Walkabout
MOTHER BINS

OPERATOR & PARTS MANUAL



Walkabout Mother Bin

6000+ Big Red
165t+ Big Red

20266000+165t+ (05-2026)

TABLE OF CONTENTS

INTRODUCTION 1

1. SAFETY 2

1.1 GENERAL SAFETY INFORMATION 2
1.2 SAFETY ALERT SYMBOL 2
1.3 SAFETY DECALS 3
1.4 GENERAL SAFETY 4
1.5 MAINTENANCE SAFETY 5
1.6 HYDRAULIC SAFETY 5
1.7 TRANSPORT SAFETY 6
1.8 TIRE SAFETY 6
1.9 SAFETY WARNINGS 6
1.10 OPERATIONAL SAFETY 8
1.11 STORAGE SAFETY 8
1.12 SAFETY SIGN-OFF FORM 8
1.13 SAFETY DECAL LOCATIONS 10
1.14 OPERATOR MANUAL LOCATION 17

2. OPERATION 18

2.1 TO THE NEW OPERATOR OR OWNER 18
2.2 PRINCIPLES OF OPERATION 18
2.3 OPERATING SAFELY 18
2.4 BREAK-IN 18
2.5 PTO AND HITCH SETTINGS 19
2.6 PRE-OPERATION CHECKLIST 19
2.7 CONNECTING TO THE TRACTOR 20
2.8 TOWING THE BIN 23
2.9 LOADING 24
2.10 UNLOADING 26
2.11 CLEAN-OUT OPERATION 31
2.12 MANHOLE OPERATION 33
2.13 TARP OPERATION 34
2.14 TRANSPORT AFTER OPERATION 35
2.15 STEERING OPERATION 38
2.16 REMOTE HYDRAULICS 40
2.17 STORAGE 45

3. MAINTENANCE 46

3.1 MAINTENANCE CHECKLIST 46
3.2 MAINTENANCE SCHEDULE 46
3.3 GREASE POINTS AND SPECIFICATIONS 47
3.4 GEARBOX LUBRICATION 51
3.5 ADJUSTMENTS 53
3.6 VERIFY PTO SHAFT LENGTH 55
3.7 BOLT AND HYDRAULIC FITTING TORQUE 56

TABLE OF CONTENTS

4. TROUBLESHOOTING 58

5. SPECIFICATIONS 60

5.1 DIMENSIONS 60
5.2 OTHER FEATURES / OPTIONS AND SPECIFICATIONS 62

6. AUGER AND DRIVE PARTS 65

6.1. HITCH AND ATTACHING PARTS 115

6.2. STEERING AND AXLE PARTS 117

7. WARRANTY 122

1 YEAR FROM DATE OF PURCHASE 122
WALKABOUT MOTHER BINS SAFETY & WARRANTY DOCUMENT 123

Introduction



Congratulations on your choice of a Walkabout Mother Bin to complement your farming operation. The Walkabout Mother Bin (WMB / Walkabout) is an important piece of farm equipment that has the ability to dramatically increase your harvest productivity. The WMB is the missing link between the grain cart and the trucks. It allows combines to keep moving in the event of any delays in the grain delivery chain. The WMB is totally mobile once unloaded and able to move from field to field as harvest progresses. Use this manual as your first source of information about this machine.

Safe, efficient, trouble free operation of your Walkabout Mother Bin requires that anyone who will be operating or maintaining it, read and fully understand the manual. This is to ensure that the operator has the knowledge to understand; Safety, Operation, Maintenance and Troubleshooting information contained within this manual.

Keep this manual handy for frequent reference and to pass on to new operators or owners.

Walkabout Mother Bins, LLC is constantly working to improve its products. We reserve the right to make improvements or changes to subsequent models, with no obligation to make these changes or addition to previous models.

OPERATOR ORIENTATION - The directions left, right, front and rear, as mentioned throughout the manual, are as seen from the tractor driver's seat and facing in the direction of travel.

1 SAFETY

1.1 GENERAL SAFETY INFORMATION

IMPORTANT

It is required that anyone towing, operating or maintaining this bin read and understand this manual and the other manufacturer's manuals supplied with the bin.

Walkabout Mother Bin owners must give operating instructions to operators or employees before allowing them to operate the Walkabout Mother Bin, and at least annually thereafter per OSHA regulation 1928.51.

This manual was written specifically for the safe operation and maintenance of this bin. There are references to other manufacturer's manuals supplied with this bin for their components used on this bin.

The most important safety device on this equipment is a SAFE operator. It is the operator's responsibility to read and understand ALL Safety and Operating instructions in the manual and to follow these. All accidents can be avoided.

A person who has not read and understood all operating and safety instructions is not qualified to operate the machine. An untrained operator exposes himself and bystanders to possible serious injury or death.

Your safety and the safety of others depends on the proper and safe use of this machine. Environmental and work situation may change and may not be covered in this manual. Any use or operation of this machine not covered in this manual is at the sole discretion and responsibility of the operator.

Do not modify or alter or permit anyone else to modify or alter this bin or any of its components without the written authorization from Walkabout Mother Bins, LLC.

Unauthorized modification may impair the function and / or safety and could affect the life of the equipment.

Think **SAFETY!** Work **SAFELY!**

1.2 SAFETY ALERT SYMBOL



This is the safety alert symbol. It is used to alert you to potential physical injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

⚠ WARNING

Safe practices must be followed when working on or operating this equipment. All personnel involved must:

- Read and understand the instructions and manuals for this machine.
- Be instructed in the safe use of pumps, motors and nozzles in the operations of this equipment.
- Clear the area of all personnel not involved in the operations of this machine.

1.3 SAFETY DECAL DEFINITIONS

Safety decals are used to identify and communicate the potential for personal injury hazards. The appropriate safety decal for each safety message is chosen based on the following guidelines:



DANGER indicates a hazardous situation. Which, if not avoided, will result in serious injury or death.



WARNING indicates a hazardous situation. Which, if not avoided, could result in serious injury or death.



CAUTION indicates a hazardous situation. Which, if not avoided, could result in minor or moderate injury.



SAFETY INSTRUCTIONS (or equivalent) is used to indicate specific safety related instructions or procedures.



NOTICE is used to adress practices not related to physical injury.

1. Keep safety decals clean and legible at all times.
2. Replace safety decals that are missing or have become illegible.
3. Replacement parts that display a safety decal should also display the current decal.
4. Safety decals are available from your dealer parts department or the factory.

How to install safety decals:

NOTE: See section 1.13 SAFETY DECAL LOCATIONS for the correct location and positioning of the decals.

1. Be sure that the installation area is clean and dry.
2. Be sure the temperature is above 50°F (10°C).
3. Decide the exact position of the split backing paper.
4. Remove the smallest portion with the exposed adhesive backing in place.
5. Slowly peel back the remaining paper and carefully smooth the remaining portion of the decal in place.
6. Small air pockets can be pierced with a pin and smoothed out using the piece of decal backing paper.

1 SAFETY

1.4 GENERAL SAFETY



1. Read and understand the Operator's Manual and all safety signs before operating, maintaining or adjusting the Walkabout Mother Bin.
2. Install and properly secure all shields and guards before operating.
3. Use hitch pin with a mechanical locking device.



4. Have a first-aid kit available for use should the need arise and know how to use it.



5. Have a fire extinguisher available for use should the need arise and know how to use it.
6. Wear appropriate protective gear. This list includes but is not limited to:
   - A hard hat
   - Protective shoes with slip resistant soles
   - Protective glasses or goggles
   - Heavy gloves
   - Wet weather gear
   - Hearing protection
   - Respirator or filter mask



7. Clear the area of people, especially small children, and remove foreign objects from the machine before starting and operating.
8. Keep hands, feet, hair and clothing away from all moving and / or rotating parts.
9. Do not allow riders on the Walkabout Mother Bin or tractor during operation or transporting.
10. Do not operate machine on steep side hills or slopes.
11. Be careful when working around or maintaining a high-pressure hydraulic system. Ensure all components are tight and in good repair before starting.
12. Clean all reflectors, lights and the SMV sign before transporting on a highway or public road. Be sure to check with local highway authorities and comply with their lighting requirements
13. Review safety related items with all operators annually.
14. Stop tractor engine, set park brake, remove ignition key and wait for all moving parts to stop before servicing, adjusting, repairing or unplugging.

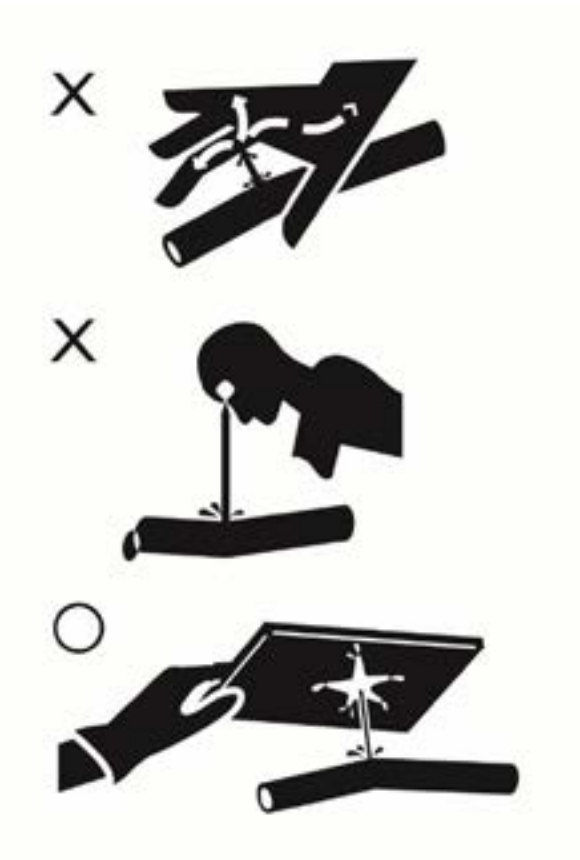
1.5 MAINTENANCE SAFETY

1. Review the Operator's Manual and all safety items before working with, maintaining or operating the Walkabout Mother Bin.
2. Stop the tractor engine, set park brake, remove ignition key and wait for all moving parts to stop before servicing, adjusting, repairing or unplugging.
3. Keep hands, feet, clothing and hair away from all moving and / or rotating parts.
4. Clear the area of bystanders, especially children, when carrying out any maintenance and repairs or making any adjustments.
5. Do not work on vertical auger middle bearing unless the auger is securely resting in the travel position.
6. Place safety stands or large blocks under the frame before removing tires or working beneath the machine.
7. Be careful when working around or maintaining a high-pressure hydraulic system. Wear proper eye and hand protection when searching for a high pressure hydraulic leak. Use a piece of wood or cardboard as a backstop when searching for a pinhole leak in a hose or a fitting.
8. Always relieve pressure before disconnecting or working on hydraulic system.

1.6 HYDRAULIC SAFETY

1. Always place all tractor hydraulic controls in neutral before dismounting.
2. Make sure that all components in the hydraulic system are kept in good condition and are clean.
3. Replace any worn, cut, abraded, flattened or crimped hoses and metal lines.
4. Do not attempt any makeshift repairs to the hydraulic lines, fittings or hoses by using tape, clamps or cements. The hydraulic system operates under extremely high-pressure. Such repairs will fail suddenly and create a hazardous and unsafe condition.
5. Wear proper hand and eye protection when searching for a high-pressure hydraulic leak. Use a piece of wood or cardboard as a backstop instead of hands to isolate and identify a leak.
6. If injured by a concentrated high-pressure stream of hydraulic fluid, seek medical attention immediately. Serious infection or toxic reaction can develop from hydraulic fluid piercing the skin surface.
7. Before applying pressure to the system, make sure all components are tight and that lines, hoses and couplings are not damaged.

Think SAFETY! Work SAFELY



1 SAFETY

1.7 TRANSPORT SAFETY



SAFETY is important when operating the Walkabout Mother Bin in the field / yard or on the road.

1. Beware of overhead power lines. Know the transport height and width of the machine.
2. Check with local authorities regarding machine transport on public roads. Obey all applicable laws and regulations.
3. Always travel at a safe speed. Use caution when making corners or meeting traffic. The Mother Bin is very large and heavy and will effect the towing vehicle during transport.
4. Make sure the SMV (Slow Moving Vehicle) emblem and all the lights and reflectors that are required by the local highway and transport authorities are in place, clean, and can be seen clearly by all overtaking and oncoming traffic.
5. Keep to the right and yield the right-of-way to allow faster traffic to pass. Drive on the road shoulder, if permitted by law.
6. Always use hazard warning flashers on tractor when transporting unless prohibited by law.
7. Always use a pin with provisions for a mechanical retainer and a safety chain when attaching to a tractor or towing vehicle
8. Never drive while impaired by alcohol, drugs or medications.

1.8 TIRE SAFETY

1. Failure to follow proper procedures when mounting a tire on a wheel or rim can produce a blowout which may result in serious injury or death.
2. Do not attempt to mount a tire unless you have the proper equipment and experience to do the job.
3. Have a qualified tire dealer or repair serviceman perform required tire maintenance.
4. Always maintain the correct tire pressure. Never over inflate the tires.
5. Inspect the tires daily. Never operate the machine with low pressure, cuts, bubbles, damaged rims or missing lug bolts or nuts.

1.9 SAFETY WARNINGS

⚠ DANGER - SUFFOCATING

Extreme danger of suffocating exists while loading or unloading your Walkabout Mother Bin.



⚠ DANGER - ROTATING CHAIN OR BELT

Extreme Danger of amputation exists around rotating chains and sprockets. Keep fingers, hair, loose clothing etc. clear of moving parts.





⚠ DANGER - ROTATING PARTS

Extreme Danger of death or amputation exists around rotating PTO components. Keep fingers, hair, loose clothing etc. clear of moving parts.



⚠ DANGER - MOVING AUGER

Extreme Danger of death or amputation exists around rotating augers. Keep fingers, hair, loose clothing, etc. clear of moving parts.



⚠ DANGER - CRUSHING WARNING

Danger of crushing exists when auger is moving to lowered position. Keep clear of area around auger.



⚠ DANGER - NO RIDERS

Under no circumstances should this machine ever have riders. Keep all bystanders, especially children, clear of this machine during use.



⚠ DANGER - PINCHING DANGER

Danger of crushing exists when the auger is unfolded. Keep all bystanders clear of the area.



1 SAFETY

1.10 OPERATIONAL SAFETY

The following safety items are for the safe operation of the Walkabout Mother Bin during loading and unloading.

Failure to meet or exceed any of the following safety procedures will result in damage to the bin, towing vehicle, other vehicles, property damage as well as serious injury or death.

⚠ Wear approved protective clothing, gloves respiratory or filter mask and eye wear.

- Prolonged or repeated contact with grain dust can cause eye and respiratory irritation. Repeated exposure can cause permanent damage.

⚠ Be sure the tow vehicle is in PARK, the park brake set and remove the key from the ignition.

- Use wheel chocks in front and behind the wheels before operating the Mother Bin.

⚠ Keep the area around the Mother Bin clear of all personnel except the operator.

⚠ **Do not** fill or operate the bin around open flames, lit cigars or cigarettes, sparks or combustible surfaces (hot mufflers or heating coils).

⚠ **Do not** leave the Mother Bin unattended when filling or unloading.

1.11 STORAGE SAFETY

1. Do not allow children to play around or on the machine.
2. Park the machine on a level surface and chock the wheels.
3. Be sure the jack is in the vertical position with the locking pin in place before disconnecting from the tractor.

WARNING: Failure to have the hitch jack secured in the vertical position can cause serious injury if the hitch falls when disconnected from the tractor.

1.12 SAFETY SIGN-OFF FORM

Following the general Safety Standards specified by the American Society of Agricultural Engineers (ASAE) and the Occupational Safety and Health Administration (OSHA). Anyone who will be operating and/or maintaining the Walkabout Mother Bin must read and clearly understand ALL Safety, Operating and Maintenance information presented in this manual.

Do not operate or allow anyone else to operate this equipment until such information has been reviewed. Annually review this information before the season start-up.

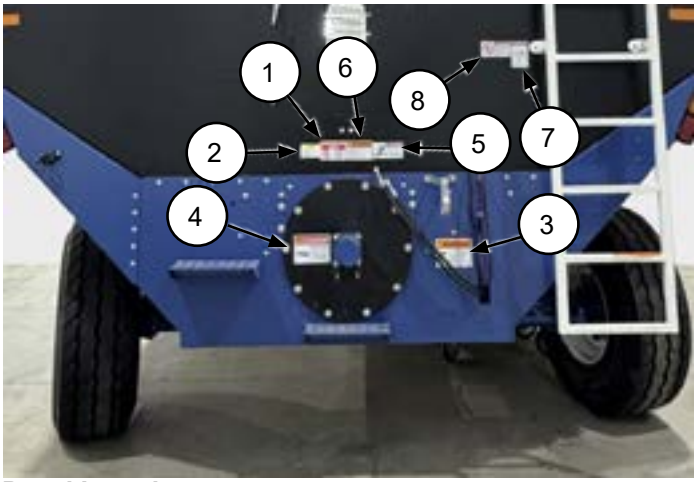
Make these periodic reviews of SAFETY and OPERATION a standard practice for all of your equipment. We feel that an untrained operator is unqualified to operate this machine.

A sign-off sheet is provided for your record keeping to show that all personnel who will be working with the equipment have read and understand the information in the Operator's Manual and have been instructed in the safe operation of the equipment.

