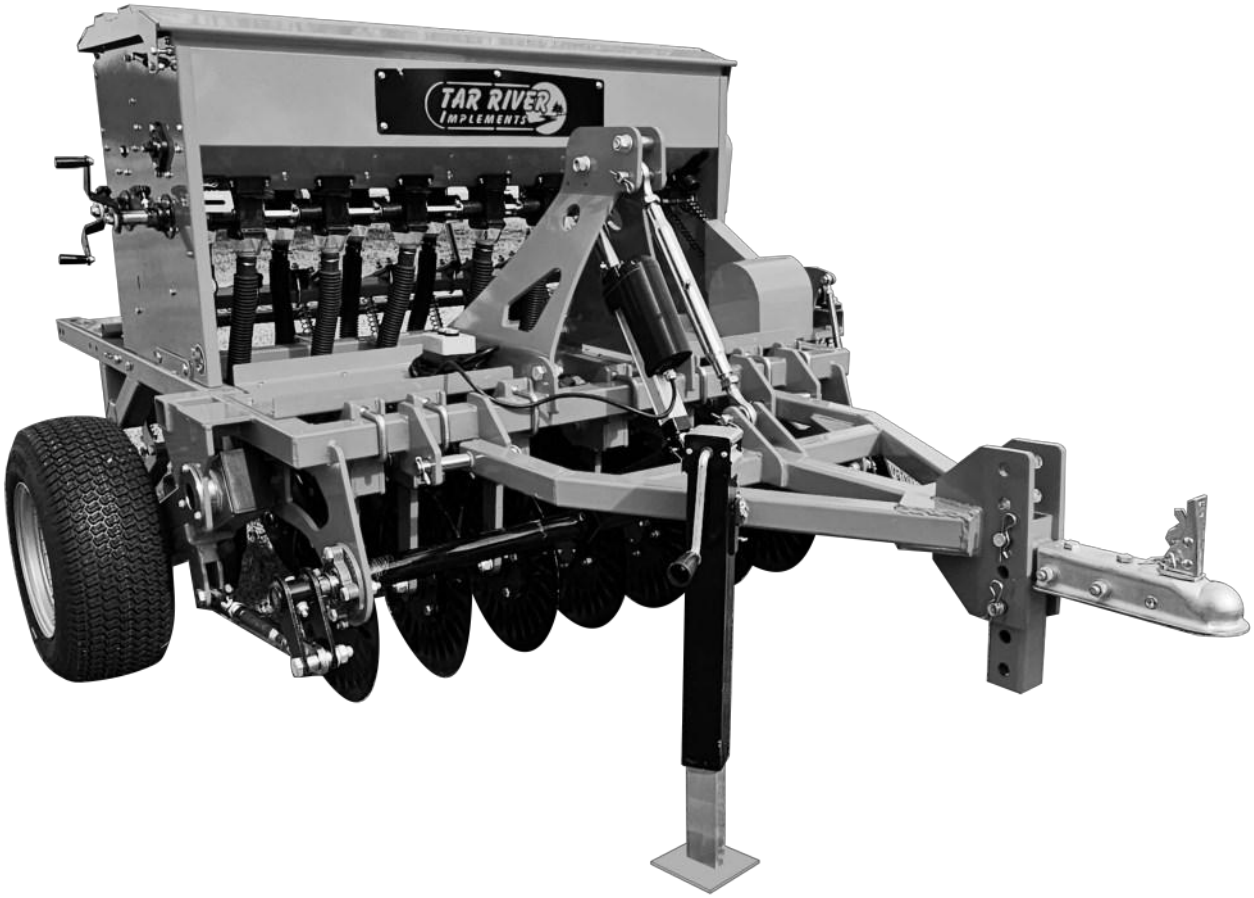
# Pull Type No -Till Drill

## SAYA-PT505, PT507, PT907




# Operator's Manual

Rel. 09/26

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**TO THE DEALER:**

Assembly and proper installation of this product is the responsibility of the Tar River dealer. Read manual instructions and safety rules. Make sure all items on the Dealer's Pre-Delivery and Delivery Check Lists in the Owner's/Operator's Manual are completed before releasing equipment to the owner.

**TO THE OWNER:**

Read this manual before operating your Tar River equipment. The information presented will prepare you to do a better and safer job. Keep this manual handy for ready reference. Require all operators to read this manual carefully and become acquainted with all the adjustment and operating procedures before attempting to operate. Replacement manuals can be obtained from your selling dealer. The equipment you have purchased has been carefully engineered and manufactured to provide dependable and satisfactory use. Like all mechanical products, it will require cleaning and upkeep. Lubricate the machine as specified. Observe all safety information in this manual and safety decals on the equipment. For service, your authorized Tar River dealer has trained mechanics, genuine Tar River service parts, and the necessary tools and equipment to handle all your needs. Use only genuine Tar River service parts. Substitute parts will void the warranty and may not meet standards required for safe and satisfactory operation.

Record your machine model and serial number in the space provide below. Your dealer will need this information to give you prompt, efficient service.

**Model Number: _____**

**Serial Number: _____**

**Date Purchased: _____**

# TO THE DEALER: Part 1 of 2

Assembly and proper installation of this product is the responsibility of the Belco Resources Dealer. Read manual instructions and safety rules. Make sure all items on the Dealer's Pre-Delivery List and Owners Check List in the Owner's/Operator's Manual are completed before releasing equipment to the owner.



**NOTE: The machine must by inspected thoroughly by the dealer prior to delivery of machine to owner. Place a check mark in the box beside each item checked. Contact Belco Recourses Equipment of any damages, issues or shortages to the machine.**

## Pre-Delivery Checklist - Dealer

- ☐ **Gearbox oil level**
- ☐ **Check all fluids, hydraulic, gear oil, etc.**
- ☐ **Grease fittings properly lubricated**
- ☐ **Guards, shields, attachments securely fastened**
- ☐ **All hardware tightened**
- ☐ **Condition and tension of V-belts (if applicable)**
- ☐ **Blades properly installed, blade hardware tightened to proper torque specifications**
- ☐ **PTO attached to the machine (if applicable)**
- ☐ **All decals are clean, legible and in proper location**
- ☐ **Operator's Manual on machine**

**Model #:** _____ **Serial #:** _____

**Inspected by (Initials):** _____ **Date:** _____

# TO THE DEALER: Part 2 of 2

Dealer is to review the following items to the owner. Place a check mark in the box beside each item reviewed.

## Checklist - Owner

- ☐ **Correct attachment of machine to tractor**
- ☐ **Safe operation of the machine**
- ☐ **Importance of regular lubrication, maintenance and inspection**
- ☐ **Troubleshooting**
- ☐ **Replacing broken or worn parts (importance of using only OEM parts)**
- ☐ **Servicing the machine**
- ☐ **Storage**
- ☐ **Warranty**
- ☐ **Encourage owner to read and understand the Operator's Manual before operating the machine**
- ☐ **Encourage owner to fill out the "Warranty Registration", online warranty@br-equipment.com**

| | | | |
|---|---|---|---|
| **Purchase Date:** | _____ | **Delivery Date:** | _____ |
| **Model #:** | _____ | **Serial #:** | _____ |
| **Dealer Signature** | _____ | **Date:** | _____ |
| **Customer Signature** | _____ | **Date:** | _____ |

## TO THE OWNER:

Read this manual before operating your Belco Resources equipment. The information presented will prepare you to do a better and safer job. Keep this manual handy for ready reference. Require all operators to read this manual carefully and become acquainted with all the adjustment and operating procedures before attempting to operate. Replacement manuals can be obtained from your selling dealer. The equipment you have purchased has been carefully engineered and manufactured to provide dependable and satisfactory use. Like all mechanical products, it will require cleaning and upkeep. Lubricate the machine as specified. Observe all safety information in this manual and safety decals on the equipment. For service, your authorized Belco Resources dealer has trained mechanics, genuine Belco Resources service parts, and the necessary tools and equipment to handle all your needs. Use only genuine Belco Resources service parts. Substitute parts will void the warranty and may not meet standards required for safe and satisfactory operation.

# Table of Contents

Introduction …….. 7

Technical Specifications …….. 7

Safety …… 8

Safety Signal Words ……. 8

General Safety Guidelines …… 9

Safety Decal Care ……. 9

Before Operation …….. 10

During Operation …….. 11

Highway And Transport Operations …… 12-13

Operating Instructions……... 14-22

Lubrication and Maintenance ……... 23-24

Setting Application Rates…….. ……... 25

Application Rate Chart……. 26-27

Torque Specifications …….. 28

Parts Breakdown …….. 29-70

Warranty ……... 71

# Introduction

Thank you for purchasing your SAYA Pull Type No-Till Drill. The SAYA Pull-Type No-Till Drills are ideal for food plots, cover crops, pastures, and conservation seedings when using an RTV, UTV, or smaller tractor. Designed for easy operation and dependable performance, they provide accurate seed placement and excellent germination.

The **PT505** features an electric actuator for quick transition between working and transport positions. An optional Hydraulic Lift Kit is available for the **PT505**. Both the **PT507** and **PT907** models come standard with a hydraulic synchronized cylinder lift system. The SAYA Pull Type utilizes double-disc openers and ground cutting coulters for improved penetration in tougher field conditions.

Heavy-duty spring-loaded press wheels ensure excellent seed-to-soil contact for fast, uniform germination. Built for durability and precision, the SAYA Pull-Type Drill lineup delivers professional seeding results in a compact, easy-to-pull package.

## Technical Specifications

7.5” Spacing

Spring-Loaded Coulter discs

Spring-Loaded Double Disc Opener with Cast Iron Hubs

Cast Iron Swept-back Disc carriers

Disc Scrapers

Divided Stainless Steel Hopper

Press Wheels Standard

***Optional Hydraulic Lift Kit for the PT505, Part # SAYA-PT00**

| Model | SAYA-PT505 | SAYA-PT507 | SAYA-PT907 |
|---|---|---|---|
| **Working Width** | 55” | 75” | 75” |
| **Working Depth** | 3/4”-2” | 3/4”-2” | 3/4”-2” |
| **Min. HP Required** | 18 | 40 | 45 |
| **Front Cups/Rear Cups** | 7 | 10 | 10 |
| **Spacing** | 7.5” | 7.5” | 7.5” |
| **Double Disc Openers** | 7 Sets | 10 Sets | 10 Sets |
| **Weight** | 1,532 lbs. | 2,2006 lbs. | 2,116 lbs. |
| **Tire size** | 23x8.50-12 | 23x8.50-12 | 23x8.50-12 |
| **Front Hopper Capacity** | 4.0 cu ft | 5.5 cu ft | 4.5 cu ft |
| **Rear Hopper Capacity** | 3.0 cu ft | 4.5 cu ft | 3.8 cu ft |
| **Mid Hopper Capacity PT907 Only** | NA | NA | 4.5 cu ft |

# Important Safety Information

## Safety

It is important that you read the entire manual and to become familiar with this product before you begin using it. This product is designed for certain applications only. The manufacturer cannot be responsible for issues arising from modification. We strongly recommend this product not be modified and /or used for any application other than that for which it is designed. If you have any questions relative to a particular application, DO NOT use the product until you have first contacted us to determine if it can or should be performed on the product.

Read and understand this manual and all safety signs before operating and maintaining . Review the safety instructions and precautions annually.

## Safety Signal Words

**TAKE NOTE! This safety alert symbol found though out this manual is used to call you attention to instructions involving you personal safety and the safety of others. Failure to follow these instructions can result in injury or death.**



**This symbol means:**
**Attention!**
**Become alert!**
**Your safety is involved!**

Note the use of the signal words, DANGER, WARNING and CAUTION with the safety messages. The appropriate signal word for each has been selected using the following guidelines:



DANGER: Indicates an imminently hazardous situation that, if not avoided, will result in death or serious injury. This signal word is to be limited to the most extreme situations typically for machine components which, for functional purposes, cannot be guarded.



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 Safety Information

## General Safety Guidelines

Safety of the operator is one of the main concerns in designing and developing a new piece of equipment. Designers and manufacturers build in as many safety features as possible. However, every year many accidents occur which could have been avoided by a few seconds of thought and a more careful approach to handling equipment. You, the operator, can avoid many accidents by observing the following precautions in this section. To avoid personal injury, study the following precautions and insist those working with you, or for you, follow them.

Replace any DANGER, WARNING, CAUTION or instruction safety decal that is not readable or is missing. Location of such decals are indicated in this manual. Do not attempt to operate this equipment under the influence of drugs or alcohol.

Review the safety instructions with all users annually.

This equipment is dangerous to children and persons unfamiliar with its operation. The operator should be a responsible adult familiar with farm machinery and trained in this equipment's operations. **Do not allow persons to operate or assemble this machine until they have read this manual and have developed a thorough understanding of the safety precautions and of how it works.**

To prevent injury of death, use a tractor equipped with a Roll Over Protection System (ROPS). Do not paint over, remove or deface any signs or warning decals on your equipment. Observe all safety signs and practice the instructions on them.

Never exceed the limits of a piece of machinery. If its ability to do a job, or to do so safely, is in question - **Don't try it!**



## Safety Decal Care

- Keep safety signs clean and legible at all times.
- Replace safety signs that are missing or have become illegible.
- Replaced parts that displayed a safety sign should also display the current safety sign
- Safety signs are available from your Distributor or Dealer Parts Department or the factory.

# Important Safety Information

## How to install Safety Signs:

- Be sure that the installation area is clean and dry.
- Decide on the exact position before you remove the backing paper.
- Remove the smallest portion of the split backing paper.
- Align the decal over the specified area and carefully press the small portion with the exposed sticky backing in place.
- Slowly peel back the remaining paper and carefully smooth the remaining portion of the decal in place.
- Small air pockets can be pierced with a pin and smoothed out using the piece of decal backing paper.



## Before Operation

- Carefully study and understand this manual.
- Do not wear loose-fitting clothing, which may catch in moving parts.
- Always wear protective clothing and substantial shoes.
- Assure that all tires are inflated evenly.
- Give the machine a visual inspection for any loose bolts, worn parts or cracked welds, and make necessary repairs. Follow the maintenance safety instructions included with this manual.
- Be sure that there are no tools lying on or in the equipment.
- Do not use the machine until you are sure that the area is clear, especially of children and animals.
- Don’t hurry the learning process or take the machine for granted. Ease into it and become familiar with your new equipment.
- Practice operation of your equipment and its attachments. Completely familiarize yourself and other operators with its operation before using.
- Use a tractor equipped with a Roll Over Protection System (ROPS) and fasten your seat belt prior to starting engine.
- The manufacturer does not recommend usage of tractor with ROPS removed.
- Move tractor wheels to the widest recommended settings to increase stability.
- Securely attach to towing unit. Use a high strength, appropriately sized hitch pin with a mechanical retainer and attach safety chain.
- Do not allow anyone to stand between the tongue or hitch and the towing vehicle when backing up to the equipment.
- Do not use the machine until you are sure that the area is clear, especially of children and animals.

# Important Safety Information



## During Operation

- Children should not be allowed on the product.
- Clear the area of small children and bystanders before moving the machine.
- If using a towing unit, securely attach machine by using a hardened 3/4" pin, a metal retainer, and safety chains if required. Shift towing unit to a lower gear before going down steep downgrades, thus using the engine as a retarding force. Keep towing vehicle in gear at all times. Slow down for corners and rough terrain.
- Make sure you are in compliance with all local and state regulations regarding transporting equipment on public roads and highways. Lights and slow moving signs must be clean and visible by overtaking or oncoming traffic when machine is transported.
- Beware of bystanders, **particularly children!** Always look around to make sure that it is safe to start the engine of the towing vehicle or move the machine. This is particularly important with higher noise levels and quiet cabs, as you may not hear people shouting.
- **NO PASSENGERS ALLOWED!** Do not carry passengers anywhere on, or in, the tractor or equipment, except as required for operation.
- Keep hands and clothing clear of moving parts.
- Do not clean, lubricate or adjust your equipment while it is moving.
- When halting operation, even periodically, set the tractor or towing vehicle brakes, disengage the PTO, shut off the engine and **remove the ignition key.**
- Be especially observant of the operating area and terrain. Watch for holes, rocks or hidden hazards. Always inspect the area prior to operation.
- **DO NOT** operate near the edge of drop-offs or banks.
- **DO NOT** operate on steep slopes as overturns may result.
- Operate up and down (not across) intermediate slopes. Avoid sudden starts and stops.



**WARNING: <u>Never</u> backup with the machine on the ground! This will cause damage to the machine. <u>*Always*</u> lift the machine high enough to clear the ground before backing up.**

# Important Safety Information



## Highway and Transport Operations

- Adopt safe driving practices.
- Keep the brake pedals latched together at all times. **Never use independent braking with machine in tow as loss of control and/or upset of machine can result.**
- Always drive at a safe speed relative to local conditions and ensure that your speed is low enough for an emergency stop to be safe and secure. Keep speed at a minimum.
- Reduce speed prior to turns to avoid the risk of overturning.
- Avoid sudden uphill turns on steep slopes.
- Always keep the tractor or towing vehicle in gear to provide engine braking when going downhill. Do not coast.
- Do not drink and drive!
- Comply with state and local laws governing highway safety and movement of farm machinery on public roads.
- Use approved accessory lighting flags and necessary warning devices to protect operators of other vehicles on the highway during daylight and nighttime transport. Various safety lights and devices are available from your dealer.
- The use of flashing amber lights is acceptable in most localities. However, some localities prohibit their use. Local laws should be checked for all highway and marking requirements.
- When driving the tractor and equipment on the road or highway under 40 kph (20 mph) at night or during the day, use the amber warning lights and a slow moving vehicle (SMV) identification emblem.
- Plan your route to avoid heavy traffic.
- Be a safe and courteous driver. Always yield to oncoming traffic in all situations, including narrow bridges, intersections, etc.
- Be observant of bridge loading ratings. Do not cross bridges rated at lower than the gross weight at which you are operating.
- Watch for obstructions overhead and to the side while transporting.
- Always operate in a position to provide maximum visibility at all times. Make allowances for increased length and weight of the equipment when making turns, stopping the machine, etc.
- Pick the most level route when transporting across fields. Avoid the edges of ditches or gullies and steep hillsides.
- Be extra careful when working in inclines.

# Important Safety Information

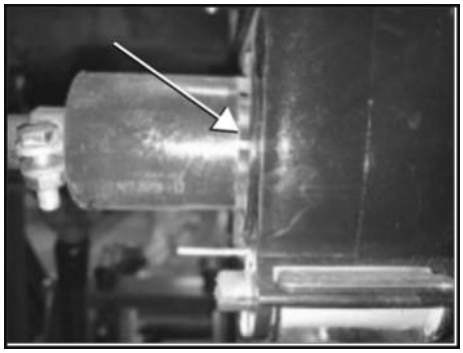


## Highway and Transport Operations

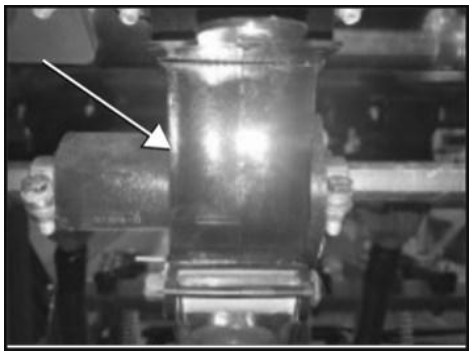
- Maneuver the tractor or towing vehicle at safe speeds.
- Avoid overhead wires or other obstacles. Contact with overhead lines could cause serious injury or death.
- Avoid loose fill, rocks and holes, they can be dangerous for equipment operation or movement.
- Allow for machine length when making turns,
- Operate the  towing vehicle from the operator's seat only.
- Never stand alongside of machine with engine running or attempt to start engine and/or operate machine while standing alongside of machine.
- Never leave running equipment attachments unattended.
- As a precaution, always recheck the hardware on equipment following every 100 hours of operation. Correct all problems. Follow the maintenance safety procedures.

**Before beginning work:**

- Be sure all the seed cups completely close and open the same, so all cups are putting out the exact amount of seed. If they are not in sync, one cup will put out more than others.
- Ensure when completely closed, the seeding gears are not protruding from the outside the cup.
- Adjust the clamps to ensure all cups close and open completely and uniformly.



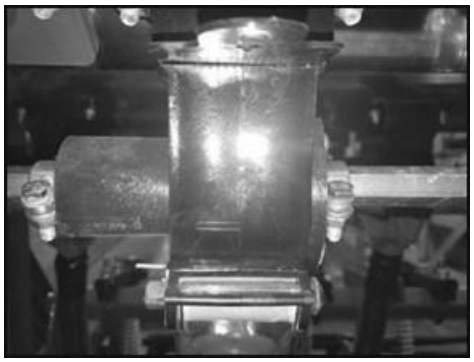
**NOT FLUSH—GEARS PROTRUDING**



**FLUSH—GEARS NOT PROTRUDING**

**To adjust seed output:**

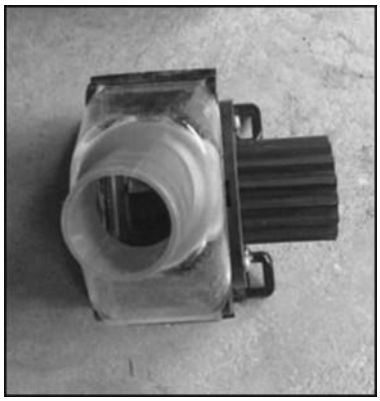
The Seed cups on the SAYA may come with either of two different style of seed cups or a combination of both. Typically the front Seed box section is equipped with a LARGE SEED CUP and the rear section typically has the LEGUME SEED BOX.



The LARGE SEED front section is usually driven with an 11-26 Gear ratio, while the back LEGUME SEED section is being reduced to put out less with a 12-40 Gear Ratio.



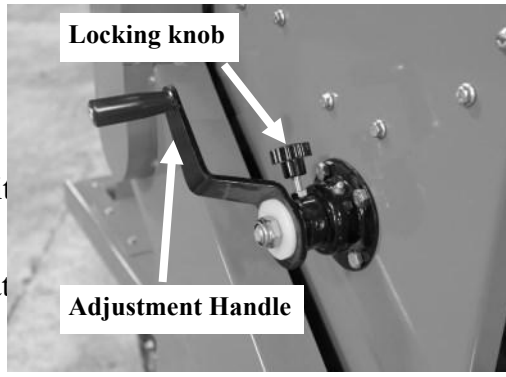
**Large seed cup box - front**



**Legume seed cup box - rear**

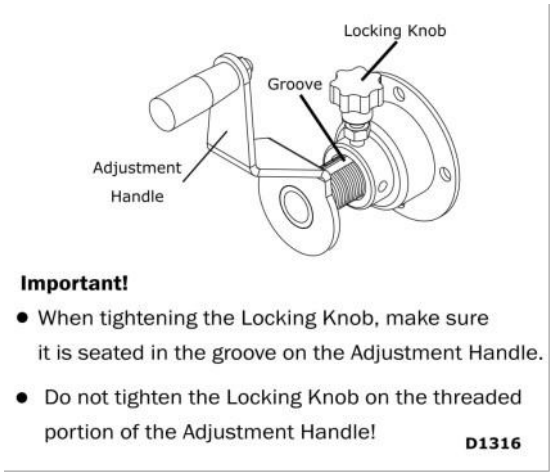
# Assembly Operating Instructions

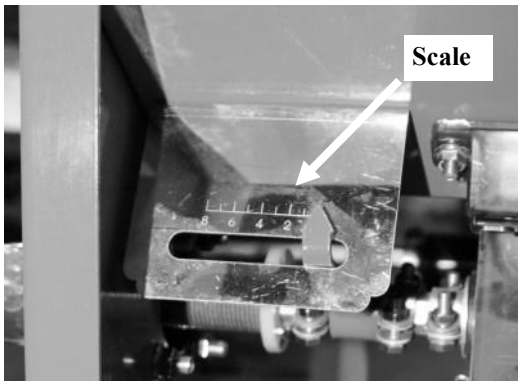
**Seeding/Fertilizing rate adjustment handle:**




To adjust the seed/fertilizer rate, loosen the Locking Knob before attempting to adjust the feed rate. Note that the Locking Knob sits in a groove on the Adjustment Handle. Loosen the Locking Knob to the point where it clears the threads of the Adjustment Handle. When tightening the Locking Knob, be sure it sits in the grove or the threads can be damaged. See the Decal located on the machine near the Adjustment Handle for more information. The seed/fertilize rat depends on the seed/fertilizer you want to plant, please refer to your seed/ fertilizer supplier's chart to get the proper seed/fertilize rate.

