of the length, depending of the tractor which the square fertilizer broadcaster 400/500 is combined.

The length of the driveshaft must be such to:

- Avoid bottom out of the transmission tubes, when the driveshaft is in compressed position (when square fertilizer broadcaster 400/500 is raised up off the ground);
- ensure an overlapping of the transmission tubes enough to transmit the torque required, when the Driveshaft is in max extension (when square fertilizer broadcaster 400/500 is in its lowest position in the ground).

When the driveshaft is at its minimum length (max compressed position), there must be at least a 2 cm (3/4 in) of distance between the ends of each transmission tube and the yokes side. When the driveshaft is at its maximum operational extension, there must be an overlap between the tubes profiles of 15 cm (6 in) at least.



A driveshaft too long may cause structural damages to the tractor and machine. If the driveshaft is too long, it may be adapted by removing it and shortening the tubes according to the instructions provided by the Manufacturer in its use and maintenance manual.

A driveshaft too short can cause disengage of the tubes during operation, with severe hazard for the operator and structural damage to the tractor and machine. If the driveshaft is too short, it must be replaced with a longer one. In this case contact the Manufacturer or your Dealer.

IMPORTANT

• Before operating the square fertilizer broadcaster 400/500 the first time, make sure that the driveshaft is lubricated in accordance with how indicated in the instruction booklet;
• Before operating the square fertilizer broadcaster 400/500 the first time, and after long periods of inactivity, make sure that the driveline clutch has run a short "run in" in accordance with what indicated in the instruction manual of the Manufacturer, removing the possible oxidation of the components that may compromise the correct slipping during the usage (see also section "Maintenance");
• Always engage the tractor PTO at low rpm to minimize the effect of the peak torque on the driveline and the machine.

7. TRANSPORTING

7.1 Transport Safely

 **CAUTION: When transporting on a public road or highway, use accessory lights and devices to provide adequate warning to operators of other vehicles.**
Contact with electrical cables can cause severe injury or death. When transporting or operating the machine, make sure to avoid contact with electrical lines.
When transporting the implement, always travel at a speed that allows adequate control of steering and stopping.

 **CAUTION: When transporting the implement on a smooth surface road, do not operate the tractor at more than 20 km/h (12 mph). Reduce speed considerably when traveling over uneven ground. Make sure there is no one near the implement.**

In the transport position, be sure to determine the amount of implement travel behind the tractor when turning corners. Be aware of width and height limits to avoid collisions with bridges and other vehicles.
Comply with the following recommendations:

- Use tractor with sufficient capacity to maintain control. Install adequate ballast on the tractor.
- Couple tractor brake pedals together.
- If the tractor has a safety ROLL-GARD canopy, keep your seatbelt fastened during transport operations.
- Engage a lower gear when going down steep hills or grades; never coast down hills.
- Always use the warning lights, day and night, when operating on public roads. Keep the reflectors clean and visible.
- Prevent collisions between other road users and slow-moving equipment operating on public roads.
- Frequently check for traffic from the rear, especially in turns, and use turn signal lights.
- Stopping distance increases with the speed and weight of mounted loads, and on slopes. Observe these recommended maximum travel speeds or the local speed limit that might be lower. Do not go faster than 20 km/h (12 mph).
- Ensure that the load does not exceed the recommended weight distribution. Add ballast while complying with tractor limits, lighten the load or use a heavier tractor.
- Be especially careful when transporting the machine in adverse conditions, when turning and when operating on slopes.

7.2 Transporting

IMPORTANT: Always disengage PTO before raising the implement to transport position.

 **CAUTION: When travelling on public roads whether at night or during the day, use accessory light and devices for adequate warning for operators of other vehicles.**

- When raising the machine to the transport position, be sure that propeller shaft does not contact with tractor or machine.
- Adjust the tractor's three-point hitch height so that the machine vanes are not lifted more than 32 inches off the ground.
- Be sure to tractor ground speed when turning and leave enough clearance so the implement does not contact obstacles such as building, trees and fences.

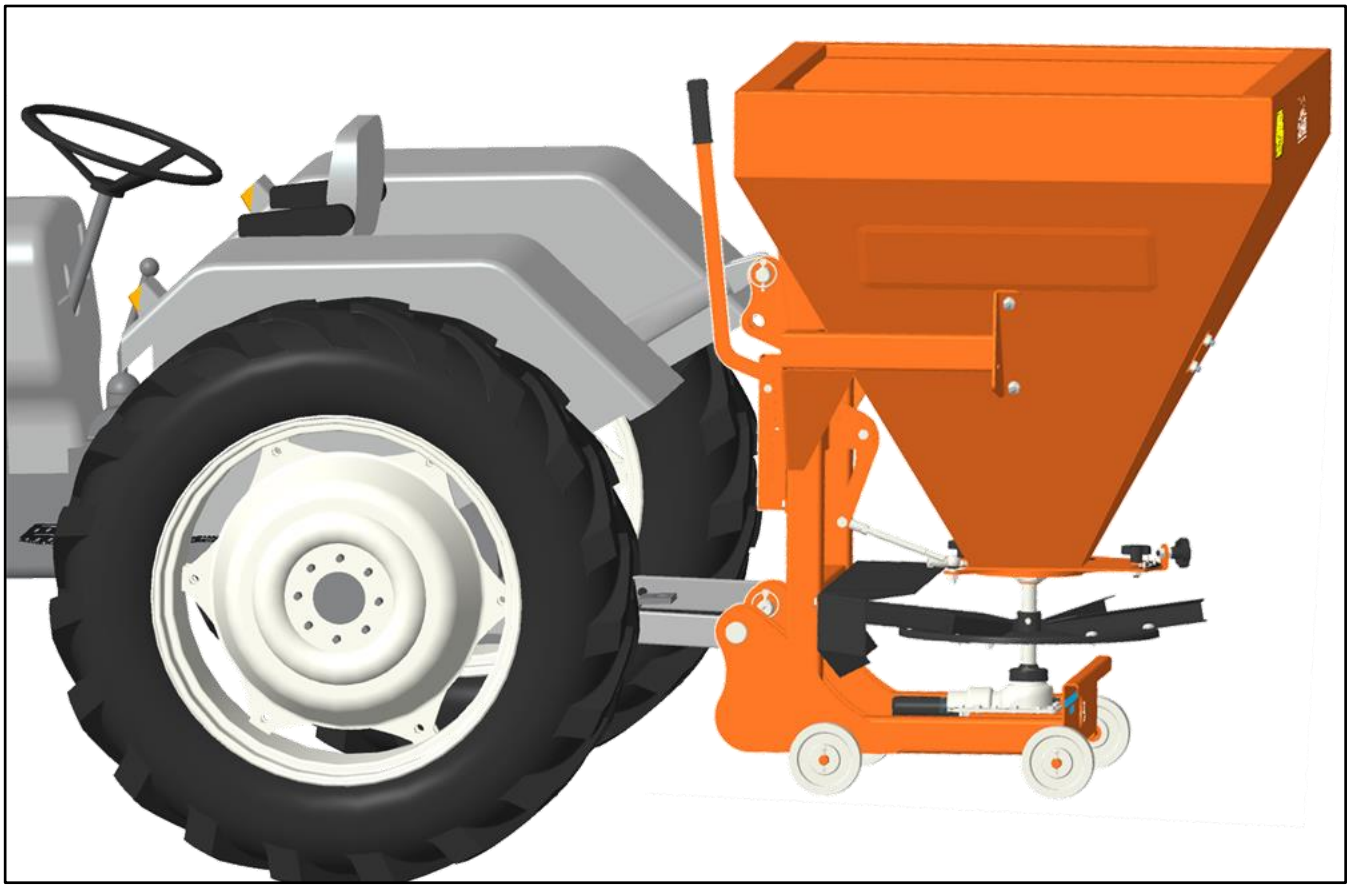
- Select a safe level ground speed when transporting from one area to another. When travelling on roadways, transport in such a way that faster moving vehicles may pass you safely.
- When travelling on rough or hilly terrain, shift tractor to lower speed.