SIGN-OFF FORM

Date	Employee's Signature	Employer's Signature

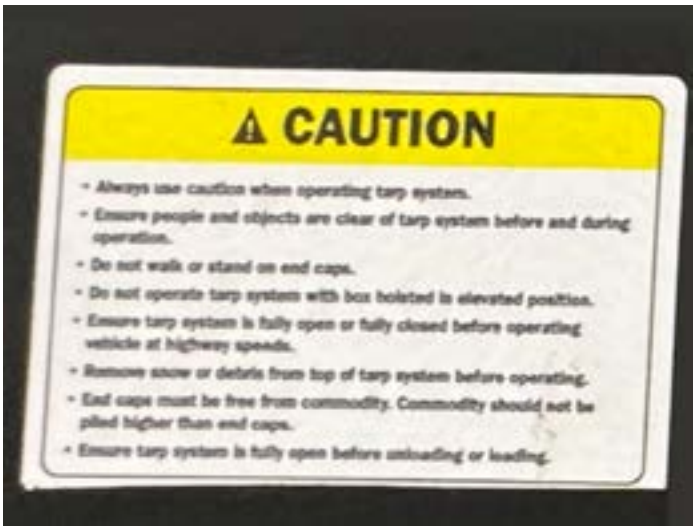
1.13 SAFETY DECAL LOCATIONS



Decal Locations



1. Restricted Area



2. Tarp Closed



3. WARNING: High Pressure Fluid



4. DANGER: Rotating Shaft Hazard



5. DANGER: Rotating Auger Hazard



6. WARNING: Read Operators Manual, Stop Engine



7. DANGER: Entrapment and Suffication Hazard



8. DANGER: Do Not Climb into bin



Decal Location



9. SAFETY INSTRUCTIONS: Check Tire Pressure



Decal Location



10. DANGER: Rotating Shaft Hazard



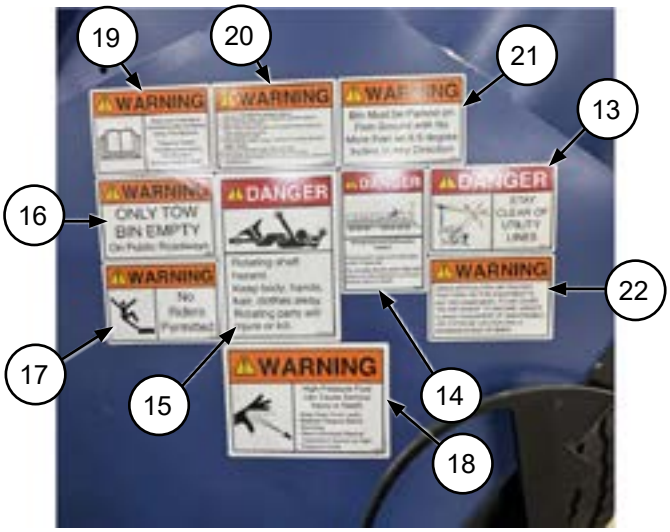
Decal Locations



11. WARNING: Rising or Falling Tongue



12. NOTICE: Never Connect PTO Shaft While Jack



Decal Locations



13. DANGER: Stay clear of Utility Lines



14. DANGER: Entrapment and Suffocation Hazard



15. DANGER: Rotating Driveline



16. WARNING: Only Tow Bin Empty



17. WARNING: No Riders Permitted



18. **WARNING: High Pressure Fluid**



19. **WARNING: Read Operations Manual**



20. **WARNING: Read Operator's Manual, Stop Engine**



21. **WARNING: Bin Must be Parked on Firm Ground**



22. **WARNING: Using articulated or tracked tractors**



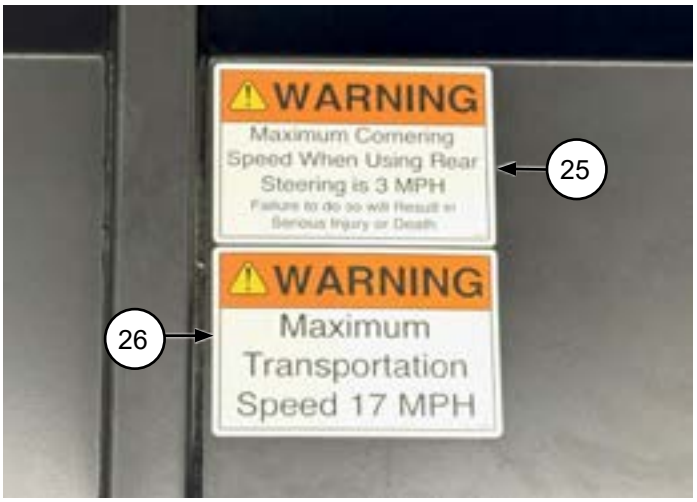
Decal Locations



23. DANGER: Crush Hazard from Auger



24. SAFETY INSTRUCTIONS



Decal Locations



25. WARNING: Maximum Cornering Speed



26. WARNING: Maximum Transportation Speed



Decal Locations



27. SAFETY INSTRUCTIONS



28. WARNING: Failure to Follow Procedures



Decal Location: On Tarp Crank

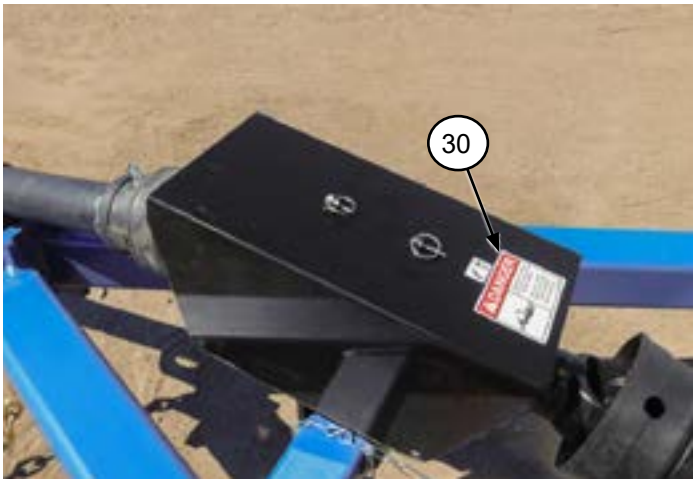
CAUTION: Uncontrolled crank spin. Hold crank firmly with both hands while operating. Failure to do so may result in minor or moderate injury.



Decal Locations



29. WARNING: Turning auger and other moving parts



Decal Locations



30. DANGER: Entanglement in rotating driveline.



Decal Locations



31. SAFETY INSTRUCTIONS

1.14 OPERATOR MANUAL LOCATION



32. DAMAGE: Crush Hazard and Pinch Point



The Mother Bin Operator & Parts Manual is stored in the manual container (1) located on the front right-hand side of the bin.

2 OPERATION

2.1 TO THE NEW OPERATOR OR OWNER

The Walkabout Mother Bin is designed to be in-field short term grain storage. It holds grain in the field supplied from a combine or grain cart. This operation is to be done stationary and it is to remain stationary until unloaded below 30%. NEVER tow the Bin loaded over 30% . If the Mother Bin is under 30% loaded it can be moved in the field on level ground at speeds of up to 2 MPH (3.6 KM/H).

It is the responsibility of the owner or operator to read this manual carefully to learn how to operate the machine safely, and how to set it to provide maximum efficiency. Safety is everyone's business. By following safe operating practices, a safe environment is provided for the operator and bystanders.

The manual will take you step-by-step through the operation of the machine. By following the operating instructions in conjunction with a good maintenance program your machine will provide many years of trouble-free service.

2.2 PRINCIPLES OF OPERATION

The Walkabout Mother Bin can hold up to 6,000 bushels of grain in the field. The augers are driven by PTO. The unloading auger flow is controlled by a hydraulically actuated gate inside the bin.

2.3 OPERATING SAFELY

1. Read and understand the Operator's Manual before starting.
2. Stop engine, place all controls in neutral, set park brake and remove ignition key before servicing, adjusting or repairing.
3. Keep hands, feet, hair and clothing away from all moving and / or rotating parts.
4. Do not allow riders.
5. Clear the area of bystanders, especially small children.
6. Stay well back from machine when operating. Keep others away.

2.4 BREAK-IN

Although there are no operational restrictions on the Walkabout Mother Bin when it is new, there are some mechanical checks that must be done to ensure the long term integrity of the unit. When using the machine for the first time, follow this procedure:

IMPORTANT

It is extremely important to follow all of the Break-In procedures especially those listed in the "Before using" and "After operating for two hours" sections below to avoid damage

Before using:

1. Read Safety Information in the Operator's Manual.
2. Complete steps in "Pre-Operation Checklist".
3. Lubricate all grease points.
4. Check all bolts for tightness. Torque 3/4" wheel nuts to 450 ft.-lbs. **Improper wheel torque is NOT covered under warranty.**
5. Check tires. Inflate to 82 PSI (565 KPA).

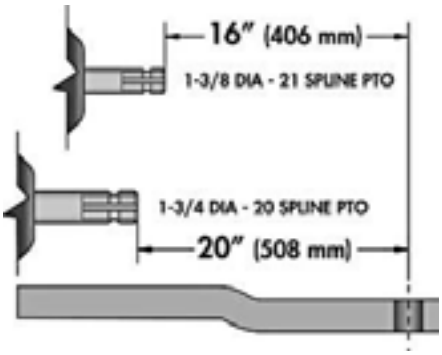
After operating for 2 hours:

1. Check all hardware. Tighten as required.
2. Check all hydraulic system connections. Tighten if any are leaking.

2.5 PTO AND HITCH SETTINGS

IMPORTANT

Be sure to set tractor drawbar to appropriate distance shown. Failure to do so can result in driveline damage.



IMPORTANT

Do not use on a tractor equipped with a PTO shaft adapter to prevent mismatching of PTO speeds and over telescoping of the driveline.

Apply Moly type grease to PTO shaft before connecting. Ensure connection is secured and locked in. Do not force coupler onto Tractor PTO outlet, or damage may occur. Check the length of the telescoping members to insure the driveline will not bottom out or separate when turning and negotiating various terrain.





2.6 PRE-OPERATION CHECKLIST

IMPORTANT

It is important for both personal safety and maintaining the proper mechanical condition of the machine that this pre-operational checklist must be followed.

Before operating the machine and each time thereafter, the following areas should be checked off:

1. Lubricate the machine per the schedule outlined in the “Maintenance Section”
2. Use only a tractor with adequate power to pull the Walkabout Mother Bin under ordinary operating conditions. Minimum: 250 HP (188 KW) and 20,000 lb (9072 Kg) minimum vehicle weight.
3. Use only a tractor equipped with 1000 RPM PTO. Set drawbar distance to correct setting as shown:
   - 16” (406 mm) - 1-3/8 DIA - 21 Spline
   - 20” (508 mm) - 1-3/4 DIA - 20 Spline

IMPORTANT

Do not use on a tractor equipped with a PTO shaft adapter to prevent mismatching of PTO speeds and over telescoping of the driveline.

4. When connecting the PTO to a tractor, check the distance from end of PTO output shaft to center of drawbar pin hole.
5. Ensure that the machine is properly attached to the tractor using a drawbar pin with provisions for a mechanical retainer. Make sure that a retainer such as a Klik pin is installed.

NOTE: It is important to pin the drawbar in the central location only.

6. Inflate to 82 PSI (551 kPa) before using.
7. Ensure that a safety chain on the hitch is installed.
8. Check oil level in the tractor hydraulic reservoir. Add fluid if required.
9. Inspect all hydraulic lines, hoses, fittings and couplers for tightness. Tighten if there are leaks. Use a clean cloth to wipe any accumulated dirt from the couplers before connecting to the tractor's hydraulic system.

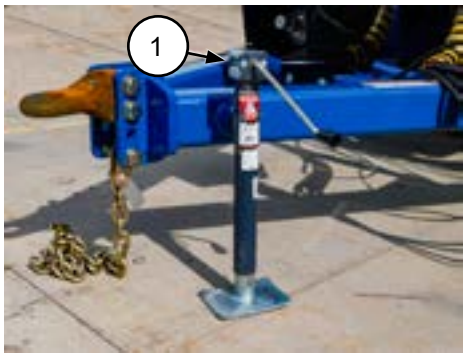
2.7 CONNECTING TO THE TRACTOR

IMPORTANT

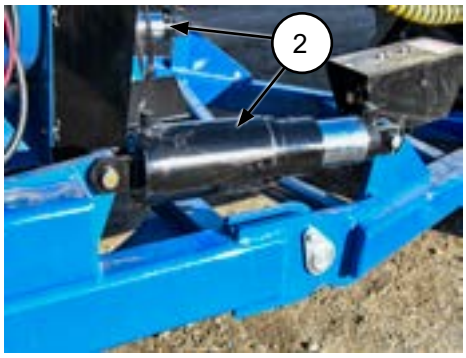
The Walkabout Mother Bin should always be parked on a level, dry area that is free of debris and foreign objects. Follow this procedure to connect the bin to the tractor.

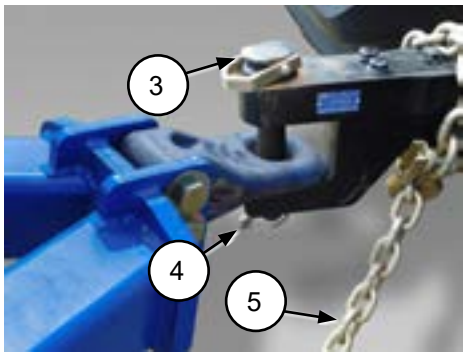
1. Clear the area of bystanders and remove foreign objects from the machine and working area.
2. Make sure there is enough room to back the tractor up to the bin hitch.
3. Start the tractor and slowly back it up to the hitch point.
4. Stop the tractor engine, place all controls in neutral, set park brake and remove ignition key before dismounting.
5. Use the bin jack (1) to raise or lower the hitch to align with the drawbar.

   NOTE: If hitch cylinders (2) are installed the hitch will be under constant downward pressure. Use the bin jack (1) to align with the drawbar.

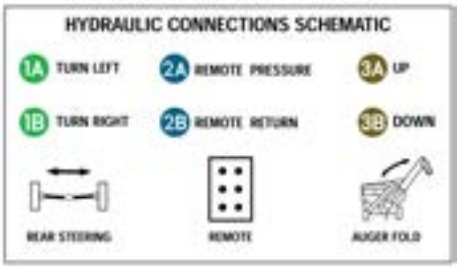


6. Install a drawbar pin (3) with provisions for a mechanical retainer (4) such as a Klik pin. Install the retainer. The WMB is equipped standard with a single tang hitch and must only be used with a clevis-type tractor draw-bar. 1-3/4" or 2" pin must be used.
7. Install a safety chain (5) between the tractor and the hitch.





8. Connect PTO shaft to tractor. Check the length of the telescoping members. See section 2.5 PTO and Hitch Settings in this chapter for correct lengths and clearance.
9. Connect the hydraulics. To connect, proceed as follows:
   - Use a clean lint-free towel to clean the couplers on the ends of the hoses. Also clean the area around the tractor outlets. Remove the plastic plugs from the couplers and insert the male ends. All hydraulic hoses are marked according to their function and the direction of travel.
   - Be sure to match the pressure and return line to one valve bank.
   - The third slot is for the discharge chute rotation hoses.



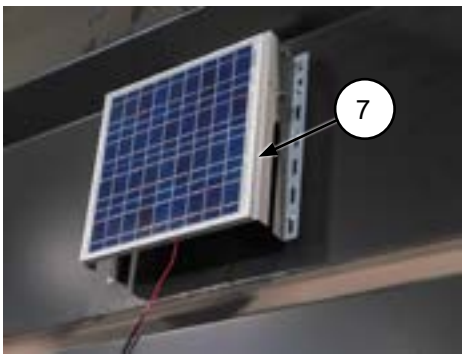
10. Install the bin light connector on the tractor.
    - The connector requires a standard seven terminal female receptacle.



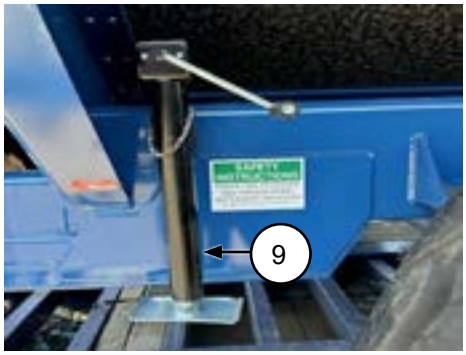
11. Ensure the battery cables are properly installed on the tarp battery (6) located on the rear right-hand side of the bin.



The tarp battery is connected to and charged by the solar panel (7) mounted on the rear of the bin.



12. Raise the hitch jack and stow it on the frame rail mount (9) in front of the front tire.



NOTE: This location (9) is only used for storage. When connecting or disconnecting the bin, remove the bin jack from this location and attach to the hitch to provide support.

13. When disconnecting from the tractor, reverse the above procedure.

2.8 TOWING THE BIN

IMPORTANT

Be sure the bin is properly set up as described in 2.6 PRE-OPERATION CHECKLIST. Be sure the bin is properly connected as described in 2.7 CONNECTING TO THE TRACTOR.

1. The PTO controller must be in the **OFF** position.
2. The unloading auger must be folded in the stored position.



3. All hydraulic leavers must be in the neutral position.
4. The Walkabout Mother Bin will handle differently behind tow vehicles based on their size, tires and suspensions.

⚠ DANGER

It is not recommended to use a tracked or articulating tractor. The steering will cause the bin to become unsafe when towing.

5. When towing the Mother Bin the following procedures must be followed.

⚠ DANGER

DO NOT use rear steering above 3 mph. Failure to do so can cause bin to steer into oncoming traffic or ditch, causing injury or death.

IMPORTANT

Regularly check if the steering indicator matches the rear steering.

- Travel at a safe speed. Traffic can be a major factor affecting a safe operating speed.
- Road conditions can affect the Mother Bin and tow vehicle handling. Reduce speed if any environmental or weather conditions inhibit traction or visibility.
- The bin will increase the distances required to stop, safely follow, turn or maneuver.

6. Do Not make sudden movement, braking, accelerating, turning or changing lanes. The sudden movement of the tow vehicle can cause the bin to shift and cause the bin or tractor to become unstable which can cause a hazard to property, injuries or death.
7. Park the tow vehicle and bin on level ground as close to the equipment to be filled or emptied as safely as possible.
8. Allow space around the Mother Bin for vehicles to enter and exit when filling the bin or being emptied.
9. Set the park brake, turn the tow vehicle engine OFF and remove the key from the ignition switch.
10. Ensure the safety chain is properly secured to the tractor.

2.9 LOADING

⚠ DANGER



Flowing grain traps and suffocates victim in seconds! Victim can die in seconds in flowing grain!

⚠ DANGER

Exercise extreme caution while setting, loading or unloading the Walkabout Mother Bin. The following dangerous situations exist: Drowning, rotating driveline, rotating auger and crushing or pinching due to moving pivot auger.

IMPORTANT

The instructions below must be followed for safe loading of the Walkabout Mother Bin

The Walkabout Mother Bin is designed to hold 6000 bushels of grain safely. Before loading, however, take the following precautions:

1. Ensure each tire is touching the ground for even transfer of weight to the axles. Park on level ground and check each wheel.
2. Wheel chocks (1) must be place in front of and behind the front tires on both sides.



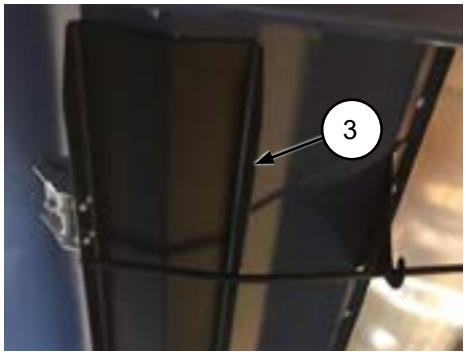
3. Clear immediate area of all bystanders.
4. Use the switch (2) on the back of the bin to open the tarp.



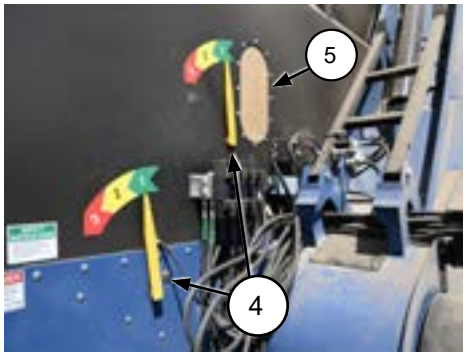
NOTE: If the tarp is not connected to the tractor power receptacle, the tarp can be manually opened or closed with the crank provided. See the Agri-Cover manual provided to correctly connect the crank to the tarp.



5. Be sure the clean out doors (3) are closed.



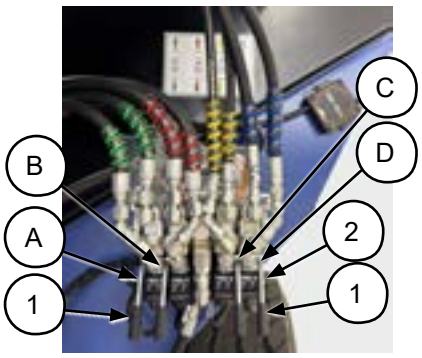
6. Be sure flow control gate is completely closed before filling.
   - To close the flow control gate use the hydraulic lever in the tractor and watch the flow indicators (4) on the bin.
7. Grain flow into the bin and grain levels in the bin can be visually monitored through the windows (5) on the front and rear of the bin.
   - If equipped, the amount of grain can be monitored with the optional cameras. See the Dakota Micro Inc. Overview Users Manual for correct operation of the system.
   - The grain in the bin can also be monitored by weight if equipped with the scale option. See Intercomp Scale Link Control Operators Manual for the correct use of the scale option.



2.10 UNLOADING

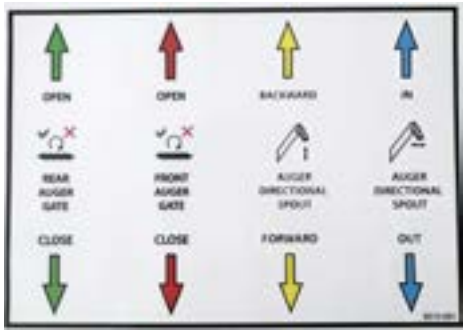
When unloading, the bin auger and front end rear gates can be operated using one of two options:

- Using the levers (1) on the control valve (2). Each lever will perform the function selected by the operator.



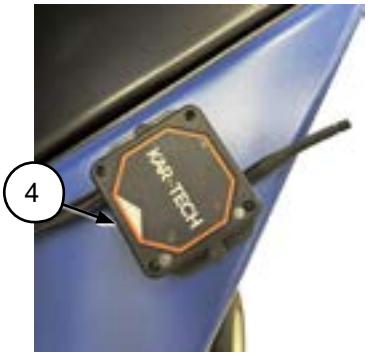
A	Rear Auger Gate Open / Close (Green)
B	Front Auger Gate Open / Close (Red)
C	Auger Spout Backward / Forward (Yellow)
D	Auger Spout In / Out (Blue)

- Using the Kar-Tech wireless handheld remote (3). This remote will sync with the control valve (2) through the receiver (4) to perform the function selected by the operator.



See Section 2.16 Remote Hydraulics for information on how to operate the system.