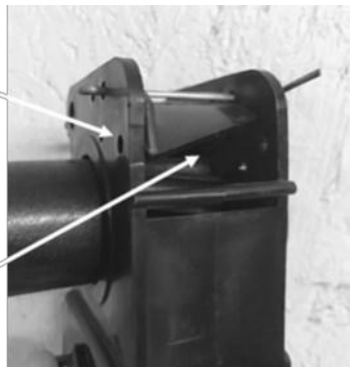
**Important: Tighten Locking Knob on Adjustment Handle before operating.**

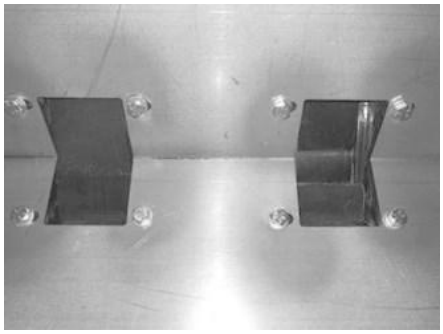


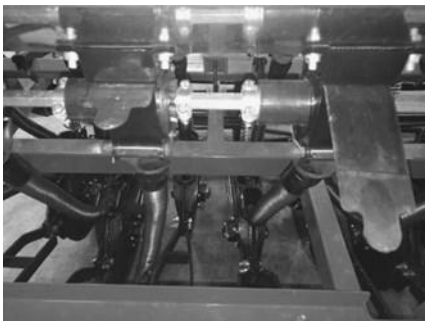

Before adjusting the seed rate, return the rate on the Scale to zero by cranking the Adjustment Handle, then check and make sure all seeding/fertilizing wheels are fully closed on all seeding/ fertilizing boxes. (SEE BEFORE BEGINNING section) If not, you need to loosen the clips on both sides of the seeding/fertilizing wheel and push the wheel into the box. Tighten the clips. When the seeding/fertilizing box is closed and the meter indicates "0". Adjust fertilizing rate by cranking the Adjustment Handle. The meter has 8 numbers from 0-8, from zero to Maximum.

Weight, size, relative humidity, and moisture content can affect seeding rates. Users can adjust the position of the seed/fertilizer "TONGUE" and lock in different positions by moving the cotter pin to meet the different seeding/fertilizing size. The smaller the seed, the higher up the "TONGUE" should be positioned. For larger seed, the "TONGUE" should be opened more. **NOTE: This adjustment only pertains to the PT505 and PT507.**



Closed Open

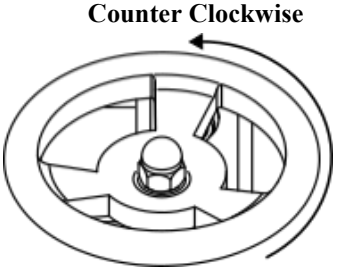


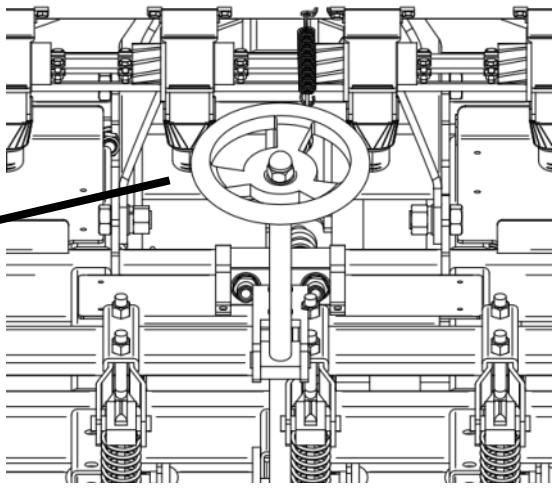
Closed Open

**Seed cup shutoff:**
Depending on the crop being planted, it may be necessary to not disburse from all of the seed cups. This is easily done by simply sliding the "Seed shut off flap" in and out.

**Seed depth - Torsion Bar Wheel**

Turn the Torsion Bar Wheel counter-clockwise to increase spring tension on the individual discs to apply additional pressure on the seed wheels and allow for deeper ground penetration.

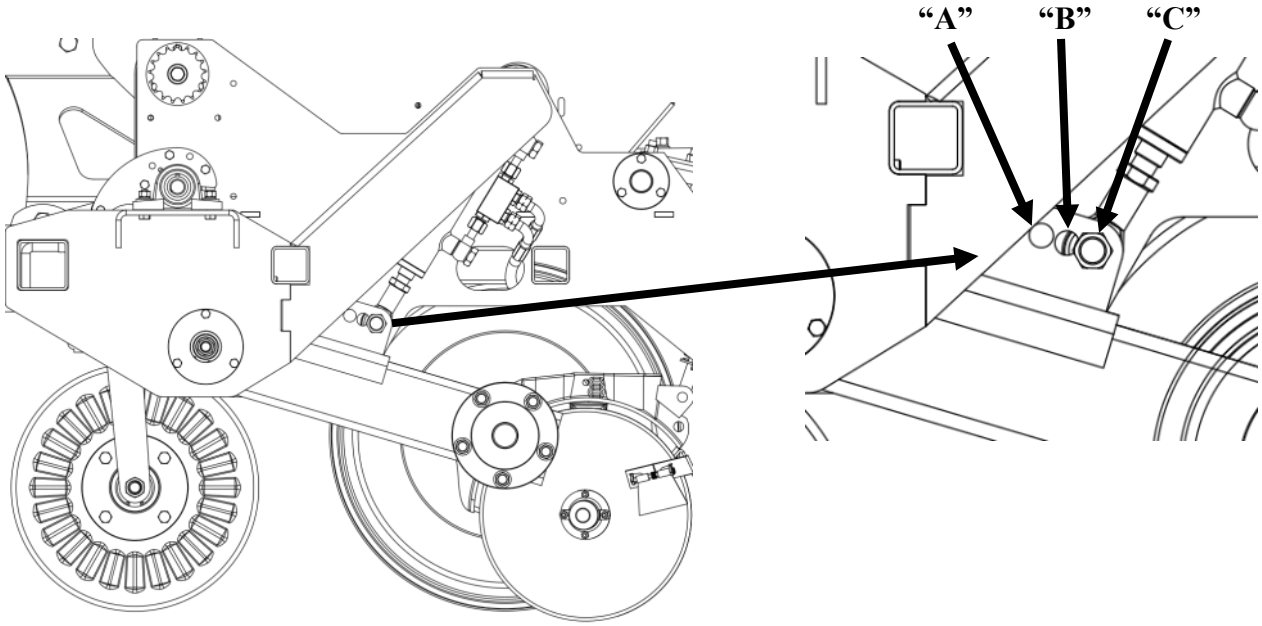


**Seed depth**

Seed depth can also be controlled by changing the location of the hydraulic cylinders on the wheel arms. The factory setting may not be optimal for your soil conditions. Make adjustments to the machine according to the ground conditions.

When making this adjustment, make sure both LH and RH cylinders are in the same respective holes. Remove hardware connecting the cylinder to the wheel arm only. It is not necessary to remove hydraulic cylinder. Move cylinder to desired hole, replace hardware and tighten to proper torque specifications. **WARNING: Machine must be supported properly to avoid accidents when changing hydraulic cylinder positions.** Use caution when making this adjustment. If machine is attached to a tractor, tractor must be shut off and tires blocked. **NOTE:** Hole "A" will give the most ground contact, Hole "C" will give the least ground contact. Hole "A" increases the height of the machine approximately 2" .




**NOTE:** Wheel removed from image for clarity only! Never operate the machine with missing parts or shields removed.

# Assembly Operating Instructions

**Actuator Lifting Mechanism**

**DANGER! CRUSHING HAZARD! Use extreme caution when raising or lowering the machine. Never allow bystanders near the machine when in operation. Serious injury or death can occur.**

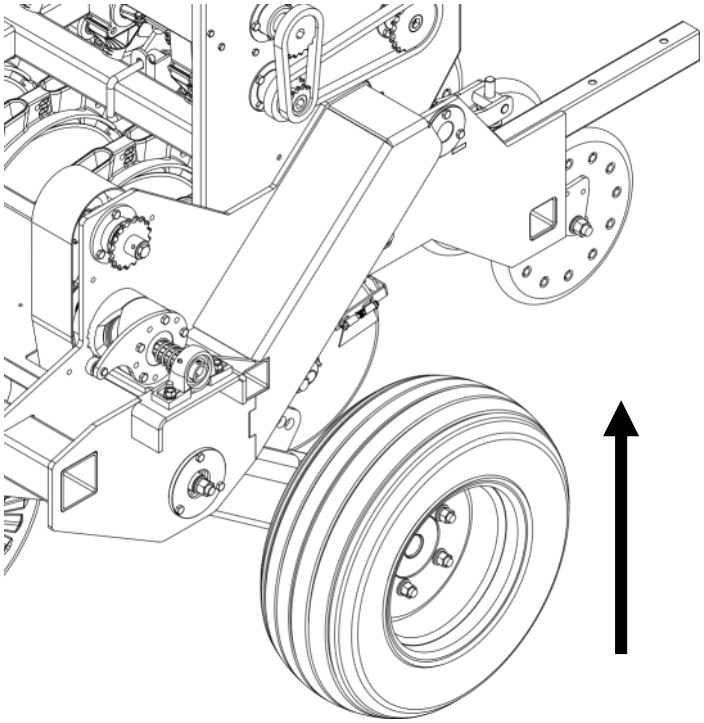
The **SAYA-PT505** is equipped with an electrical actuator powered by the tractor electrical system. Attach the cable to the tractor's battery. Always connect the Positive (+) cable to Positive battery post and Negative (-) cable to Negative battery post. NOTE: There is an optional hydraulic lift kit available.

To transport the machine, Press the ***Green*** button to raise the machine to full height. **Caution: Never attempt transporting the machine in the lowered position. Never back up the machine in the lowered position**. Damage can occur to machine and void warranty. Press the Red button to lower the machine to the ground. The machine is now ready for operation.

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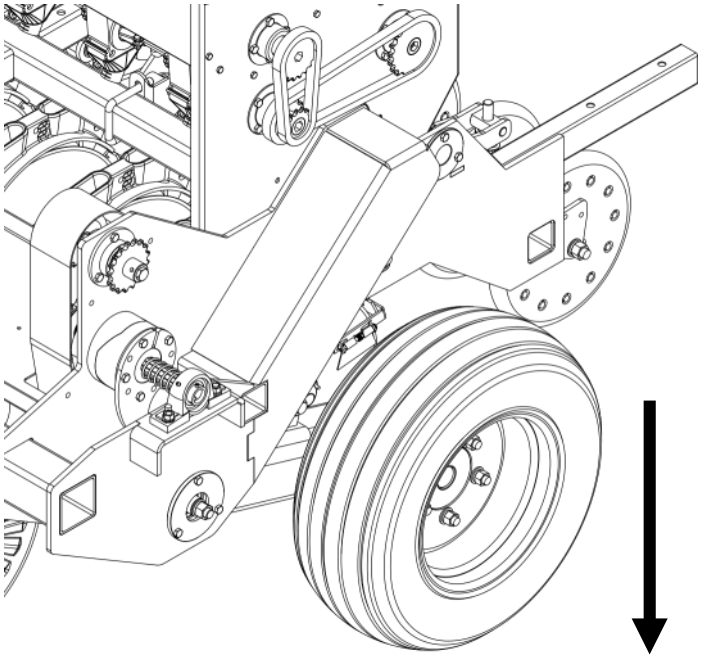
**WARNING: Avoid serious injury from injection of pressurized hydraulic fluid. Always relieve pressure before performing service or maintenance on any hydraulic components. Do not use hands to search for leaks. Use cardboard or similar material.**

The **SAYA-PT507 and PT907 are** both equipped with a hydraulic powered actuator. Connect the ends of the hydraulic hoses to the tractor remote. Use the tractor hydraulic control to raise or lower the machine.



**Transport Position:**

Machine must be in the fully raised position for transport.

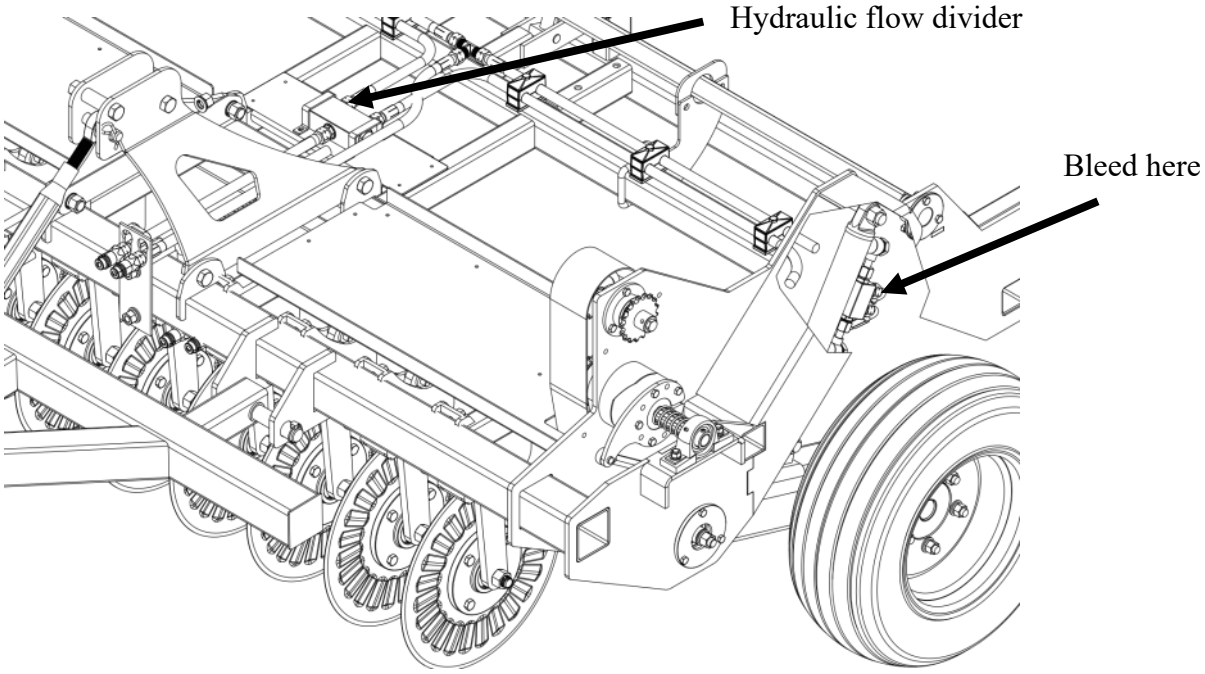


**Working Position:**

Lower machine to make contact with soil.

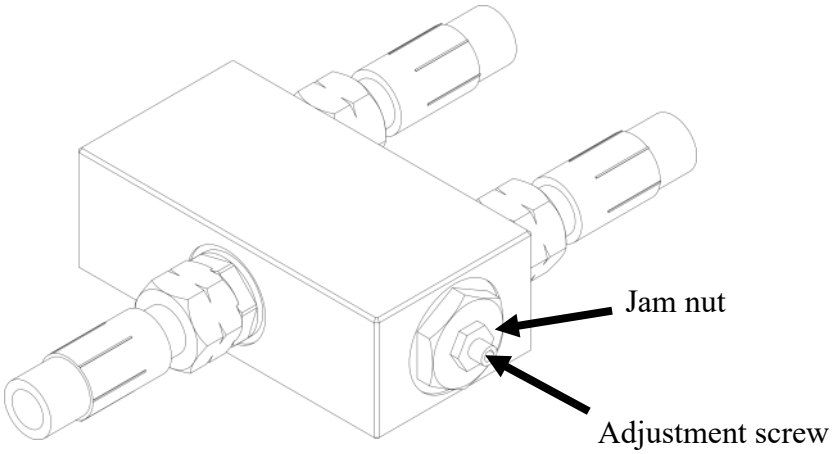
**Hydraulics**

- It may be necessary to bleed air from the hydraulic lines the first time connecting to the tractor and when making repairs to hydraulics. Check the level of hydraulic fluid in the tractor, before and after connecting the machine. Maintain the proper amount of hydraulic fluid as specified by tractor manufacture.
- Carefully loosen the top hydraulic line connection at the cylinder and wait for the air to be released. Once there is no air and only hydraulic fluid re-tighten the hydraulic connection. Repeat the process for the opposite side.

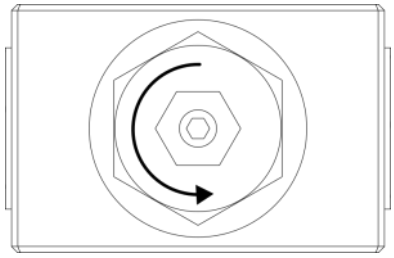



**Hydraulic Flow Divider Adjustment (See image on next page)**

- If there is excessive vibration when raising or lowering the machine, or one side out of sync with the other, the hydraulic flow divider needs adjustment. The hydraulic flow divider is located approximately midway of the frame secured to a platform. See image above.
- The set screw is turned all the way in from the factory. Loosen the jam nut on the left side of the hydraulic flow divider by turning counter-clockwise . It is not necessary to remove the jam nut, only loosen.
- Use a 5mm Allen wrench and turn the adjustment screw counter-clockwise. It is advisable to only turn the adjustment screw a 1/4 turn at a time and snug the jam nut after adjustment. Raise and lower the machine several times to determine if further adjustment is required. If vibration persist, repeat process.
- Always check for leaks after making adjustments to the hydraulics.




**Hydraulic Flow Divider**



**End View, Flow Divider**
**Turn Counter-clockwise to loosen nut and set screw.**

**Clutch**

The SAYA-PT series seeders are ground driven. In the "Transport" position (wheels lowered) , the clutch is disengaged, **Fig. "A".** The machine will not operate in this position.

In order to engaged the clutch, the machine must be in the "Operating" position (wheels raised), **Fig. "B".** The two halves of the clutch will match and begin operating the machine.

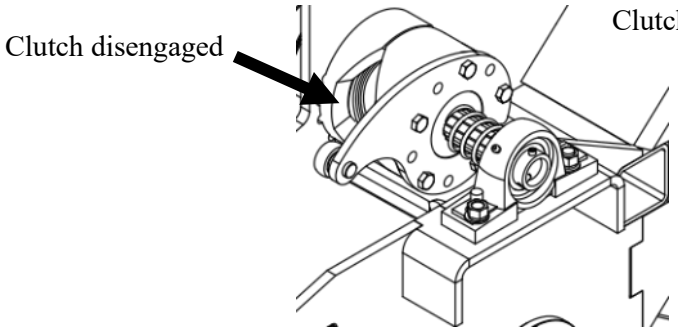



**Fig. A**

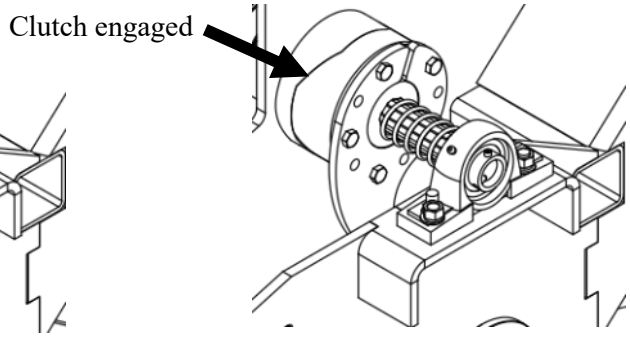
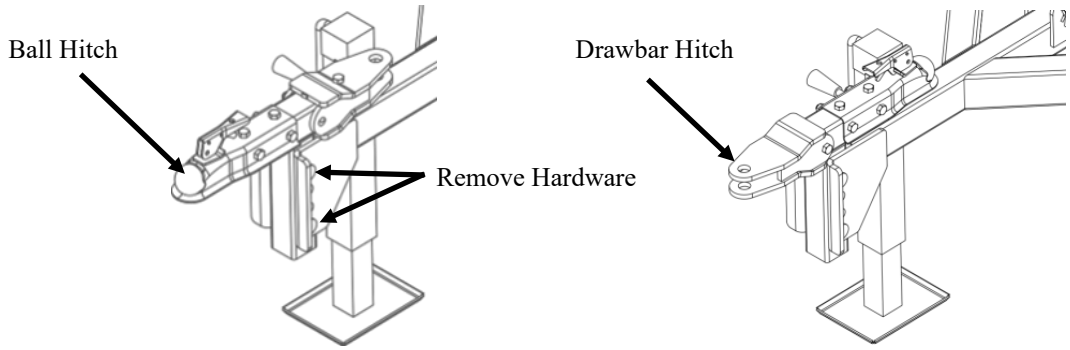



**Fig. B**

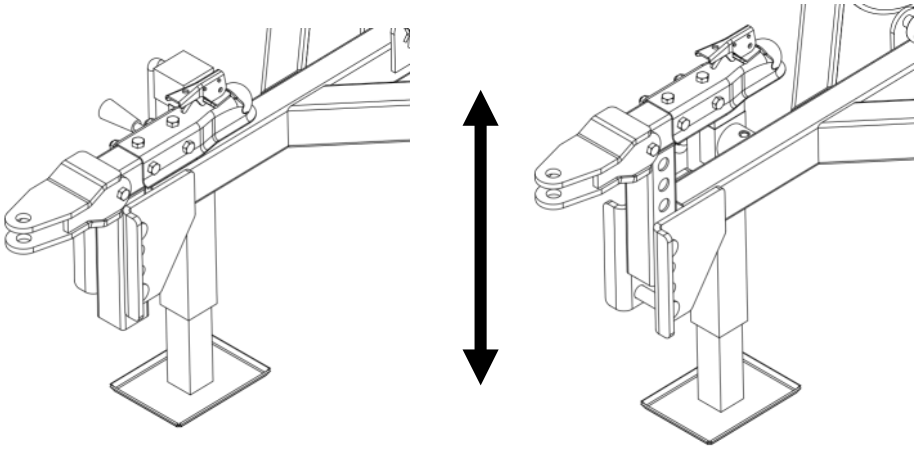
**Hitch**

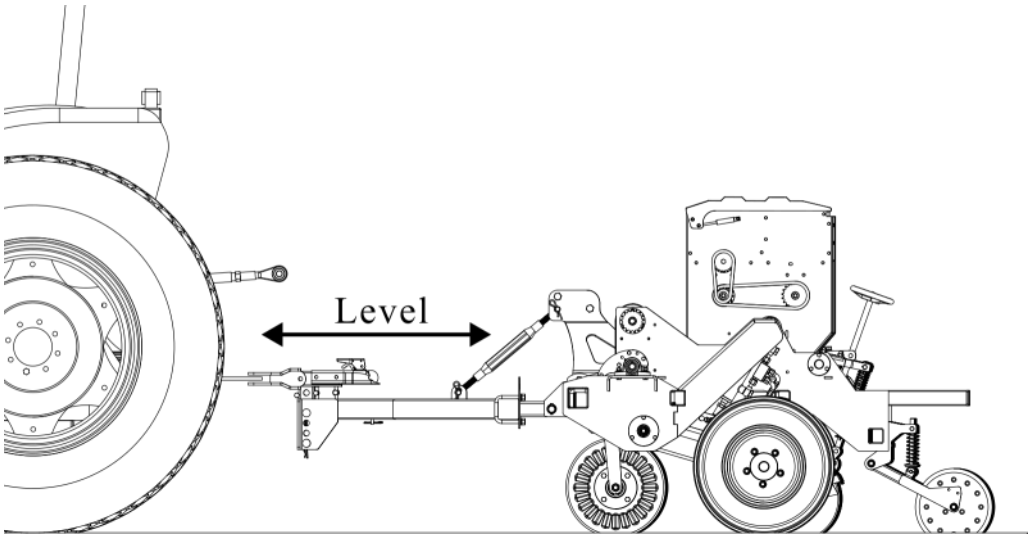
The Universal Hitch allows for towing with a 2” ball or tractor pull bar. The hitch is easily switched by removing the hardware attaching hitch to frame, reversing hitch and re-attaching hardware. Always tighten hardware to proper torque specifications. See page 27.




**Vertical Adjustment**

The hitch is adjustable vertically. Remove the hardware from the hitch and raise to the desired height. The machine should be as level as possible with the tractor tow bar/ball for best performance.





# Lubrication and Maintenance

**Important:** It is important to thoroughly clean the seeder after use. Failure to do so can cause irreparable damage to the seed cups and drive system. Grease and turn the Seed adjustment handle to ensure grease lubricates the threads.