8. OPERATING THE IMPLEMENT

Fertilizer norm setting can go non-gradually up to 150 kg (330 lb) for 1000 m^2 (10,700 sq ft) Fertilizer flow flaps position can be easily made by loosening setting arm. Once you find relevant fertilizer amount from the table do the required setting through position setting arm and fix fertilizer setting arm. While adjusting fertilizer amount open the hydraulic command piston. Otherwise, to do settings will become more difficult.

Adjust the Machine height from the ground in line with the type of the fertilizer you will spread and the working width. While adjusting the height, set the handle taking into consideration the forward and rear slope of your machine as given in the table. After having adjusted the height, lock the tractor's hydraulic lifting system. If your tractor's hydraulic command system does not make a proper and safe locking, and leaks oil back into the tank, double coil system which retrieves back the hydraulic pistons of the fertilizer spreader will open the hydraulic piston and release fertilizer on the ground! Repair tractor's hydraulic command control system.

An even and secure fertilizer spreading operation depends on several parameters. Leading ones can be density of fertilizer that you will broadcast, dimensions of the fertilizer granules, humidity of the fertilizer, tractor tail rotation, tractor speed on the land, wind speed, angle of broadcasting discs, angle of the wings etc.... This is the reason why before initiating the fertilizer spreading all parameters has to be carefully reviewed, all figures in the manual have to be rechecked and it is also needed to be sure that all settings are correct. On windy days, fertilizing have to be avoided.



9. ADJUSTMENTS

9.1 Loading the Hopper

Do not load the hopper over the edge to avoid the loss of fertilizer during the work and travel.

9.2 Fertilizer Flow Control Lever Operation

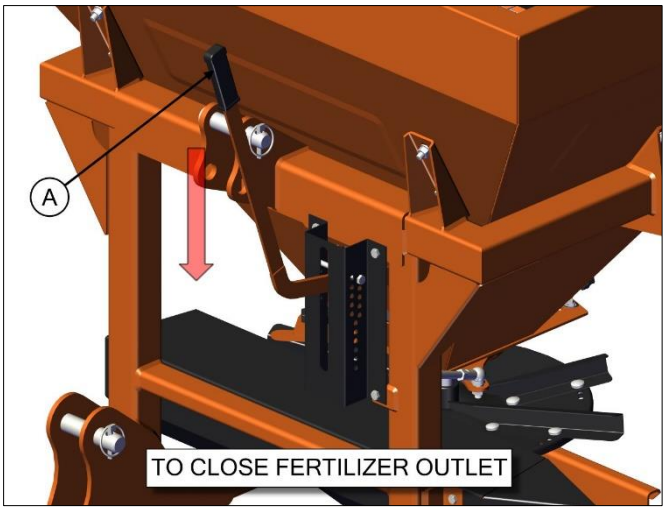
The fertilizer flow is regulated by a control lever mounted on the side of the hopper. The lever adjusts the outlet opening to control the rate of fertilizer discharge onto the spreading disc.

To Open the Fertilizer Outlet:

- Ensure the machine is parked on a level surface.
- Stand on the side of the machine where the lever (A) is located.
- Grip the lever handle firmly.
- Push the lever (A) upward slowly to open flow control plate.
- Once the lever reaches at desired position, lock it with bolt (B) and Nut (C).
- Fertilizer will now begin flowing from the hopper to the spinning disc.

To Close the Fertilizer Outlet:

- Stop moving the machine and wait for the disc to come to a complete stop.
- Grip the lever handle (A).
- Pull the lever downward until it reaches the closed position.
- Ensure the outlet gate is fully closed and no fertilizer is falling onto the disc.



IMPORTANT

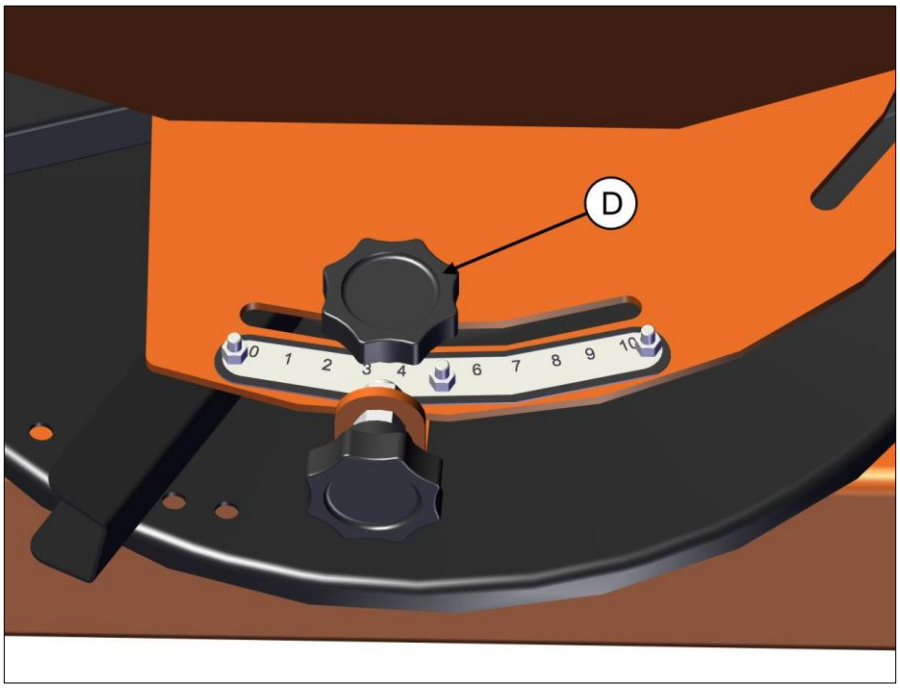
Never adjust the lever while the machine is in motion or the disc is rotating. Always wear gloves and keep hands clear of moving parts.

9.3 Spreading Angle Adjustment

To control the fertilizer application rate, the broadcaster is equipped with an angle calibration plate**.** This allows the operator to adjust the opening size of the outlet gate using the marked positions (1 to 10).

To Adjust the Spreading Angle:

- Stop the machine and ensure all moving parts (especially the disc) have come to a complete stop.
- Locate the knob handle (D) on the flow control plate (as shown in the illustration).
- Loosen the knob by rotating it counterclockwise.
- Slide the flow control plate to align the pointer with the desired angle marking (1 to 10) on the aluminum scale.
  Lower angle = less flow (lower seed/fertilizer rate)
  Higher angle = more flow (higher seed/fertilizer rate)
- Once the desired angle is set, tighten the knob (D) by rotating it clockwise to lock the position.
- Ensure the plate is firmly secured before resuming operation.



WARNING

Never attempt to adjust the angle while the disc is rotating. Always wear gloves and keep hands away from sharp edges and moving parts.

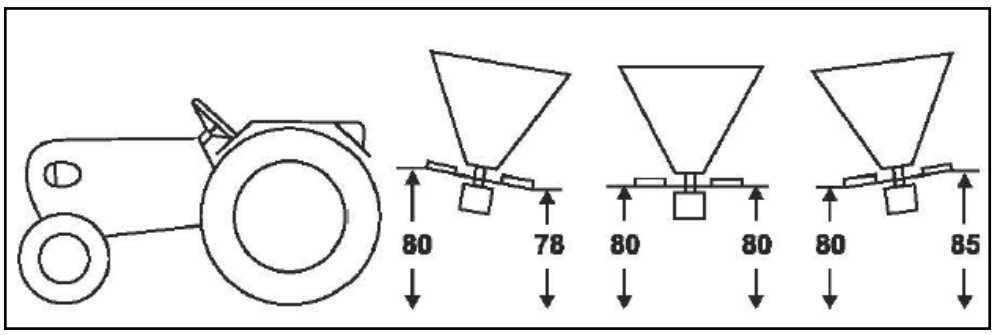
Calibration Chart

Use the chart below to determine the correct angle and speed setting for specific fertilizers and desired seed norms.