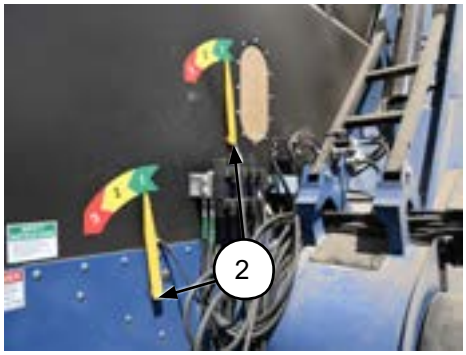


Use the following procedure for unloading:

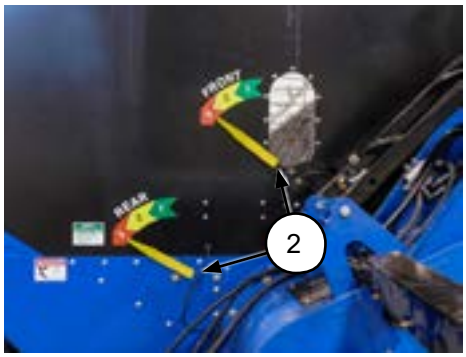
1. Unfold the vertical auger.



2. Position the truck under the auger as desired.
3. Make sure flow control gates (1) are closed.



4. Engage the PTO.
5. Commence unloading by opening flow control gates (2) to desired unload rate.
   - If augers are loaded before running and cannot start, it may be necessary to close off the flow control gate and allow some grain to pass through clean-outs (3) until the augers can start running.

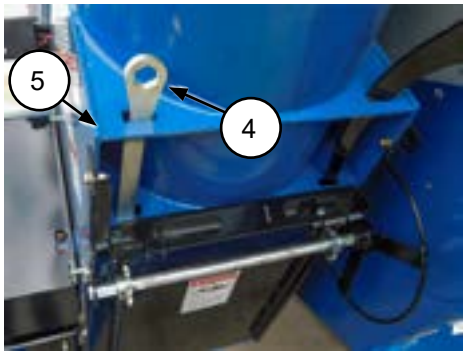


IMPORTANT

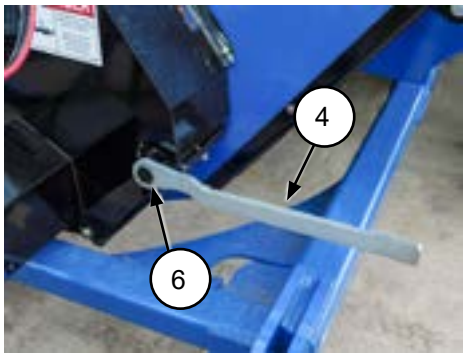
If unloading slows or stalls it may be due to overloading the augers. Lower flow control gates to ensure no damage to the machine occurs.



6. Remove the wrench (4) from the holder (5) on the vertical auger.

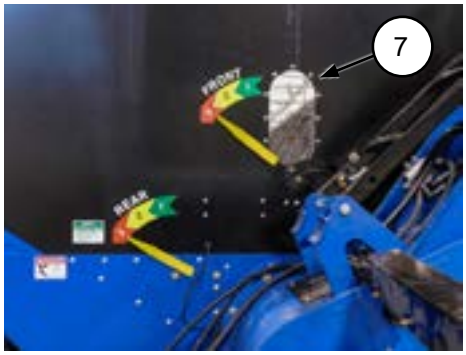


7. Use the wrench (4) to engage the belt tensioner (6) to start the auger.

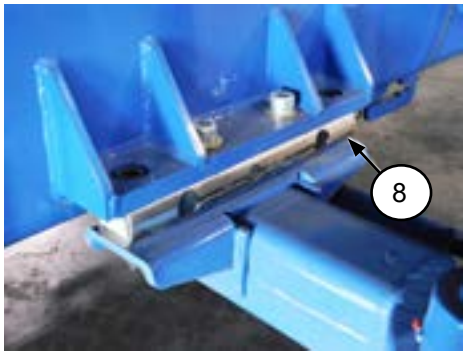


8. If equipped, grain stuck in the bin can be dislodged by the optional vibrator system. See the Martin “Cougar” THD Vibrator Operator Manual provided for correct instructions to operate the vibrator.

9. The amount of grain being unloaded or remaining in the bin can be monitored in three ways:
   - Visually through the windows (7) on the front and rear of the bin.
   - Visually with the optional cameras. See the Users Manual for Dakota Micro Inc. provided with the option.
   - By weight with the scale option. See the Operators Manual for Intercomp Scale Link Control provided with the option.
   - The bin contents are weighed by the weight blocks (8) mounted between the bin and each axle, and communicated with the Intercomp Scale Link Control.





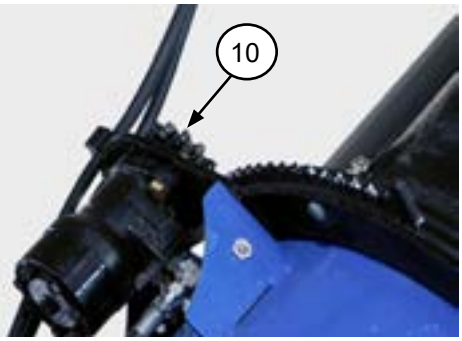


10. The spout (9) can be hydraulically tilted in and out or rotated (10) forward and backward from the cab of the tractor.



⚠ DANGER

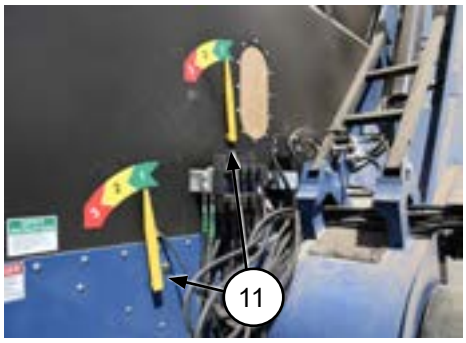
If it is necessary to enter the bin to dislodge grain the tractor **MUST BE** shut off and the key removed.



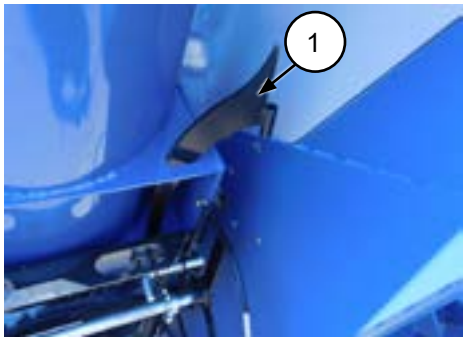
IMPORTANT

To avoid damage to the Walkabout Mother Bin and unloading auger, do not drive or transport with a fully loaded unloading auger. Always close flow control gate and allow auger to clean out if stopping auger during unloading.

11. Close the flow control gates (11) and run out any grain remaining in the augers before shutting down the augers.

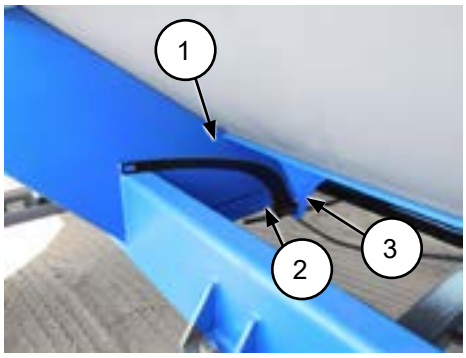


2.11 CLEAN-OUT OPERATION



Bin Auger

1. Remove the clean-out door lever extension handle (1) from the storage position by the vertical clean-out gate.
2. Install the handle (1) on the lever (2). Remove the clean-out door levers (2) from the close position bracket (3).

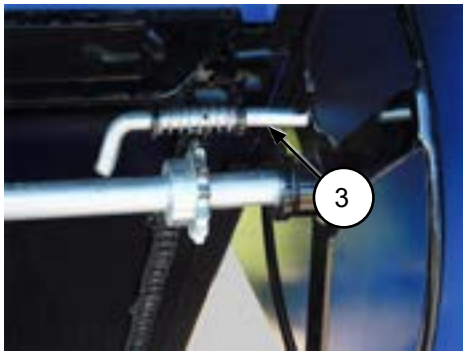


3. Completely open the door (2) and remove any grain from the auger.

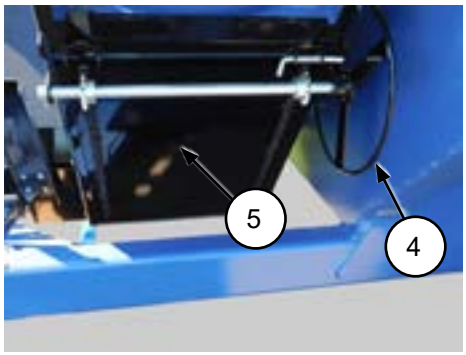


Vertical Auger

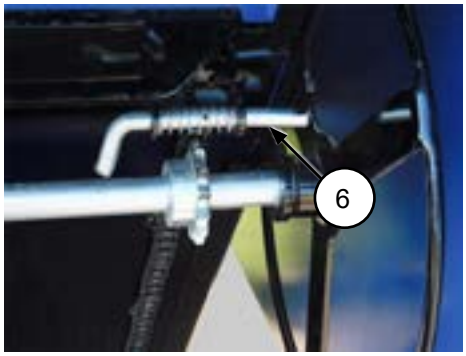
1. Pull back the lock pin (3).



2. Use the chain drive wheel (4) to lift the clean out door (5) to remove any remaining grain from the vertical auger.



3. When the vertical auger is cleaned out, lower the door and secure in place with the lock pin (6).

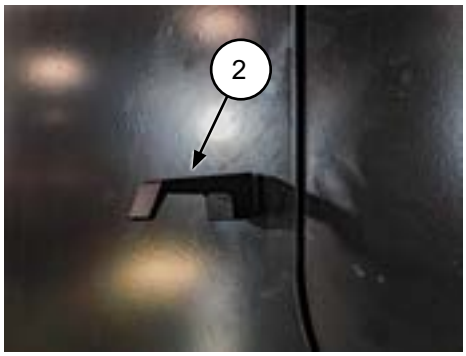


2.12 MANHOLE OPERATION

1. There are two cam latches (1) that secure the door.



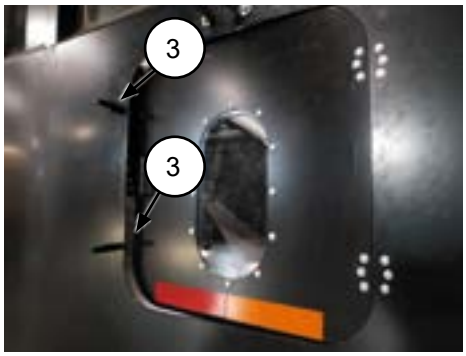
2. Lift the latches (2) to release the tension on the door.



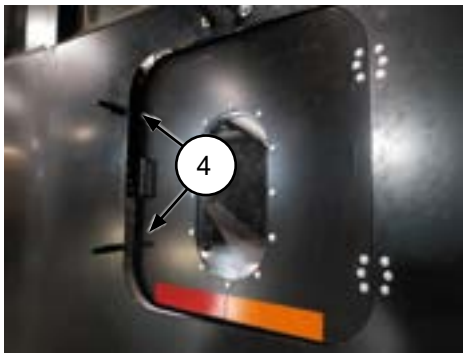
3. Turn the latches (3) 90 degrees counterclockwise to open the door.

⚠ DANGER

If the door is open, ALWAYS check the operator has exited the bin before locking the door.



4. To close the door, be sure the latches (4) are in the position shown. Pull the door shut and rotate the latches 90 degrees clockwise to engage the latches.



5. Press the latches (4) down to close and lock the door.



2.13 TARP OPERATION

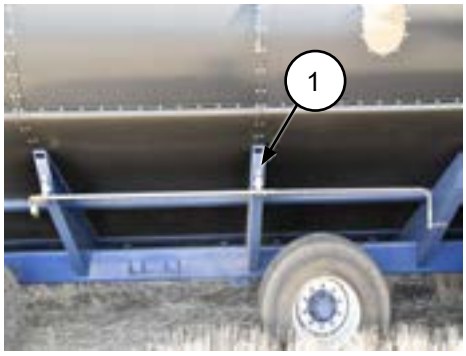
The PVC tarp is made of 900 gsm, heavy duty poly with high UV protection and has an expected life span of 10-15 years. Vents in each end of the bin are fitted so that the bin can be emptied without having to open the tarp. The tarp is opened and closed with the switch mounted on the front of the vertical auger.

IMPORTANT: Read the Agri-Cover manual provided with the bin for the correct installation of the power receptacle on the tractor. Test the receptacle for the required voltage stated in the manual before using the power tarp. The correct voltage is critical for the operation of the tarp.



NOTE: If power is not available to operate the tarp it can be manually opened and closed with the following steps.

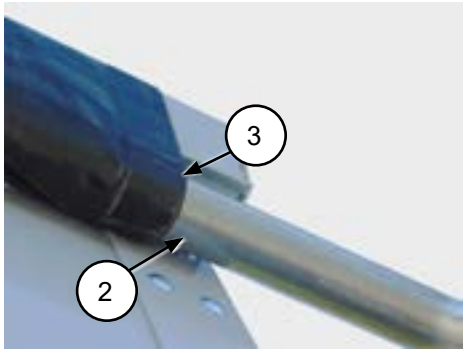
1. Remove tarp handle from holder (1). See the Agri-Cover manual provided to correctly install the crank handle to the tarp.



2. Position yourself to observe tarp operation and smooth control.



3. Close the tarp and lock it. Be sure to get the correct tension with the tarp rollers (2) in the lock position (3).



NOTE: See the Agri-Cover Operation Manual for correct tension and tarp closing procedure.

4. If using the manual crank handle to close the tarp, store the crank handle back in the holder.

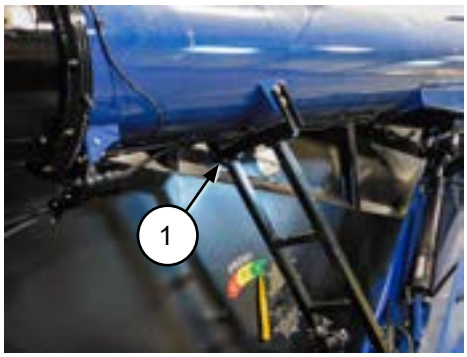
2.14 TRANSPORT AFTER OPERATION

IMPORTANT

- The Walkabout Mother Bin is designed for stationary in-field grain storage.
- The Walkabout Mother Bin is NOT to be used to carry grain out of the field, on roads or through uneven terrain.
- It is designed only to operate in-field and on even ground.

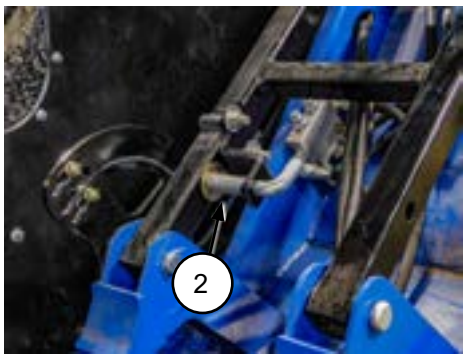
Refer to SPECIFICATIONS for weight, transport height and width.

1. Fold vertical auger and be sure it is seated completely in the support brace (1).

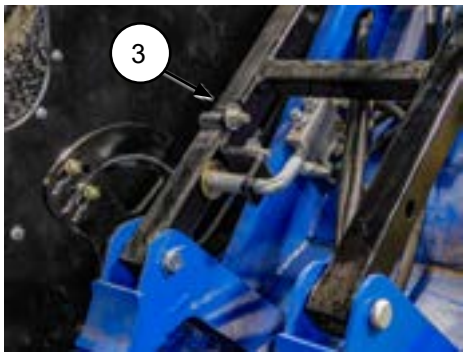


To completely fold the auger:

- Pull out the lock pin (2) on the auger stand.



- Lay the auger stand (3) against the auger.

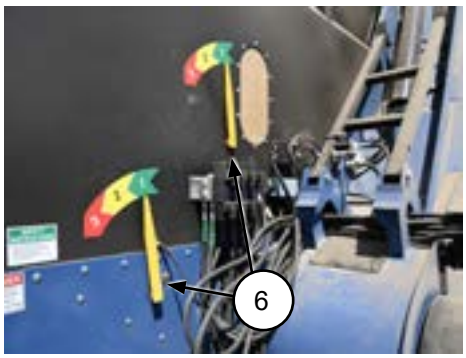


- Lower the auger (4) completely down.

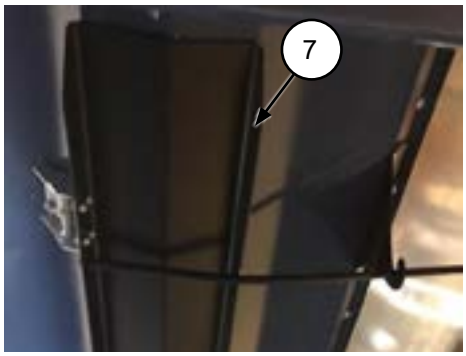


2. Be sure the PTO is OFF. For safety from accidental activation, remove the PTO from the tractor and the Mother Bin.

3. The flow control gates (6) **must be** closed.



4. The clean-out doors (7) **must be** closed.



5. Inspect tires for any serious cuts or abrasions. If such has occurred, tire should be replaced.
6. Clean the SMV sign, lights and reflectors before starting.
7. Always use hazard flashing lights on tractor.
8. Be familiar with and obey all local laws and regulations.
9. Travel at a safe speed. Maximum of 17 mph (27 kph)
10. Use extreme care when making corners or meeting traffic.

IMPORTANT

UNDER NO CIRCUMSTANCES SHOULD THERE EVER BE RIDERS WHILE THE WALKABOUT MOTHER BIN IS IN TRANSPORT.

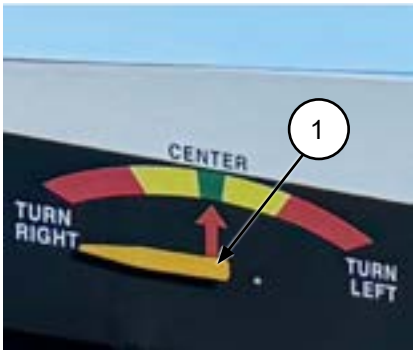
2.15 STEERING OPERATION

The Walkabout Mother Bin is equipped with steering on all axles. The front axles will automatically steer in the direction of the towing vehicle. The rear axles steering can be controlled from the cab of the tractor by using the hydraulic lever. Follow these procedures to control the steering axles.

Rear Steering

1. Rear steering is controlled from the tractor SCV (Selective Control Valve).

2. Move the hydraulic lever in the tractor slowly to verify which way the wheels turn when the lever is moved in both directions. The direction of travel is shown by the indicator (1) on the front of the bin.



IMPORTANT

Regularly check if steering indicator matches rear steering.

⚠ DANGER

Do not move the hydraulic lever quickly. Test the reaction between the lever and the axles slowly until the operator feels comfortable with the steering reaction timing. The reaction timing of the steering can be adjusted by using the hydraulic flow control on the tractor. Failure to follow this procedure can cause a sudden movement of the Mother Bin and / or tractor which could cause damage to the equipment and / or injury to the operator.

3. Walkabout Mother Bins recommends between 5% and 10% of hydraulic flow.

Front Steering

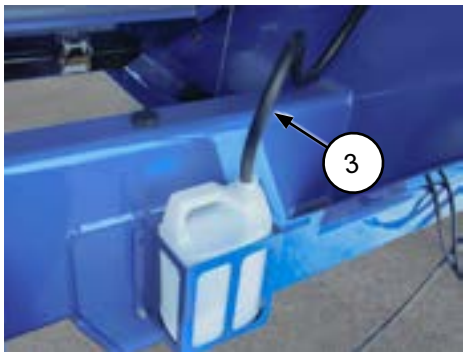
It is not usually necessary to change the front steering set up unless to control the direction of the bin when backing the bin.

1. With the front axles centered, remove the hydraulic coupler (2) and install on a tractor remote. After applying and holding hydraulic pressure the front axles are now locked in position. This provides better control when backing.



2. When finished positioning the Mother Bin, put the hydraulic lever in the “float” position for a moment to allow the lock cylinders (4) to return to the retracted position. Then remove the hose from the tractor. Install one end of the drain hose (3) provided in the overflow container as shown. Install the male coupler end of the drain hose on the bin coupler to relieve the pressure and retract the steering lock cylinders. Oil will flow from the drain hose (3) when the steering cylinders are retracted.