There are a few ways to clean out the hoppers:

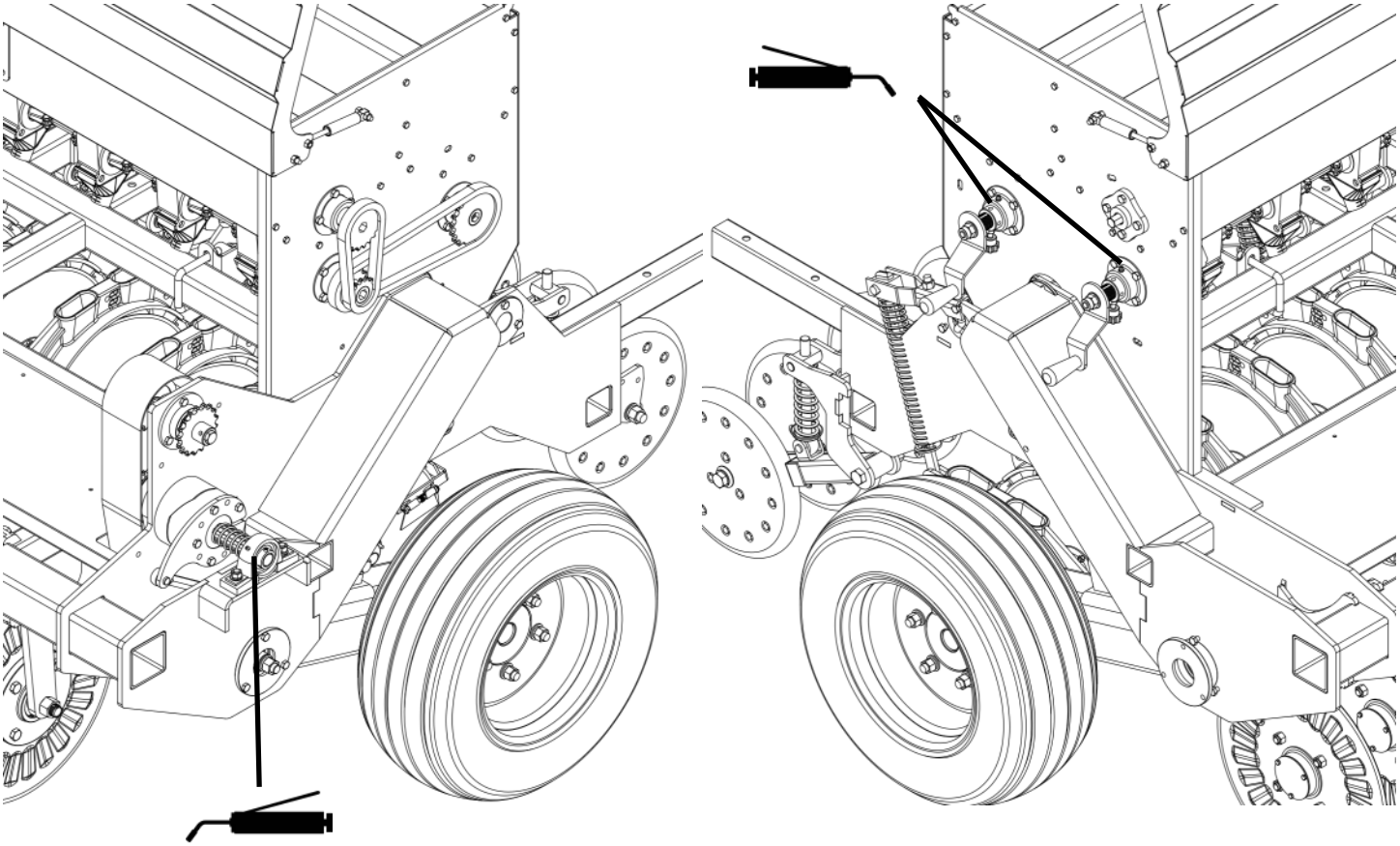
- Each hopper is equipped with a cleanout spout in the front of each hopper.
- The rear hopper is equipped with a quick release lever located under the center of the hopper. By pulling down the will open and cause the seed/fertilizer to drop out of each of the seed cups.
- Each seed cup can be emptied individually by pulling the cotter pin on the side of the cup and dropping down the hopper tongue.

| | |
|---|---|
| **1 Hour** | Check all fasteners and hardware including set screws in sprockets and bearing collars and re-tighten as necessary. |
| **8 Hours** | Grease bearings on roller and apply grease to torsion bar wheel mechanism. |
| **As needed:** | Remove any crop residue, grasses, weeds, or debris wrapped around shaft discs or rollers. This can cause bearings to overheat and lead to premature failure. |
| **Always:** | Protect the machine from weather. NEVER leaver fertilizer in hopper. Do not leave seed in hopper for more than 24 hours. Remove all fertilizer and seeds from hopper. Thoroughly clean hoppers and lubricate all drive chains before storage. |

# Lubrication and Maintenance

## Grease Points

The reason bearings fail is most often due to either not greasing or not greasing often enough. See chart on previous page for lubrication schedule. To ensure optimal performance of the machine, thoroughly and properly lubricate each grease point. See diagrams below for locations. All points indicated in the figures below are equipped with ball type grease fittings. Fill with a multi-purpose grease using a grease gun.



## Chain Lubrication

Chains should be free of debris and dirt. Remove any debris in chain and wipe it clean with kerosene or a nonflammable solvent before lubricating. The chain can lubricated with a brush or spout can. Chains should be checked for dirt or debris, corrosion and lubricated as needed. Check chains prior to each use and periodically during operation.

A chain lubricant should have low enough viscosity to penetrate into critical internal surfaces and high enough viscosity, or necessary additives, to maintain an effective film on the chain.

# Setting Application Rates

**NOTE: The most accurate way to set application rates is to drive a predetermined distance and physically catch the seeds dispensed.**

**Setting Application Rates:**

- Remove at least one drop hose and tie a plastic bag onto bottom of seed cup.
- Travel a determined distance and then weigh the seeds in the bag.
- Multiply the amount collected by the number of cups on your machine.
- Refer to the following example to properly calibrate your machine.

To determine area covered calculate the following:

Disc spacing x number of discs (7 or 10), (convert to ft.) x distance traveled / by the sq. ft. in an acre.
Ex. 10 discs with a 7.5” spacing = 75” (6.25 ft.) x 100 ft. traveled = 625 sq. ft. covered.
625 / 43,560 sq. ft. in acre = .0143 (1.43% of acre covered.)

If you collect 1 oz. of seed from a single seed cup on the #3 setting after driving 100 ft. (1.43% of an acre), you are putting out 43.70 lbs. per acre.

1 oz. (amount collected) x number of seed cups (7 or 10)
Ex. 10 seed cups = 10 oz. total output by machine. Distance traveled = 100 ft. (1.43% of acre)
1 oz / 16 oz (16 oz in 1 lb.) = .0625 / .0143 = 4.37 x 10 disc = 43.70 lbs. per acre

NOTE: The tables and rate charts are guidelines only! They are designed to be an aid as a starting point. You must do your own calibration as many factors cause rates to change. Variations in seed/granular size, density, moisture, seed treatment, and the amount of machine overlap will affect the final application rate.



# Application Rate Charts PT505/PT507

**LARGE SEED CUP 11-26 Gear Ratio**

| Cup Setting | 1/2 | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|
| Chufa | | | | 40 | 50 | |
| Oats | | | | 65 | | 125 |
| Wheat | | | | 60 | 90 | 120 |
| Lawn Mixtures | | | | | 100 | 130 |
| Fescue | | | | | 114 | 138 |
| Rye | | | 72 | | | |
| Pelletized Lime | | 50 | | | | |
| Shut off every other seed cup | | | | | | |
| Sunflower 15” row | | | | 22 | 32 | |
| Soybeans 15” row | | | 50 | | | |
| Shut off every other 2 seed cups | | | | | | |
| Corn 22.5” row | | | | 20 | 35 | |

**Approximate Pounds Per Acre**

*25.5 rotations of the drive roller = 100 Feet*

**SMALL SEED CUP 12-40 Gear Ratio**

| Cup Setting | 1/2 | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|
| Clover/Brassica/Rape | 6 | | | | | |
| Sorghum/Millet | | 15 | | 30 | | |
| Alfalfa | | | 20 | | | |
| Buckwheat | | | | 50 | | |
| Timothy Grass | | (1.5 = 10) | 15 | | | |
| Kentucky Blue Grass | | | | 30 | 40 | |
| Radish | | 10 | | | | |
| Turnips | | 11 | | | | |
| Rye | | 7 | | | | |
| Chicory | | 5 | | | | |
| Alfalfa/Chicory(Food Plot Mix) | | 10.5 | | | | |

**Approximate Pounds Per Acre**

*25.5 rotations of the drive roller = 100 Feet*

# Application Rate Charts PT907

| SAYA-907 Front Hopper | | | | | |
|---|---|---|---|---|---|
| Cup Setting | | 1 | 2 | 3 | 4 |
| | Seed Type | lbs. per acre | | | |
| Large Grass Seed | Rye | 38 | 42 | 53 | 59 |
| | Fescue | 39 | 47 | 98 | 140 |
| | Oats | 138 | 147 | 155 | 162 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| Cup Setting | | 1 | 2 | 3 | 4 |
| Coase Grain | Corn | 49 | 79 | 103 | 129 |
| | | | | | |
| | | | | | |
| | | | | | |
| Approximate Pounds Per Acre<br>25.5 rotations of the drive roller = 100 Feet | | | | | |

| SAYA-907 Middle Hopper | | | | | | |
|---|---|---|---|---|---|---|
| Setting | 1 | 2 | 3 | 4 | 5 | 6 |
| Seed Type | lbs. per acre | | | | | |
| Big Bluestem | 6 | 7 | 7 | 10 | 12 | 13 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| Approximate pounds per acre<br>25.5 rotations of the drive roller = 100 feet | | | | | | |

| SAYA-907 Rear Hopper | | | | | | |
|---|---|---|---|---|---|---|
| Setting | 1 | 2 | 3 | 4 | 5 | 6 |
| Seed Type | lbs. per acre | | | | | |
| Clover | 8 | 14 | 20 | 28 | 35 | 42 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| Approximate pounds per acre<br>25.5 rotations of the drive roller = 100 feet | | | | | | |

# Torque Specifications

## Torque Specifications for Common Bolt Sizes

### Inches

Bolt Head Identification

| Bolt size (inches) | Thread pitch | Grade 2 N.m | Grade 2 ft-lb | Grade 5 N.m | Grade 5 ft-lb | Grade 8 N.m | Grade 8 ft-lb |
|---|---|---|---|---|---|---|---|
| 1/4" | 20 | 7 | 5 | 11 | 8 | 16 | 12 |
| 1/4" | 28 | 8 | 6 | 13 | 10 | 19 | 14 |
| 5/16" | 18 | 15 | 11 | 24 | 17 | 33 | 25 |
| 5/16" | 24 | 17 | 13 | 26 | 19 | 37 | 27 |
| 3/8" | 16 | 27 | 20 | 42 | 31 | 59 | 44 |
| 3/8" | 24 | 31 | 23 | 47 | 35 | 67 | 49 |
| 7/16" | 14 | 43 | 32 | 67 | 49 | 95 | 70 |
| 7/16" | 20 | 48 | 36 | 75 | 55 | 106 | 78 |
| 1/2" | 13 | 66 | 48 | 102 | 75 | 144 | 106 |
| 1/2" | 20 | 75 | 55 | 115 | 85 | 163 | 120 |
| 9/16" | 12 | 95 | 70 | 147 | 109 | 208 | 154 |
| 9/16" | 18 | 106 | 79 | 164 | 121 | 232 | 171 |
| 5/8" | 11 | 132 | 97 | 203 | 150 | 287 | 212 |
| 5/8" | 18 | 149 | 110 | 230 | 170 | 325 | 240 |
| 3/4" | 10 | 233 | 172 | 361 | 266 | 509 | 376 |
| 3/4" | 16 | 261 | 192 | 403 | 297 | 569 | 420 |
| 7/8" | 9 | 226 | 167 | 582 | 430 | 822 | 606 |
| 7/8" | 14 | 249 | 184 | 642 | 473 | 906 | 668 |
| 1" | 8 | 339 | 250 | 873 | 644 | 1232 | 909 |
| 1" | 12 | 371 | 273 | 955 | 704 | 1348 | 995 |
| 1-1/8" | 7 | 480 | 354 | 1077 | 794 | 1746 | 1288 |
| 1-1/8" | 12 | 539 | 397 | 1208 | 891 | 1958 | 1445 |
| 1-1/4" | 7 | 677 | 500 | 1519 | 1120 | 2463 | 1817 |
| 1-1/4" | 12 | 750 | 553 | 1682 | 1241 | 2728 | 2012 |
| 1-3/8" | 6 | 888 | 655 | 1992 | 1469 | 3230 | 2382 |
| 1-3/8" | 12 | 1011 | 746 | 2268 | 1673 | 3677 | 2712 |
| 1-1/2" | 6 | 1179 | 869 | 2643 | 1949 | 4286 | 3161 |
| 1-1/2" | 12 | 1326 | 978 | 2974 | 2194 | 4823 | 3557 |

### Metric

Bolt Head Identification

| Bolt size (metric) | Thread pitch | Class 5.8 N.m | Class 5.8 ft-lb | Class 8.8 N.m | Class 8.8 ft-lb | Class 10.9 N.m | Class 10.9 ft-lb |
|---|---|---|---|---|---|---|---|
| M5 | 0.08 | 4 | 3 | 6 | 4 | 9 | 7 |
| M6 | 1 | 6 | 4 | 10 | 7 | 15 | 11 |
| M8 | 1.25 | 16 | 12 | 25 | 18 | 36 | 27 |
| M8 | 1 | 17 | 13 | 26 | 19 | 38 | 28 |
| M10 | 1.5 | 31 | 23 | 48 | 35 | 71 | 52 |
| M10 | 1.25 | 33 | 24 | 51 | 38 | 75 | 55 |
| M10 | 1 | 35 | 26 | 53 | 39 | 78 | 58 |
| M12 | 1.75 | 54 | 40 | 84 | 62 | 123 | 91 |
| M12 | 1.5 | 56 | 41 | 87 | 64 | 128 | 94 |
| M12 | 1.25 | 59 | 44 | 90 | 66 | 133 | 98 |
| M14 | 2 | 84 | 62 | 133 | 98 | 195 | 144 |
| M14 | 1.5 | 94 | 69 | 142 | 105 | 209 | 154 |
| M16 | 2 | 131 | 97 | 206 | 152 | 302 | 223 |
| M16 | 1.5 | 141 | 104 | 218 | 161 | 320 | 236 |
| M18 | 2.5 | 181 | 133 | 295 | 218 | 421 | 310 |
| M18 | 2 | 196 | 145 | 311 | 229 | 443 | 327 |
| M18 | 1.5 | 203 | 150 | 327 | 241 | 465 | 343 |
| M20 | 2.5 | 256 | 189 | 415 | 306 | 592 | 437 |
| M20 | 1.5 | 288 | 212 | 454 | 335 | 646 | 476 |
| M22 | 2.5 | 344 | 254 | 567 | 418 | 807 | 595 |
| M22 | 1.5 | 381 | 281 | 613 | 452 | 873 | 644 |
| M24 | 3 | 444 | 327 | 714 | 526 | 1017 | 750 |
| M24 | 2 | 488 | 360 | 769 | 567 | 1095 | 808 |
| M27 | 3 | 656 | 484 | 1050 | 774 | 1496 | 1103 |
| M27 | 2 | 719 | 530 | 1119 | 825 | 1594 | 1176 |
| M30 | 3.5 | 906 | 668 | 1420 | 1047 | 2033 | 1499 |
| M30 | 2 | 1000 | 738 | 1600 | 1180 | 2250 | 1659 |
| M36 | 4 | 1534 | 1131 | 2482 | 1830 | 3535 | 2607 |

**Notes:**

This chart is an approximate estimate of torque values.

Always tighten hardware to these values unless a different torque value or tightening procedure is listed for a specific application.

Fasteners must always be replaced with the same grade as specified in the manual.

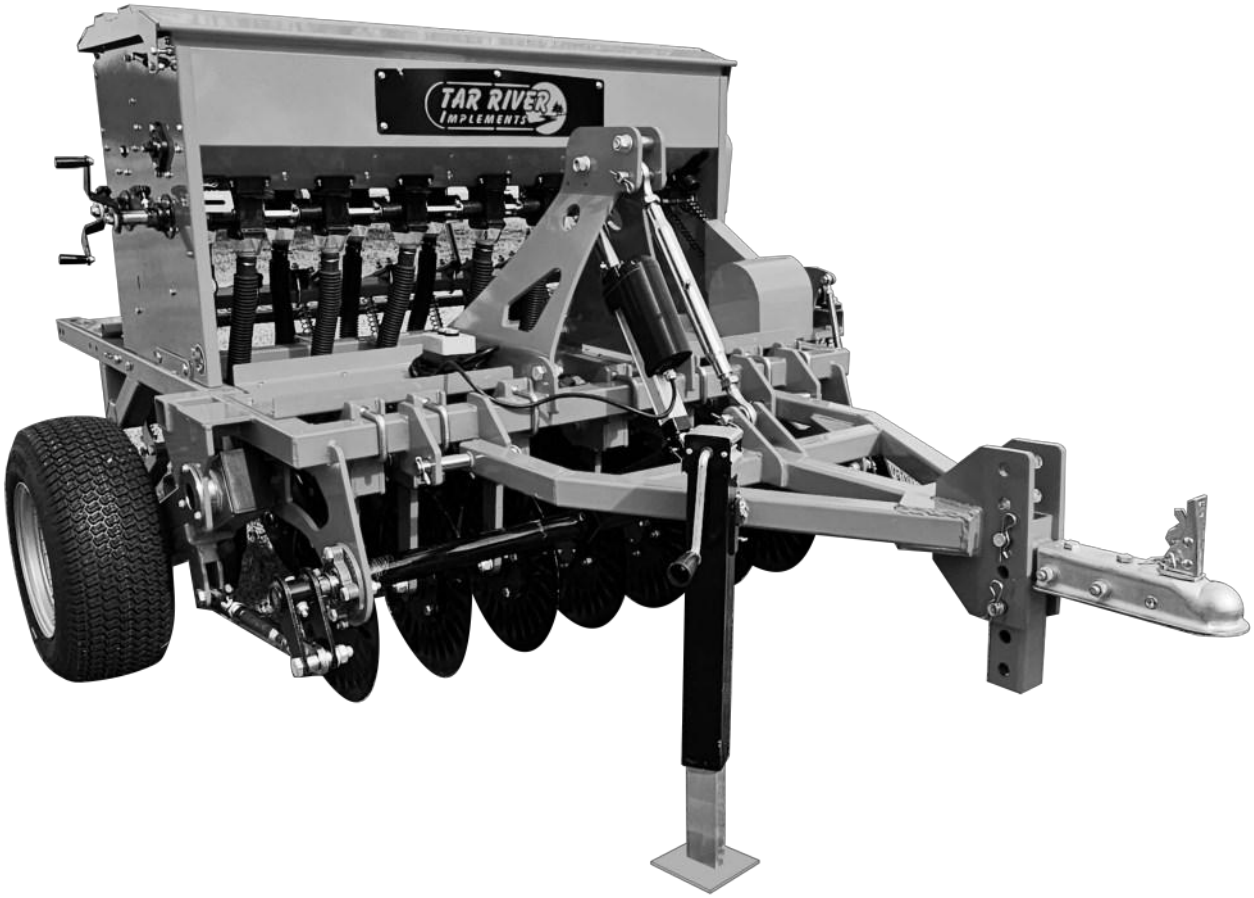
Always use the proper tool for tightening hardware: SAE for SAE hardware and Metric for Metric hardware.

Make sure that fastener threads are clean and that you properly start thread engagement.