Seed norm ratio (kg. /hectare) for deferent options and running						
Speeds of the fertilizer machine with different disc						
Tractor PTO : 540d/d				Triple super phosphate width : 14 m (46 ft)		
Disk height from floor : 70 cm (27.5 in)				Urea width : 14 m (46 ft)		
	TRIPLE SUPER PHOSPHATE			**UREA**		
SPEED	6	7	8	6	7	8
Angle	**Calibration**					
1	18.82	16.14	14.12	21.24	18.2	15.93
2	105.7	90.59	79.27	119.24	102.2	89.43
3	210.6	180.6	157.98	237.64	203.7	178.2
4	330.4	283.2	247.79	372.74	319.5	279.6
5	420.9	360.8	315.66	474.83	407	356.1
6	516.1	442.4	387.07	582.26	499.1	436.7
7	577.5	495	433.13	651.55	558.5	488.7
8	619.1	530.6	464.31	698.45	598.7	523.8
9	632.7	542.3	474.52	713.81	611.8	535.4
10	634.3	543.7	475.71	715.6	613.4	536.7

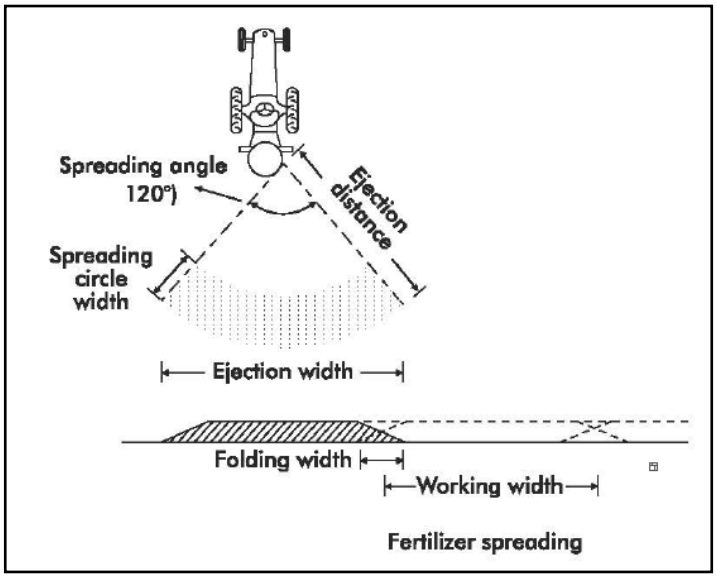
Fertilizer Ejection Angles

When discs get higher from the ground and the machine rear is kept higher with respect to the ground, ejection angle gets larger. This case is adjusted according to the type of fertilizer: powdery, granular or crystal. For powdery fertilizers, ejection is carried out with the rear of the machine leaning to the ground.



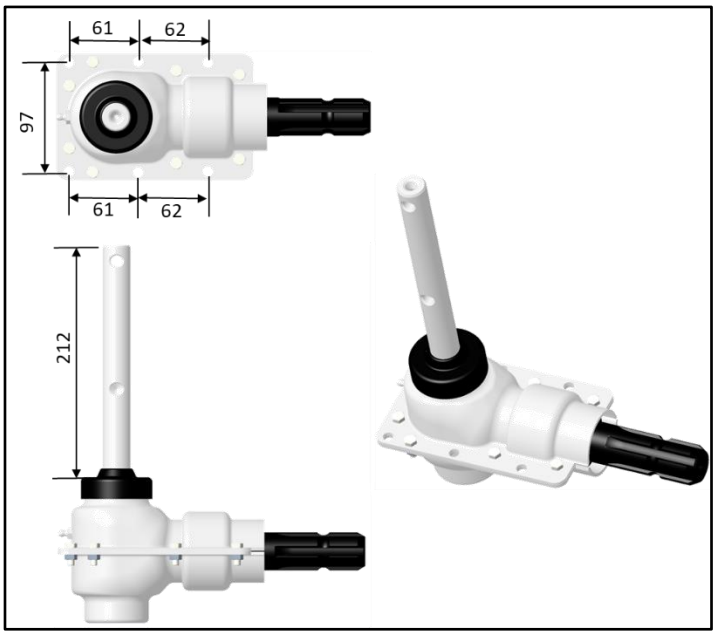
MAXIMUM FERTILIZER EJECTION DISTANCE

- Discs speed at the periphery,
- Discs height from the ground,
- Discs position with respect to the ground,
- Wings status,
- Fertilizer type and structure,
- Wind.



TYPE OF GEARBOX

- Weight: 6 kg (13 lb)
- Grease: 0.3 Kg S.GEM RR 3
- Gear Ratio: 1:1



10. LUBRICATION AND MAINTENANCE

10.1 Safe Lubrication and Maintenance of the Machine

CAUTION: To avoid serious injuries or death from unexpected machine movement, locate the machine on a level surface before performing any maintenance work. Lower the machine to the ground or support the raised machine with adequate blocks before performing any maintenance work. If the machine is connected to the tractor, apply the park brake and/or place the transmission in PARK, shut off the engine and remove the key. If the machine is detached from the tractor, block the wheels and use shop stands to prevent rolling

10.2 Lubrication and Maintenance Procedures

CAUTION: Do not clean, lubricate or adjust the machine while it is moving.

IMPORTANT: The recommended maintenance intervals are based on normal operating conditions; in severe or unusual conditions it may be necessary to lubricate more frequently.

Clean the grease fittings before using a grease gun. Replace any missing or damaged grease fittings immediately. Proper lubrication of the Machine pointed out in this manual, using the grease and/or oil recommended will prolong the service life of your machine. Failure to perform the above may result in failures as well as loss of time and money.

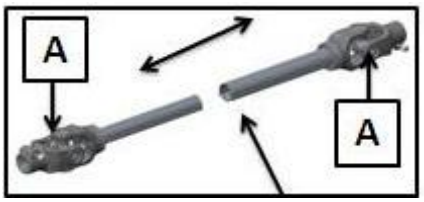
10.3 Lubrication & Maintenance in Implement

Sr. No.	ACTIVITIES	EVERY 8 WORKING HOURS	EVERY 20 WORKING HOURS	EVERY 40 WORKING HOURS	EVERY 200 WORKING HOURS
1	Check & tight all bolts & nuts of vanes	✓			
2	Grease all crosses of drive shafts; shear bolt yoke & ensure the grease is coming out of all four cups.	✓			
3	Clean the both propeller & grease shaft. Grease both tubes & fit them by matching appropriate slot.	✓			
4	Grease the gearbox with Lithium base grease*		✓		
5	Change the grease of gear box and fill the gear box with Lithium base grease*				✓

Note: Do not overfill, Seal damage can occur. There is no purge hole in gear box! oil level can be checked by removing oil nipple.

10.4 Propeller Shaft

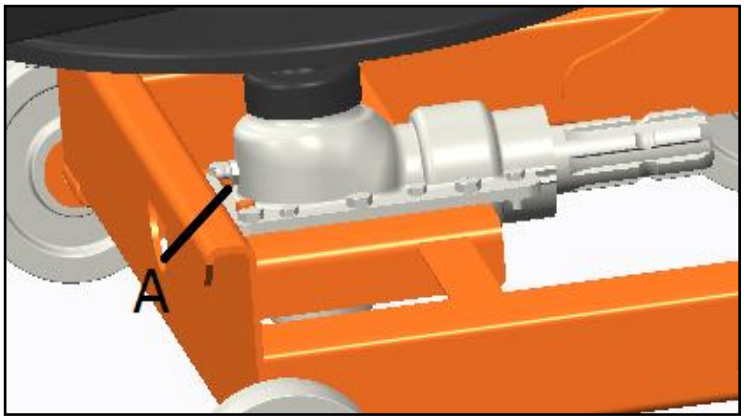
Disconnect the drive shaft from the tractor and slide apart.