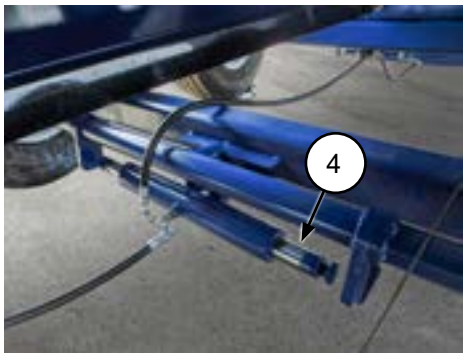
   IMPORTANT: Be sure to check the oil level in the drain container to prevent overflow and spillage.



3. Be sure the pressure in the steering lock cylinders (4) is completely relieved before towing the bin.

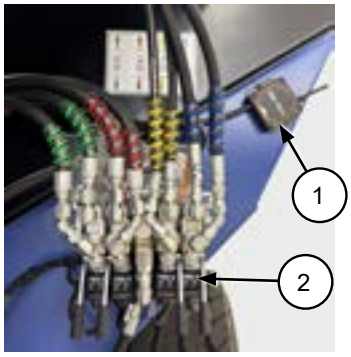
4. Center the front axles. It may be necessary to leave the drain hose connected when first towing the bin. As the bin is turned the front axles may force more fluid from the steering lock cylinders.

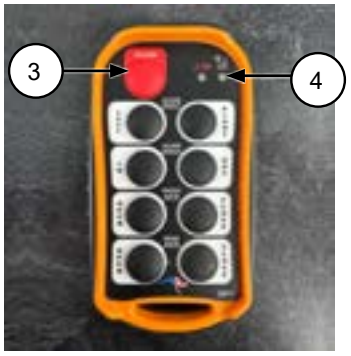
   When the cylinders are completely retracted remove the overflow hose from the bin coupler and the overflow container and replace the cap on the container. Store the overflow hose for use the next time the bin is backed up. Connect the pressure hose on the bin coupler (2).



2.16 REMOTE HYDRAULICS

When the Kar-Tech wireless handheld remote is powered it will sync and communicate with the control valve (1) through the receiver (2) to perform unloading functions selected by the operator.





OPERATION

- To turn the transmitter ON, press and hold the POWER button (3) for at least 2 seconds and release.
- To turn the transmitter OFF, press and hold the POWER button (3) until the LEDs turn OFF.
- The transmitter is designed with a power saving feature which turns the transmitter OFF after 15 minutes if a button is not pressed.
- There are red and green LEDs (4) both on the keypad of the transmitter and inside the receiver case. The green LED will blink rapidly when the transmitter and receiver are communicating. It will blink slowly if there is no communication (i.e. - no power to the receiver).
- The red LED on the receiver will blink if there is a shorted or open output. Refer to the ERROR CODE CHART tables and count the number of blinks to determine the output with the fault.

  NOTE: the receivers with CAN do not have output error codes.
- The transmitter's red LED blinks 1 time per second if the battery is low and needs to be charged.

CHARGING

- The red LED will stay ON while charging and when the charge is completed the green LED will stay ON.
- It will take longer to charge if the transmitter is on during charging.

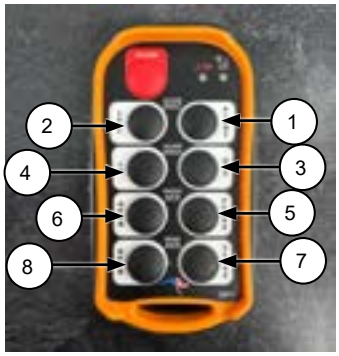
SYNCHRONIZING TRANSMITTER AND RECEIVER

Each transmitter and receiver pair is synchronized together at the factory. If a new transmitter is needed, synchronizing is required. Use the following procedure:

1. Make sure both the transmitter and receiver are off.
2. Press and hold the POWER button on the transmitter for more than 10 seconds. The red and green LED will start to blink.
3. Apply power to the receiver.
4. Wait for a few seconds until only the green LED begins to blink on the transmitter.
5. Teach complete.

REMOTE HYDRAULICS (CONT'D)

CLONING TRANSMITTERS



WARNING! - ONLY ONE TRANSMITTER CAN BE ON AT A TIME, THEY CANNOT BE USED SIMULTANEOUSLY - use with CAUTION!

Occasionally, it is desirable to have more than one transmitter work with a single receiver. This is accomplished by a process called cloning. Cloning allows an additional transmitter (B) to have the same ID code as the original transmitter (A). If this feature is desired, use the following procedure:

1. Make sure both transmitters and the receiver are OFF.

2. On Transmitter A, press and hold POWER buttons for more than 10 seconds until LEDs blink then release POWER button. Green and red LEDs will blink together at this point.

3. On Transmitter B, press and hold buttons 1, 2 and POWER button simultaneously until both LEDs start to blink.

4. Wait for few seconds until the green LED starts to blink on both transmitter A and transmitter B.

5. Turn both the transmitters OFF.

6. Synchronize one of the transmitters to the receiver using SYNCHRONIZING TRANSMITTER AND RECEIVER instructions above.

If the cloning feature has been invoked and is no longer desired, the ID code of one of the transmitters needs to be changed. This will unclone the transmitters. If this is desired, use the following procedure:

1. Make sure the receiver and transmitter are OFF.

2. Press and hold buttons 2, 3, 8 and POWER simultaneously until both LEDs start toggling then release buttons.

3. Press any button again to select a new ID.

4. Uncloning complete.

5. Follow the SYNCHRONIZING TRANSMITTER AND RECEIVER procedure above to link the uncloned transmitter to a new receiver.

REMOTE HYDRAULICS (CONT'D)

PROGRAMMING

The user can determine output functionality (momentary or maintained action) and program the system to respond as desired. This is determined by the following procedure:

1. Turn the receiver OFF. Turn the transmitter ON (press and hold POWER until both LEDs turn ON, then release).
2. Press and hold 1, 4, and 8 and release. Red LED should be blinking on the transmitter.
3. Turn the receiver ON, make sure the green LED is blinking before proceeding to the next step. Be sure all outputs are connected to a load and that there are no error codes present (NOTE: outputs may cycle ON and OFF while programming)
4. Are any outputs to be latched (push ON / push OFF)? If yes, continue. If no, skip to step 9 for outputs to be momentary.
5. Press button 1-8 corresponding to output 1-8 that is to be latched, until green LED goes ON, then OFF.
6. Press button that corresponds to OFF until green LED goes ON, then OFF. This can be the same button that turns the output ON. In this case, pressing the button alternates the output between ON and OFF.
7. If latched output should turn OFF for transmitter out of range condition press the button defined in step 6. If latched output should stay ON for transmitter out of range condition press any button other than button defined in step 6.
8. Repeat steps 5, 6, and 7 for any more outputs that are to be latched.
9. Press POWER briefly. The receiver's red LED should blink, indicating that this step is accepted and complete. The red LED on the transmitter should also start to blink a different rate.
10. Are any outputs to be disabled (no output and no error code)? If yes, continue, if no, skip to step 12.
11. One at a time, press and hold each button 1 - 8 corresponding to output 1 - 8 that is to be disabled, until the green LED goes ON, then OFF.
12. Press POWER briefly. The receiver's red LED should blink, indicating that this step is accepted and complete. The red LED on the transmitter should also start to blink at a different rate.
13. Is it desired to use the pump functionality (see description below)? If yes, continue, if no, skip to step 15.
14. One at a time, press and hold each button 1 - 8 corresponding to output 1 - 8 that is to be associated with the pump output, until the green LED goes ON, then OFF.
15. Press POWER briefly. The receiver's red LED should blink, indicating that this step is accepted and complete. The red LED on the transmitter should also start to blink at a different rate.
16. Is it desired to use the E-Stop functionality (see description below)? If yes, continue, if no, skip to step 18.
17. To engage the E-Stop functionality, press button 2 until the green LED goes ON, then OFF.
18. If no error code is desired for the E-Stop output press button 3 to disable otherwise go to step 19 to keep error code enabled.
19. If the E-Stop output should turn OFF for transmitter out of range condition press button 4. Otherwise go to step 20 to keep the output ON for transmitter out of range condition.

REMOTE HYDRAULICS (CONT'D)

1. **PROGRAMMING (CONT'D)**

2. If no error code is desired for the PUMP output press button 1 to disable otherwise go to step 21 to keep error code enabled.

3. Press POWER briefly. The receiver's red LED should blink, indicating that this step is accepted and complete.

4. One at a time, press and hold each button 1 - 8 that the corresponding output error code needs to be disabled, until the green LED goes ON, then OFF.

5. Press POWER briefly. The receiver's red LED should blink, indicating that this step is accepted and complete.

6. Programming complete

NOTES

1. Pump functionality: output 9 will turn ON with any outputs that have been associated with it.

2. E-stop functionality: output 10 will be on as long as the transmitter is ON. If the transmitter is turned OFF or POWER is pressed output 10 will go OFF along with all latched outputs. To reset, turn the transmitter back ON or re-cycle power to the receiver and re-engage the outputs as before.

3. If the receiver does not blink the red LED after each sequence or the transmitter's red LED does not blink at a different rate as described above, the programming was not accepted for that section. Start from the beginning and go slowly. Keep a distance of 2-3 feet from the receiver when programming.

4. The factory settings are: 8 momentary outputs, no pump output, and no E-Stop output.

5. If 4 blinks after each sequence is not seen as described above, the programming was not accepted for that section. Start from the beginning and go slowly. Keep a distance of 2-3 feet from the receiver when programming.

REMOTE HYDRAULICS (CONT'D)

TRANSMITTER SLEEP TIME PROGRAMING

All transmitters have the ability to change the sleep time from the default to user's preference. The transmitter is factory set to turn off (sleep) after 15 minutes. To change the time the transmitter waits before going to sleep, use the following procedure:

1. With the transmitter off, press and hold buttons 3, 4, 8, and POWER.
2. Keep holding the buttons for a few seconds then release the buttons. At this point, both lights will blink once per second.
3. On the transmitter, press one of the following buttons to adjust the sleep time:
    - Auger Spout Right Button 1 = 15 min
    - Auger Spout Left Button 2 = 30 min
    - Auger Spout Out Button 3 = 1 hr
    - Auger Spout In Button 4 = 2 hr
    - Front Gate Open Button 5 = Sleep disabled
4. Sleep time programming complete.

SPECIFICATIONS

Electrical:

- RF Transmit power (EIRP): 100 Mw
- RF Frequency: 2.4GHz

Transmitter:

- Power: Rechargeable 3.7V Lithium Polymer battery
- Operation time with full charge: 30 to 40 hours continuous

Receiver:

- Power: 9 to 30 Volts DC
- Outputs: 5A max each (20A system max)

Environmental:

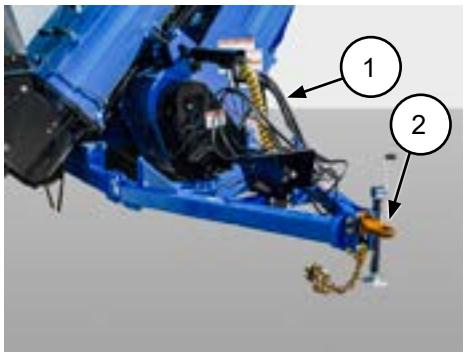
- Transmitter: -20ºC to +60ºC
- Receiver: -40ºC to +85ºC

2.17 STORAGE

Since the unit can be used in extremely adverse conditions during the season, the machine should be carefully prepared for storage to ensure that all dirt, mud, debris and moisture has been removed.

Follow this procedure when preparing to store:

1. Wash the entire machine thoroughly using a water hose or pressure washer to remove all dirt, mud, debris or residue.
2. Inspect all parts to see if anything has become entangled in them. Remove the entangled material.
3. Lubricate all grease fittings to remove any moisture in the bearings.
4. Inspect all hydraulic hoses, fittings, lines and couplers. Tighten any loose fittings. Replace any hose that is badly cut, nicked or abraded or is separating from the crimped end of the fitting.
5. Touch up all paint nicks and scratches to prevent rusting.
6. Oil the exposed rams on the hydraulic cylinder to prevent rusting.
7. Open clean-outs to allow any moisture to escape and prevent freezing over winter. It is advisable to leave the clean-out doors open until bin is to be used again.
8. Store with tarp open.
9. Select an area that is dry, level and free of debris.
10. If length is an issue fold the hoses (1) back against the auger gearbox.
11. The front hitch (2) should be stored in a level down position supported by the hitch jack to prevent it from coming down unexpectedly.



3 MAINTENANCE

3.1 MAINTENANCE CHECKLIST

1. Read Operator's Manual before servicing, or maintaining machine.
2. Stop tractor engine, set park brake and remove ignition key before servicing, adjusting, repairing or maintaining.
3. Be careful when working around or maintaining a high pressure hydraulic system. Wear the proper hand and eye protection when searching for a pinhole leak in a hose or fitting.

3.2 MAINTENANCE SCHEDULE

- **First 2 Hours**
  - Check all hardware. Tighten as required.
  - Check all hydraulic connections. Tighten as required.
- **Daily**
  - Check tire pressure.
  - Check hitch and safety chains.
  - Check gearbox oil level.
  - Check all hydraulic lines, hoses and fittings for leaks.
- **Every 20 hour of Vibrated Operation**
  - Check bin body bolts for tightness.
- **Every 40 Hours or Weekly**
  - Grease all auger bearings
  - Grease PTO universals front and rear.
  - Check auger gearbox oil level
- **Every 200 Hours or Season**
  - Grease all auger bearings.
  - PTO universals - front and rear.
  - PTO telescopic slide.
  - Grease Folding Auger hinge pins and components.
  - Grease Axle Steering Pivots.
  - Grease Steering Indicator Needle.

1. Inspect the tires for unusual wear across the tread, damage to the sidewalls or any cracks in the tire tread or sidewalls.
   If the tires need to be replaced the tire size is VF445/65R22.5 rated for 36,000 lbs (16,363 kg).



2. Clean the area around the valve stem . Remove the cap on the valve stem and check the tire pressure. The pressure must be at 82 PSI (565 kPa).



3. Check the M22 wheel nuts for correct tightness. All wheel nuts must be at 535 ft-lbs.



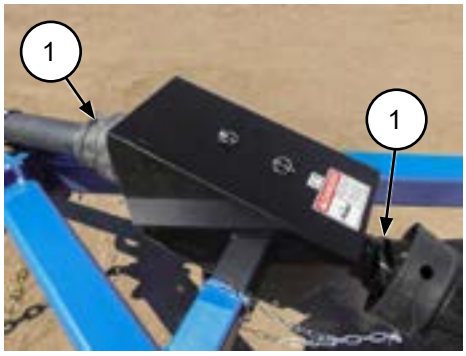
IMPORTANT

Do not tighten over 535 lb-ft (725 N•m). This can cause too much stress and wheel bolts could break under operating conditions.

3.3 GREASE POINTS AND SPECIFICATIONS

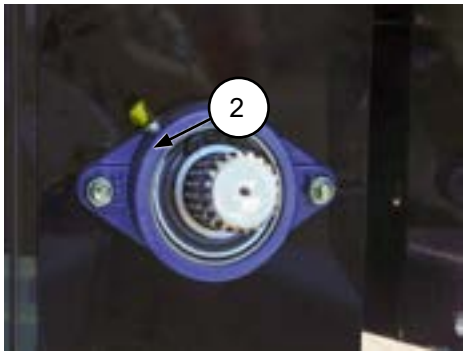
GREASE SPECIFICATIONS

1. Use an SAE multipurpose grease with extreme pressure (EP) performance. An SAE multipurpose lithium based grease is also acceptable.
2. Use only a hand held grease gun.
3. Wipe grease fittings with a clean cloth before greasing to avoid injecting dirt.
4. Repair or replace broken fittings immediately.
5. If fittings will not take grease remove and clean or replace the fittings. Also clean grease from passageway.



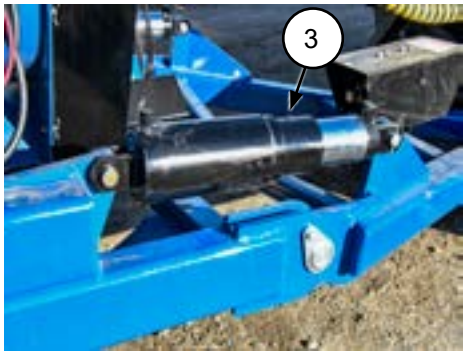
GREASE POINTS

1. PTO
   - Universal Joints (1)

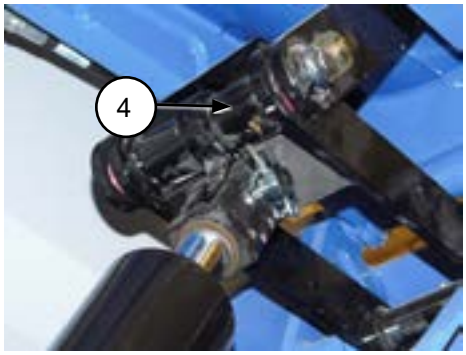


2. PTO Front Support Bearing (2).

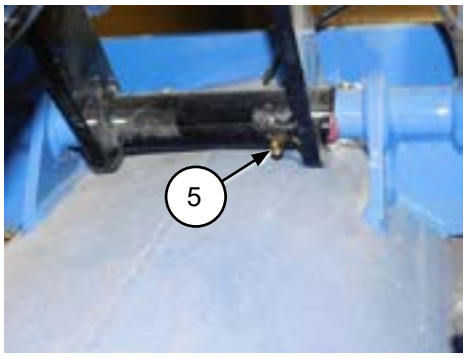
3. Hitch Cylinder Rams (3).



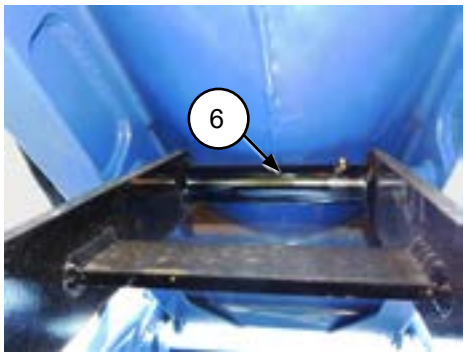
4. Auger Fold Cylinder Elbow Joint (4).



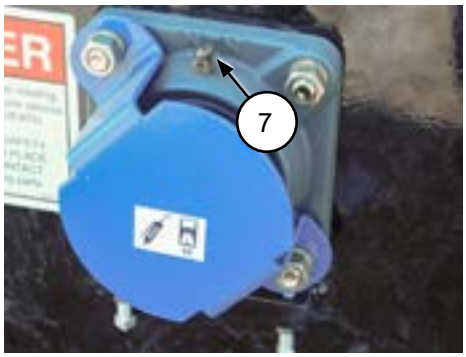
5. Auger Fold Linkage Base Pin (5).



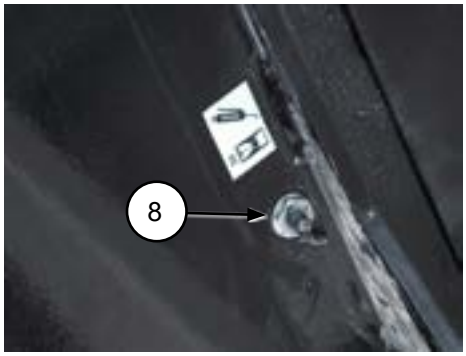
6. Auger Fold Linkage Top Pin (6).



7. Horizontal Auger Rear Bearing (7).



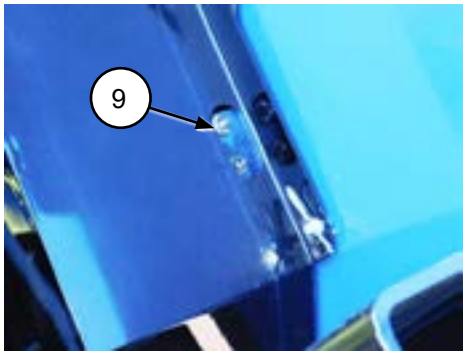
8. Horizontal Auger Middle Bearings (8). The grease zerks are located inside the bin at every other seam in the auger housing.



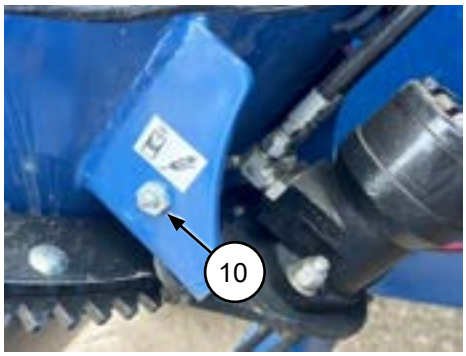
⚠ DANGER

Remove keys and ensure safety before entering bin.