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# Pull Type No -Till Drill

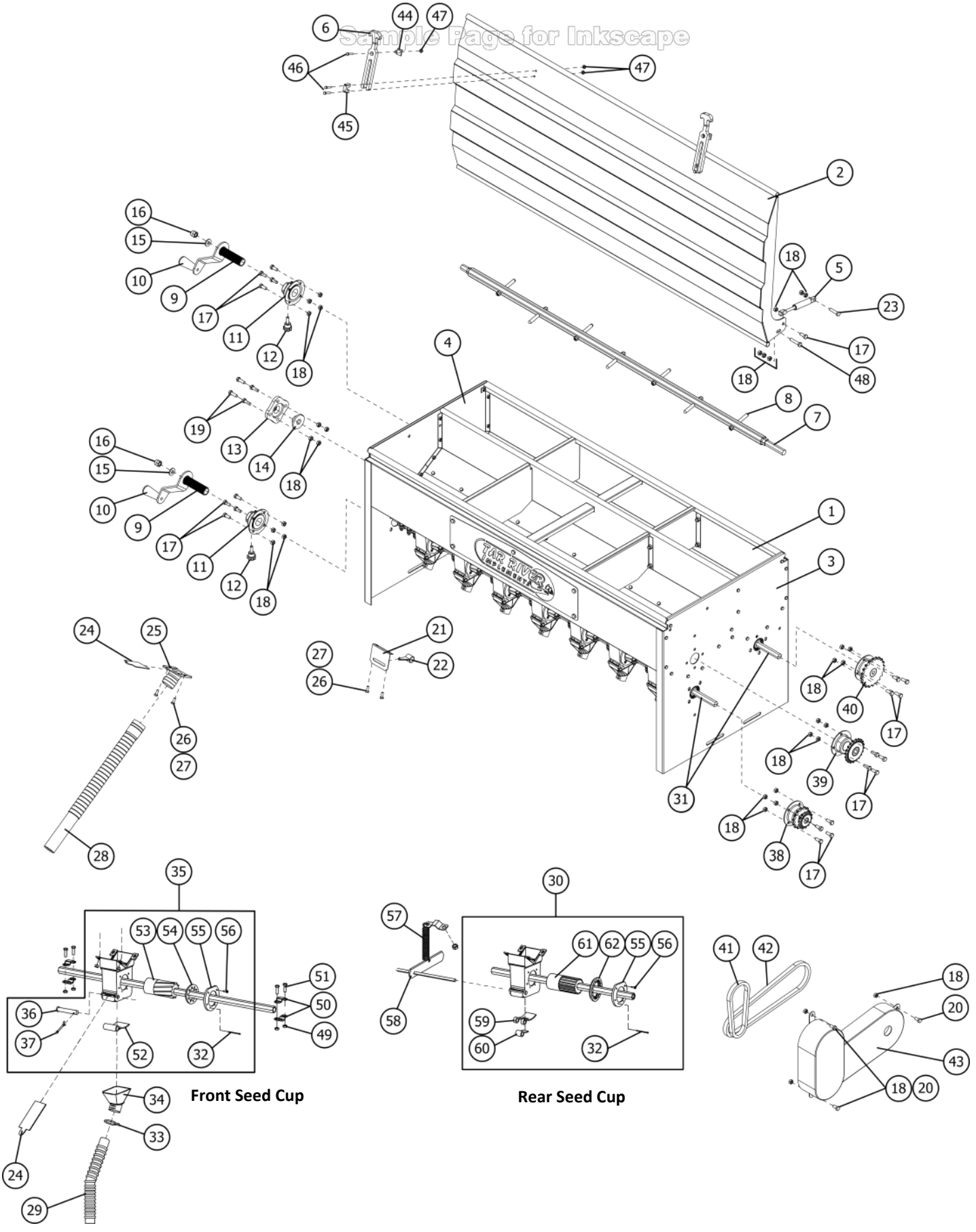
## SAYA-PT505, PT507, PT907




# Operator's Manual

Rel. 09/26

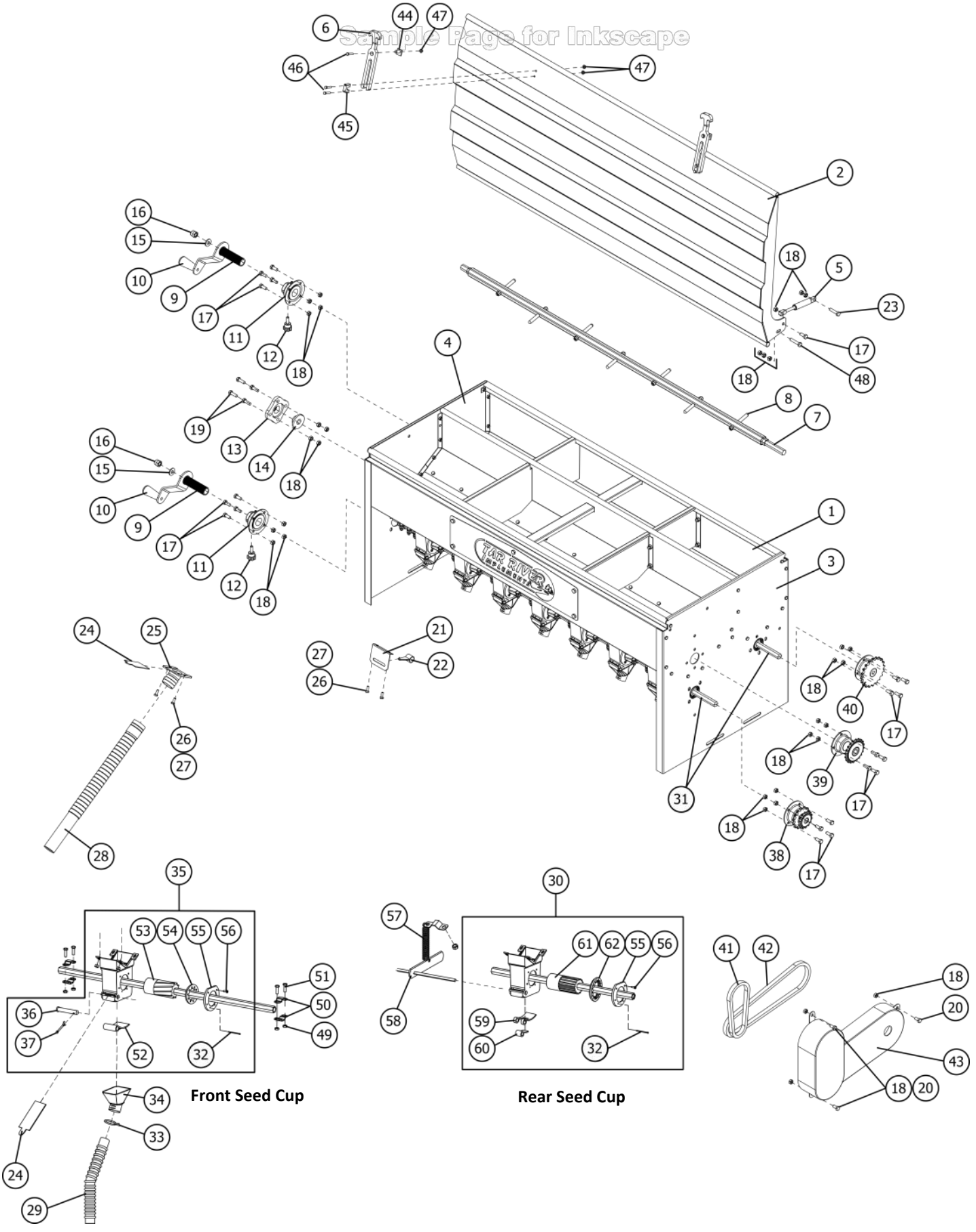
# Hopper PT505



# Hopper PT505

| Item | Part # | Description | Qty. |
|---|---|---|---|
| 1 | SA1003-55 | Hopper complete | 1 |
| 2 | SA1001-55 | Hopper lid | 1 |
| 3 | SA1004 | Hopper end plate, LH | 1 |
| 4 | SA1005 | Hopper end plate, RH | 1 |
| 5 | DL5003 | Lid piston | 2 |
| 6 | SA4063 | Hopper lid strap | 2 |
| 7 | SA9010-55 | Agitator rod SAYA-505 | 1 |
| 8 | SA9011 | Agitator fingers w/nuts | 7 |
| 9 | SA2005 | Handle | 2 |
| 10 | SA5005K | Spinning adjustment handle w/bolt & nut | 2 |
| 11 | SA4020 | Handle flange | 2 |
| 12 | SA2005K | Locking knob | 2 |
| 13 | SA9009 | Mount, agitator | 2 |
| 14 | SA9007 | Bushing, agitator | 2 |
| 15 | SA8009 | Plastic washer, agitator handle | 2 |
| 16 | LNM1420 | Self-locking nut M14-2.0 | 2 |
| 17 | BM0812520 | Bolt HH M08-1.25x20 | - |
| 18 | NM08125 | Nut HH M08-1.25 | - |
| 19 | BM0812525 | Bolt HH M08-1.25x25 | - |
| 20 | BM0812516 | Bolt HH M08-1.25x16 | 3 |
| 21 | DL7004A | Rate adjustment face plate (front) | 1 |
| | DL7004B | Rate adjustment face plate (rear) | 1 |
| 22 | DL7005 | Counter pointer | 2 |
| 23 | BM0812535 | Bolt HH M08-1.25x35 | 2 |
| 24 | DL7007 | Waste/Seed/Fertilizer shut off flap | - |
| 25 | DL1006 | Cleanout spout | 1 |
| 26 | FNM0610 | Flange nut HH M06-1.0 | - |
| 27 | FBM061016 | Flange bolt HH M06-1.0x16 | - |
| 28 | DL7008 | Waste tube | 1 |
| 29 | SA3002 | Fertilizer/seed tube - front seed cup | 7 |
| 30 | DL7001-S | Seed cup distribution box - small seed (rear hopper) | 7 |
| 31 | SA10001-55 | Hex Seed box Shaft for SAYA-505 | 2 |
| 32 | CP3x70 | Cotter pin M3x70 | 14 |
| 33 | SA9005 | Tube wire clamp | 7 |
| 34 | DL7006 | Seed cup funnel | |
| 35 | DL7001-L | Seed cup distribution box - large seed (front hopper) | 7 |
| 36 | SA4019 | Clevis pin composite M10x60 | 7 |
| 37 | CP2.5x20 | Cotter pin M2.5x20 | 7 |
| 38 | SA4094 | Sprocket, large seed cups 14T | 1 |
| 39 | SA4095 | Sprocket, front hopper - upper 20T | 1 |

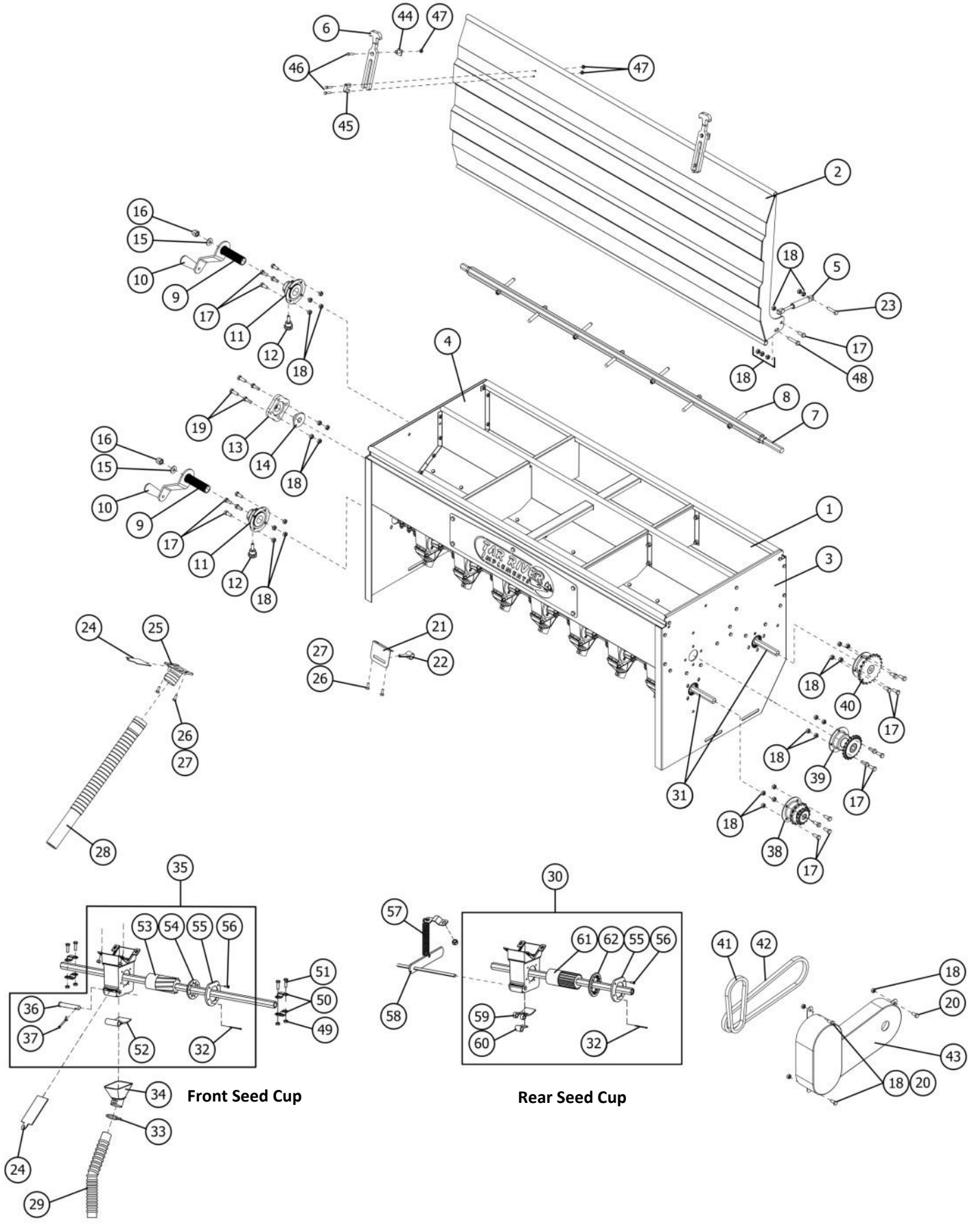
# Hopper PT505



# Hopper PT505

| Item | Part # | Description | Qty. |
|---|---|---|---|
| 40 | SA9012 | Drive sprocket, 20T | 1 |
| 41 | SA4203 | Chain, front hopper SAYA-PT505 | 1 |
| 42 | SA4204 | Chain, rear hopper SAYA-PT505 | 1 |
| 43 | SA4205 | Chain cover, hopper SAYA-PT505 | 1 |
| 44 | SA4065 | Hopper lid strap latch | 2 |
| 45 | SA4064 | Hopper lid strap retainer | 2 |
| 46 | BM040725 | Bolt HH M04-0.7x25 | 6 |
| 47 | FNM0407 | Nut flange M04-0.7 | 6 |
| 48 | BM0812540 | Bolt HH M08-1.25x40 | 2 |
| 49 | NM0610 | Nut HH M06-1.0 | - |
| 50 | DL7002 | Distribution box clamp | - |
| 51 | BM061020 | Bolt HH M06-1.0x20 | - |
| 52 | SA4022 | Flap seed cup | - |
| 53 | SA4012 | Seed box shaft, spiral spline (front seed box) | 7 |
| 54 | SA4014 | Shaft guide, seed cup - spiral spline | 7 |
| 55 | SA4015 | Shaft guide retainer - seed cup | 14 |
| 56 | SA4021 | Sheet metal screw M4x10 | |
| 57 | DL5007 | Spring clean out | 1 |
| 58 | DL5006 | Handle clean out | 1 |
| 59 | SA4030 | Flap outer | 7 |
| 60 | SA4031 | Flap inner | 7 |
| 61 | SA4013 | Seed box shaft, straight spline (rear seed box) | 7 |
| 62 | SA4029 | Shaft guide, seed cup - straight spline | 7 |
| - | MH20000 | Manual holder (not shown) | 1 |

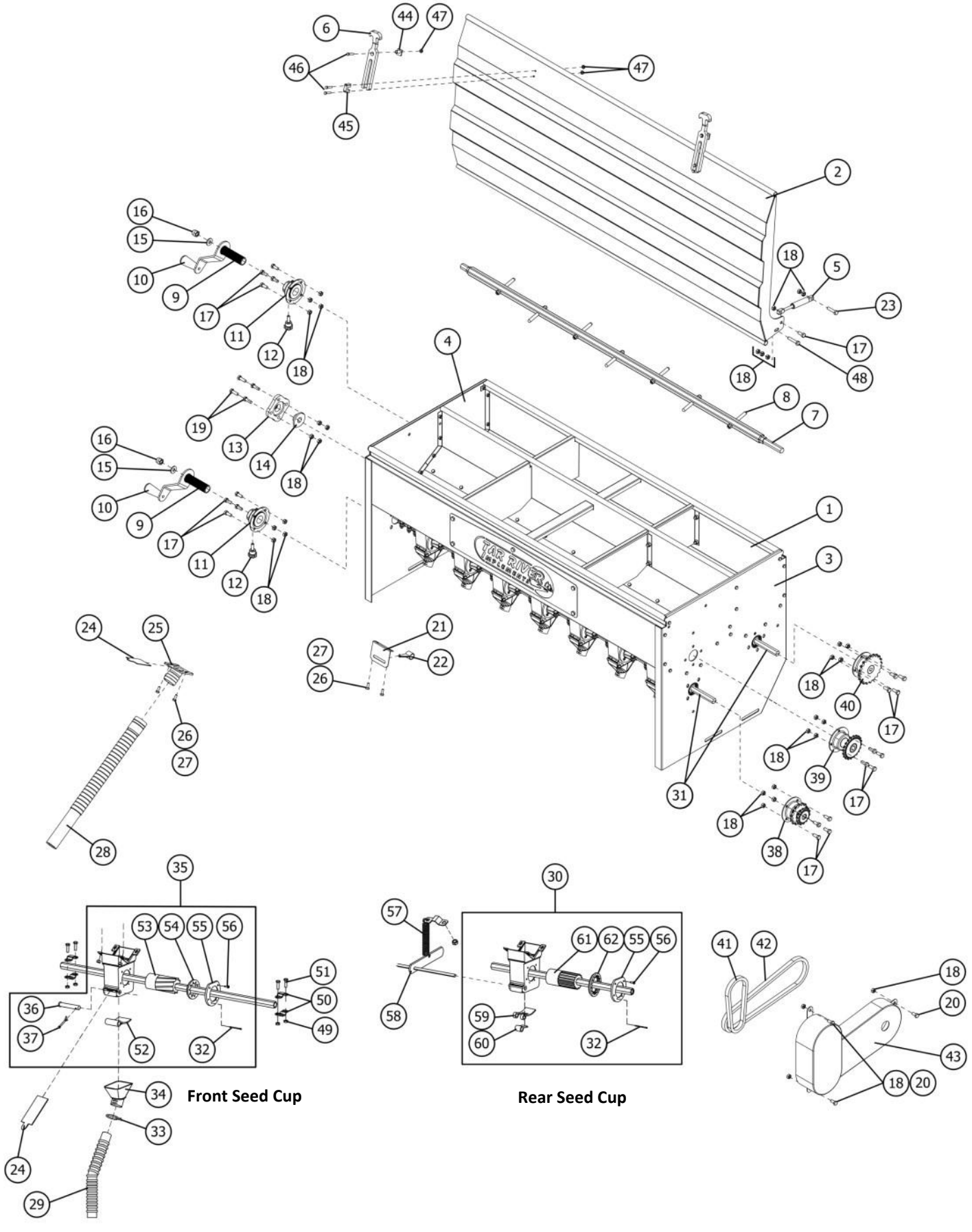
# Hopper PT507



# Hopper PT507

| Item | Part # | Description | Qty. |
|---|---|---|---|
| 1 | SA1003-78 | Hopper complete | 1 |
| 2 | SA1001-78 | Hopper lid | 1 |
| 3 | SA1004 | Hopper end plate, LH | 1 |
| 4 | SA1005 | Hopper end plate, RH | 1 |
| 5 | DL5003 | Lid piston | 2 |
| 6 | SA4063 | Hopper lid strap | 2 |
| 7 | SA9010-78 | Agitator rod SAYA-505 | 1 |
| 8 | SA9011 | Agitator fingers w/nuts | 7 |
| 9 | SA2005 | Handle | 2 |
| 10 | SA5005K | Spinning adjustment handle w/bolt & nut | 2 |
| 11 | SA4020 | Handle flange | 2 |
| 12 | SA2005K | Locking knob | 2 |
| 13 | SA9009 | Mount, agitator | 2 |
| 14 | SA9007 | Bushing, agitator | 2 |
| 15 | SA8009 | Plastic washer, agitator handle | 2 |
| 16 | LNM1420 | Self-locking nut M14-2.0 | 2 |
| 17 | BM0812520 | Bolt HH M08-1.25x20 | - |
| 18 | NM08125 | Nut HH M08-1.25 | - |
| 19 | BM0812525 | Bolt HH M08-1.25x25 | - |
| 20 | BM0812516 | Bolt HH M08-1.25x16 | 3 |
| 21 | DL7004A | Rate adjustment face plate (front) | 1 |
| | DL7004B | Rate adjustment face plate (rear) | 1 |
| 22 | DL7005 | Counter pointer | 2 |
| 23 | BM0812535 | Bolt HH M08-1.25x35 | 2 |
| 24 | DL7007 | Waste/Seed/Fertilizer shut off flap | - |
| 25 | DL1006 | Cleanout spout | 1 |
| 26 | FNM0610 | Flange nut HH M06-1.0 | - |
| 27 | FBM061016 | Flange bolt HH M06-1.0x16 | - |
| 28 | DL7008 | Waste tube | 1 |
| 29 | SA3002 | Fertilizer/seed tube - front seed cup | 7 |
| 30 | DL7001-S | Seed cup distribution box - small seed (rear hopper) | 7 |
| 31 | SA10001-78 | Hex Seed box Shaft for SAYA-507 | 2 |
| 32 | CP3x70 | Cotter pin M3x70 | 14 |
| 33 | SA9005 | Tube wire clamp | 7 |
| 34 | DL7006 | Seed cup funnel | |
| 35 | DL7001-L | Seed cup distribution box - large seed (front hopper) | 7 |
| 36 | SA4019 | Clevis pin composite M10x60 | 7 |
| 37 | CP2.5x20 | Cotter pin M2.5x20 | 7 |
| 38 | SA4094 | Sprocket, large seed cups 14T | 1 |
| 39 | SA4095 | Sprocket, front hopper - upper 20T | 1 |

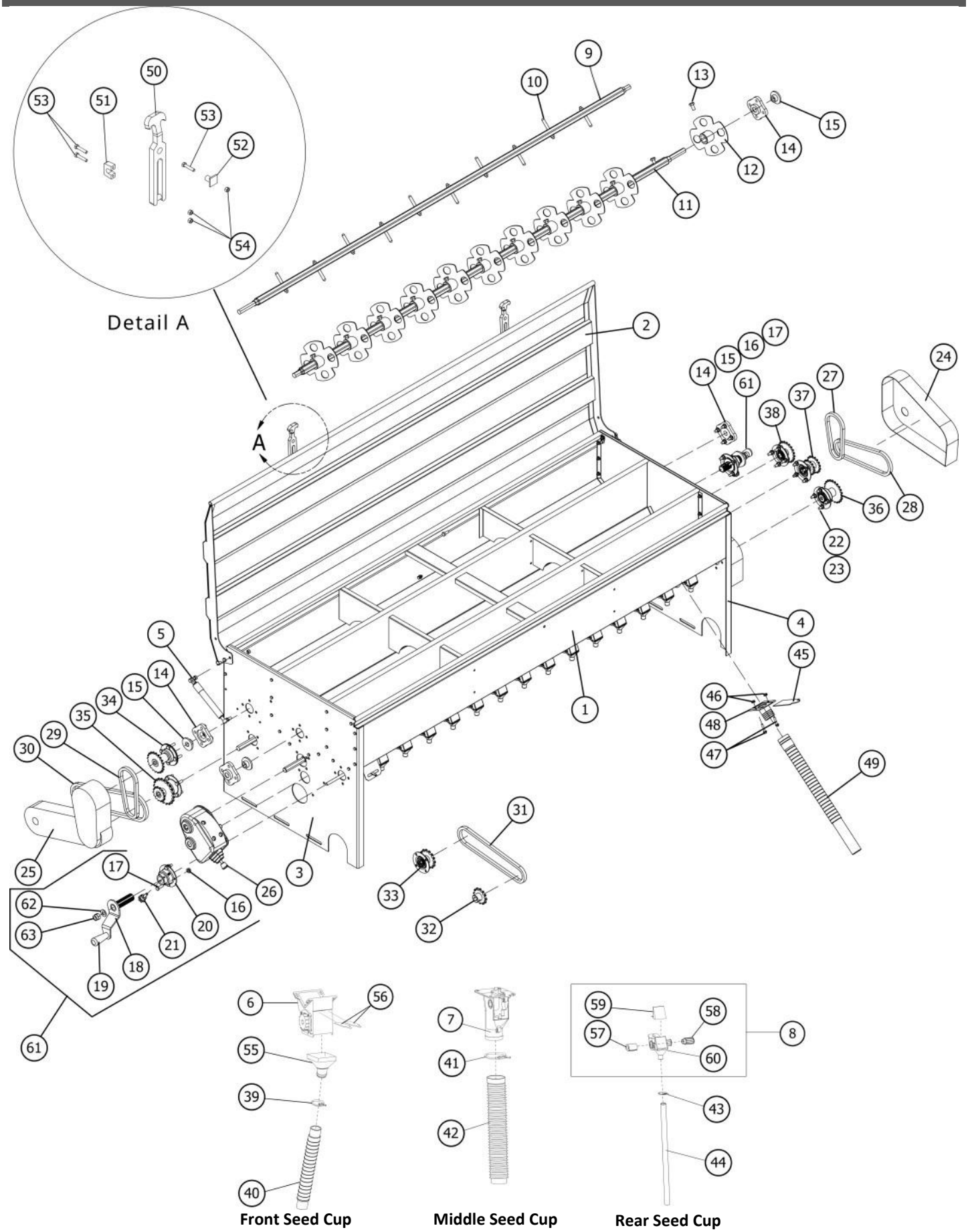
# Hopper PT507



# Hopper PT507

| Item | Part # | Description | Qty. |
|---|---|---|---|
| 40 | SA9012 | Drive sprocket, 20T | 1 |
| 41 | SA4281 | Chain, front hopper SAYA-PT507 | 1 |
| 42 | SA4282 | Chain, rear hopper SAYA-PT507 | 1 |
| 43 | SA4283 | Chain cover, hopper SAYA-PT507 | 1 |
| 44 | SA4065 | Hopper lid strap latch | 2 |
| 45 | SA4064 | Hopper lid strap retainer | 2 |
| 46 | BM040725 | Bolt HH M04-0.7x25 | 6 |
| 47 | FNM0407 | Nut flange M04-0.7 | 6 |
| 48 | BM0812540 | Bolt HH M08-1.25x40 | 2 |
| 49 | NM0610 | Nut HH M06-1.0 | - |
| 50 | DL7002 | Distribution box clamp | - |
| 51 | BM061020 | Bolt HH M06-1.0x20 | - |
| 52 | SA4022 | Flap seed cup | - |
| 53 | SA4012 | Seed box shaft, spiral spline (front seed box) | 7 |
| 54 | SA4014 | Shaft guide, seed cup - spiral spline | 7 |
| 55 | SA4015 | Shaft guide retainer - seed cup | 14 |
| 56 | SA4021 | Sheet metal screw M4x10 | |
| 57 | DL5007 | Spring clean out | 1 |
| 58 | DL5006 | Handle clean out | 1 |
| 59 | SA4030 | Flap outer | 7 |
| 60 | SA4031 | Flap inner | 7 |
| 61 | SA4013 | Seed box shaft, straight spline (rear seed box) | 7 |
| 62 | SA4029 | Shaft guide, seed cup - straight spline | 7 |
| - | MH20000 | Manual holder (not shown) | 1 |