Clean and coat the inner tube of the drive shaft with a light film of grease on daily basis or every 8 hours of work and then reassemble.
Clean the greasing nipple (A) of the cross and shear bolt yoke from mud of other residuals before using them for inject lubricating grease. Lubricate with Lithium base grease as shown in the picture.

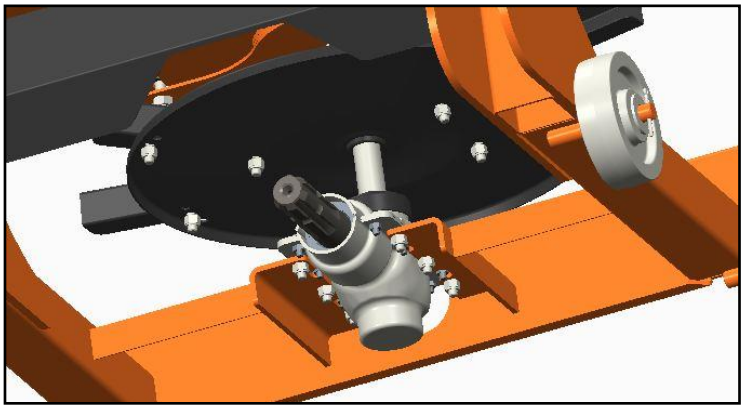
10.5 Gear Box

Clean the greasing nipple (A) of the gearbox from mud of other residuals before using them for injects lubricating grease. Lubricate with Lithium base grease as shown in the picture.



10.6 Replacing the spreading vanes

The spreading vanes are made of especially wear resistant material. Nevertheless, we remind you that the spreading vanes are wear parts. Replace the spreading vanes as soon as holes from abrasion or damage are visible.



Note: It is essential to ensure that the spreading vanes are installed correctly. The open side of the U shape spreading vane must be facing the direction of rotation.

Follow the steps mentioned below:

- Unscrew the nut and replace with new vane
- The fixing items (nuts and bolts) must be of same type of those prescribed by the manufacturer.
- Tighten the nut with a tool at proper torque.

10.7 STORAGE

General

- Put the machine on the ground
- Take off PTO drive shaft and put it in rest position.
- Carefully check for any damaged or worm parts and replace these as necessary.
- Store it in a dry place.
- Carefully compliance with these instructions will be all the advantage of the user who will be sure to use perfect conditions when work begins again.

Off-Season Storage

- At the end of working season or when the machine will not be used for a long period, it is good practice to empty the hopper as fertilizers are generally corrosive,
- Clean off any dirt or grease that may have accumulated on any of the parts.
- Wash the implement, and then thoroughly dry it.
- Inspect the machine for loose, damaged or worn parts and adjust or replace if needed.
- Repaint parts where paint is removed or scratched to prevent rust.
- Cover the machine with a plastic sheet and store in a clean, dry place.

10.8 TORQUE VALUES TABLE

Check frequently square fertilizer broadcaster 400/500 hardware to make sure that screws and bolts are tightened according to torque values listed in following table:

	8.8 GRADE		10.9 GRADE		12.9 GRADE	
BOLT SIZE (METRIC)	Nm	ft lb	Nm	ft lb	Nm	ft lb
M6	11	8	15	11	15	11
M8	26	19	36	26	40	29
M10	52	38	72	53	81	51
M12	91	67	125	92	143	105
M14	145	106	200	147	218	160
M16	225	165	315	232	357	263
M18	310	228	405	298	478	352
M20	440	324	610	449	701	517

11. TROUBLE SHOOTING

PROBLEM	CAUSE	REMEADY
1. Adjusted or required fertilizer quantity cannot be broadcasted.	• Tractor speed may be different as required. • Land may not be flat. • Tractor hydraulic arms to where the machine is mounted may not be at the same height.	• If less fertilizer is broadcast, then it requires to slowdown, whereas more fertilizer is broadcast, then it requires to speed up. • Re-adjust.
2. Fertilizer is ejected to both sides unevenly	• Fertilizer Flow flaps may not open evenly.	• In this case the length of shaft attached to lower ball may be changed, after having checked the flaps at the open or closed positions.
3. Hydraulic command system does not follow commands.	• Tractor oil pressures may be lower. • Hydraulic may be closed.	• Set the pressure. • Open the valve.
4. Hydraulic command system is activated at the shut off position.	• Repair tractor hydraulic. • Change coils.	• Repair tractor hydraulic • Change coils.
5. Fertilizer cannot reach required working width	• Tail may be working more than 540 rpm for example, at 1000 rpm or at lower rpm.	• Run at 540 rpm.

12. WARRANTY

Direct Distributors Inc. offer the following warranty to the purchaser of Grizzly® equipment mentioned herein above subject to the conditions set out herein after provided the Grizzly® equipment shall be in the possession of and used by such purchaser from the date of delivery.

Direct Distributors Inc. Warrants its products for a period of twelve (12) months from date of delivery, for manufacturing or material defects only. Failed part will be replaced at its authorized dealers only and any part component there of that shall be examined by them, shall disclose if to be defective. This warranty shall not apply to equipment or parts that have been subject to negligence, or accident, or not maintained as per company instructions specified in operator manual or that have been altered or repaired or used with non-genuine parts or abused or due to contaminated oil or used in not recommended application.

Warranty Terms & Conditions:

1) The purchaser of Grizzly® equipment should strictly follow the instruction given in the instruction manual provided by the company along with the Grizzly® equipment at the time of delivery. Changes if any, resulting in improper usage will not be covered by the warranty. This warranty will automatically terminate on the expiry of warranty period of Six months even the Grizzly® equipment may not be in use for any time during the warranty period for any reason whatsoever including any technical reasons and time taken for such repairs/replacement of parts, and in transit, whether under this warranty or otherwise shall not be excluded from the warranty period.
2) All wear and tear items like bearings, chains, sprockets, oil seals, tines, blades, rubber parts and gaskets are not covered under warranty.
3) All items with normal wear or failure due to normal wear will not be covered under warranty.
4) While the company or authorized dealers will make every effort to carry out repairs/replacement of parts under this warranty as soon as possible. It is expressly made clear that the company shall not be liable to do within any specific period of time.
   In the event of repairs/replacement of any parts, this warranty will thereafter continue to remain in force only for the unexpired period of warranty.
5) It is entirely left to company discretion to repair/replacement of parts at the site of delivery or at the authorized service points of its dealers. The defective parts which has/have been agreed to be replaced, should be returned to the company without any further claim.
6) The warranty shall not cover any consequential or resulting liability, damage or loss arising directly or indirectly out of any defect in the Grizzly® equipment. This warranty shall be strictly limited to repairs and replacement of the defective parts specified in the warranty, and
   does not cover any reimbursement of labor charges for any repairs so earned out at dealer/client end.
7) This warranty shall not be extended in any case of replacement or return of the Grizzly® equipment as a whole. Only failed parts will be covered under warranty.
8) The purchasers of Grizzly® equipment will itself fully responsible for model/variant selection.
9) This warranty does not cover for statutory duties and taxes like excise, service tax or CST or VAT or State sales tax and octroi and any other local taxes payable on any of the parts which the company may supply or repairs free of cost during the warranty period.
10) This warranty also does not cover the cost of packaging, to and fro freight and transportation charges etc., on the defective Grizzly® equipment or other parts of the Grizzly® equipment sent to company's works in Rajkot or to the authorized service station.
11) Warranty becomes void if:

a) The Grizzly® equipment has not been delivered, assembled, started and put into operation by the company or its authorized representative.
b) The dully filled delivery certificate is not in our possession within 15 days from the date of delivery.
c) The Grizzly® equipment or any parts thereof is subjected to neglect, fire, floods or other acts of God or if in the company's opinion any damage has caused to the Grizzly® equipment during transportation.
d) The original serial number is removed, obliterated or altered from the unit.
e) Any attempt is made to have the repairs executed by a person or persons, other than the company or its authorized representative.
f) Any defect is not informed immediately to the company or its authorized representative, any alteration in warranty card is made.
g) Whenever the user or anyone else on his behalf applies equipment to the tractor or to prime mover that has not been expressly approved by the manufacturer or not suitable to the equipment.