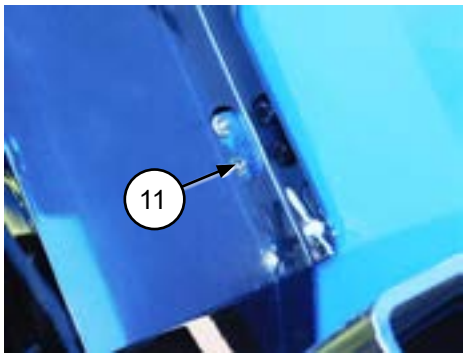
9. Horizontal Auger Front Bearing (9).



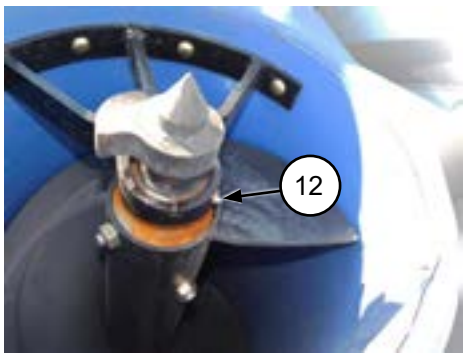
10. Vertical Auger Top Bearing (10) can be accessed through the inspection cover.



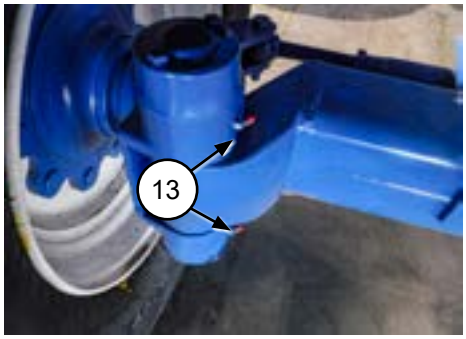
11. Vertical Auger Bottom Bearing (11).



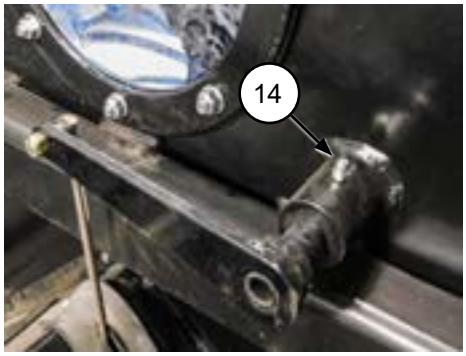
12. Vertical Auger Middle Bearings (12).



13. Axle Steering (13).



14. Steering Indicator Needle (14).



3.4 GEARBOX LUBRICATION

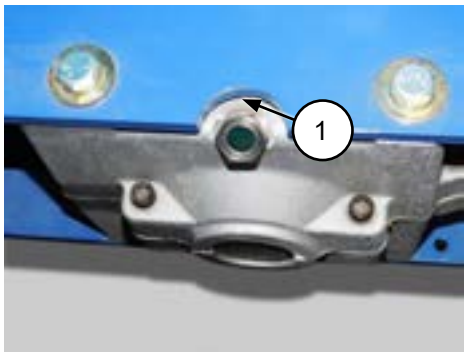
Use clean SAE 80W-90 weight gear oil.

IMPORTANT

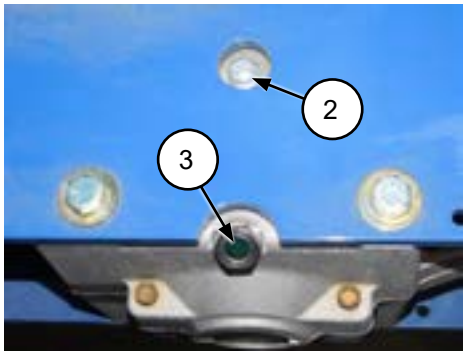
Your machine can operate at top efficiency only if clean lubricants are used. Use clean containers to handle all lubricants. Store them in an area protected from dust, moisture and other contaminants.

GEARBOX LEVELS

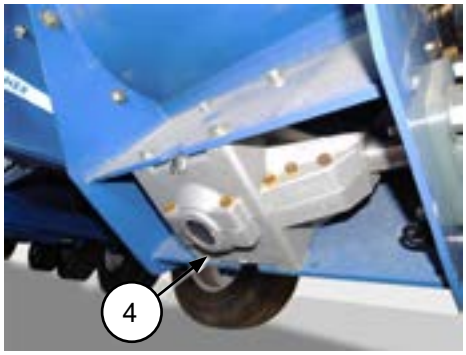
1. The gearbox level must be in the middle of the sight-glass (1).

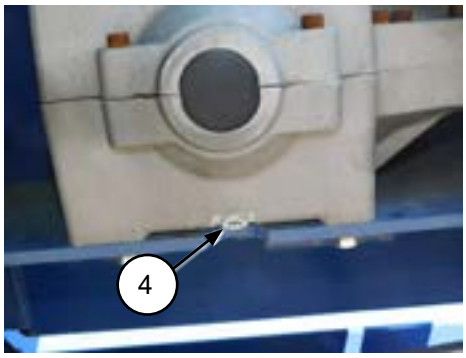


2. To add or fill the gearbox remove the fill plug (2) and add oil while watching the sight glass (3).



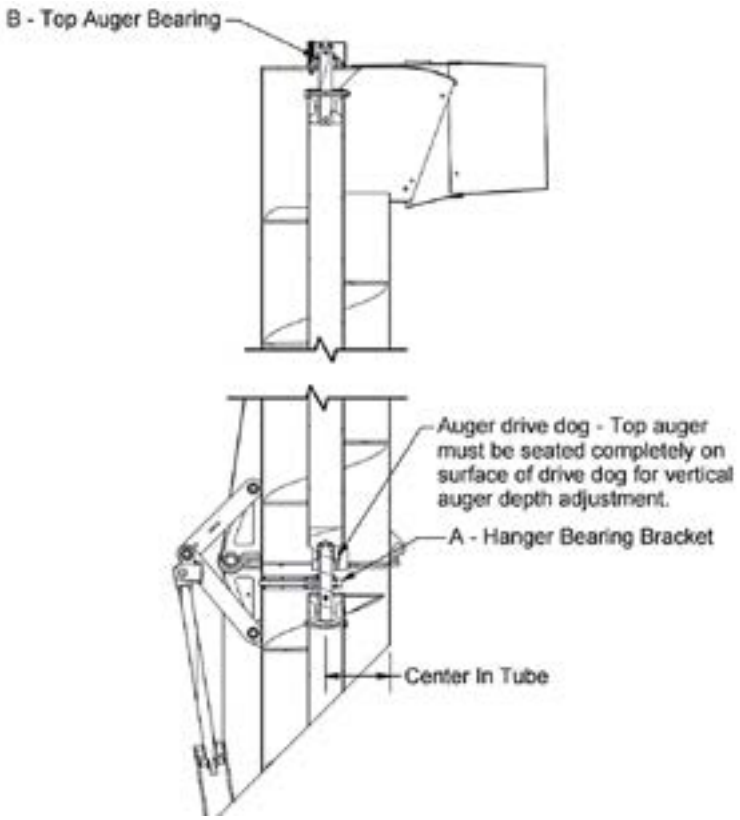
3. To change oil in the gearbox, place a drop pan under the gearbox and remove the drain plug (4). When the oil is completely drained install the plug and follow the procedure in Steps 1 and 2.





3.5 ADJUSTMENTS

VERTICAL AUGER ALIGNMENT INSTRUCTIONS



1. Adjust the height of hanger bearing “A” using washers (3) or shims to center auger flighting in the tube.

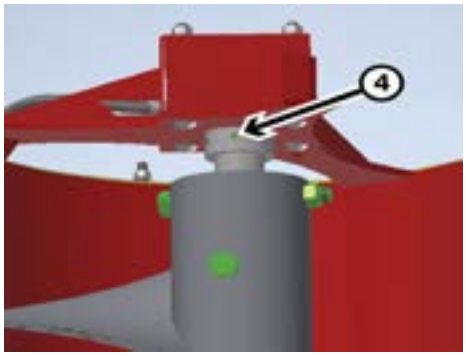


2. Unfold auger to check if top flighting and drive lug engage properly and auger turns smoothly.



TOP VERTICAL AUGER DEPTH ADJUSTMENT

1. Unfold auger.
2. Loosen the locking collar (4) on top bearing “B”
3. Tap on the end of the auger shaft (5) with a rubber hammer to ensure top auger is properly seated on the lower auger drive lug and rotate several times.
4. Tighten the locking collar (4) on top bearing.

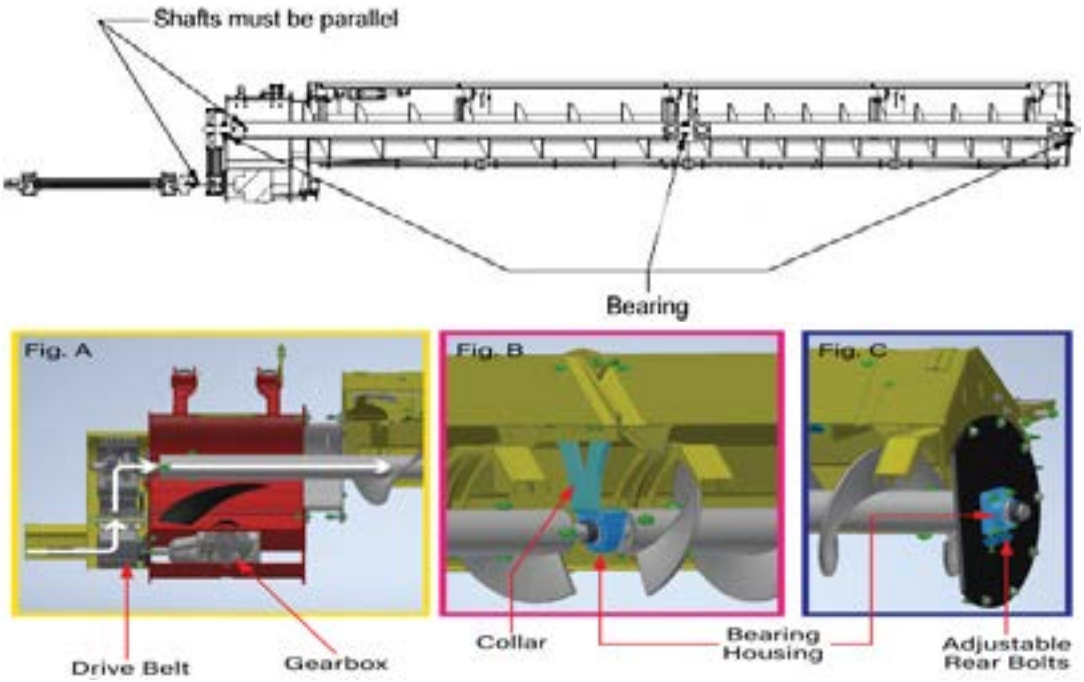




SWEEP AUGER ALIGNMENT

If the augers were removed for service or replacement an alignment may be required. Preseason checks are also an important preventative measure. Below are the steps for aligning both the vertical and horizontal augers.

DIRECTIONS



1. Leave front drag auger section with middle hanger bearing so that the drive shaft is aligned to the gearbox input (shown on Fig. B).
2. Level rear drag auger section with the front by adjusting the bearing housing on the rear of the cart using the adjustable rear bolts (shown on Fig. C)
3. Rotate auger flighting to ensure it turns smoothly and does not hit anywhere. Adjust if necessary.

3.6 VERIFY PTO SHAFT LENGTH

⚠ WARNING

PROPER EXTENDED AND COLLAPSED LENGTH OF THE TELESCOPING PTO SHAFT MUST BE VERIFIED BEFORE FIRST OPERATION WITH EACH TRACTOR. IF THE EXTENDED LENGTH OF THE PTO SHAFT IS INSUFFICIENT, IT MAY BECOME UNCOUPLED DURING OPERATION AND CAUSE SERIOUS INJURY OR DEATH FROM CONTACT WITH CONTROLLED FLAILING OF PTO SHAFT ASSEMBLY COMPONENTS.

IMPORTANT

Check the length of the telescoping members to ensure the driveline will not bottom out or separate when turning and / or going over rough terrain. Consult your OEM dealer for recommended drawbar and PTO set up.

An excessive collapsed length can result in damage to the PTO driveline and attached components. This is most likely to occur during extreme turning angles and/or over rough terrain. Conditions are amplified on tractors with tracks operating in uneven terrain, particularly levies and ridges.

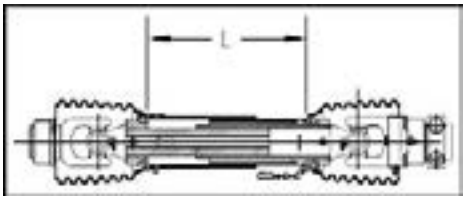
Damage driveline components can result in unsafe operation and severely reduced driveline component life.

NOTE: Do not exceed 10 degrees beyond a straight pull line while operation the PTO. To verify proper extended are collapsed lengths, use the following procedure:

1. Fully collapse PTO shaft and measure length “L”.

   Enter here: _____ (1)

   (Verify that outer tube does not bottom out on surrounding plastic shield components).



2. Pull apart PTO telescoping shaft ends and measure lengths “T” & “C”. Add “T” + “C” measurements together.

   Enter total here: _____ (2)

3. Calculate maximum recommended extended length:

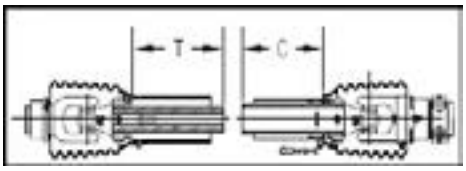
   Subtract line 1 from line 2. Enter here: _____ (a)

   Divide line (a) by 2. Enter here: _____ (b)

   Add line (b) to line 1. Enter here: _____ (c)

   Subtract 2 inches from line (c). Enter here: _____ (d)

   This is maximum recommended extended length.

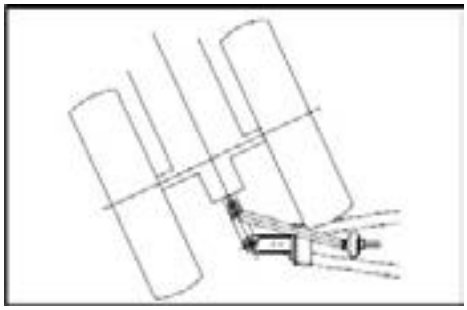


4. Hitch tractor drawbar to cart, ensuring that tractor and cart are on level ground and coupled as straight as practical.

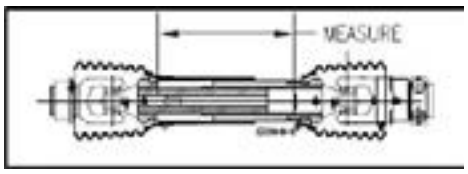
5. Connect PTO shaft to tractor, and measure length “L” from same points as used in step 1.

   Ensure that this measurement does not exceed the maximum recommended extended length calculated in step 3. If necessary, choose a shorter drawbar position, or obtain a longer PTO shaft assembly before operating cart.

6. Position the tractor to obtain the tightest turning angle, relative to the cart (See Figure).



7. Measure the length “L” from the same points as used in step 1. This distance must be at least 1.5 inches greater than the distance measured in step 1. If necessary, adjust the length of the PTO shaft by cutting the inner and outer plastic guard tubes and inner and outer sliding profiles by the same length. Round off all sharp edges and remove burrs before greasing and reassembling shaft halves surrounding plastic shield components.



3.7 BOLT AND HYDRAULIC FITTING TORQUE

CHECKING BOLT TORQUE

The tables shown below give correct torque values for various bolts, hydraulic fittings and cap screws. Tighten all bolts to the torques specified in chart unless otherwise noted. Check tightness of bolts periodically, using bolt torque chart as a guide. Replace hardware with the same strength bolt.

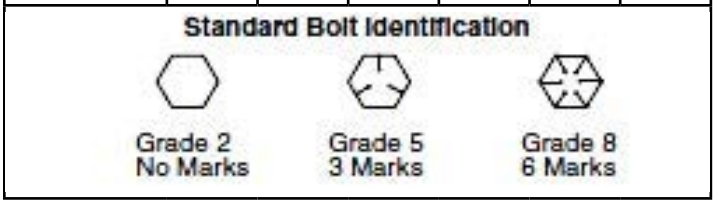
BOLT TORQUE VALUES

Always replace bolts with the same grade or class.

Tighten all bolts according to the following charts unless other wise specified.

Standard Bolt Torque Chart

Bolt Size	Grade 2		Grade 5		Grade 8	
	N•m	Lbf-ft	N•m	Lbf-ft	N•m	Lbf-ft
5/16-18	15	11	24	17	33	25
3/8-16	27	20	42	31	59	44
7/16-14	43	32	67	49	95	70
1/2-13	66	49	105	76	145	106
9/16-12	95	70	150	110	210	155
5/8-11	130	97	205	150	285	210
3/4-10	235	170	360	265	510	375
7/8-9	225	165	58/5	430	820	605
1-8	340	250	875	645	1230	910



Metric Bolt Torque Chart

Bolt Size	Class 5.8		Class 8.8		Class 10.9	
	N•m	Lbf-ft	N•m	Lbf-ft	N•m	Lbf-ft
M 5 x0.85	4	3	6	5	9	7
M 6 x 1	7	5	11	8	15	11
M 8 x1.25	17	12	26	19	36	27
M 10 x 1.5	33	24	52	39	72	53
M 12 x 1.75	58	42	91	67	125	93
M 14 x 2	92	68	145	105	200	150
M 16 x 2	145	105	225	165	315	230
M 18 x 2.5	195	145	310	230	405	300
M 20 x 2.5	280	205	440	325	610	450
M 24 x 3	480	355	760	560	1050	780
Identify metric bolts by the class number stamped on the bolt head or nut. Higher numbers indicate higher strength.						

HYDRAULIC FITTING TORQUE VALUES

Straight Thread O-Ring Boss (ORB)

(Example: 12MB - 12MJ is -12 male ORB to -12 Male JIC)

	Jam Nut or Straight Fitting Torque	
Dash Size	**Ft/Lbs**	**Newton Meter**
-04	13-15	18-20
-05	14-15	19-21
-06	23-24	32-33
-08	40-43	55-57
-10	43-48	59-64
-12	68-75	93-101

SAE 37° (JIC)

(Example 8FJ - 8FJ is -10 female JIC)

	Jam Nut or Straight Fitting Torque	
Dash Size	**Ft/Lbs**	**Newton Meter**
-04	11-12	15-16
-05	15-16	20-22
-06	18-20	24-28
-08	38-42	52-58
-10	57-62	77-85
-12	79-87	108-119

4 TROUBLESHOOTING

In the following section, we have listed some of the problems, causes and solutions that you may encounter. If you encounter a problem that is difficult to solve, even after having read through this troubleshooting section, please call your local dealer or distributor. Before you call, have this manual and the serial number from your unit ready.