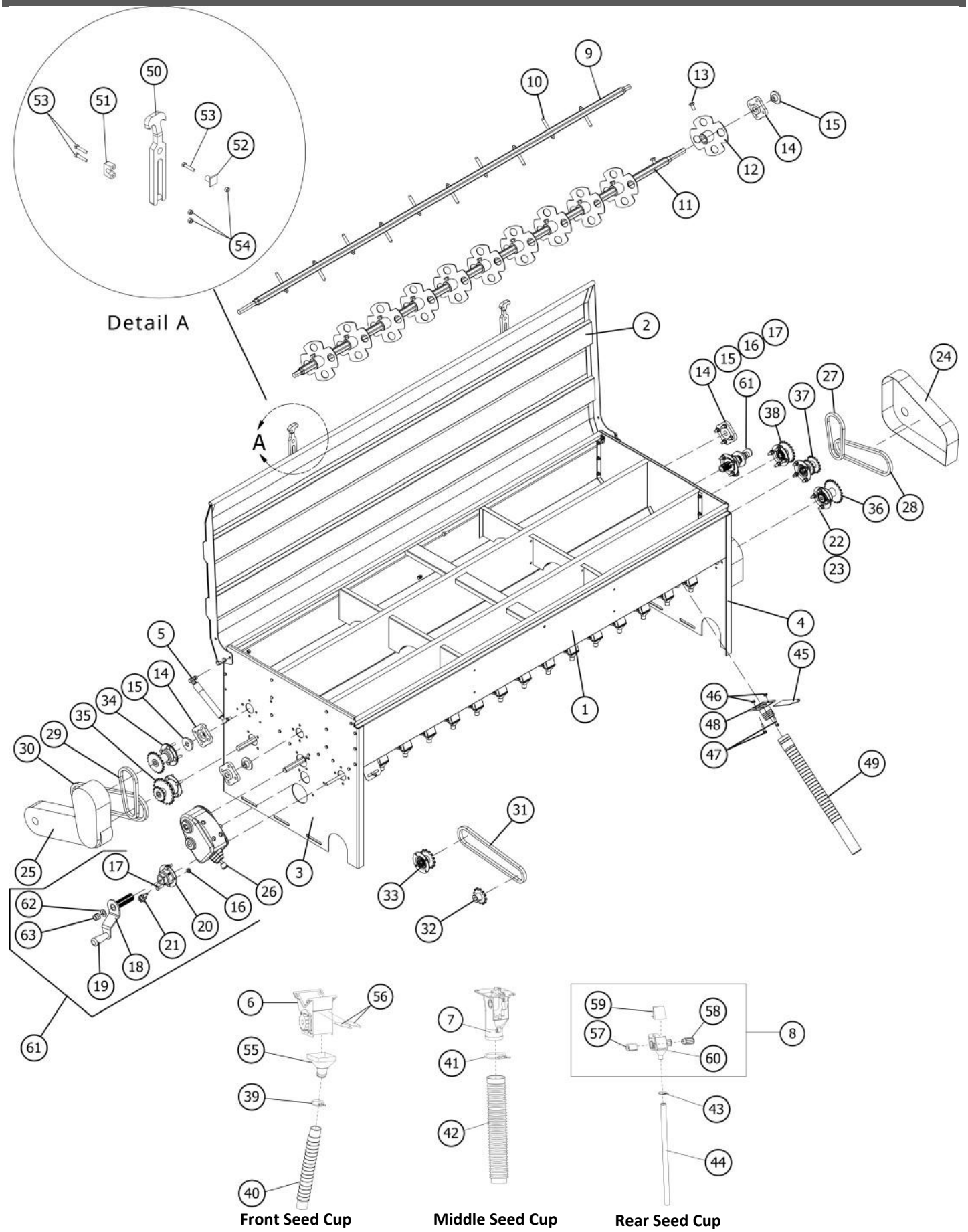
# Hopper PT907



# Hopper PT907

| Item | Part # | Description | Qty. |
|---|---|---|---|
| 1 | SA4069 | Hopper complete; SAYA-907 | 1 |
| 2 | SA4070 | Hopper lid; SAYA-907 | 1 |
| 3 | SA4071 | Hopper end plate, LH; SAYA-907 | 1 |
| 4 | SA4072 | Hopper end plate, RH; SAYA-907 | 1 |
| 5 | DL5003 | Lid piston | 2 |
| 6 | SA4073 | Seed cup, large grass seed/coarse grain | 10 |
| 7 | SA4074 | Seed cup, native grass seed | 10 |
| 8 | SA4075 | Seed cup, small precision seed complete (includes items 61,62,63,68) | 14 |
| 9 | SA9011 | Agitator fingers w/nuts | 10 |
| 10 | SA4076 | Agitator rod, disc agitator | 1 |
| 11 | SA4077 | Agitator disc | 11 |
| 12 | SA4077 | Agitator disc | 11 |
| 13 | BM101515 | Bolt HH M10-1.5x15 | 11 |
| 14 | SA9009 | Mount, agitator | 2 |
| 15 | SA9007 | Bushing, agitator | 2 |
| 16 | NM08125 | Nut HH M08-1.25 | 8 |
| 17 | BM0812530 | Bolt HH M08-1.25x30 | 8 |
| 18 | SA2005 | Handle | 2 |
| 19 | SA5005K | Spinning handle w/hardware | 2 |
| 20 | SA4020 | Handle flange | 2 |
| 21 | SA2005K | Locking knob | 2 |
| 22 | BM061012 | Bolt HH M06-1.0x12 | - |
| 23 | LNM0610 | Lock nut M06x10 | - |
| 24 | SA4284 | Chain cover RH; SAYA-PT907 | 1 |
| 25 | SA4285 | Chain cover outer LH; SAYA-PT907 | 1 |
| 26 | SA4081 | Gearbox SAYA-907 | 1 |
| 27 | SA4286 | Chain, upper RH; SAYA-PT907 | 1 |
| 28 | SA4287 | Chain, lower RH; SAYA-PT907 | 1 |
| 29 | SA4288 | Chain, upper LH; SAYA-PT907 | 1 |
| 30 | SA4289 | Chain, lower LH; SAYA-PT907 | 1 |
| 31 | SA4085 | Chain, inner | 1 |
| 32 | SA4093 | Sprocket, gearbox 12T | 1 |
| 33 | SA4094 | Sprocket, large seed cups 14T | 1 |
| 34 | SA4095 | Sprocket, front hopper - upper 20T | 1 |
| 35 | SA4096 | Sprocket, front hopper - lower 14T x 20T | 1 |
| 36 | SA4290 | Sprocket, native grass hopper - upper 22T | 1 |
| 37 | SA4291 | Sprocket, middle hopper - lower 14T x 16T | 1 |
| 38 | SA4090 | Sprocket, native grass hopper - upper 20T | 1 |
| 39 | SA9005 | Tube wire clamps | 10 |
| 40 | SA3002 | Fertilizer/seed tube - front seed cup | 10 |

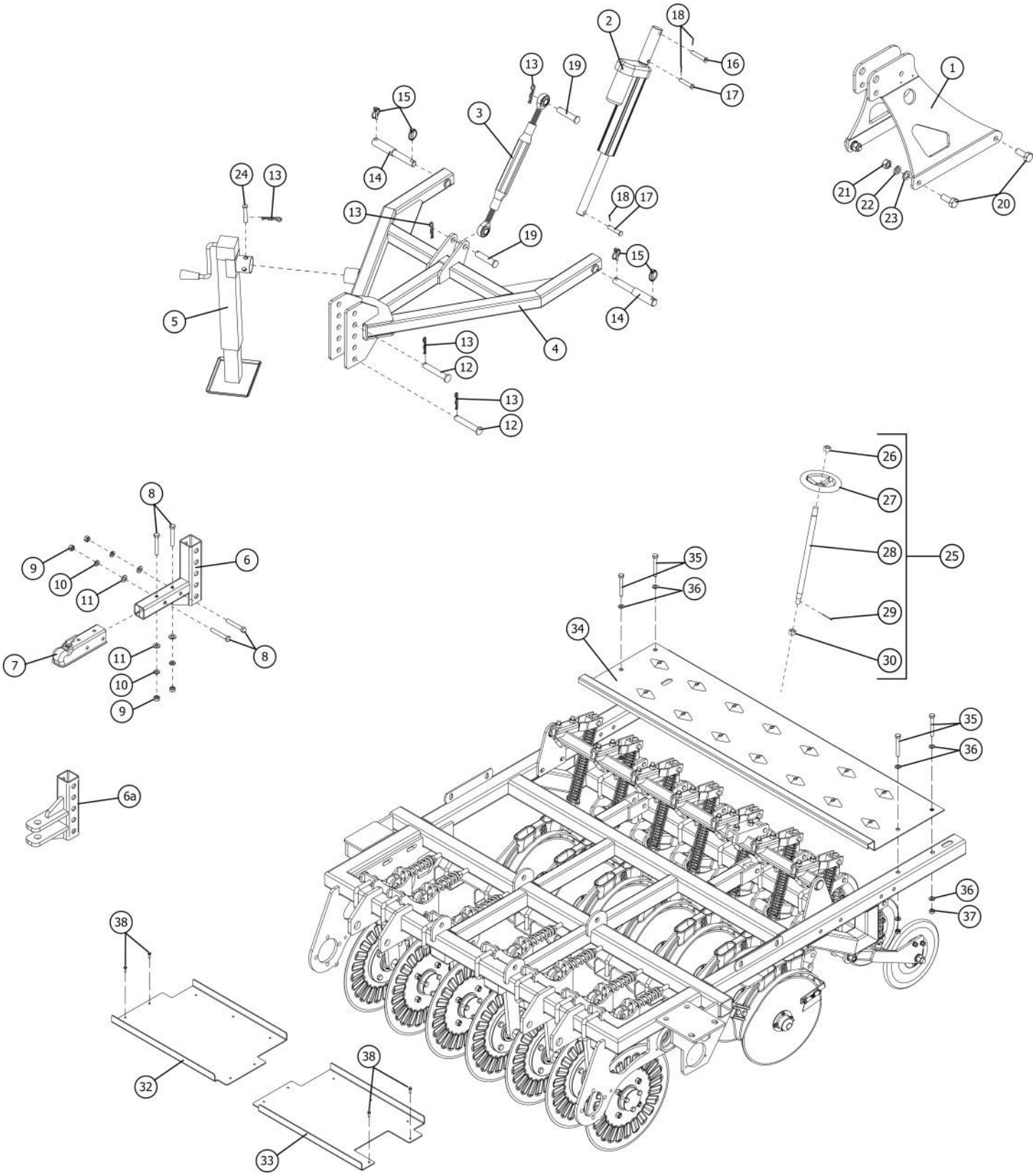
# Hopper PT907



# Hopper PT907

| Item | Part # | Description | Qty. |
|---|---|---|---|
| 41 | SA4086 | Wire clamp - middle seed cup | 10 |
| 42 | SA4087 | Seed tube - middle seed cup | 10 |
| 43 | SA4088 | Wire clamp - rear seed cup | 14 |
| 44 | SA4089 | Seed tube - rear seed cup | 14 |
| 45 | DL7007 | Waste/Seed/Fertilizer shut off flap | 2 |
| 46 | FBM061016 | Flange bolt HH M06-1.0x16 | 4 |
| 47 | FNM0610 | Flange nut HH M06-1.0 | 4 |
| 48 | DL1006 | Cleanout spout | 2 |
| 49 | DL7008 | Waste tube | 2 |
| 50 | SA4063 | Hopper lid strap | 2 |
| 51 | SA4064 | Hopper lid strap retainer | 2 |
| 52 | SA4065 | Hopper lid strap latch | 2 |
| 53 | BM040725 | Bolt HH M04-0.7x25 | 6 |
| 54 | FNM0407 | Flange nut M04-0.7 | 6 |
| 55 | SA4198 | Seed cup funnel, seed cup large grass seed; SAYA-907 | 10 |
| 56 | SA4240 | Metal Shut off flap, seed cup large grass seed; SAYA-907 | 10 |
| 57 | SA4200 | Insert, small precision seed cup | 14 |
| 58 | SA4201 | Gear, small precision seed cup | 14 |
| 59 | SA4202 | Cap, small precision seed cup | 14 |
| 60 | SA4244 | Seed cup small (housing only) | 14 |
| 61 | DL2005 | Handle complete, includes items; 16,17,18,19,20,21,62,63 | 2 |
| 62 | SA8009 | Plastic washer, agitator handle | 2 |
| 63 | LNM1420 | Self-locking nut M14-2.0 | 2 |
| - | MH20000 | Manual holder (not shown) | 1 |

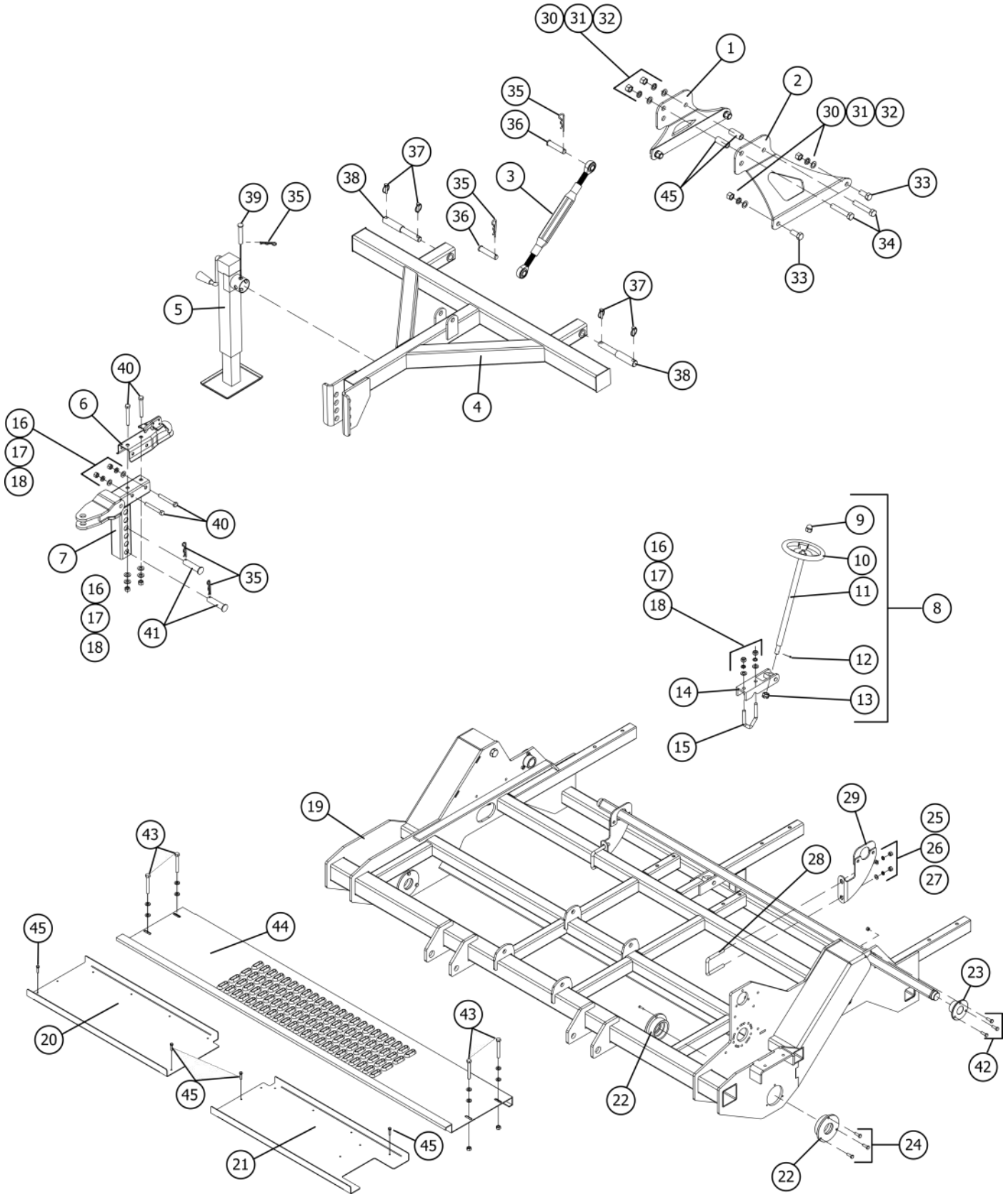
# Frame & Hitch PT505



# Frame & Hitch PT505

| Item | Part # | Description | Qty. |
|---|---|---|---|
| 1 | SA4121 | Hitch weldment SAYA-PT | 1 |
| 2 | SA4122 | Actuator | 1 |
| 3 | SA4123 | Turnbuckle | 1 |
| 4 | SA4124 | Hitch frame SAYA-PT | 1 |
| 5 | SA4125 | Jack stand | 1 |
| 6 | SA4126 | Ball hitch height adjustment (standard) | 1 |
| 6a | SA4241 | Pull type hitch SAYA-505PT (optional) | 1 |
| 7 | SA4127 | Ball hitch attachment | 1 |
| 8 | BM1217580PT | Bolt HH M12-1.75x80 Partial Thread | 4 |
| 9 | NM12175 | Nut HH M12-1.75 | 4 |
| 10 | LW12 | Washer lock M12 | 4 |
| 11 | FW12 | Washer flat M12 | 4 |
| 12 | SA4128 | Clevis pin M19x115 | 2 |
| 13 | RC4 | R-Clip M4 | 5 |
| 14 | SA4059 | Step pin Cat1/Cat2 | 2 |
| 15 | LYNPN10 | Lynch pin M10 | 4 |
| 16 | SA4243 | Clevis pin M12x65 | 1 |
| 17 | SA4130 | Clevis pin M08x55 | 2 |
| 18 | CP2.5x50 | Cotter pin M2.5x50 | 3 |
| 19 | SA8010 | Pin clevis M20x90 | 2 |
| 20 | BM182550 | Bolt HH M18-2.5x50 | 4 |
| 21 | NM1825 | Nut HH M18-2.5 | 4 |
| 22 | LW18 | Washer lock M18 | 4 |
| 23 | FW18 | Washer flat M18 | 4 |
| 24 | SA4131 | Clevis pin M10x65 | 1 |
| 25 | SA4060 | Adjustment shaft complete | 1 |
| 26 | DNM1620 | Dome (Cap) Nut - M16 x 2.0 GALV | 1 |
| 27 | SA9002 | Adjustment shaft wheel | 1 |
| 28 | SA4062 | Adjustment shaft 467mm | 1 |
| 29 | CP2.5x20 | Cotter pin | 1 |
| 30 | NM1420 | Nut HH M14-2.0 | 1 |
| 31 | SA4242 | Controller SAYA-PT505 (not shown) | 1 |
| 32 | SA4158 | Step board, RH front Saya-PT505 | 1 |
| 33 | SA4157 | Step board, LH front Saya-PT505 | 1 |
| 34 | SA4036 | Step board, rear Saya-PT505 | 1 |
| 35 | BM101580 | Bolt HH M10-1.5x 80 | 4 |
| 36 | FW10 | Washer flat M10 | 8 |
| 37 | NM1015 | Nut HH M10-1.5 | 4 |
| 38 | BMST481900 | Self-drilling screw M4.8x19 | - |

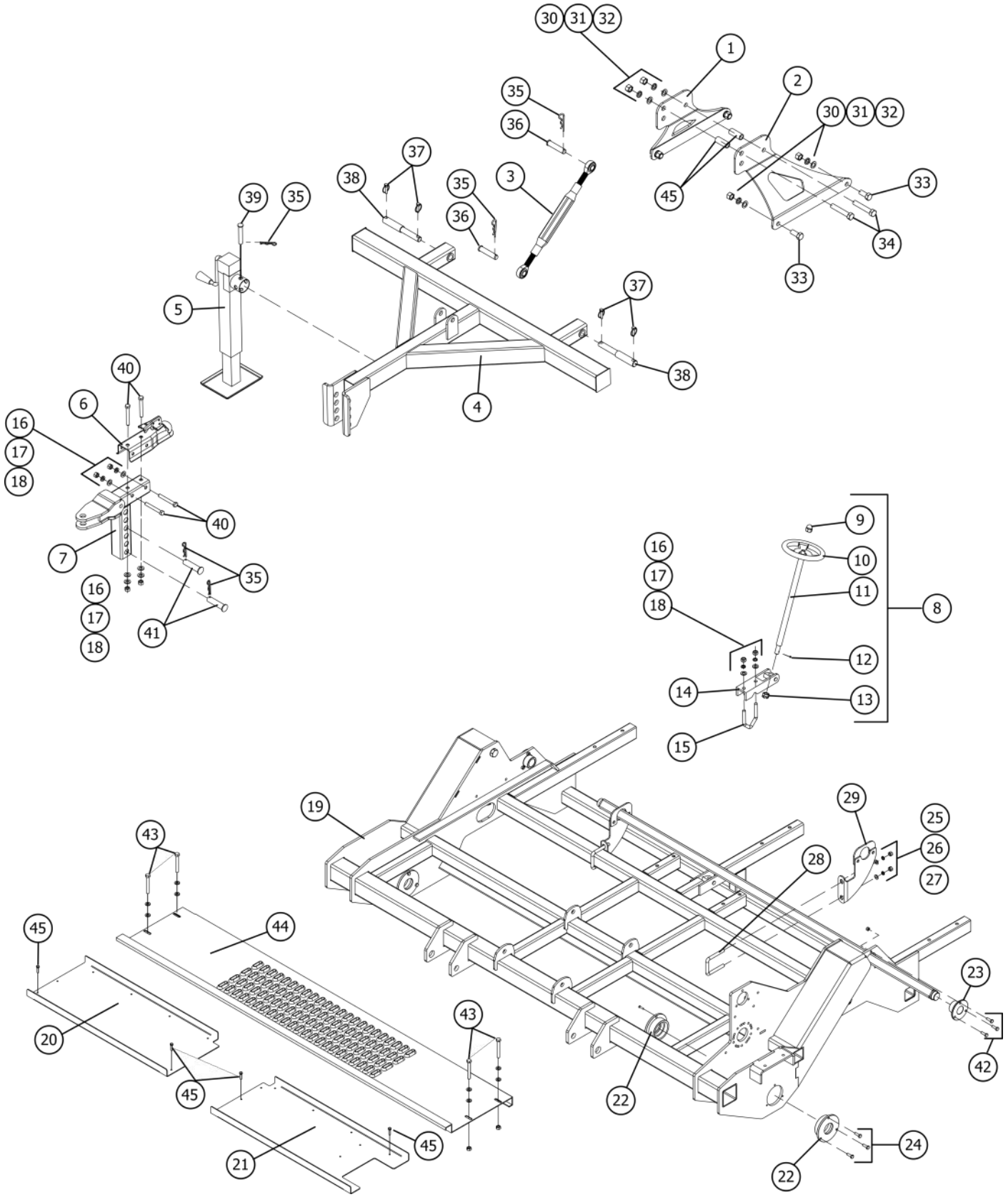
# Frame & Hitch PT507/PT907



# Frame & Hitch PT507/PT907

| Item | Part # | Description | Qty. |
|---|---|---|---|
| 1 | SA4097 | Hitch plate RH | 1 |
| 2 | SA4098 | Hitch plate LH | 1 |
| 3 | SA4123 | Turnbuckle | 1 |
| 4 | SA4292 | Hitch frame SAYA-PT507/907 | 1 |
| 5 | SA4125 | Jack stand | 1 |
| 6 | SA4293 | Ball hitch attachment | 1 |
| 7 | SA4294 | Ball hitch height adjustment SAYA-PT507/907 | 1 |
| 8 | SA4060 | Adjustment shaft complete | 1 |
| 9 | DNM1620 | Dome (cap) nut M16-2.0 galv. | 1 |
| 10 | SA9002 | Adjustment shaft wheel | 1 |
| 11 | SA4062 | Adjustment shaft 467mm | 1 |
| 12 | CP2.5x20 | Cotter pin M2.5x20 | 1 |
| 13 | NM1420 | Nut M14-2.0 | 1 |
| 14 | SA5003 | Torsion bar clamp bracket | 1 |
| 15 | SA7003 | V-bolt M12-1.75 | 1 |
| 16 | NM1215 | Nut HH M12-1.5 | 2 |
| 17 | LW12 | Washer lock M12 | 2 |
| 18 | FW12 | Washer flat M12 | 2 |
| 19 | SA4295 | Main frame SAYA-PT507/907 | 1 |
| 20 | SA4296 | Floorboard RH | 1 |
| 21 | SA4297 | Floorboard LH | 1 |
| 22 | SA4298 | Hub front | 4 |
| 23 | SA4299 | Hub rear | 2 |
| 24 | BM0812520 | Bolt HH M08-1.25x20 | 12 |
| 25 | NM1015 | Nut HH M10-1.5 | 4 |
| 26 | LW10 | Washer lock M10 | 4 |
| 27 | FW10 | Washer flat M10 | 4 |
| 28 | SA8006 | U-bolt (CHECK SIZE) | 2 |
| 29 | SA4300 | Torsion bar mount plate | 2 |
| 30 | NM1825 | Nut HH M18-2.5 | 6 |
| 31 | LW18 | Washer lock M18 | 6 |
| 32 | FW18 | Washer flat M18 | 6 |
| 33 | BM182540 | Bolt HH M18-2.5x40 | 4 |
| 34 | BM1825100 | Bolt HH M18-2.5x100 | 2 |
| 35 | RC4 | R-clip M4 | 5 |
| 36 | SA8010 | Pin clevis M20x90 | 2 |
| 37 | LYNPN10 | Lynch pin M10 | 4 |
| 38 | SA4059 | Step pin cat1/Cat2 | 2 |
| 39 | SA4131 | Clevis pin M10x65 | 1 |
| 40 | BM1217590 | Bolt HH M12-1.75x90 | 4 |

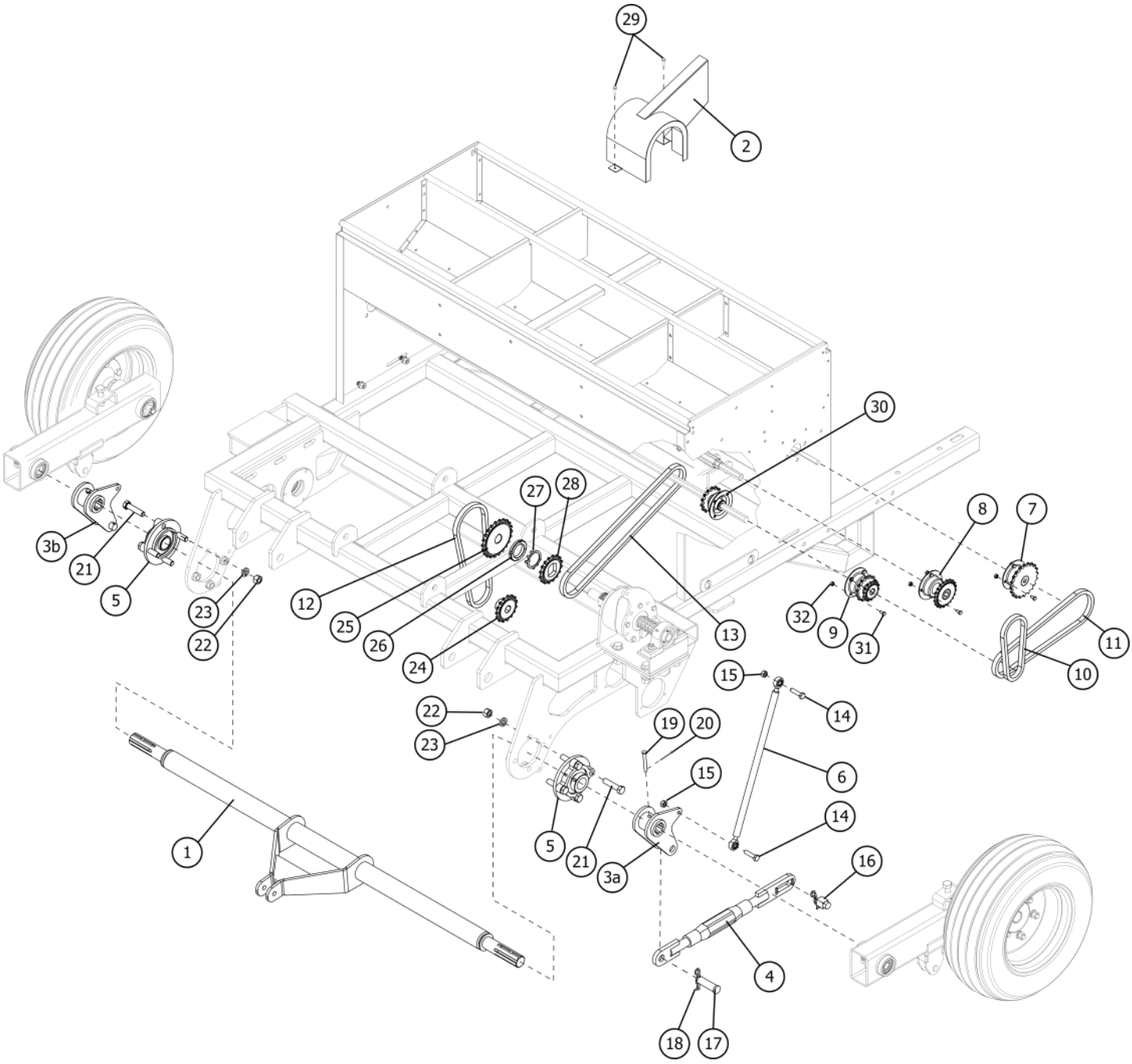
# Frame & Hitch PT507/PT907



# Frame & Hitch PT507/PT907

| Item | Part # | Description | Qty. |
|---|---|---|---|
| 41 | SA4128 | Clevis pin M19x115 | 2 |
| 42 | BM0812525 | Bolt HH M08-1.25x25 | 6 |
| 43 | BM101580 | Bolt HH M10-1.5x80 | 4 |
| | FW10 | Washer flat M10 | 8 |
| | LW10 | Washer lock M10 | 8 |
| | NM1015 | Nut HH M10-1.5 | 4 |
| 44 | SA4042 | Step board, rear | 1 |
| 45 | BMST481900 | Self-drilling screw M4.8x19 | 16 |