12) a) Any changes in the location of the Grizzly® equipment or in the/its ownership thereof during the warranty period must be intimated in writing to the company or its authorized dealer within ten days before the change. Failure to do so will absolve the company from the obligation under this warranty.

b) Further, in the case of shifting for the continuation of the Warranty, the Grizzly® equipment has to be inspected by the company or its authorized representative before shifting from the original location and before using it at the new location. The inspection free levied by the company or its authorized representative as well as the cost of rectification of any damage in transit, detected in the above inspection, shall be borne by the purchaser/owner, if at the time of restarting, the Grizzly® equipment is found to be in working order, this warranty shall continue to be in force for the remaining period of the warranty.
c) Damage to the Grizzly® equipment or any part thereof caused during shifting or transportation is not covered by this warranty

13) None of the company representative or authorized dealer is authorized to alter/amend any terms and conditions of this warranty policy. Only the management of the company is authorized to do so. The decision of the company will be final and binding to the purchaser.
14) This warranty policy shall be governed by and construed in accordance with the laws of India and the courts in Rajkot shall have exclusive jurisdiction.
15) This warranty is given in lieu of all other guarantees and condition expressed or implied by law or by the any person purporting to act on behalf of the company and excludes every condition, warranty or guarantee not herein expressly set out.

Note: The parts / materials that are not covered by the warranty are as follows:

1) Vanes
2) Universal Joint Cross
3) Paint
4) Bearing
5) Rubber Parts
6) Gaskets
7) Fasteners
8) Fabrication

13. SPARE PARTS

All repairs and replacements on the machine must be performed only by using original spare parts, which must be obtained / provided from the manufacturer or your dealer.
This section contains the information needed to identify the parts of square fertilizer boadcaster 400/500 series that may be ordered to manufacturer.
When request spare parts to manufacturer, always give following indications:

- Type of machine;
- square fertilizer boadcaster 400/500 serial number;
- Description and p/number of the spare parts;
- Quantities.

NOTE
For identification of p/numbers and description of safety decals refer to the Section Safety labels.

For identification of p/numbers and description of PTO driveline parts, refer to the manual of the driveshaft manufacturer.

The Manufacturer reserves the right to substitute a required part with an equivalent part, if applicable.

Distributed by
Direct Distributors, Inc.

Grizzly®
P.O. Box 799
Garner, NC 27529

Tel: 1-800-345-0169
Email: tech@agrisupply.com

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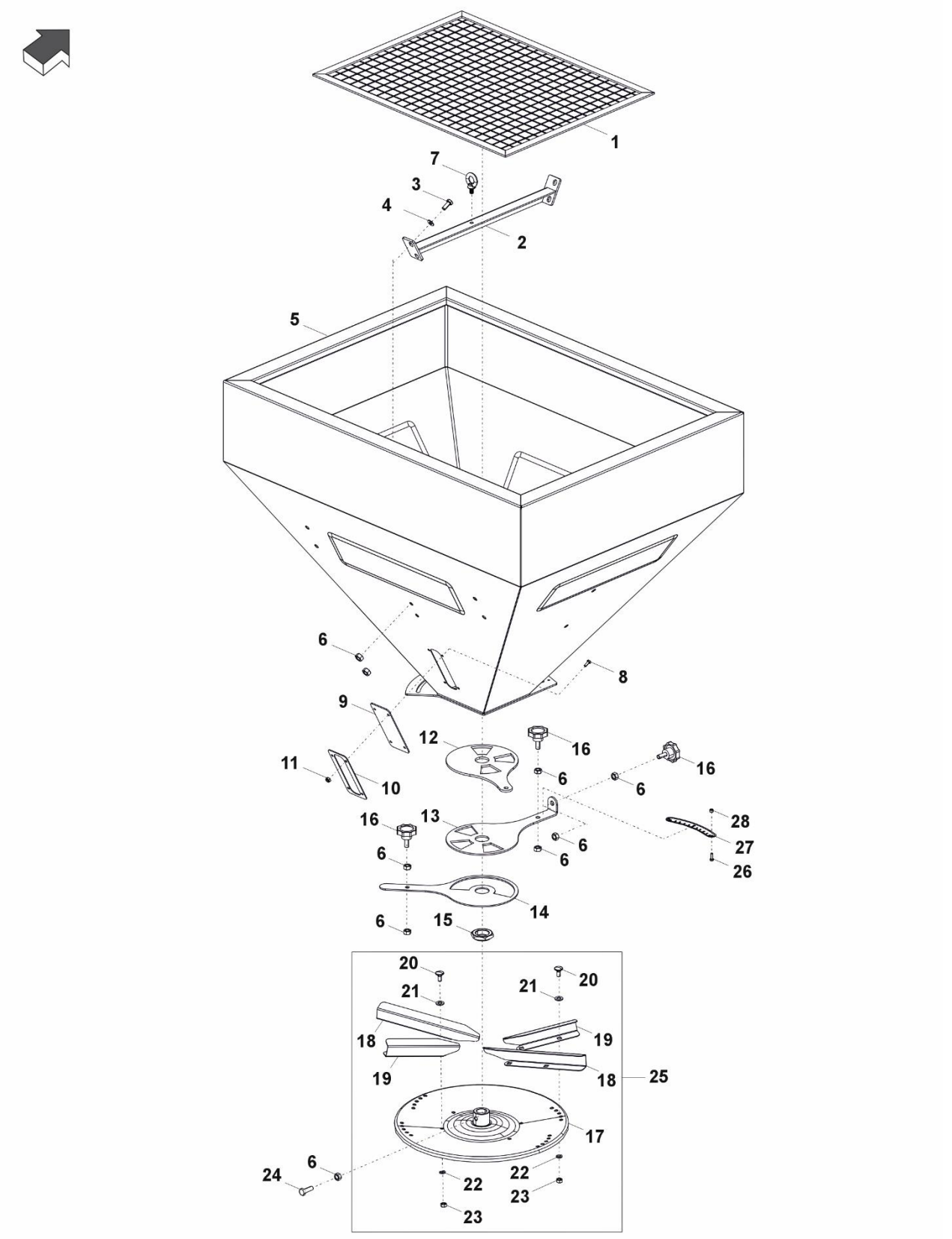
PARTS CATALOGUE