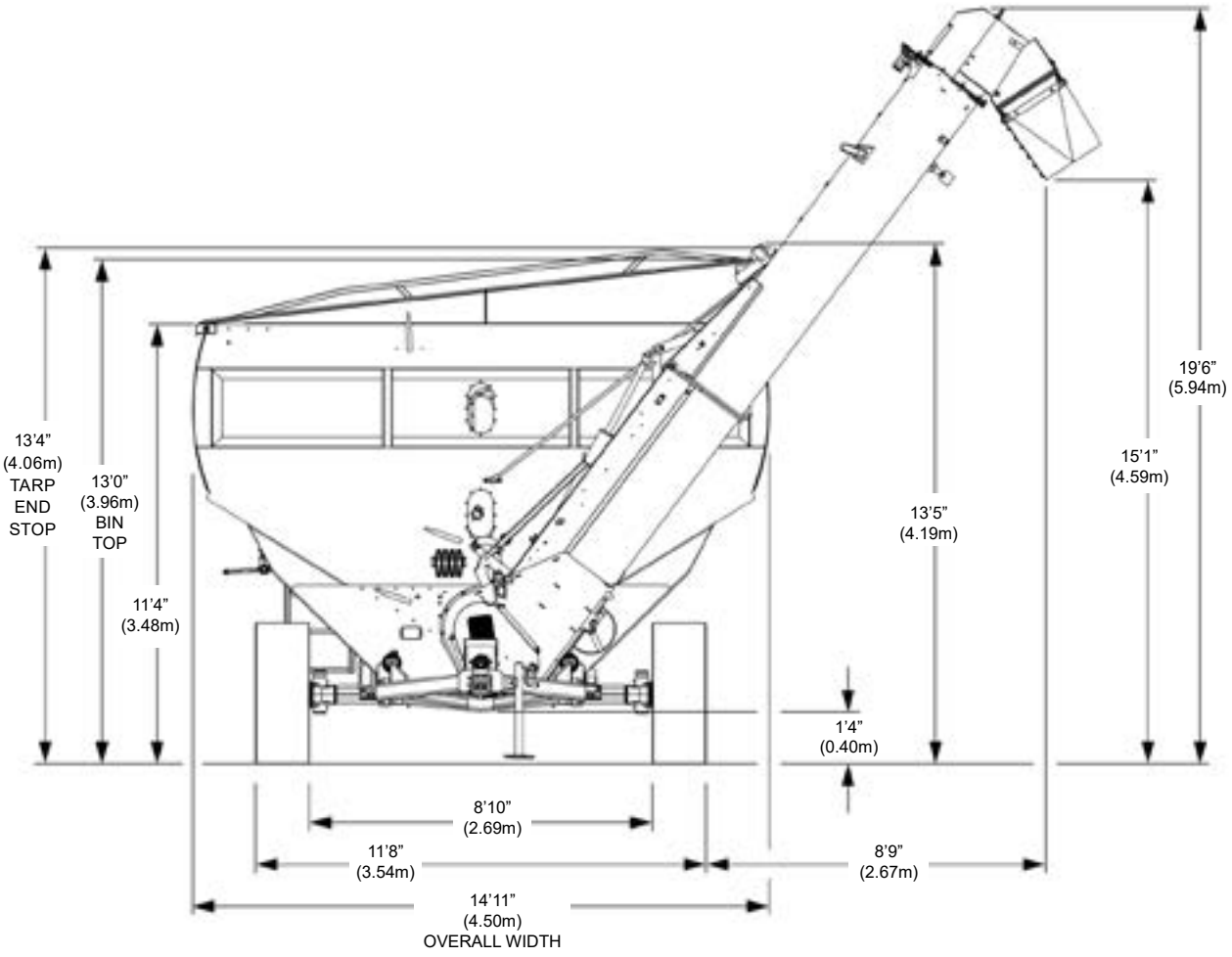
PROBLEM	CAUSE	SOLUTION
Hydraulics creep during operation	Tractor hydraulic leak.	To verify, raise auger half way up, disconnect at tractor. Observe if auger creeps down. If not repair tractor hydraulics
	Damaged Hose or fittings	Search for leaks with a piece of paper (not by hand). Repair as necessary.
Oil accumulation on cylinder shaft.	Hydraulic cylinder leak.	Replace seals or damaged components.
	Oil bypassing seals.	Seal manufacturer advises that small amounts of oil getting past seals is desirable. If problem becomes excessive, replace seals.
Unload too slow. Unload stalls.	Augers may be overloaded.	When unloading, start auger before opening flow control gate. If grain is already in augers, it may be necessary to allow some of it to escape through the clean-out. *(***Note***: Do not drive with unloading auger full. Clean out unloading auger before all transport.)*
Grain escaping through clean-out.	Clean-out latch assembly too loose.	See Adjustment or Clean-out section
	Neoprene seal may be worn or missing.	Replace as required.
Folding joint.	Neoprene seal may be worn or missing.	Replace as required.
	Top bearing out of adjustment.	Adjust top bearing position on the shaft.

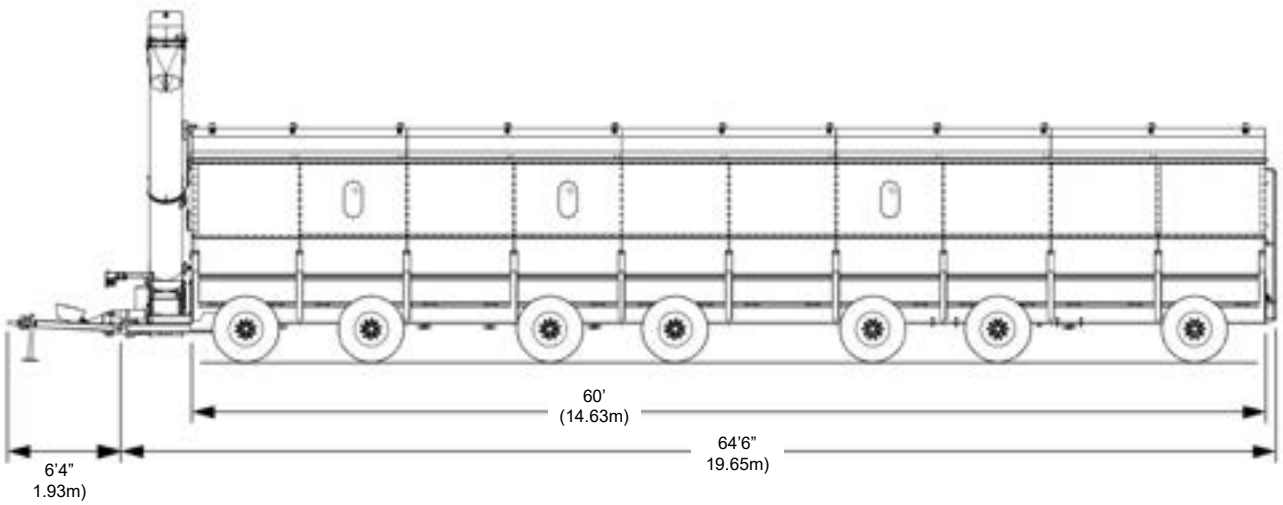

Walkabout
MOTHER BINS

5 SPECIFICATIONS

5.1 DIMENSIONS

Maximum Width	14’11” (4.50m)
Maximum Height (for transport)	13’4” (4.06m)
Height to top of bin side	13’ (3.96m)
Length of Bin	60’ (14.63m)
Length of Bin and Auger Drive Assembly	64’6” (19.65m)
Length of Pull	6’4” (1.93m)
Overall Length	71’ (21.33m)
Ground Clearance	1’4” (0.40m)
Auger Height to spout tip	15’1” (4.80m)
Auger Width to spout	8’9” (2.69m)
Tire Size	VF 445/65R 22.5




60’
(14.63m)
64’6”
19.65m)
6’4”
1.93m)

5.2 OTHER FEATURES / OPTIONS AND SPECIFICATIONS

6000 bushel capacity (165t)

22” Unload auger

Swinging auger spout

Wireless camera system

Highway lights

Auger and bin work lights

Full length clean out

Transition box clean-out

Automatic belt tensioner

Floating bearing at end of unloading auger

Integral frame / axle design

Roll tarp

Steering front and rear axles

Rear split front and rear gates for blending grain

Heavy duty jack

Rear access door

Scales (optional)

Low unload package (optional)

Remote shut off for grain flow

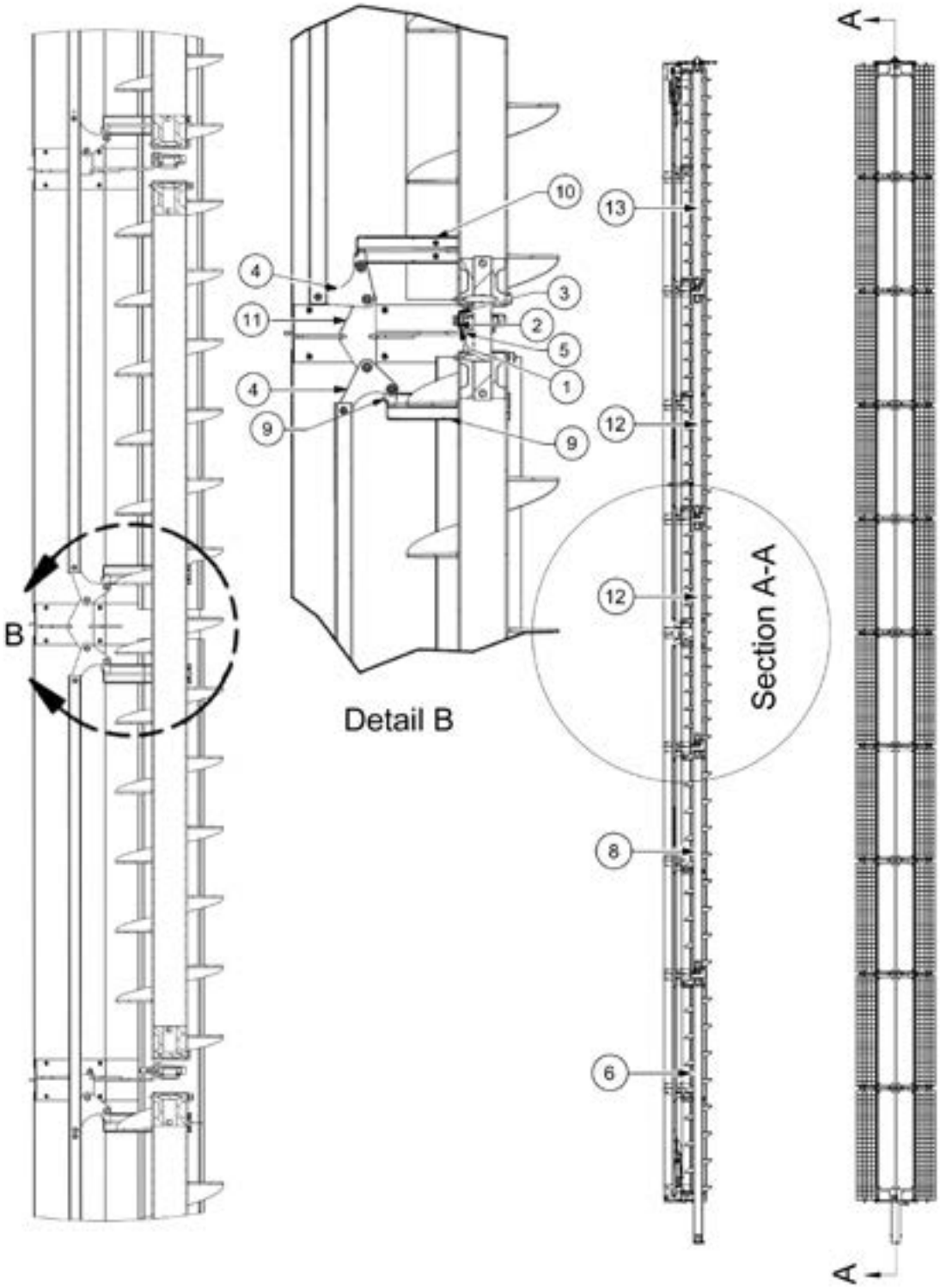
Scoreboard external display (optional)

Vibrator (optional)


Walkabout
MOTHER BINS

6 AUGER AND DRIVE PARTS

Main Frame Connection Detail

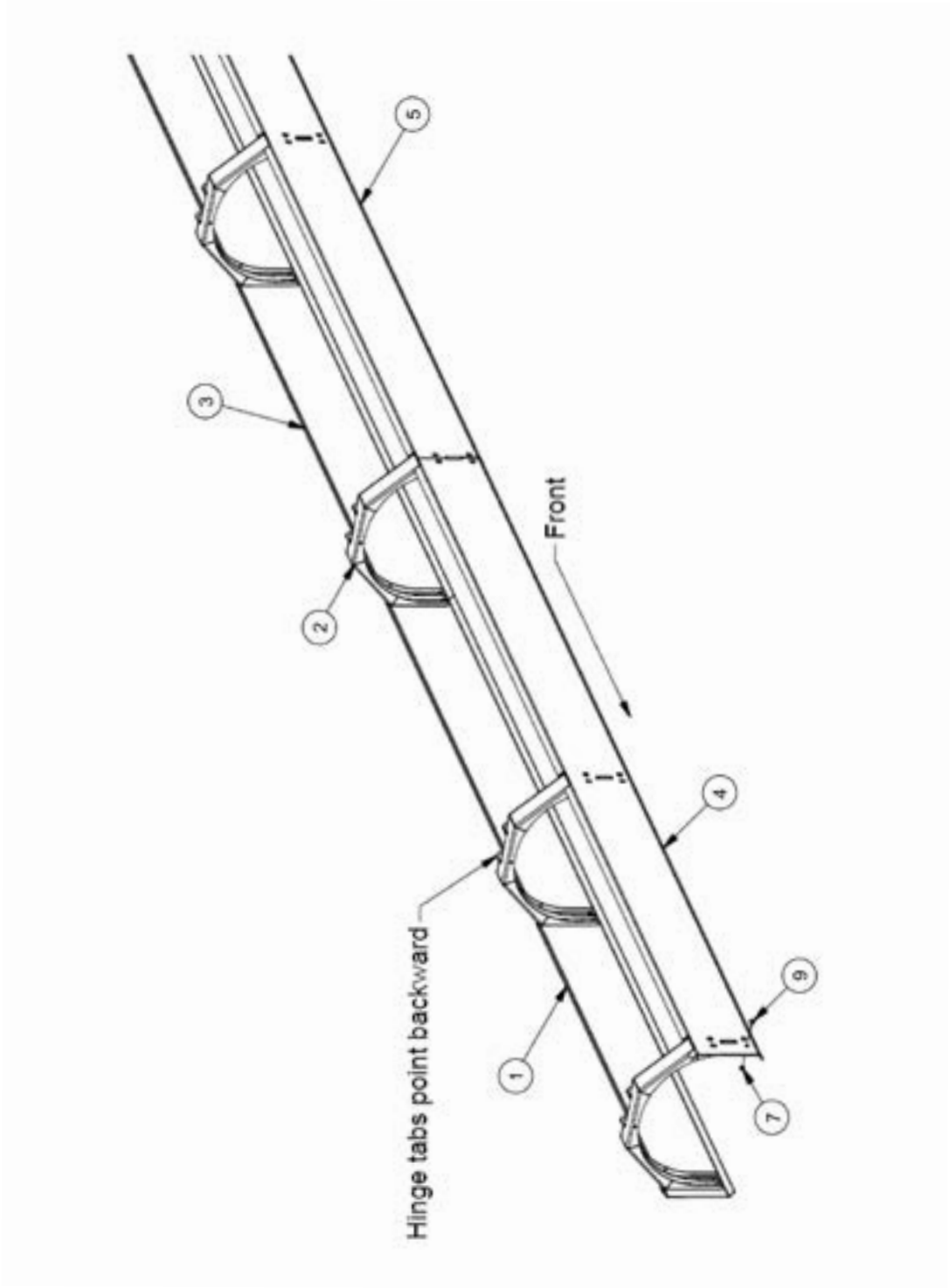


Main Frame Connection Detail

Item	Part #	Description
1	10700100	Lockwasher, 5/8”
2	10712200	Capscrew, 16 mm x 50 mm
3	10720800	Flatwasher, 5/8” ID x 1-7/8” OD
4	10158302	Link Wdmt
5	10159002	Drag Auger Hanger Bearing Bracket
6	12977801	Drag Auger Flighting Wdmt - 1
7	12994401	Drag Auger Flighting Wdmt - 4
8	12980801	Drag Auger Flighting Wdmt - 2
9	12981800	23.5’ Front Gate Sub Asby
10	12981900	23.5’ Rear Gate Sub Asby
11	13064501	Cross Brace Wdmt
12	12994401	Drag Auger Fligting Wdmt - 3
13	12979301	Drag Auger Flighting Wdmt - 5

NOTE: Auger flighting wdmts are positioned front to back.

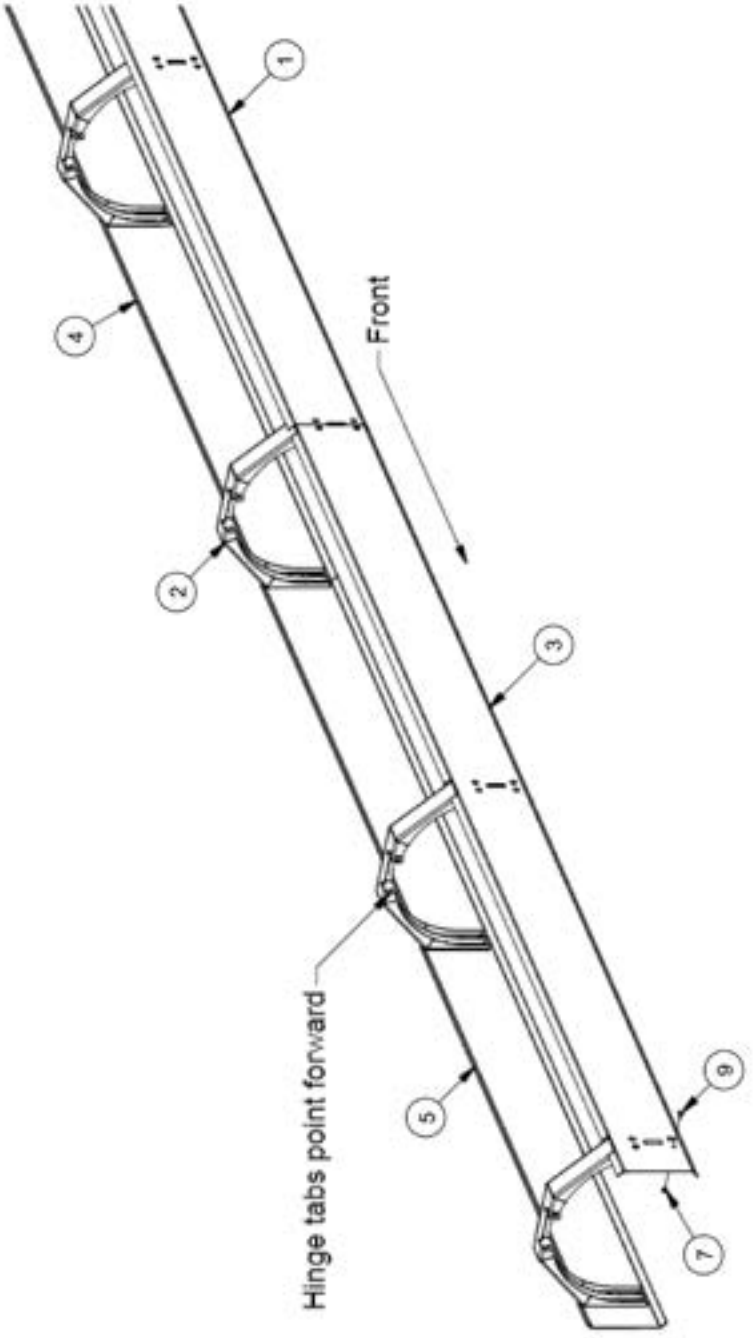
Main Frame Auger Gates



Main Frame Auger Gates

Item	Part #	Description
1	12981502	Front Right Gate - 134.25”
2	10158102	Gate Bracket Wdmt
3	12982202	Rear Left Gate - 148.5”
4	12982302	Front Left Gate - 134.25”
5	12982502	Rear Right Gate - 148.5”
6	10736100	Carriage Bolt, 1/4” x 3/4”
7	10736200	Nut, Flange, Top Locking, 1/4”