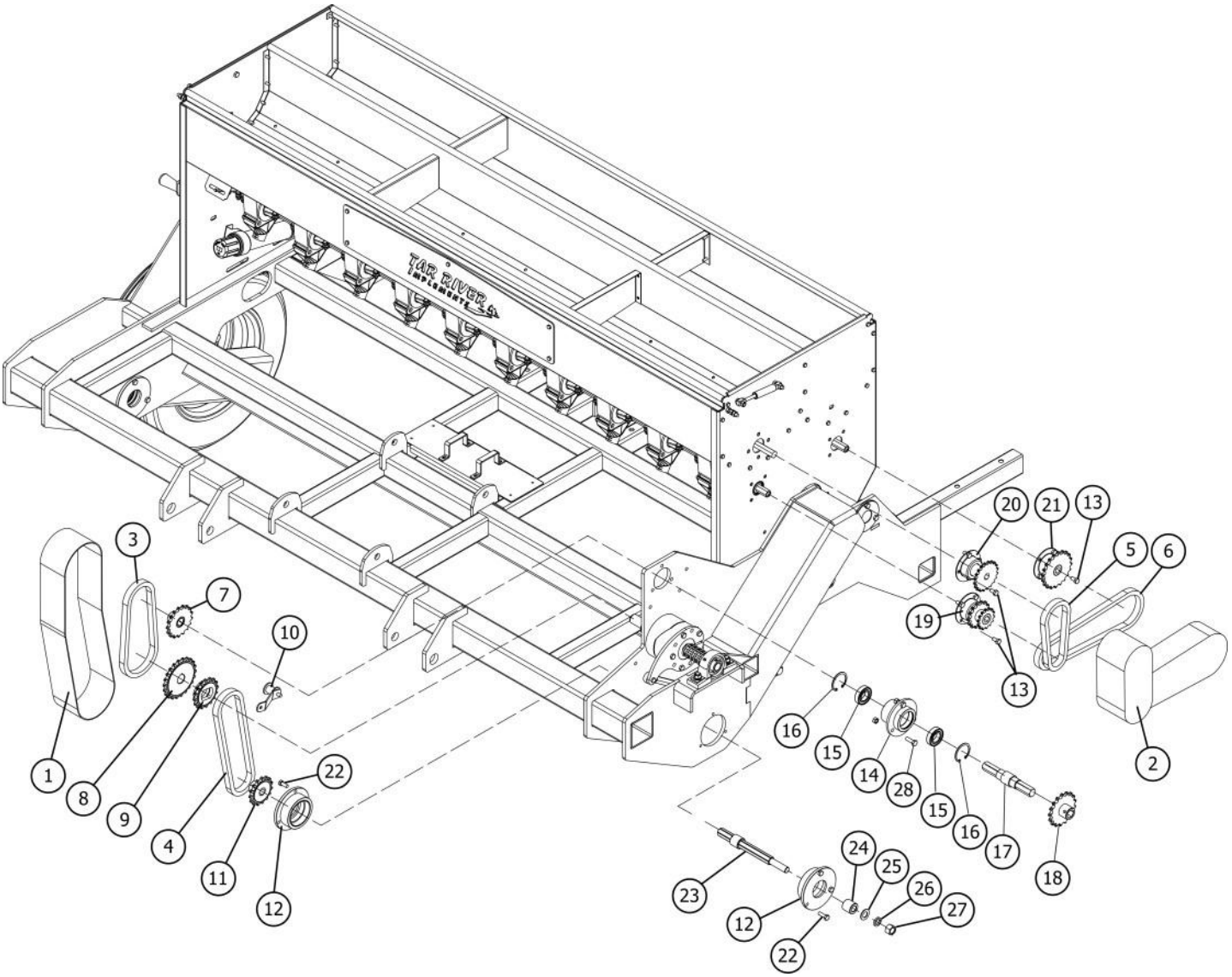
# Drive Train PT505



# Drive Train PT505

| Item | Part # | Description | Qty. |
|---|---|---|---|
| 1 | SA4132 | Actuator arm | 1 |
| 2 | SA4133 | Clutch shield | 1 |
| 3a | SA4134 | Pivot arm LH | 1 |
| 3b | SA4135 | Pivot arm RH | 1 |
| 4 | SA4136 | Turnbuckle wheel arm | 2 |
| 5 | SA4137 | Actuator arm mount | 2 |
| 6 | SA4138 | Clutch linkage | 1 |
| 7 | SA9012 | Drive sprocket, agitator 20T | 1 |
| 8 | SA4095 | Sprocket, #50 roller chain, 21T | 1 |
| 9 | SA4096 | Sprocket, #50 roller chain, 14Tx14T | 1 |
| 10 | SA4139 | Chain, agitator SAYA-PT | 1 |
| 11 | SA4140 | Chain, rear hopper SAYA-PT | 1 |
| 12 | SA4141 | Chain, clutch SAYA-PT | 1 |
| 13 | SA4142 | Chain, front hopper SAYA-PT | 1 |
| 14 | BM101540 | Bolt HH M10-1.5x40 | 2 |
| 15 | NM1015 | Nut HH M10-1.5 | 2 |
| 16 | SA4143 | Slide, turnbuckle | 2 |
| 17 | SA8010 | Pin clevis M20x90 | 2 |
| 18 | RC4 | R-clip M4 | 2 |
| 19 | CP0865 | Clevis pin M08x65 | 2 |
| 20 | CP3x40 | Cotter pin M3x40 | 2 |
| 21 | BM142060 | Bolt HH M14-2.0x60 | 8 |
| 22 | NM1420 | Nut HH M14-2.0 | 8 |
| 23 | LW14 | Washer lock M14 | 8 |
| 24 | SA4206 | Sprocket 15T | 1 |
| 25 | SA4207 | Sprocket, 22T | 1 |
| 26 | SNM4215 | Nut spanner M42-1.5 | 1 |
| 27 | SNW42 | Washer spanner nut M42 | 1 |
| 28 | SA4208 | Sprocket clutch 16T | 1 |
| 29 | BMST481900 | Self-drilling screw M4.8x19 | 2 |
| 30 | SA4094 | Sprocket, 14T | 1 |
| 31 | BM061012 | Bolt HH M06-1.0x12 | - |
| 32 | NM0610 | Nut HH M06-1.0 | - |

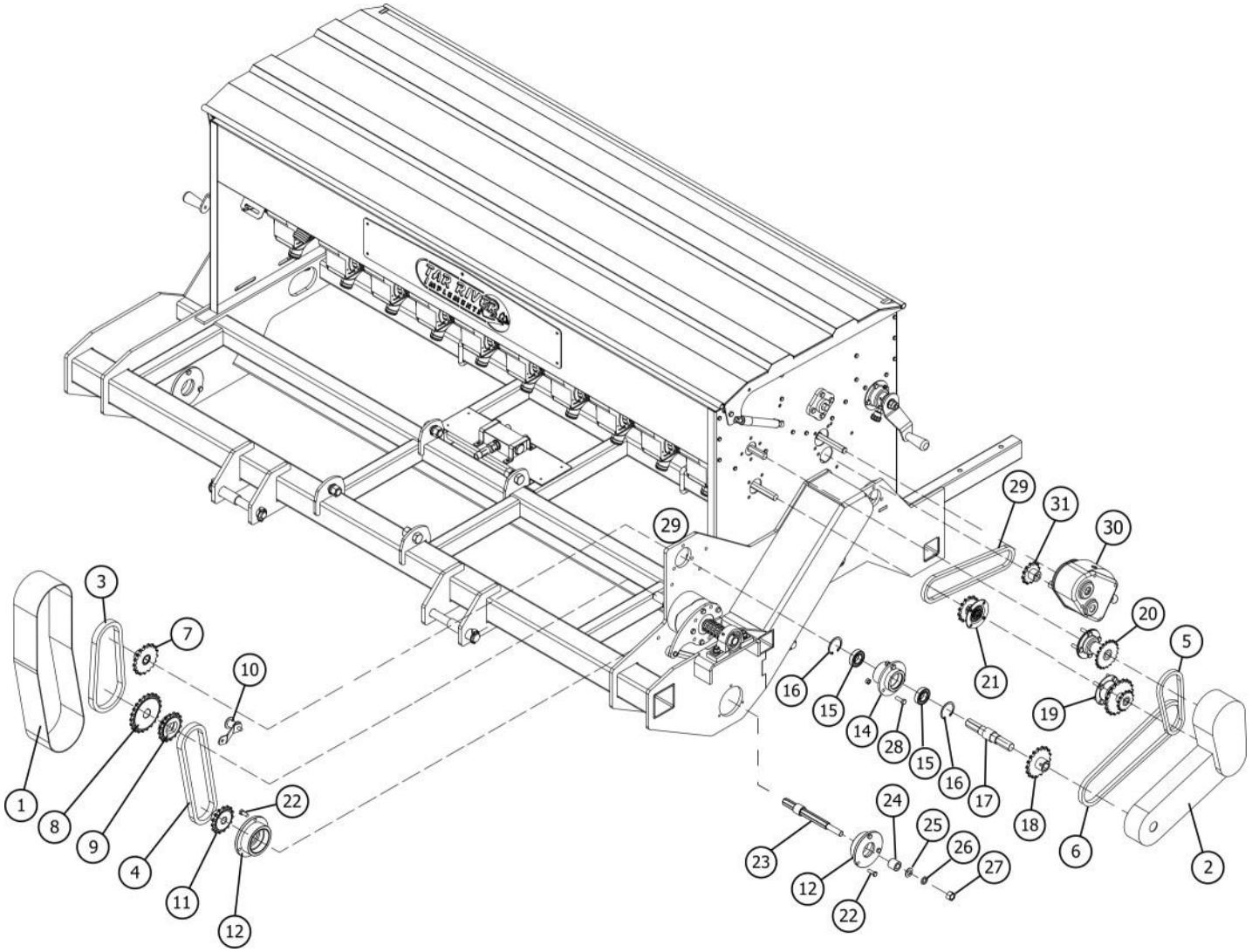
# Drive Train PT507



# Drive Train PT507

| Item | Part # | Description | Qty. |
|---|---|---|---|
| 1 | SA4301 | Inner belt shield SAYA-PT507/PT907 | 1 |
| 2 | SA4302 | Outer belt shield SAYA-PT507 | 1 |
| 3 | SA4303 | Chain inside, upper | 1 |
| 4 | SA4304 | Chain inside, lower | 1 |
| 5 | SA4305 | Chain front seed cups | 1 |
| 6 | SA4306 | Chain rear seed cups | 1 |
| 7 | SA4307 | Gear inside, upper | 1 |
| 8 | SA4308 | Gear inside, clutch - large | 1 |
| 9 | SA4309 | Gear inside, clutch - small | 1 |
| 10 | SA4310 | Chain guide | 1 |
| 11 | SA4311 | Gear inside, lower | 1 |
| 12 | SA4312 | Hub, wheel arm | 4 |
| 13 | BM0812516 | Bolt HH M08-1.25x16 | 9 |
| 14 | SA4313 | Hub, drive shaft | 1 |
| 15 | B6005 2RS | Bearing 6005-2RZ | 2 |
| 16 | SRI-47 | Snap ring, internal M47 | 2 |
| 17 | SA4314 | Drive shaft SAYA-PT507/PT907 | 1 |
| 18 | SA4315 | Gear, drive shaft SAYA-PT507/PT907 | 1 |
| 19 | SA4095 | Sprocket, front hopper - upper 20T | 1 |
| 20 | SA4094 | Sprocket, large seed cups 14T | 1 |
| 21 | SA9012 | Drive sprocket, 20T | 1 |
| 22 | BM0812520 | Bolt HH M08-1.25x20 | 12 |
| 23 | SA4317 | Lower clutch shaft | 1 |
| 24 | SA4318 | Bushing | 1 |
| 25 | FW16 | Washer flat M16 | 1 |
| 26 | LW16 | Washer lock M16 | 1 |
| 27 | NM1615 | Nut HH M16-1.5 | 1 |
| 28 | BM0812525 | Bolt HH M08-1.25x25 | 6 |

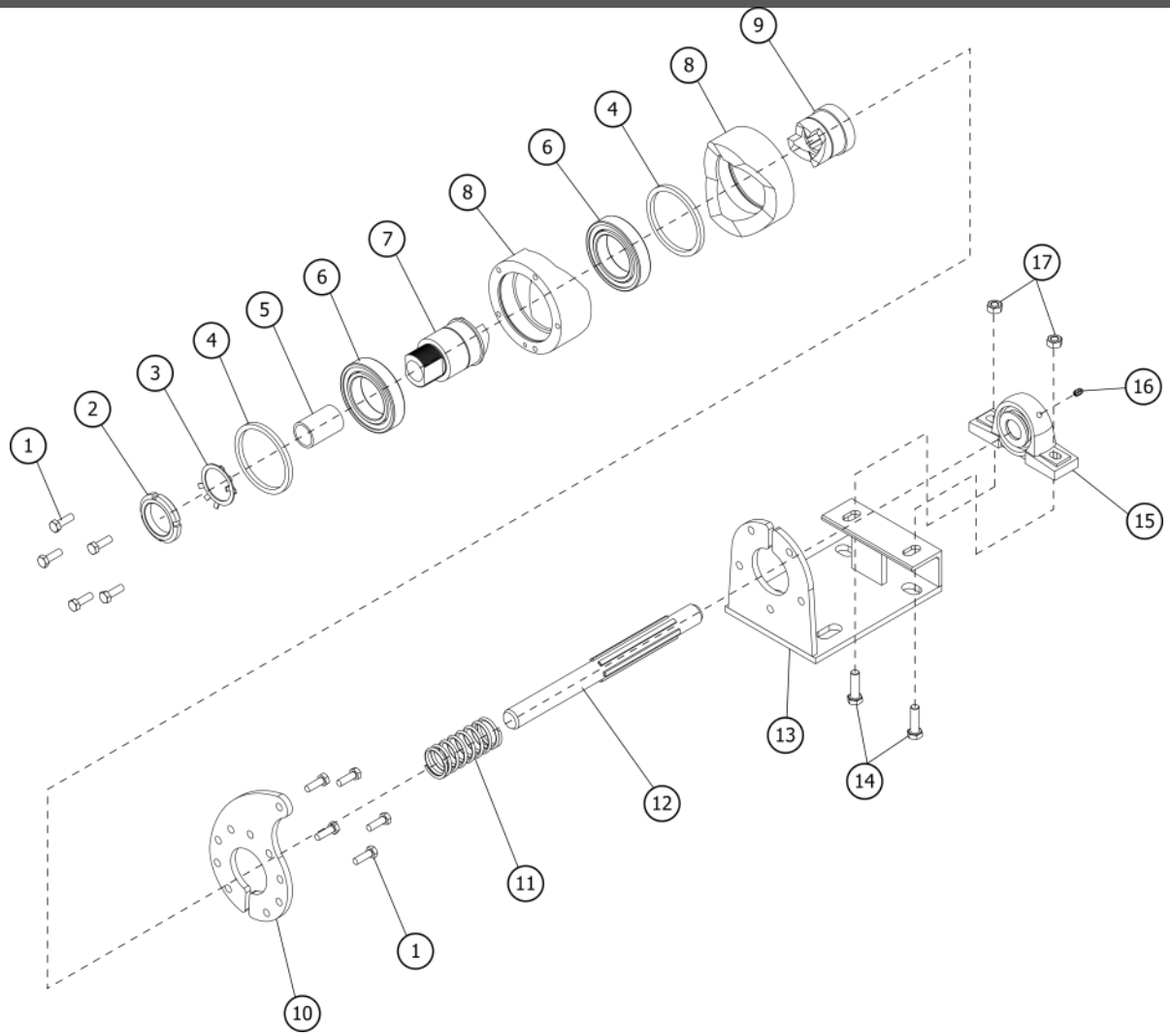
# Drive Train PT907



# Drive Train PT907

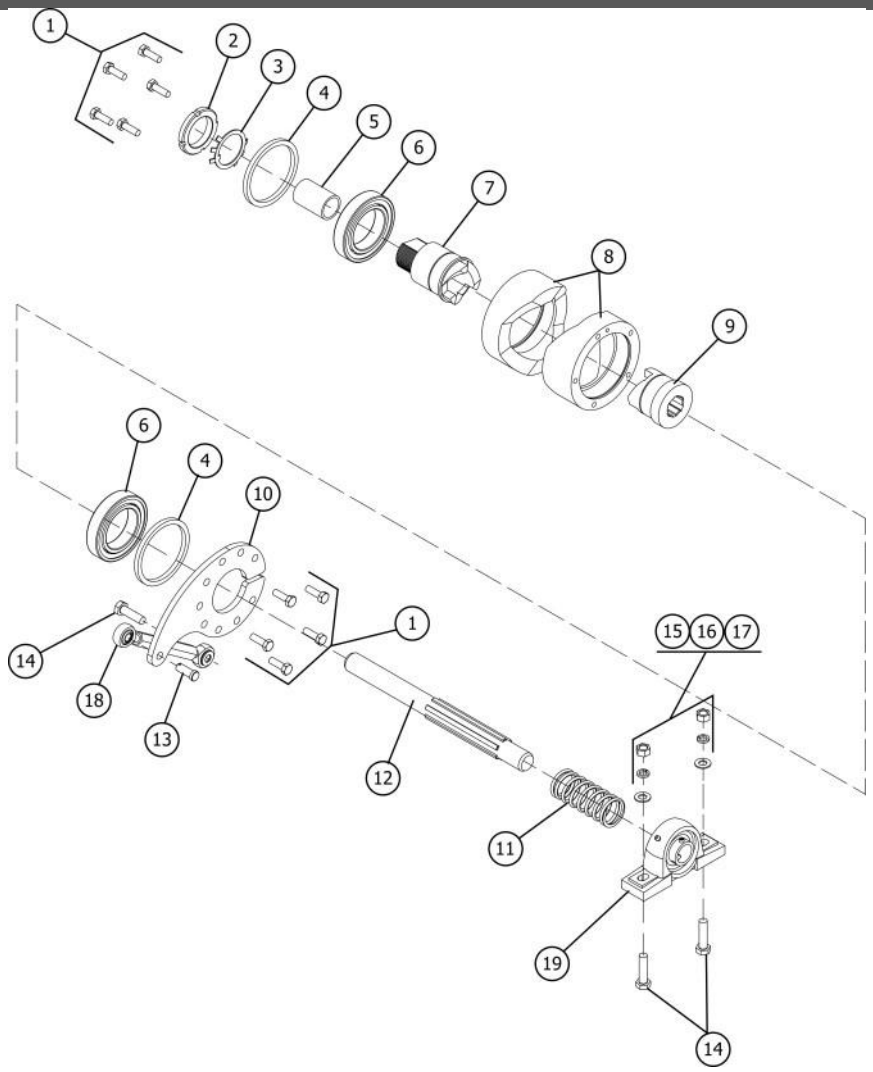
| Item | Part # | Description | Qty. |
|---|---|---|---|
| 1 | SA4301 | Inner belt shield SAYA-PT507/PT907 | 1 |
| 2 | SA4316 | Outer belt shield SAYA-PT907 | 1 |
| 3 | SA4303 | Chain inside, upper | 1 |
| 4 | SA4304 | Chain inside, lower | 1 |
| 5 | SA4305 | Chain front, seed cups | 1 |
| 6 | SA4306 | Chain rear, seed cups | 1 |
| 7 | SA4307 | Gear inside, upper | 1 |
| 8 | SA4308 | Gear inside, clutch - large | 1 |
| 9 | SA4309 | Gear inside, clutch - small | 1 |
| 10 | SA4310 | Chain guide | 1 |
| 11 | SA4311 | Gear inside, lower | 1 |
| 12 | SA4312 | Hub, wheel arm | 4 |
| 13 | BM0812516 | Bolt HH M08-1.25x16 | 9 |
| 14 | SA4313 | Hub, drive shaft | 1 |
| 15 | B6005 2RS | Bearing 6005-2RZ | 2 |
| 16 | SRI-47 | Snap ring, internal M47 | 2 |
| 17 | SA4314 | Drive shaft SAYA-PT507/PT907 | 1 |
| 18 | SA4315 | Gear, drive shaft SAYA-PT507/PT907 | 1 |
| 19 | SA4096 | Sprocket, front hopper - lower 14T x 20T | 1 |
| 20 | SA4095 | Sprocket, front hopper - upper 20T | 1 |
| 21 | SA4094 | Sprocket, large seed cups 14T | 1 |
| 22 | BM0812520 | Bolt HH M08-1.25x20 | 12 |
| 23 | SA4317 | Lower clutch shaft | 1 |
| 24 | SA4318 | Bushing | 1 |
| 25 | FW16 | Washer flat M16 | 1 |
| 26 | LW16 | Washer lock M16 | 1 |
| 27 | NM1615 | Nut HH M16-1.5 | 1 |
| 28 | BM0812525 | Bolt HH M08-1.25x25 | 6 |
| 29 | SA4085 | Chain, inner | 1 |
| 30 | SA4081 | Gearbox SAYA-907 | 1 |
| 31 | SA4093 | Sprocket, gearbox 12T | 1 |

# Clutch PT505



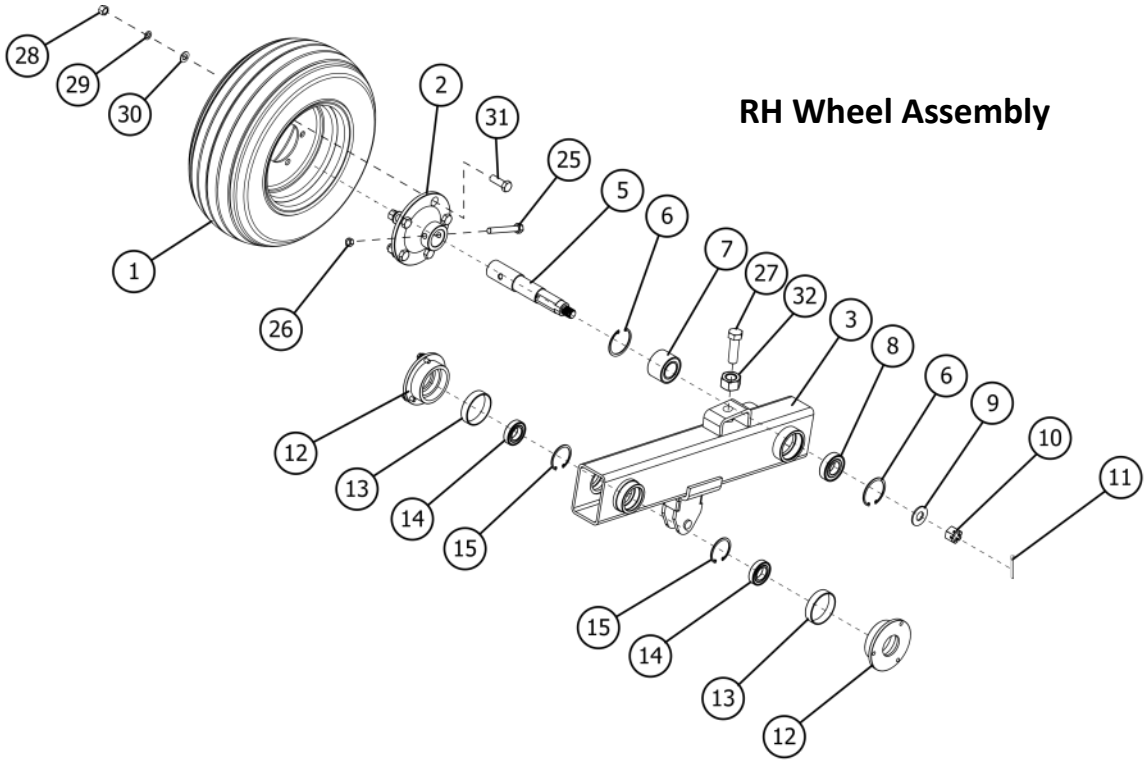

| Item | Part # | Description | Qty. |
|---|---|---|---|
| 1 | BM0812525 | Bolt HH M08-1.25x25 | 10 |
| 2 | SLNM4215 | Spanner nut Ø42mm-1.5 | 1 |
| 3 | SA4210 | Retaining lock Ø42mm | 1 |
| 4 | SA4165 | Clutch ring | 2 |
| 5 | SA4166 | Clutch spacer | 1 |
| 6 | B6011 | Bearing 6011-2RZ | 2 |
| 7 | SA4167 | Threaded coupling | 1 |
| 8 | SA4168 | Slip clutch | 2 |
| 9 | SA4169 | Coupling | 1 |
| 10 | SA4170 | Clutch engagement plate | 1 |
| 11 | SA4171 | Clutch spring | 1 |
| 12 | SA4172 | Clutch shaft | 1 |
| 13 | SA7173 | Clutch mount | 1 |
| 14 | BM101535 | Bolt HH M10-1.5x35 | 2 |
| 15 | UCFL205 | UCFL205 - Mounted Bearing w/ Housing | 1 |
| 16 | GN061S | Grease Nipple- M6 - 1.0 Straight | 1 |
| 17 | NM1015 | Nut HH M10-1.5 | 2 |