SQUARE FERTILIZER BROADCASTER 400/500

CE

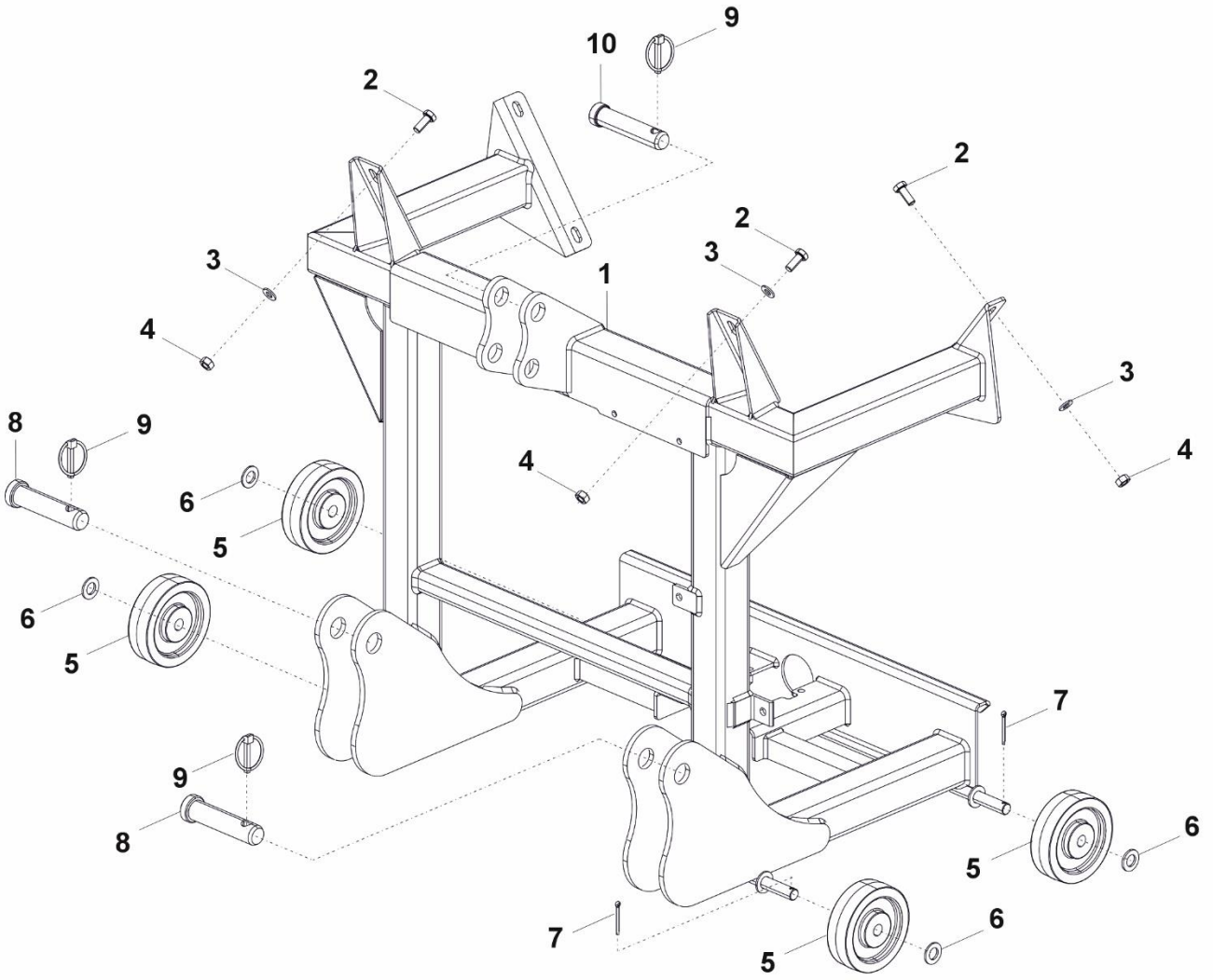
Contents

HOPPER & SPREADER DISC ASSEMBLY



HOPPER & SPREADER DISC ASSEMBLY

Pos.	Part Code	Part Description	Qty.	Remarks
1	15096	NET 600X775 (SSFB 400)	1	
2	15108	HOPPER SUPPORT PLATE COMP (SSFB 400)	1	
3	10180	HEX BOLT M10X1.50X25(IS1364-1) (8.8) (ZP)	4	
4	8078	PLAIN WASHER 10MM (BS-4320)	4	
5	112111024	WELD ASSEMBLY, HOPPER COMP (SSFB 500)	1	APPLICABLE FOR SSFB - 500
	15084	HOPPER COMP (SSFB 400)		APPLICABLE FOR SSFB - 400
6	1299	HEX NUT M10X1.50(IS 1363) (8) (ZP)	15	
7	15099	LIFTING HOOK (SSFB 400)	1	
8	19157	HEX BOLT M6X1.00X16(IS1364-2) (8.8) (ZP)	4	
9	15089	LEVEL GUAGE 185X75X4 (SSFB 400)	1	
10	15100	LEVEL GUAGE GASKET (SSFB 400)	1	
11	30443304	NYLOCK NUT M6X1 (DIN-985) (8) (ZP)	4	
12	15085	FLOW CONTROL PLATE FRONT (SSFB 400)	1	
13	15086	FLOW CONTROL PLATE REAR (SSFB 400)	1	
14	15087	FLOW DIRECTION PLATE (SSFB 400)	1	
15	1449	NYLOCK NUT M35X1.50	1	
16	15088	KNOB HANDLE M10 X 25 (DKS310-25)	3	
17	15081	SPREADER DISC COMP (SSFB 400)	1	
18	15079	DISTRIBUTOR VANE BIG (SSFB 400)	2	
19	15080	DISTRIBUTOR VANE SMALL (SSFB 400)	2	
20	18051	RD HD SQNECK BOLT M8X1.25X20DIN603-8.8ZP	8	
21	15145	PLAIN WASHER (20 X 11.50 X 2) (SSFB)	8	
22	1303	SPRING WASHER M8.00(IS 3063)	8	
23	8181	HEX NUT M8X1.25(IS 1363) (8) (ZP)	8	
24	10181	HEX BOLT M10X1.50X30(IS1364-1) (8.8) (ZP)	1	
25	15101	SPREADER DISC ASSEMBLY (SSFB 400)	1	
26	21758	HEX BOLT M5X0.80X15(IS1364-2) (8.8) (ZP)	3	
27	11200771	FLOW CONTROL PLATE (SSFB)	1	
28	21380	HEX NUT M5X0.80(IS 1363) (8) (ZP)	3	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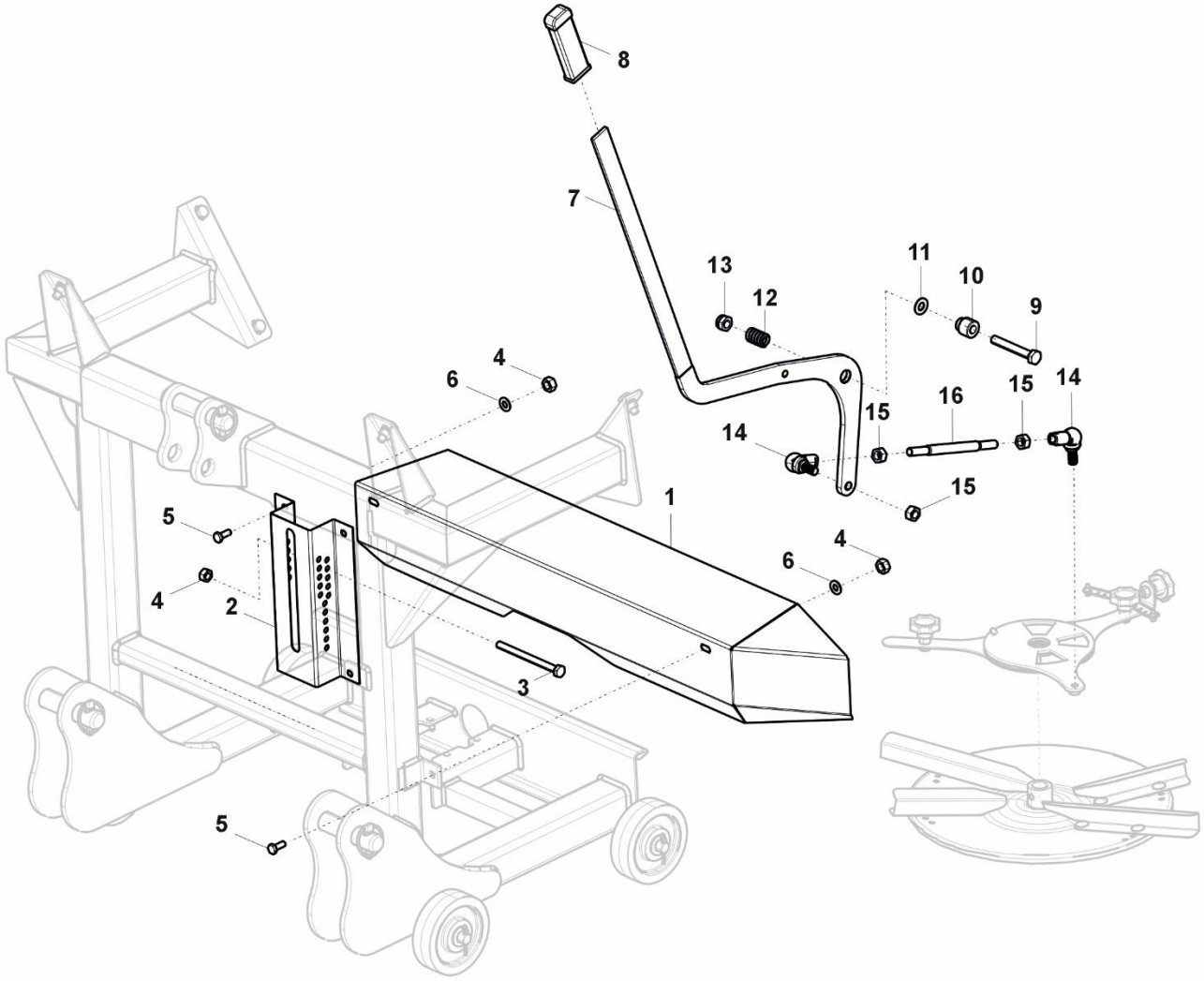
FRAME ASSEMBLY