Main Frame Auger Gates

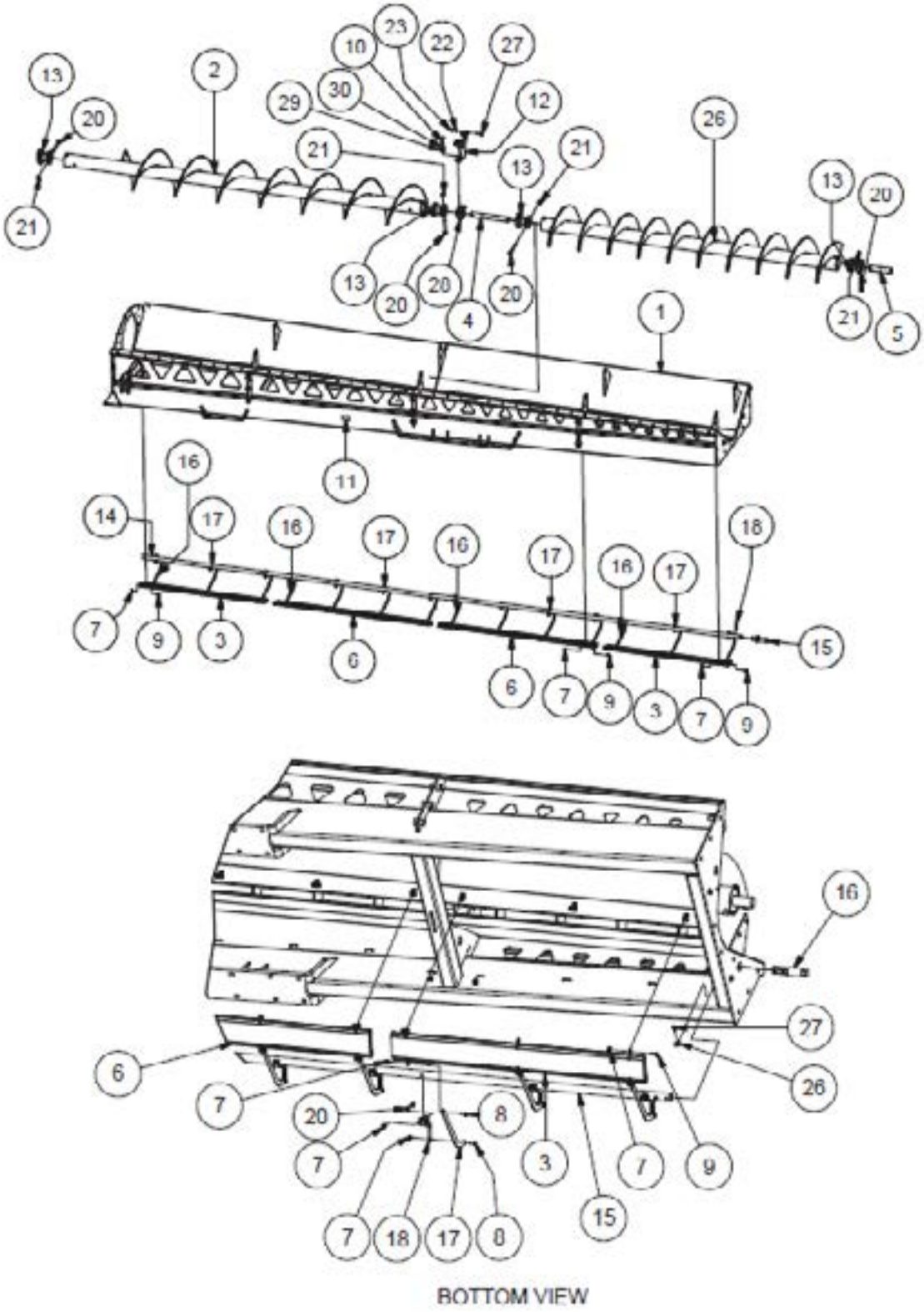


Main Frame Auger Gates

Item	Part #	Description
1	12982702	Rear Left Gate - 134.25”
2	10158102	Gate Bracket Wdmt
3	12982202	Rear Left Gate - 148.5”
4	12982402	Rear Right Gate - 134.25”
5	12982502	Rear Right Gate - 148.5”
6	10736100	Carriage Bolt, 1/4” x 3/4”
7	10736200	Nut, Flange, Top Locking, 1/4”

6 AUGER AND DRIVE PARTS

Main Frame - 1300, 1600, 2000

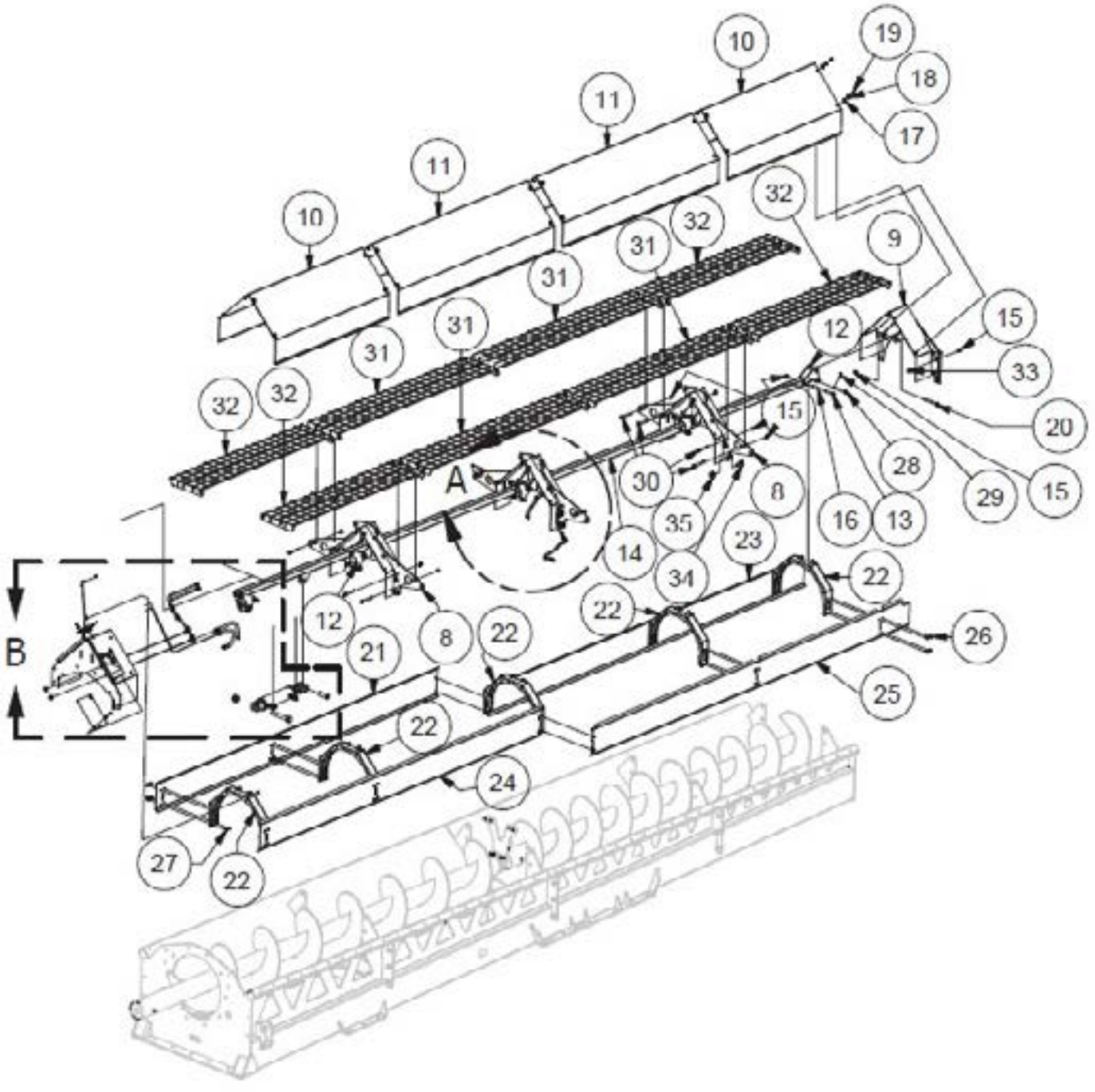


Main Frame - 1300, 1600, 2000

Item	Part #	Description
1	10050002	Main Frame
2	10086306	Front Drag Auger Flighting Wdmt
3	10172102	54” Cleanout Door Wdmt
4	10112307	Drag Auger Joint Shaft
5	10112507	Rear Drag Auger Shaft
6	10172602	67.5” Cleanout Door Wdmt
7	10736400	Locknut, Nylon Insert, 3/8”
8	10727300	Capscrew, 3/8” x 1”
9	10735700	Capscrew, 3/8” x 1-1/4”
10	10712200	Capscrew, 16 mm x 50 mm
11	11845400	Important - Tires & Wheel Decal
12	10159002	Drag Auger Hanger Bearing Bracket
13	10167000	2” Shaft Adapter
14	10114409	Cleanout Gate Rockshaft
15	10149107	Gate Rockshaft Coupler
16	10088102	Link Arm
17	10137402	Cleanout Gate Cam
18	10742800	Roll Pin, 3/8” x 3.0”
19	10737200	Capscrew, 3/8” x 3”
20	10739800	Capscrew, 3/4” x 6-1/2”
21	10716100	Nut, Stover, 3/4” UNC
22	10700700	Lockwasher, 1/2”
23	10700600	Hex Nut, 1/2”
24	11865500	Loop Wire Clip, 1/2” x 1/2”
25	10711200	Self-tapping Screw, 1/4” x 1”
26	10086006	Rear Drag Auger Flighting Wdmt
27	10739400	Capscrew, 1/2” x 2”
28	11819501	TB210 Bearing Housing (Tapped Hole)
29	10720800	Flatwasher, 5/8” ID x 1-7/8 OD
30	10700100	Lockwasher, 5/8”

6 AUGER AND DRIVE PARTS

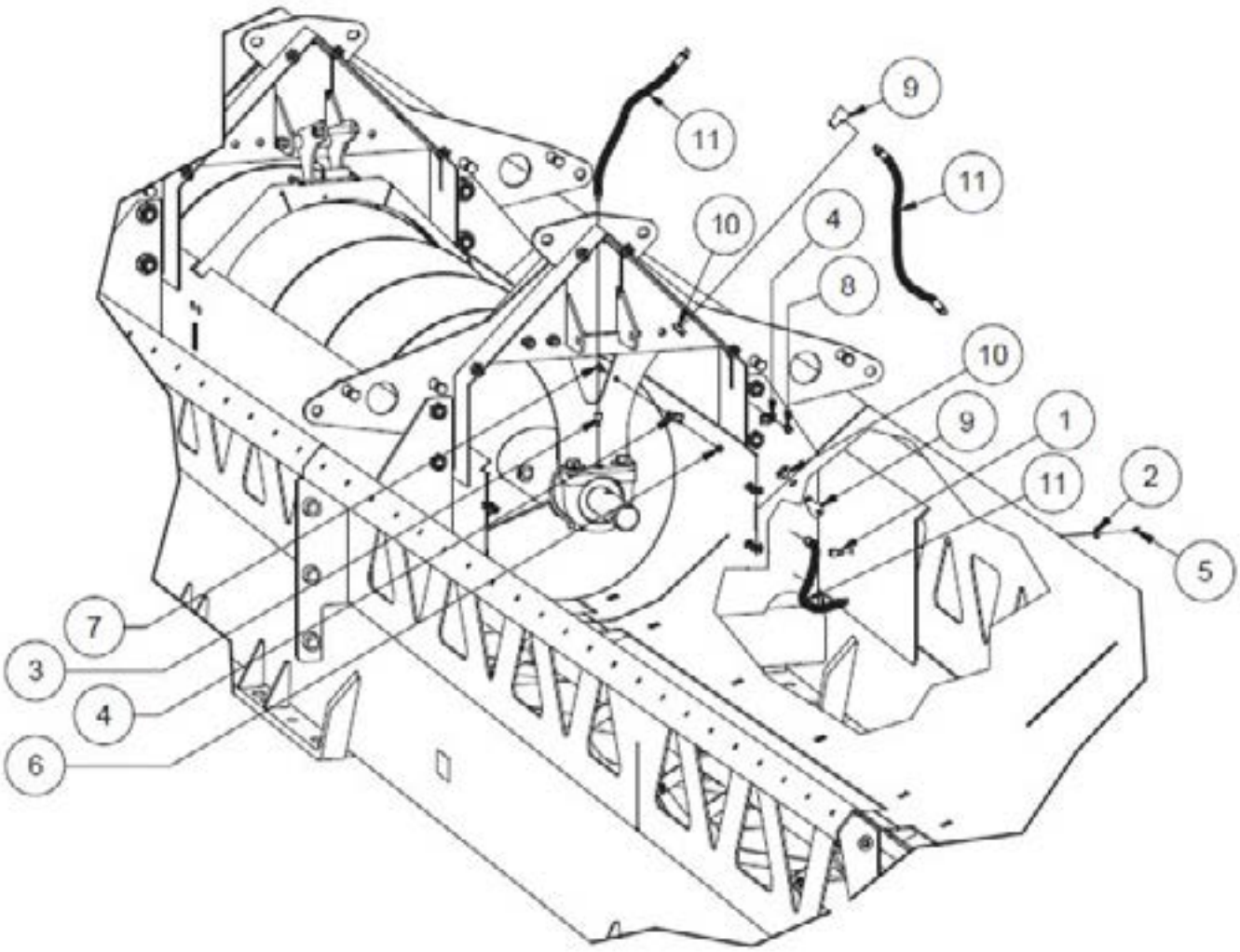
Horizontal Auger Gate - 1300, 1600, 2000



Horizontal Auger Gate - 1300, 1600, 2000

Item	Part #	Description
1	10708500	Hex Jam Nut, 5/8” RH
2	10711200	Self-tapping Screw, 1/4” x 1”
3	10728900	Capscrew, 1/4” x 3/4”
4	10743900	Jam Nut, 3/8” UNF
5	10744100	Reducer, 11/32” - 1/4”
6	10746800	Stover Nut, 1/4” UNF
7	10883300	Grease Fitting, Straight, 1/4” UNF
8	10220702	Cross Brace Wdmt
9	10156902	Rear Gate Hood
10	10154502	Hood - 49-3/4”
11	10157802	Hood - 68-1/4”
12	10158302	Link Wdmt
13	10705000	Capscrew, 1/2” x 3-1/4”
14	10159802	Tube Link Wdmt
15	10700800	Nylon Locknut, 1/2”
16	10197407	Bushing, 0.75 OD x 0.51 ID x 2.0625
17	10701800	Flatwasher, 1.00” OD 3/8” ID
18	10702100	Lockwasher, 3/8”
19	10737600	Capscrew, ZP, 3/8” x 3/4”
20	10739500	Capscrew, 1/2” x 5-1/2”
21	10156002	Front Right Gate - 123”
22	10158102	Gate Bracket Wdmt
23	10158602	Rear Right Gate - 139”
24	10158702	Front Left Gate - 123”
25	10158802	Rear Left Gate - 139”
26	10736100	Carriage Bolt, 1/4” x 3/4”
27	10736200	Nut, Flange, Top Locking, 1/4”
28	11860207	Button Head Pin, 1/2” x 5
29	10894900	Cotter Pin, 5/32” x 1
30	10726700	Capscrew, 1/2” x 4
31	10198202	6’ Guard
32	10194702	5’ Guard
33	10708600	Capscrew, 1/2” x 1-1/2”
34	10707800	Capscrew, 3/4” x 1-1/2”
35	10750000	Flange Nut Serrated, 3/4”
36	12853607	Grease Hose Fitting
37	11855200	Grease Fitting, Adapter
38	11865500	Loop Wire Clip, 1/2” x 1/2”

Horizontal Auger Gate - 1300, 1600, 2000 - Detail

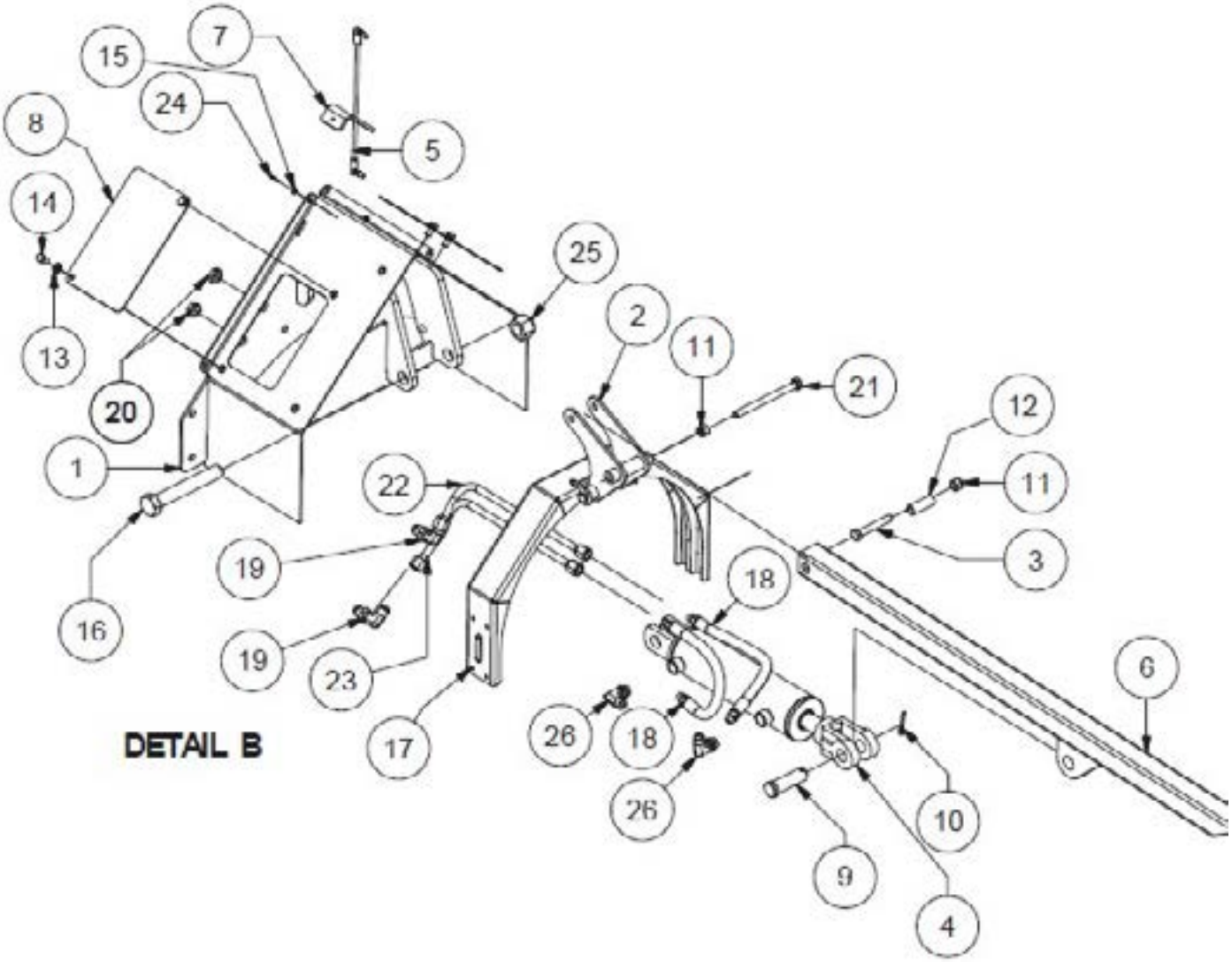


DETAIL A

Horizontal Auger Gate - 1300, 1600, 2000 - Detail

Item	Part #	Description
1	11855200	Grease Fitting, Adapter
2	10743900	3/8” UNF Jam Nut
3	10744100	Reducer 11/32” - 1/4”
4	11865500	1/2” x 1/2” Loop Wire Clip
5	10883300	Grease Fitting, Straight - 1/4” UNF
6	10746800	Stover Nut, 1/4” UNF
7	10728900	Capscrew, 1/4” x 3/4”
8	10711200	Self-tapping Screw, 1/4” x 1
9	112853600	Grease Hose Fitting
10	10708500	Hex Jam Nut, 5/8” RH
11	11863500	Grease Hose, 18”