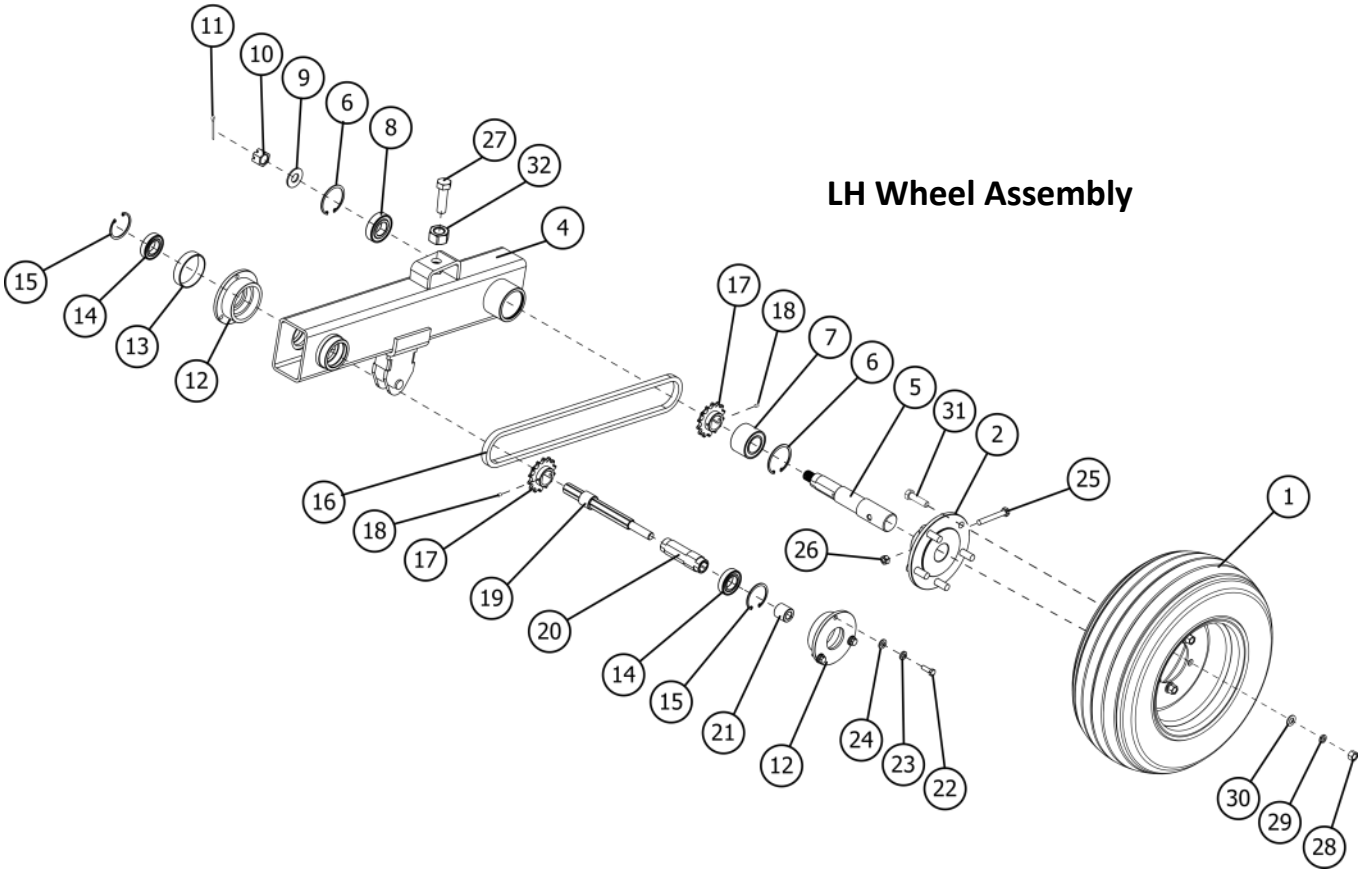
# Clutch PT505/507




| Item | Part # | Description | Qty. |
|---|---|---|---|
| 1 | BM0812525 | Bolt HH M08-1.25x25 | 10 |
| 2 | SLNM4215 | Spanner nut Ø42mm-1.5 | 1 |
| 3 | SA4210 | Retaining lock Ø42mm | 1 |
| 4 | SA4165 | Clutch ring | 2 |
| 5 | SA4166 | Clutch spacer | 1 |
| 6 | B6011 | Bearing 6011-2RZ | 2 |
| 7 | SA4167 | Threaded coupling | 1 |
| 8 | SA4168 | Slip clutch | 2 |
| 9 | SA4169 | Coupling | 1 |
| 10 | SA4170 | Clutch engagement plate | 1 |
| 11 | SA4171 | Clutch spring | 1 |
| 12 | SA4172 | Clutch shaft | 1 |
| 13 | | | |
| 14 | BM101535 | Bolt HH M10-1.5x35 | 2 |
| 15 | UCFL205 | UCFL205 - Mounted Bearing w/ Housing | 1 |
| 16 | GN061S | Grease Nipple- M6 - 1.0 Straight | 1 |
| 17 | NM1015 | Nut HH M10-1.5 | 2 |

# Wheel Assemblies PT505

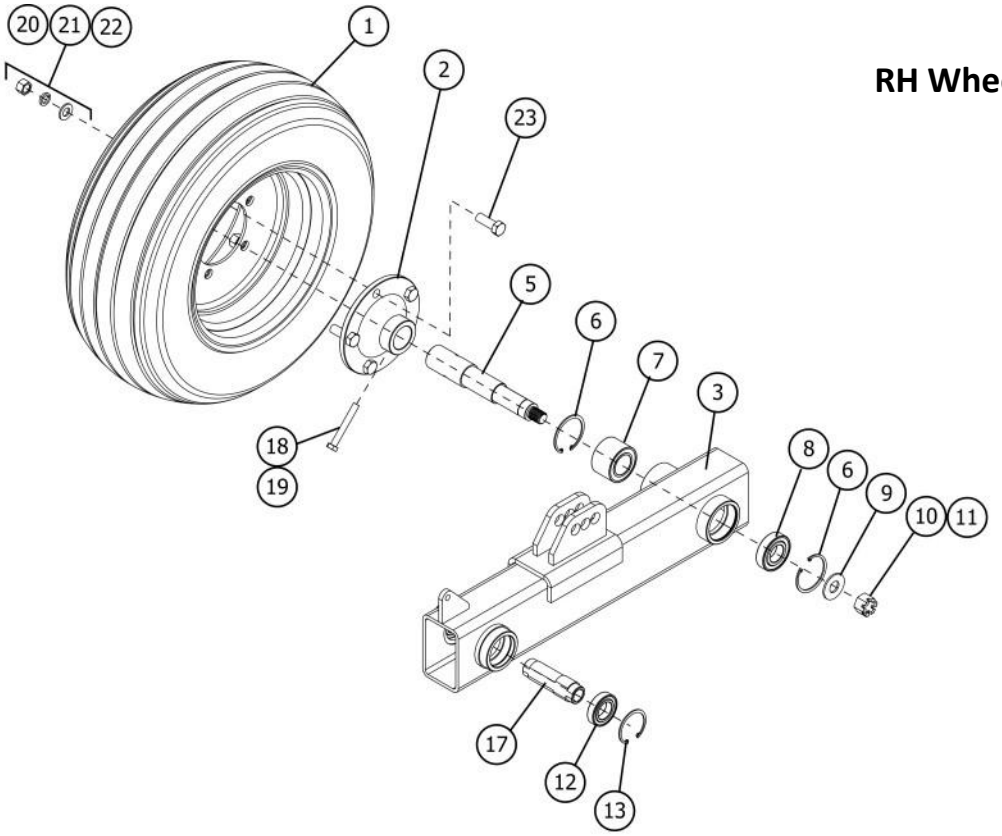


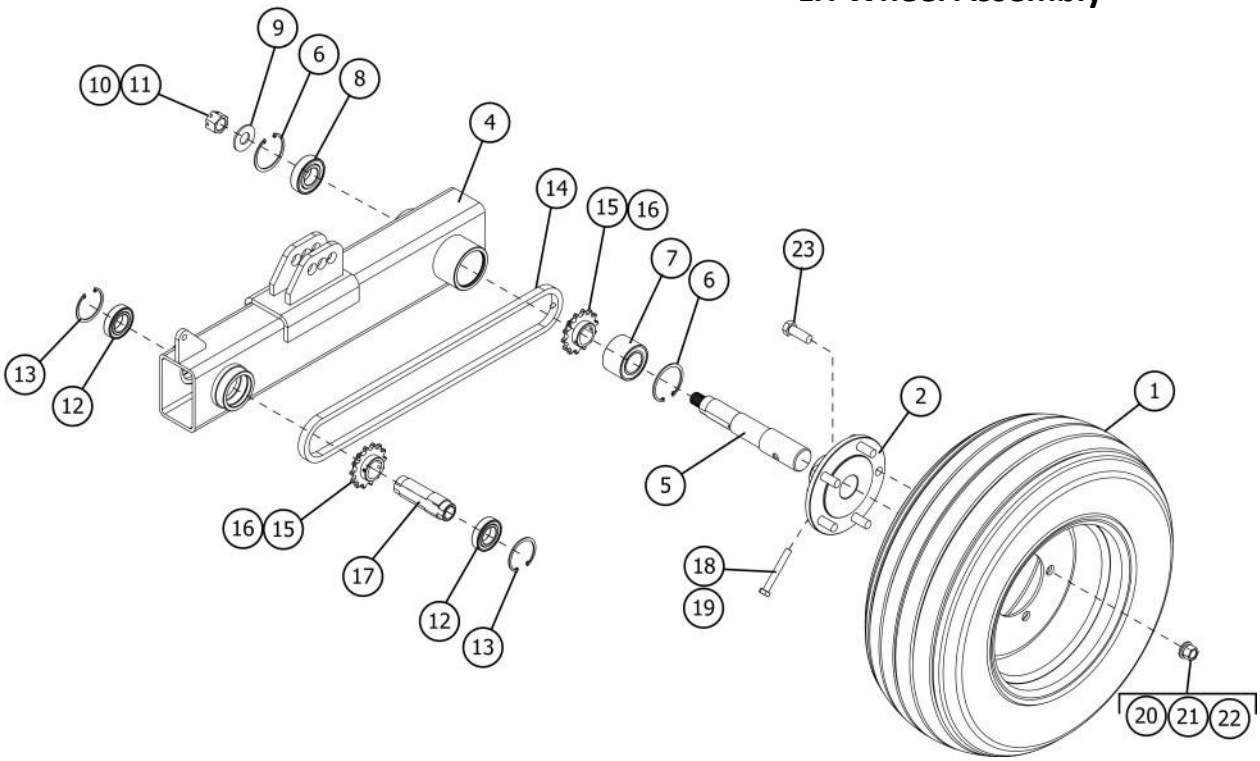
# Wheel Assemblies PT505

| Item | Part # | Description | Qty. |
|---|---|---|---|
| 1 | SA4144 | Tire & wheel complete SAYA-PT | 2 |
| 2 | SA4145 | Wheel hub SAYA-PT | 2 |
| 3 | SA4146 | Swing arm RH | 1 |
| 4 | SA4147 | Swing arm LH | 1 |
| 5 | SA4148 | Axle | 2 |
| 6 | SA4149 | Snap ring internal RRH 62 | 4 |
| 7 | B60072RS | Bearing 6007 2RS) | 2 |
| 8 | B6206 2RS | Bearing 6206 2RS | 2 |
| 9 | FW20 | Washer flat M20 | 2 |
| 10 | CNM2015 | Nut castle M20-1.5 | 2 |
| 11 | CP4x40 | Cotter pin M4 x 40 | 2 |
| 12 | SA4150 | Wheel arm hub | 4 |
| 13 | SA4151 | Wheel arm sleeve | 3 |
| 14 | B6006 2RS | Bearing 6006 2RS | 4 |
| 15 | SA4152 | Snap ring internal RRH 55 | 4 |
| 16 | SA4153 | Chain, wheel arm | 1 |
| 17 | SA4209 | Sprocket, wheel arm 14T | 2 |
| 18 | BWC10118 | Set screw, cup point, M06-1.0X16 | 2 |
| 19 | SA4154 | Swing arm shaft | 1 |
| 20 | SA4155 | Swing arm shaft coupling | 1 |
| 21 | SA4156 | Swing arm shaft bushing | 1 |
| 22 | BM0812525 | Bolt HH M08-1.25x25 | 12 |
| 23 | LW08 | Washer lock M08 | 12 |
| 24 | FW08 | Washer flat M08 | 12 |
| 25 | BM101575 | Bolt HH M10-1.5x75 | 10 |
| 26 | LNM1015 | Nut HH locking M10-1.5 | 10 |
| 27 | BM182580 | Bolt HH M18-2.5x80 | 2 |
| 28 | NM1415 | Nut HH M14-1.5 | 10 |
| 29 | LW14 | Washer lock M14 | 10 |
| 30 | FW14 | Washer flat M14 | 10 |
| 31 | BM141540 | Bolt HH M14-1.5x40 | 10 |
| 32 | NM1825 | Nut HH M18-2.5 | 2 |

# Wheel Assemblies PT507/PT907




**RH Wheel Assembly**

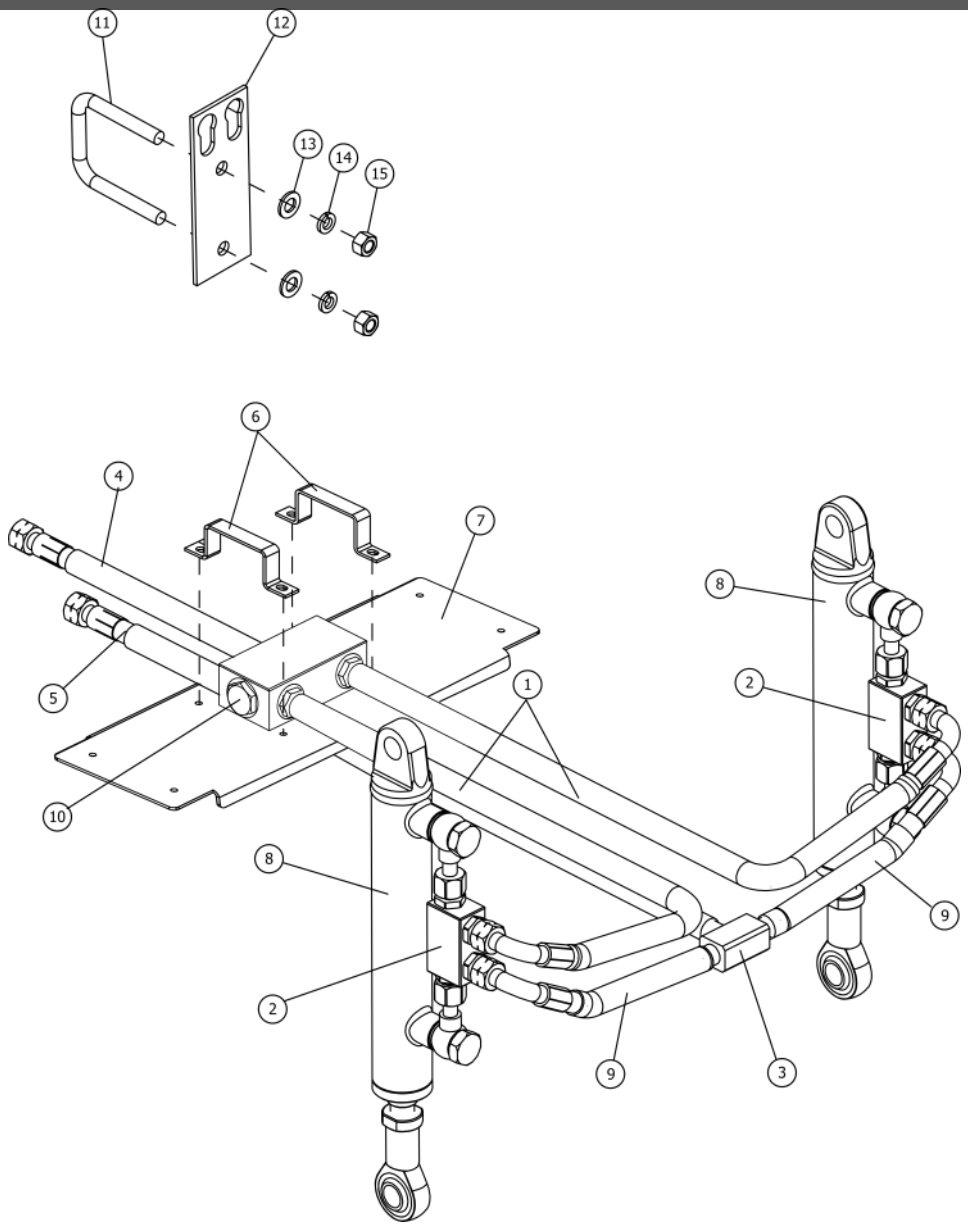



**LH Wheel Assembly**

# Wheel Assemblies PT507/PT907

| Item | Part # | Description | Qty. |
|---|---|---|---|
| 1 | SA4144 | Tire & wheel complete SAYA-PT | 2 |
| 2 | SA4145 | Wheel hub SAYA-PT | 2 |
| 3 | SA4248 | Swing arm RH SAYA-PT507/907 | 1 |
| 4 | SA4249 | Swing arm LH SAYA-PT507/907 | 1 |
| 5 | SA4148 | Axle | 2 |
| 6 | SA4149 | Snap ring internal RRH 62 | 4 |
| 7 | B60072RS | Bearing 6007 2RS) | 2 |
| 8 | B6206 2RS | Bearing 6206 2RS | 2 |
| 9 | FW20 | Washer flat M20 | 2 |
| 10 | CNM2015 | Nut castle M20-1.5 | 2 |
| 11 | CP4x40 | Cotter pin M4 x 40 | 2 |
| 12 | B6006 2RS | Bearing 6006 2RS | 4 |
| 13 | SA4152 | Snap ring internal RRH 55 | 4 |
| 14 | SA4153 | Chain, wheel arm | 1 |
| 15 | SA4209 | Sprocket, wheel arm 14T | 2 |
| 16 | BWC10118 | Set screw, cup point, M06-1.0X16 (not shown) | 2 |
| 17 | SA4155 | Swing arm shaft coupling | 1 |
| 18 | BM101575 | Bolt HH M10-1.5x75 | 10 |
| 19 | LNM1015 | Nut HH locking M10-1.5 (not shown) | 10 |
| 20 | NM1415 | Nut HH M14-1.5 | 10 |
| 21 | LW14 | Washer lock M14 | 10 |
| 22 | FW14 | Washer flat M14 | 10 |
| 23 | BM141540 | Bolt HH M14-1.5x40 | 10 |

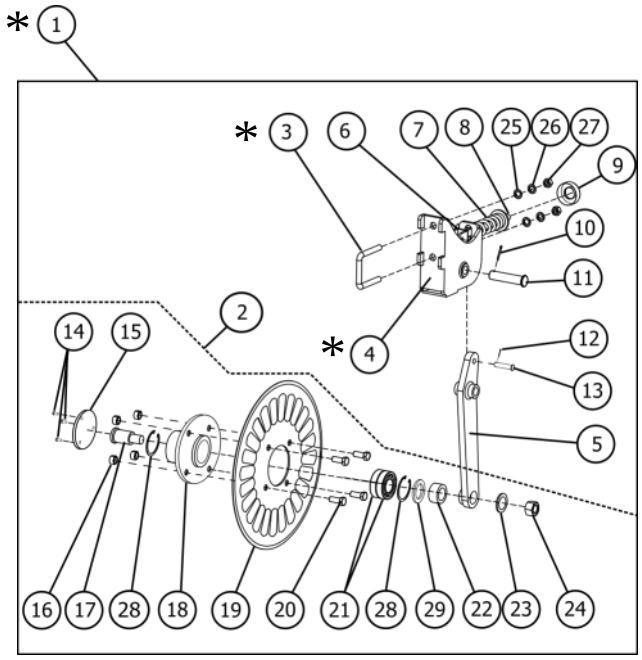
# Hydraulics PT507/907



# Hydraulics PT507/907

| Item | Part # | Description | Qty. |
|---|---|---|---|
| 1 | SA4319 | Hydraulic hose, cylinder - base end | 2 |
| 2 | SA4320 | Hydraulic block cylinder | 2 |
| 3 | SA4321 | Hydraulic tee | 1 |
| 4 | SA4322 | Hydraulic hose, pressure - tractor | 1 |
| 5 | SA4323 | Hydraulic hose, return - tractor | 1 |
| 6 | SA4324 | Clamps, relief valve | 2 |
| 7 | SA4325 | Mounting plate, relief valve | 1 |
| 8 | SA4326 | Hydraulic cylinder SAYA-PT507 | 2 |
| 9 | SA4327 | Hydraulic hose, cylinder - rod end | 2 |
| 10 | SA4328 | Hydraulic relief valve | 1 |
| 11 | SA4329 | U-bolt, hydraulic rest | 1 |
| 12 | SA4330 | Hydraulic hose rest | 1 |
| 13 | FW14 | Washer flat M14 | 2 |
| 14 | LW14 | Washer lock M14 | 2 |
| 15 | NM1415 | Nut HH M14-1.5 | 2 |

# Coulter Wheel - All Models

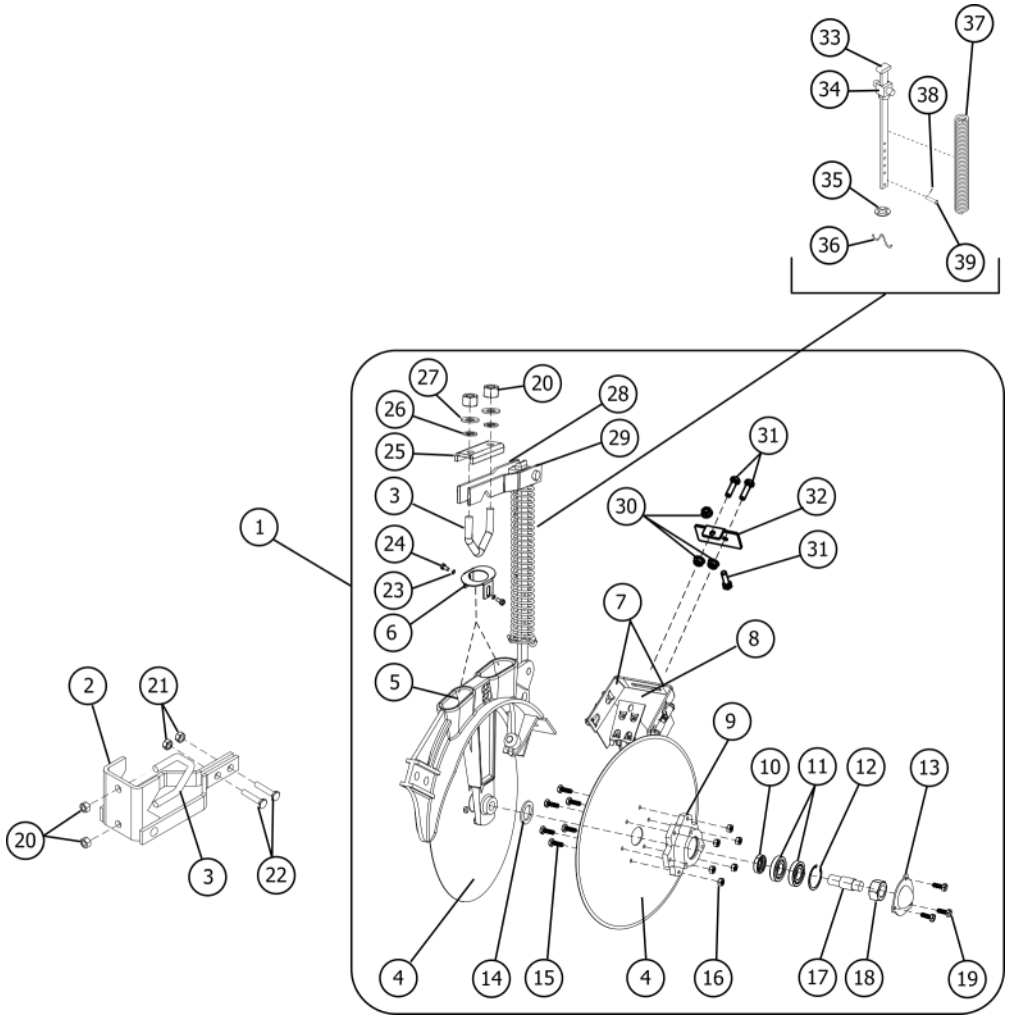



*** NOTE: When ordering items, 1, 3 and 4, make sure to order correct parts for your model machine. The PT907 uses different parts than the PT505&507. See next page for parts breakdown.**