Pos.	Part Code	Part Description	Qty.	Remarks
1	15078	FRAME COMP. (SSFB 400)	1	
2	10180	HEX BOLT M10X1.50X25(IS1364-1) (8.8) (ZP)	8	
3	8078	PLAIN WASHER 10MM (BS-4320)	8	
4	1299	HEX NUT M10X1.50(IS 1363) (8) (ZP)	8	
5	15083	WHEEL 5" (SSFB 400)	4	
6	1078	PLAIN WASHER 16MM (BS-4320)	8	
7	19018	COTTER PIN (DIA 4 X 35)	4	
8	1217	HITCH PIN BOTTOM CAT-II (DIA-28 X 129)	2	
9	1218	LINCH PIN	3	
10	1215	HINCH PIN TOP CAT-II (DIA- 25 X 126)	1	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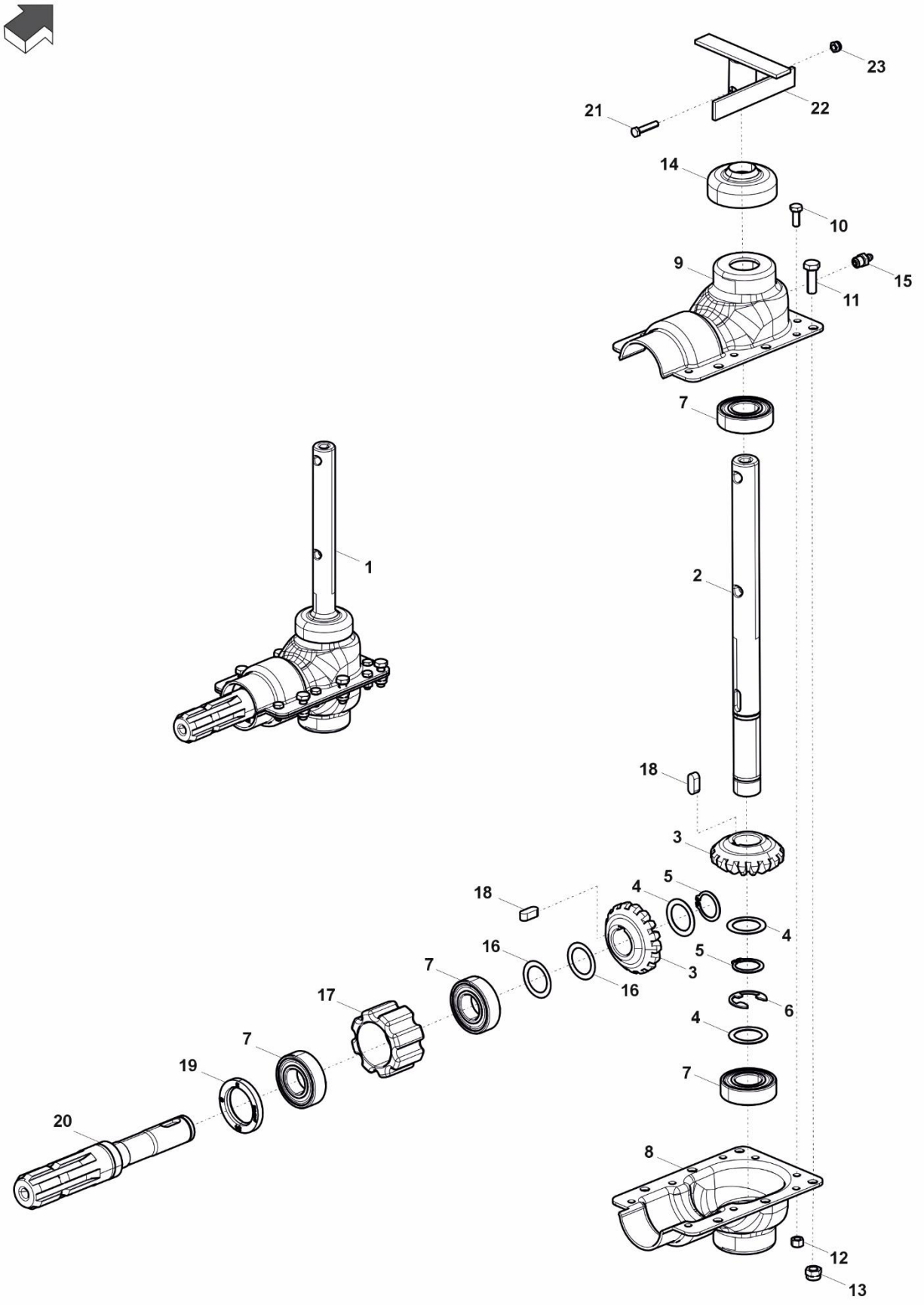
SHEET & LEVER ASSEMBLY