# Coulter Wheel - All Models

| Item | Part # | Description | Qty. |
|---|---|---|---|
| 1 | SA8008R | Coulter disc assembly with arm – right (PT505&PT507) | - |
| | SA4341R | Coulter disc assembly RH, SAYA-PT907 | - |
| | SA8008L | Coulter disc assembly with arm - left (PT505&PT507) | - |
| | SA4341L | Coulter disc assembly LH, SAYA-PT907 | - |
| 2 | SA8007 | Coulter disc w/o arm | 10 |
| 3 | SA8006 | U-bolt (PT505&PT507) | 10 |
| | SA4369 | U-bolt coulter support SAYA-PT907 | 10 |
| 4 | SA8001 | Coulter support bracket (PT505&PT507) | 10 |
| | SA4370 | Coulter support bracket SAYA-PT907 | 10 |
| 5 | SA8000 | Coulter support arm | 10 |
| 6 | SA8005 | Coulter spring arm | 10 |
| 7 | SA8004 | Coulter spring | 10 |
| 8 | LNM1620 | Self locking nut M16-2.0 | 10 |
| 9 | SA4008 | Cap | 10 |
| 10 | CP5x40 | Cotter pin M5x40 | 10 |
| 11 | SA8010 | Lower hitch pin 20x90 | 10 |
| 12 | CP3x35 | Cotter pin M3x35 | 10 |
| 13 | SA4010 | Clevis pin M10x35 | 10 |
| 14 | BM061012 | Bolt HH M06-1.0x12 | 30 |
| 15 | SA9013 | Cover | 10 |
| 16 | LNM12175 | Nut locking M12-1.75 | 40 |
| 17 | SA8011 | Special bolt | 10 |
| 18 | SA8003 | Coulter bearing housing | 10 |
| 19 | SA8002 | Coulter disc | 10 |
| 20 | BM1217535 | Bolt HH M12-1.75x35 | 40 |
| 21 | B6206 2RS | Bearing 6206 2RS | 20 |
| 22 | SA9008 | Spacer M30x42x9 | 10 |
| 23 | FW20 | Washer flat M20 | 10 |
| 24 | LNM2025 | Nut lock M20-2.5 | 10 |
| 25 | FW14 | Washer flat M14 | 20 |
| 26 | LW14 | Washer lock M14 | 20 |
| 27 | NM1420 | Nut HH M14-2.0 | 20 |
| 28 | SRI-60 | Snap ring internal M60 | 10 |
| 29 | SA4239 | Spacer nylon 5x39x62 | 20 |

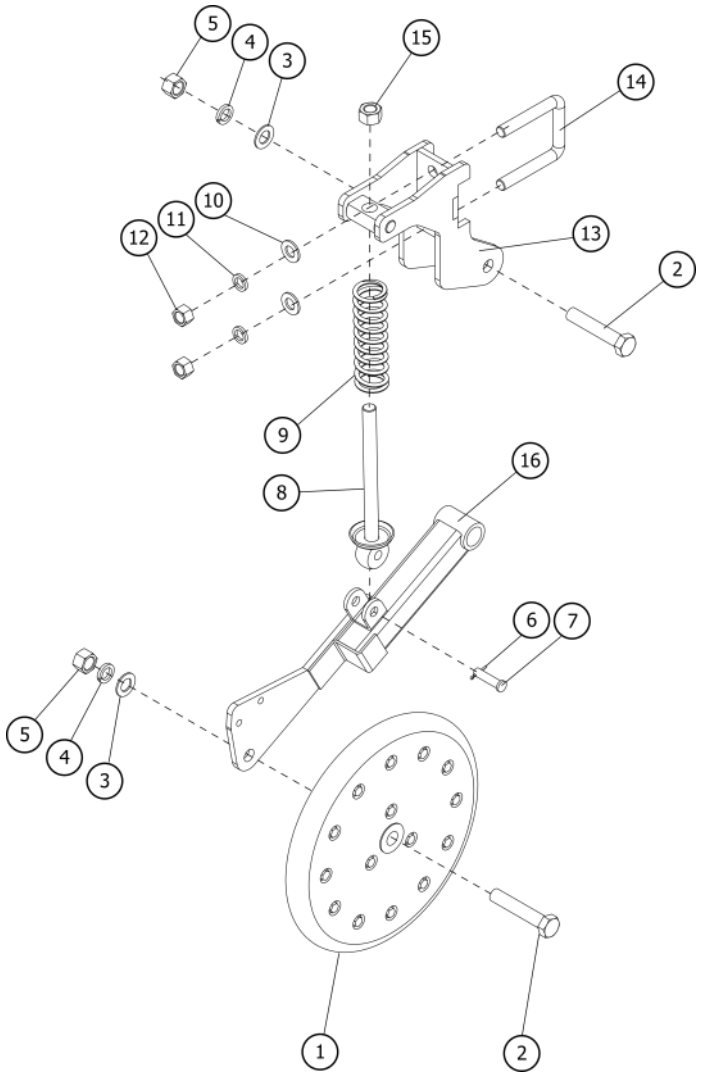
# Disc Wheel - All Models



# Disc Wheel - All Models

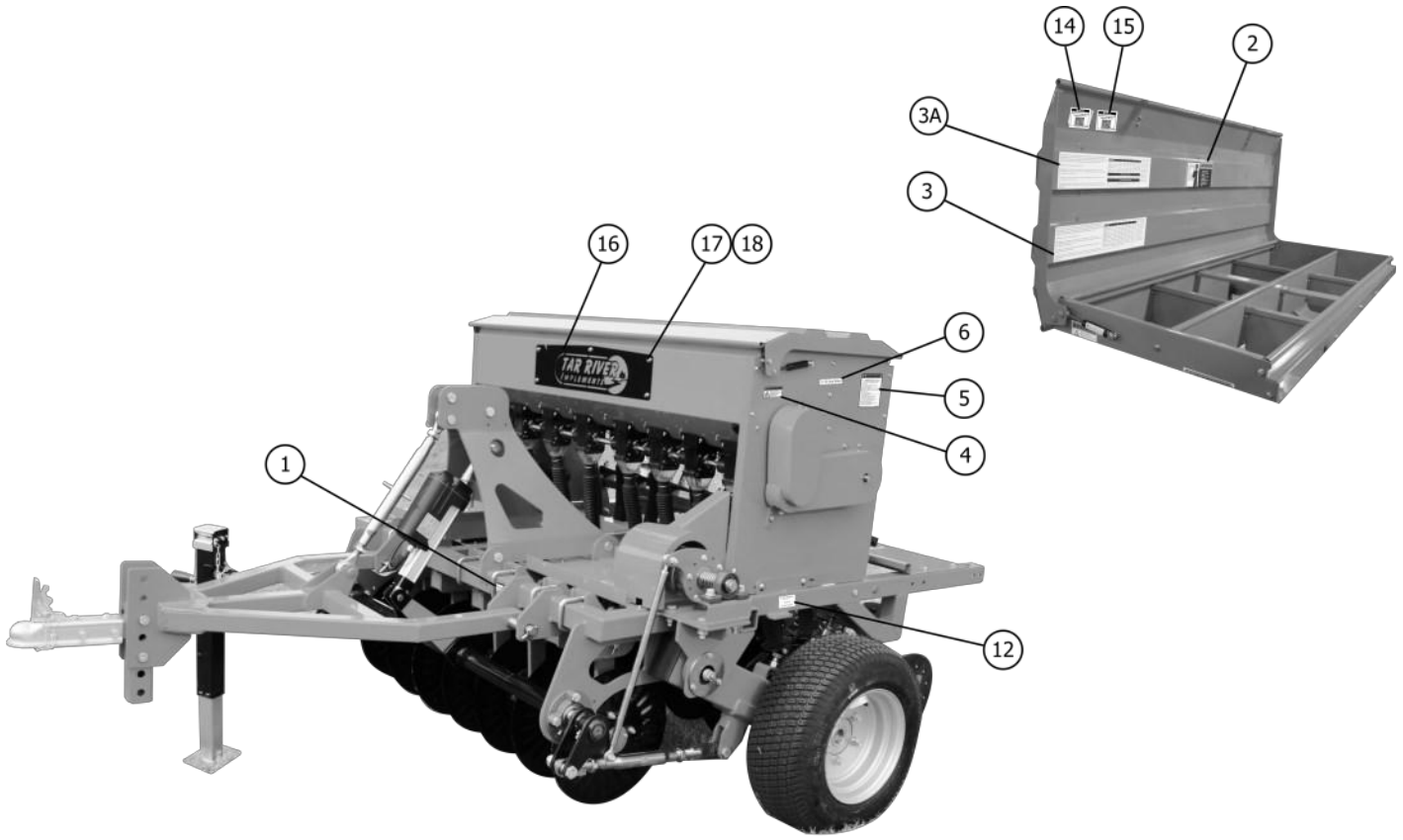
| Item | Part # | Description | Qty. |
|---|---|---|---|
| 1 | SA7001F | Disc assembly complete, front | 7 |
| 2 | SA6002 | Disc support bracket short, front | 7 |
| 3 | SA7003 | V-bolt M12x1.75 | 14 |
| 4 | SA6004 | Disc, single | 14 |
| 5 | SA7006 | Seed drill casting, front | 7 |
| 6 | SA3001 | Seed tube retainer | 7 |
| 7 | DL6007 | External scraper | 7 |
| 8 | DL6006 | Internal scraper | 7 |
| 9 | SA6005 | Disc support bearing | 14 |
| 10 | OS203207 | Oil seal - M20 x 32 x 7 | 14 |
| 11 | B60042RS | Bearing 6004 2RS | 14 |
| 12 | SRI-45 | Snap ring - internal - M45 | 14 |
| 13 | SA6009 | Bearing grease cap | 14 |
| 14 | FW16 | Washer flat M16 | 14 |
| 15 | BM061025 | Bolt HH M06-1.0x25 | 84 |
| 16 | NM0610 | Nut HH M06-1.0 | 84 |
| 17 | SA4027 | Stud LH, disc assembly | 7 |
| | SA4028 | Stud RH, disc assembly | 7 |
| 18 | TNM1620L | Thin hex nut M16-2.0 LH thread (for SA4027 LH stud only) | 7 |
| | TNM1620R | Thin hex nut M16-2.0 RH thread (for SA4028 RH stud only) | 7 |
| 19 | BM061012 | Bolt HH M06-1.0x12 | 36 |
| 20 | NM1420 | Nut HH M14-2.0 | 28 |
| 21 | NM12175 | Nut HH M12-1.75 | 14 |
| 22 | BM1217550 | Bolt HH M12-1.75x50 | 14 |
| 23 | FW08 | Washer flat M08 | 14 |
| 24 | BM0812510 | Bolt HH M08-1.25x10 | 14 |
| 25 | SA6003 | Disc support | 7 |
| 26 | LW12 | Washer lock M12 | 14 |
| 27 | FW12 | Washer flat M12 | 14 |
| 28 | SA7004L | Top coulter support bracket, left | 7 |
| 29 | SA7004R | Top coulter support bracket, right | 7 |
| 30 | FNM08125 | Flanged nut M08-1.25 | 21 |
| 31 | BM0812520 | Bolt HH M08-1.25x20 | 21 |
| 32 | SA6011 | Scraper mount bracket | 7 |
| 33 | SA4023 | Damper rod | 7 |
| 34 | SA4024 | Damper guide | 7 |
| 35 | SA4025 | Star washer | 7 |
| 36 | SA4026 | Retainer clip | 7 |
| 37 | SA7002 | Disc spring | 7 |
| 38 | CP2.5x20 | Cotter pinM2.5x20 | 7 |
| 39 | SA6010 | Pin, clevis M6x40 | 7 |

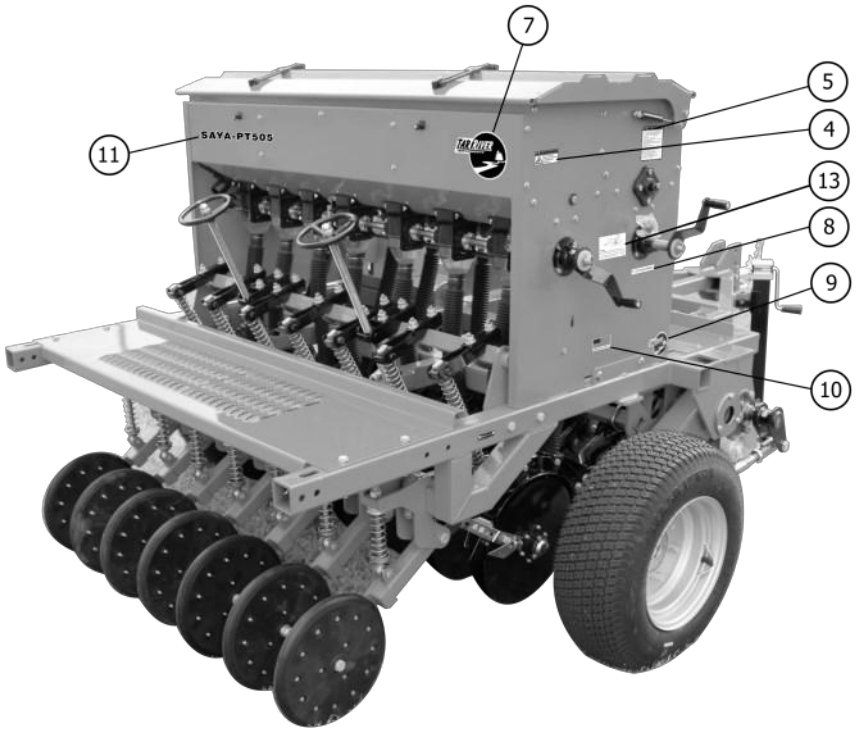
# Press Wheel - All Models




| Item | Part # | Description | Qty. |
|---|---|---|---|
| 1 | SA4159 | Press wheel | 7 |
| 2 | BM162085 | Bolt HH M16-2.0x85 | 14 |
| 3 | FW16 | Washer flat M16 | 14 |
| 4 | LW16 | Washer lock M16 | 14 |
| 5 | NM1620 | Nut M16-2.0 | 14 |
| 6 | SA4160 | Clevis pin M10 x 40 | 7 |
| 7 | CP2.5x20 | Cotter pin M2.5x 20 | 7 |
| 8 | SA4161 | Press wheel rod | 7 |
| 9 | SA4162 | Press wheel spring | 7 |
| 10 | FW14 | Washer flat M14 | 14 |
| 11 | LW14 | Washer lock M14 | 14 |
| 12 | NM1420 | Nut HH M14-2.0 | 14 |
| 13 | SA4163 | Press wheel bracket | 7 |
| 14 | SA8006 | U-Bolt | 7 |
| 15 | SNM1620 | Nut stover M16-2.0 | 7 |
| 16 | SA4164 | Press wheel arm | 7 |

# Decals All Models



# Decals

| Item | Part # | Description | Qty. |
|---|---|---|---|
| 1 | RT-1005 | Decal Warning, “To prevent serious injury or death” | 1 |
| 2 | D1004 | Decal Warning, “Chemicals” (***Note: see LH inside of hopper lid***) | 1 |
| 3 | D1224F | Decal “Front Hopper (***Note: see RH inside of hopper lid***) | 1 |
| 3A | D1224R | Decal “Rear Hopper (***Note: see RH inside of hopper lid***) | 1 |
| 4 | RT1004E | Decal Warning, “Do not open” | 2 |
| 5 | RT1004D | Decal Warning, “To prevent serious injury or death” | 2 |
| 6 | - | Decal Gear Ratio “12-40” | 1 |
| 7 | RT-1016 | Decal Logo, “Tar River Implements” | 1 |
| 8 | - | Decal Gear Ratio “11-26” | 1 |
| 9 | Decal1013 | Decal Logo, “Tar River Mfg.” | 1 |
| 10 | D1309 | Decal “Assembled in the USA” | 1 |
| 11 | SAYA-PT505 | Decal Model #, SAYA-PT505 | 1 |
| | SAYA-PT507 | Decal Model #, SAYA-PT507 | 1 |
| | SAYA-PT907 | Decal Model #, SAYA-PT907 | |
| 12 | - | Decal Serial Tag | 1 |
| 13 | D1316 | Decal Adjustment Handle | 1 |
| 14 | D1345 | Decal QR Code SAYA-PT505 No-Till Drill Press Wheel Manual | 1 |
| 15 | D1329 | Decal QR Code SAYA Seed Calibration | 1 |
| 16 | D1340L | Small metal laser cut “Tar River Implements 5.50” x 23.50” | 1 |
| 17 | BM061012 | Bolt HH06-1.0x12 | 5 |
| 18 | FNM0610 | Flange nut HH M06-1.0 | 5 |
| | | **Seed charts PT907 only** | |
| | D1339F | Decal Seed Chart Front Hopper | 1 |
| | D1339M | Decal Seed Chart Middle Hopper | 1 |
| | D1339R | Decal Seed Chart Rear Hopper | 1 |

# Decals




1 - RT-1005




2- 5SBD1004

3 - D1224F

The most accurate way to set application rates is to drive a predetermined distance and physically catch the seeds dispensed. To do this, remove at least one drop hose and tie a plastic bag onto bottom of seed cup. Travel a determined distance and then weigh the seeds in the bag. Multiply the amount collected by the number of cups on your machine. Refer to the following example to properly calibrate your machine.

To determine area covered calculate the following:
Disc spacing x number of discs (convert to ft.) x distance traveled divided by the sq. ft. in an acre.

Example: 10 discs with a 7.5" spacing = 75" (6.25 ft.) x 100 ft. traveled = 625 sq. ft. covered.
625/43,560 sq. ft. in acre = .0143 (1.43% of acre covered.)

If you collect 1 oz. of seed from a single seed cup on the #3 setting after driving 100 ft. (1.43% of an acre), you are putting out 43.70 lbs. per acre.

1 oz. (amount collected) x 10 seed cups = 10 oz. total output by machine. Distance traveled = 100 ft. (1.43% of acre).
1 oz/16 oz (16 oz in 1 lb.) = .0625 / .0143 = 4.37 x 10 disc = 43.70 lbs. per acre

**SAYA Front Hopper**

| Cup Setting | 1/2 | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|
| Chufa | | | | 40 | 50 | |
| Oats | | | | 65 | | 125 |
| Wheat | | | | 60 | 90 | 120 |
| Lawn Mixtures | | | | | 100 | 130 |
| Fescue | | | | | 114 | 138 |
| Rye | | | 72 | | | |
| Pelletized Lime | | 50 | | | | |
| Shut off every other seed cup | | | | | | |
| Sunflower 15" row | | | | 22 | 32 | |
| Soybeans 15" row | | | 50 | | | |
| Shut off every 2 other seed cups | | | | | | |
| Corn 22.5" row | | | | 20 | 35 | |

Approximate Pounds Per Acre
*25.5 rotations of the drive roller = 100 Feet*

NOTE: The tables and rate charts are guidelines only! They are designed to be an aid as a starting point. You must do your own calibration as many factors cause rates to change. Variations in seed/granular size, density, moisture, seed treatment, and the amount of machine overlap will affect the final application rate.

D1224F

3A - D1224R

The most accurate way to set application rates is to drive a predetermined distance and physically catch the seeds dispensed. To do this, remove at least one drop hose and tie a plastic bag onto bottom of seed cup. Travel a determined distance and then weigh the seeds in the bag. Multiply the amount collected by the number of cups on your machine. Refer to the following example to properly calibrate your machine.

To determine area covered calculate the following:
Disc spacing x number of discs (convert to ft.) x distance traveled divided by the sq. ft. in an acre.

Example: 10 discs with a 7.5" spacing = 75" (6.25 ft.) x 100 ft. traveled = 625 sq. ft. covered.
625/43,560 sq. ft. in acre = .0143 (1.43% of acre covered.)

If you collect 1 oz. of seed from a single seed cup on the #3 setting after driving 100 ft. (1.43% of an acre), you are putting out 43.70 lbs. per acre.

1 oz. (amount collected) x 10 seed cups = 10 oz. total output by machine. Distance traveled = 100 ft. (1.43% of acre).
1 oz/16 oz (16 oz in 1 lb.) = .0625 / .0143 = 4.37 x 10 disc = 43.70 lbs. per acre

**SAYA Rear Hopper**

| Cup Setting | 1/2 | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|
| Clover/Brassica/Rape | 6 | | | | | |
| Sorghum/Millet | | 15 | | 30 | | |
| Alfalfa | | | 20 | | | |
| Buckwheat | | | | 50 | | |
| Timothy Grass | | (1.5 = 10) | 15 | | | |
| Kentucky Blue Grass | | | | 30 | 40 | |
| Radish | | 10 | | | | |
| Turnips | | 11 | | | | |
| Rye | | 7 | | | | |
| Chicory | | 5 | | | | |
| Alfalfa/Chicory(Food Plot Mix) | | 10.5 | | | | |

Approximate Pounds Per Acre
*25.5 rotations of the drive roller = 100 Feet*

NOTE: The tables and rate charts are guidelines only! They are designed to be an aid as a starting point. You must do your own calibration as many factors cause rates to change. Variations in seed/granular size, density, moisture, seed treatment, and the amount of machine overlap will affect the final application rate.

D1224R

4- RT1004E







6- 12-40 Gear Ratio




5 - RT1004D




8 - 11-26 Gear Ratio




7 - RT-1016




9 - D1013



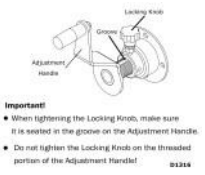

10 - D-1309

**SAYA-PT505**
**SAYA-PT507**
**SAYA-PT907**

11 - Model #




12 - Serial Tag




13 - D1316

# Decals




14 - D1345




15 - D1329




16 - D1340L

# Warranty

## LIMITED WARRANTY

Belco Resources Equipment warrants to the original purchaser of any new piece of machinery from Belco Resources Equipment, purchased from an authorized Belco Resources Equipment dealer, that the equipment be free from defects in material and workmanship for a period of one (1) year for non-commercial, state, and municipalities' use, ninety (90) days for commercial use from date of retail sale. Warranty for rental purposes is thirty (30) days. The obligation of Belco Resources Equipment to the purchaser under this warranty is limited to the repair or replacement of defective parts.

Replacement or repair parts installed in the equipment covered by this limited warranty are warranted for ninety (90) days from the date of purchase of such part or to the expiration of the applicable new equipment warranty period, whichever occurs later. Warranted parts shall be provided at no cost to the user at an authorized Belco Resources Equipment dealer during regular working hours. Belco Resources Equipment reserves the right to inspect any equipment or parts, which are claimed to have been defective in material or workmanship.

This limited warranty does not apply to and excludes wear items such as shear pins, tires, tubes knives, blades or other wear items. Oil or grease is not covered by this warranty.

All obligations of Belco Resources Equipment under this limited warranty shall be terminated if:

Proper service is not performed on the machine.
The machine is modified or altered in any way.
The machine is being used or has been used for purposes other than those for which the machine was intended.

### DISCLAIMER OF IMPLIED WARRANTIES & CONSEQUENTIAL DAMAGES

Belco Resources Equipment obligation under this limited warranty, to the extent allowed by law, is in lieu of all warranties, implied or expressed, including implied warranties of merchantability and fitness for a particular purpose and any liability for incidental and consequential damages with respect to the sale or use of the items warranted. Such incidental and consequential damages shall include but not be limited to: transportation charges other than normal freight charges; cost of installation other than cost approved by Belco Resources Equipment; duty; taxes; charges for normal service or adjustment; loss of crops or any other loss of income; rental of substitute equipment, expenses due to loss, damage, detention or delay in the delivery.

### REGISTRATION

The online Warranty Registration must be completed in order to qualify for coverage on this Limited Warranty. Visit br-equipment.com, click on "Warranty Registration" and completely fill out the form to register the new piece of equipment.










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