Pos.	Part Code	Part Description	Qty.	Remarks
1	15091	SHEET CASE (SSFB 400)	1	
2	15113	LEAVER ADJUST PLATE (SSFB 400) NEW	1	
3	21208	HEX BOLT M8X1.25X100(IS1364-1) (8.8) (ZP)	1	
4	8181	HEX NUT M8X1.25(IS 1363) (8) (ZP)	6	
5	8040	HEX BOLT M8X1.25X20(IS1364-2) (8.8) (ZP)	5	
6	8064	PLAIN WASHER 8MM (BS-4320)	5	
7	15093	HANDLE COMP (SSFB 400)	1	
8	15043	RUBBER GRIP (SFB)	1	
9	12091	HEX BOLT M10X1.50X70(IS1364-1) (8.8) (ZP)	1	
10	15094	HANDLE BUSH (SSFB 400)	1	
11	8078	PLAIN WASHER 10MM (BS-4320)	1	
12	15095	SPRING 17.50X3.50X27 (SSFB 400)	1	
13	1298	NYLOCK NUT M10X1.50 (DIN-982) (8) (ZP)	1	
14	15097	ANGLE BALL JOINT M10X1.50 (SSFB 400)	2	
15	1299	HEX NUT M10X1.50(IS 1363) (8) (ZP)	3	
16	15098	STUD M10X1.50X160 (SSFB 400)	1	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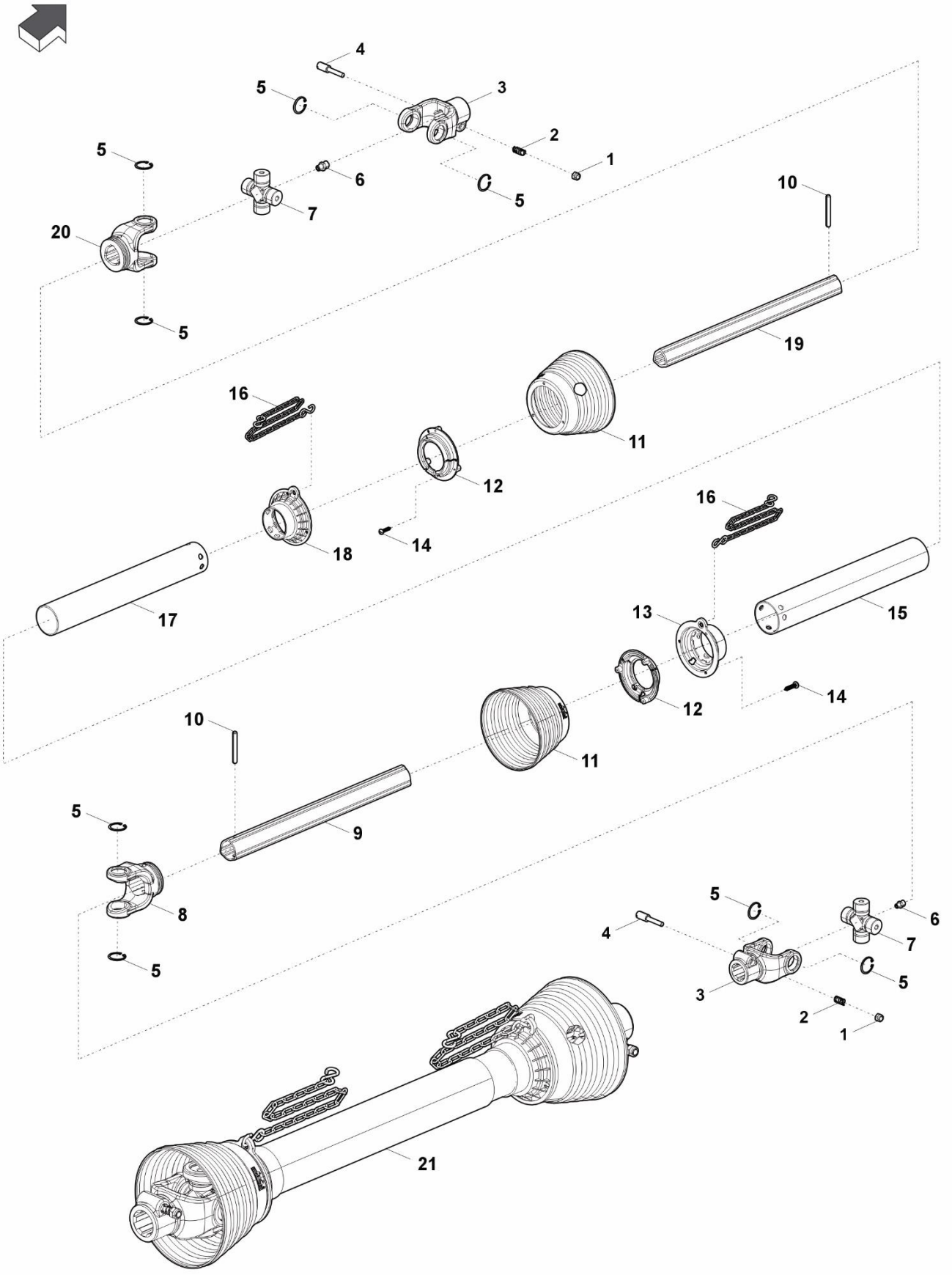
GEAR BOX ASSEMBLY

Pos.	Part Code	Part Description	Qty.	Remarks
1	15102	GEAR BOX ASSEMBLY (SSFB 400)	1	
2	15082	OUTPUT SHAFT (SSFB 400)	1	
3	15030	CROWN 17 TEETH (SFB)	2	
4	18062	RO SHIMS MS 36 X 25.8 X 1	4	
5	11541	CIRCLIP EXTERNAL 25MM (DIN 471)	2	
6	15053	E-CLIP Ø19XØ37X1.75	1	
7	8105	BEARING 6205 2RS	4	
8	15047	LOWER SHELL COVER (SFB)	1	
9	15045	UPPER SHELL COVER (SFB)	1	
10	19157	HEX BOLT M6X1.00X16(IS1364-2) (8.8) (ZP)	8	
11	8171	HEX BOLT M8X1.25X25(IS1364-2) (8.8) (ZP)	6	
12	12082	HEX NUT M6X1.00(IS 1363) (8) (ZP)	8	
13	1297	NYLOCK NUT M8X1.25 (DIN-982) (8) (ZP)	6	
14	15035	GEAR BOX PLASTIC CAP (SFB)	1	
15	1253	1/8 BSP GREASE NIPPLE 7.5MM	1	
16	18412	RO SHIMS MS 36 X 25.8 X 0.2	2	
17	15046	GEAR BOX SPACER OD Ø64.0X35.5 (SFB)	1	
18	18347	KEY 8 X 7 X 20	2	
19	15054	OIL SEAL 35 X 52 X 7	1	
20	15032	INPUT SHAFT(SFB)	1	
21	8288	HEX BOLT M10X1.50X50(IS1364-1) (8.8) (ZP)	1	
22	15090	AGITATOR COMP (SSFB 400)	1	
23	1298	NYLOCK NUT M10X1.50 (DIN-982) (8) (ZP)	1	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Pos.	Part Code	Part Description	Qty.	Remarks
1	1297	NYLOCK NUT M8X1.25 (DIN-982) (8) (ZP)	2	
2	1258	PUSH PIN SPRING SMALL	2	
3	10066	SINGLE PIN YOKE (MINI)	2	
4	1257	PUSH PIN SMALL	2	
5	1242	CIRCLIP INTERNAL 30MM	8	
6	1241	CONICAL HEAD GREASE NIPPLE M8 X 1	2	
7	10065	CROSS (MINI)	2	
8	10182	OUTER TUBE YOKE (MINI)	1	
9	15105	OUTER TUBE 470MM (SSFB)	1	
10	10068	DOWEL PIN DIA 8 X 65	2	
11	10243	JOINT COVER CONE (MINI)	2	
12	10246	RETAINER COLLER (MINI)	2	
13	10244	OUTER PIPE COVER CAP (MINI)	1	
14	18358	SLOTTED HEAD SCREW M4 X 0.7 X20	6	
15	15106	PTO COVER PLA. PIPE DIA 66 X 61 X 402.5	1	
16	1320	PTO CHAIN	2	
17	15107	PTO COVER PLA. PIPE DIA 60 X 55 X 402.5	1	
18	10245	INNER PIPE COVER CAP (MINI)	1	
19	15104	INNER TUBE 470MM (SSFB)	1	
20	10069	INNER TUBE YOKE (MINI)	1	
21	15103	PTO 470MM COMP (SSFB)	1	

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