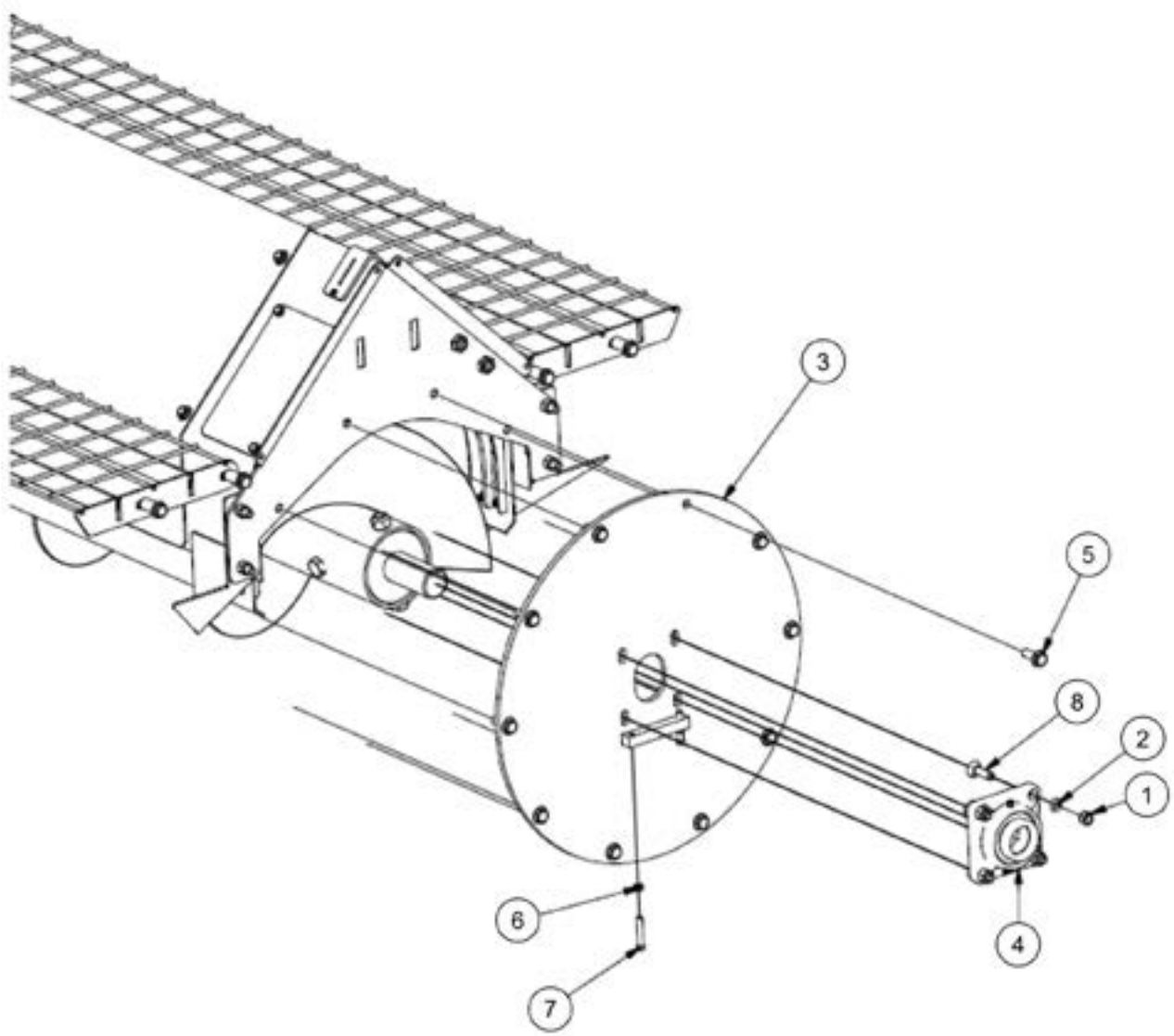
Horizontal Auger Gate Hydraulics - All Carts



Horizontal Auger Gate Hydraulics - All Carts

Item	Part #	Description
1	10157502	Front Hood
2	10158302	Link
3	10705000	Capscrew, 1/2” x 3-1/4”
4	11831000	3” x 8” Cylinder - Double Acting
5	11851500	1/4” Tie Rod - 10.5”
6	10154700	Tube Link - Black
7	10196400	Rubber Grommet
8	10197302	Access Port cover
9	10880800	Cylinder Pin, 1.00” OD x 2.75”
10	10894700	Cotter Pin, 3/16” x 1-1/2”
11	10700800	Nylon Locknut, 1/2”
12	10197407	Bushing 0.75 OD x 0.51 ID x 2.0625
13	10702100	Lockwasher, 3/8”
14	10737600	Capscrew, ZP, 3/8” x 3/4”
15	10755800	Flatwasher, #8 (3/16” ID x 7/16” OD)
16	10730700	Capscrew, 1” x 6-1/2”
17	10158102	Gate Bracket
18	20028300	Hyd Hose 24” (G24)
19	20016100	8MJ 8MJ - Hydraulic Fitting 90 Bulkhead
20	20016600	08s- Bulkhead Nut
21	10726600	Capscrew, 1/2” x 6” UNC
22	20026000	Gate Sys Hyd Tube (STG-16)
23	20026100	Gate Sys Hyd Tube (STG-18)
24	10755900	Self Tapping Screw #8 x 1”
25	10742600	Locknut, Nylon, 1”
26	20016700	8MJ-8MB 90 Elbow

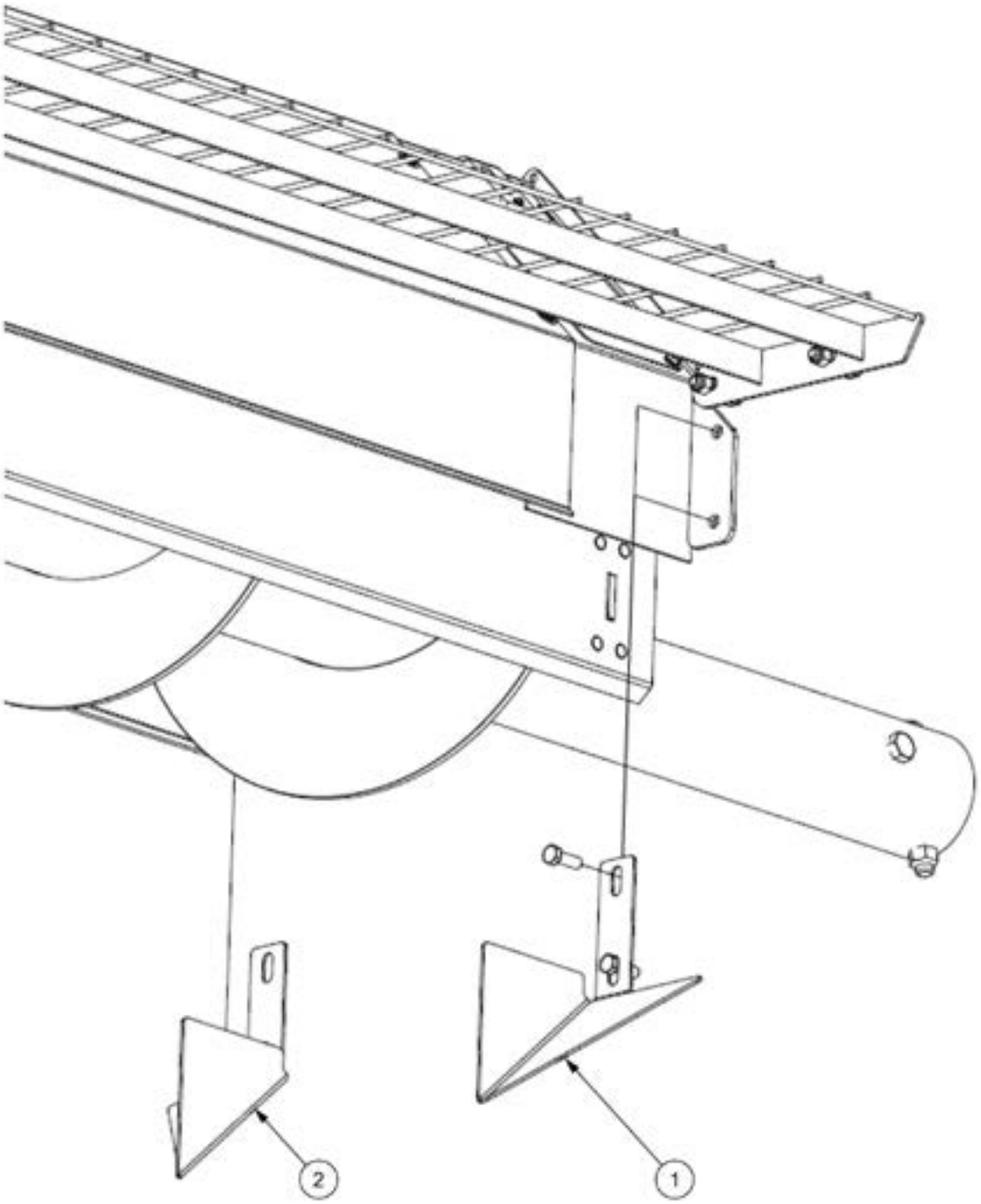
Drag Auger End Plate



Drag Auger End Plate

Item	Part #	Description
1	10700600	Hex Nut, 1/2”
2	10700700	Lockwasher, 1/2”
3	10147302	Drag Auger End Plate Wdmt
4	11823400	Bearing, 2” F210 Housing Asby
5	10723600	Flange Head Bolt, 1/2” x 1/2”
6	10740100	Hex Jam Nut, 3/8”
7	10743600	Setscrew, Sq. Head, 3/8” x 2”
8	10736700	Carriage Bolt, 1/2” x 1-3/4”

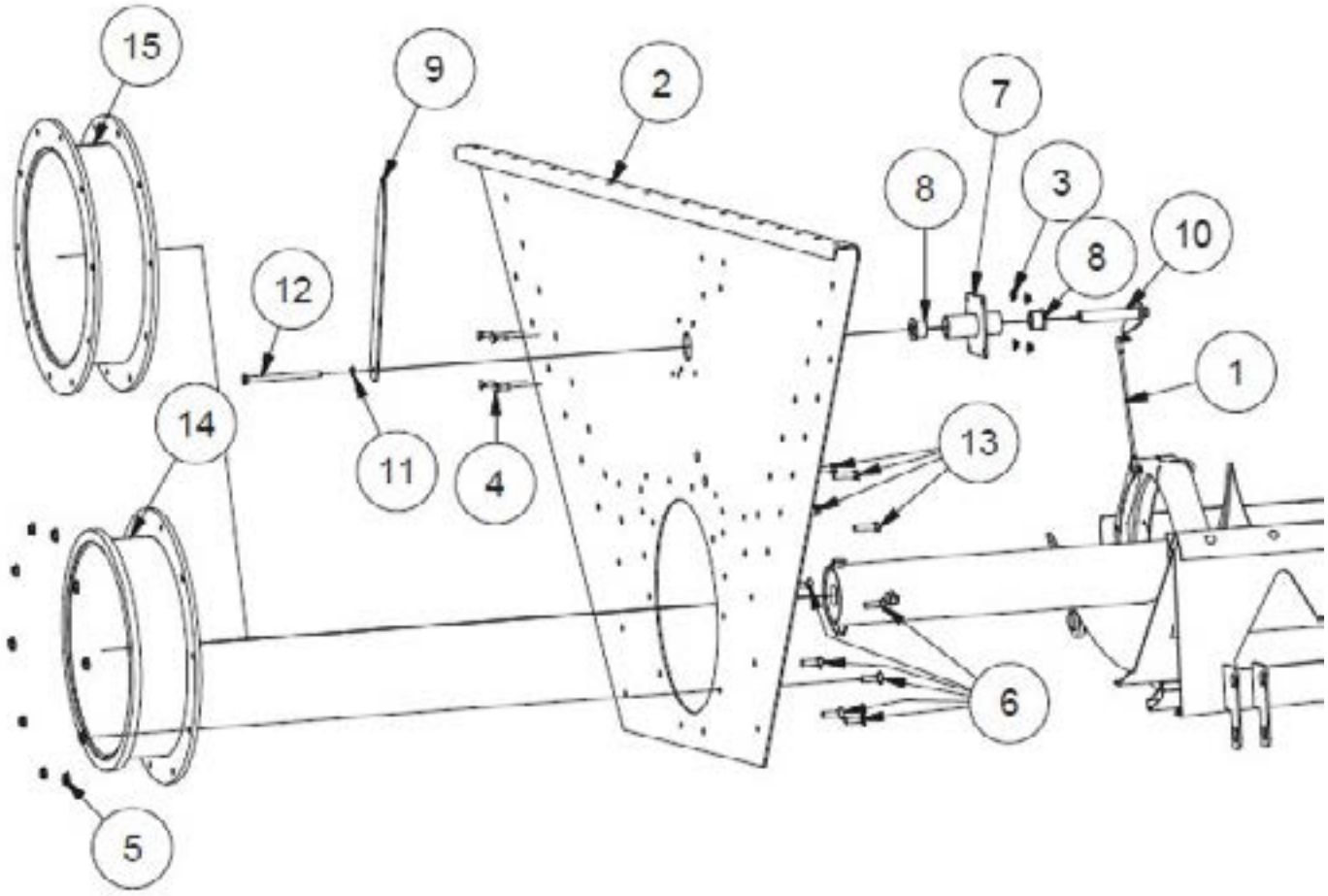
Drag Auger Gates Cover Plates



Drag Auger Gates Cover Plates

Item	Part #	Description
1	12983401	Right Leak Cover
2	12983301	Left Leak Cover

Front Panel - Gate Indicator



Front Panel - Gate Indicator

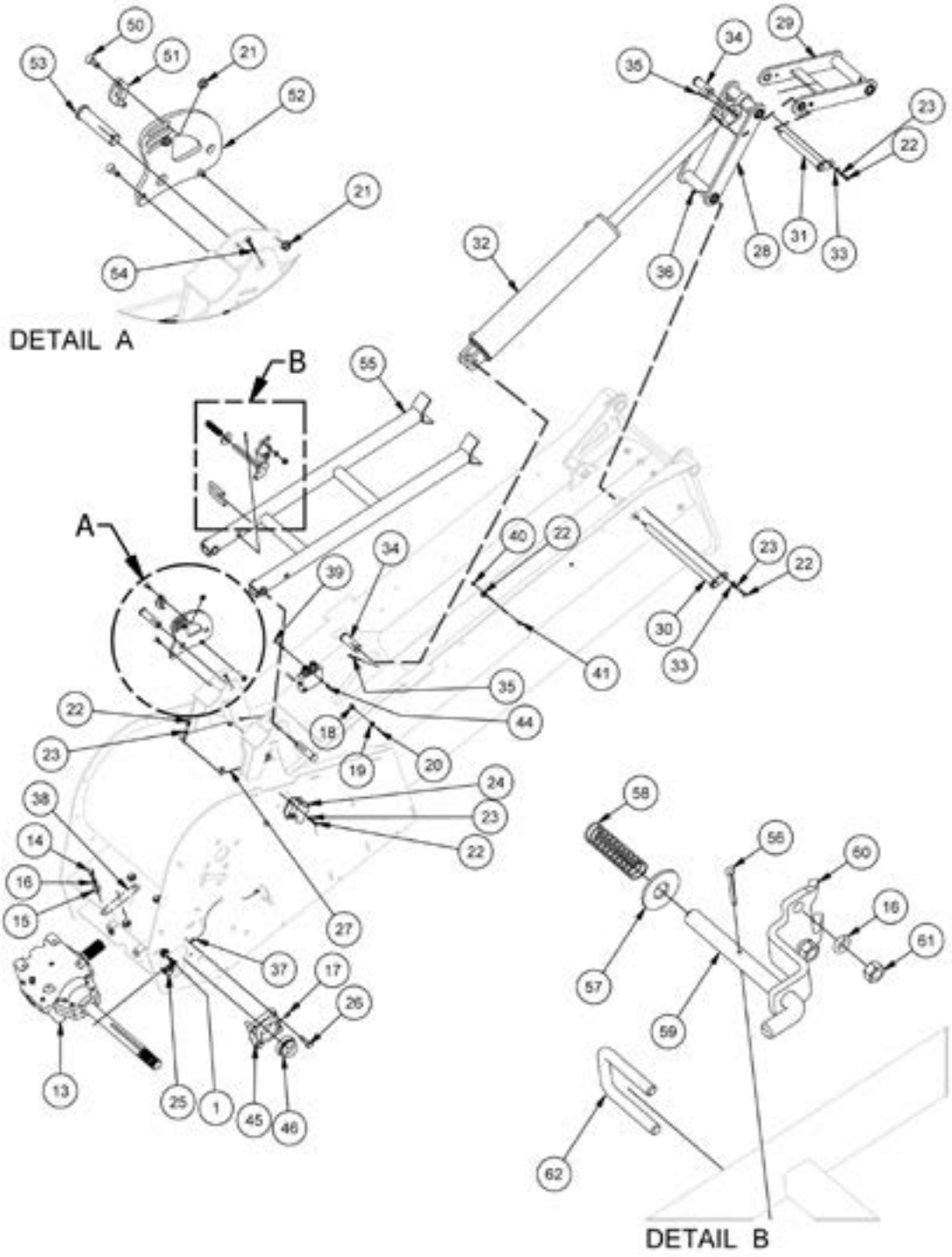
Item	Part #	Description
1	11851500	1/4" x 10" Tie Rod Assembly
2	110039XX*	Front Lower Panel
3	10726000	Flange Nut, 3/8”
4	10712700	Carriage Bolt, 3/8” x 1-1/4”
5	10706600	Nut, Flange - 1/2”
6	10736700	Carriage Bolt, 1/2” x 1-3/4”
7	10159102	Gate Indicator Bearing Wdmt
8	10808700	1.00 Nylon Bushing
9	10113502	Gate Indicator Plate
10	10159602	Indicator Top Lever
11	10700700	Lockwasher, 1/2”
12	10743000	Capscrew, 1/2” x 7”
13	10739400	Capscrew, 1/2” x 2”
14	110044XX*	Pivot Auger Spacer Ring Wdmt**
15	100561XX*	Fixed Auger Spacer Ring Wdmt

* XX denotes colour option. Replace with 03 for Red, 04 for Green, 05 for Blue and 14 for Yellow.

** See Optional Pivot Auger

6 AUGER AND DRIVE PARTS

Auger 22” - Lower Assembly

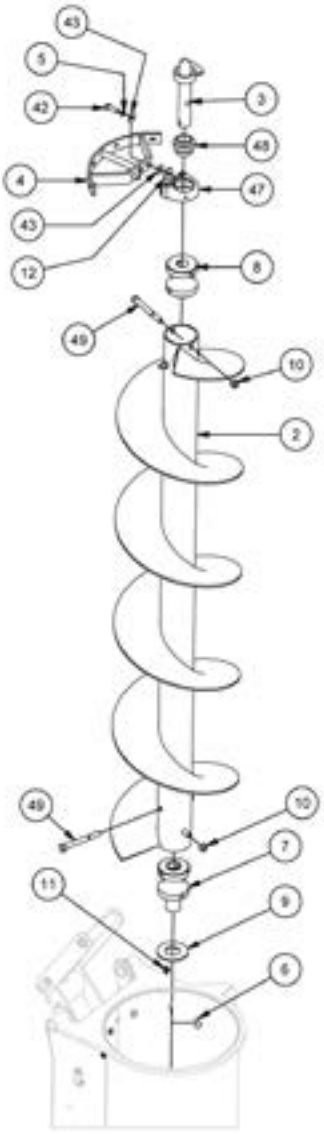


Auger 22” - Lower Assembly

Item	Part #	Description	Item	Part #	Description
1	130570XX	Anderson MB 22” Lower Auger WDMT	33	10701800	Flatwasher, 1.00” OD 3/8” ID
2	13058001	Anderson MB - 22” Lower Auger Flighting WDMT	34	11857400	Pin, 1-1/4” x 3-1/2”
3	10095306	Auger Drive Lug Wdmt	35	10722900	Cotter Pin, 1/4” x 2-1/2”
4	10111302	Hanger Bearing Bracket - 22”	36	10890000	Grease Fitting, 1/4” UNF, 90
5	10700100	Lockwasher, 5/8”	37	11863500	18” Grease Hose
6	10709200	Carriage Bolt, 1/2” x 1-1/2”	38	10293307	Gearbox Slim
7	10195100	Lower Auger Adapter	39	10737000	Capscrew, 5/16” x 2”
8	10167000	2” Shaft Adapter	40	10745400	Stover Nut, 1/4” UNC
9	10142100	Grain Seal	41	10728900	Capscrew, 1/4” x 3/4”
10	10716100	Nut, Stover, 3/4” UNC	42	10712200	Capscrew, 16 mm x 50 mm
11	10706600	Nut, Flange - 1/2”	43	10720800	Flatwasher, 5/8” ID x 1-7/8” OD
12	10810700	Rolling Shield Washer	44	10737100	Stover Nut, 5/16”
13	11870000	RH / LH Gearbox - 90 Degree	45	11813700	F209 Housing (1-3/4” Bearing)
14	10705700	Capscrew, 1/2” x 1-3/4”	46	11823800	209 - 1-3/4” Bearing / Lock Collar Asby
15	10723200	Flatwasher, 1/2”	47	11819501	Bearing Housing, PA210 - Machined KML
16	10700700	Lockwasher, 1/2”	48	11823600	Bearing w/ Locking Collar - 2” (210) UEL210-200D1
17	10744100	Reducer 11/32” 1/4”	49	10748600	Cap Screw, Hex Head, Gr 8, 3/4” UNC x 7”, YZ
*18	11855200	Grease Fitting, Adapter	50	10740300	Carriage Bolt, Full Thread, Gr 5, 3/8” UNC x 1” YZ
*19	10743900	3/8” UNF Jam Nut	51	10127902	Auger Rest Adjust Plate, GC Lower Auger, Black
20	10883300	Grease Fitting, Straight - 1/4” UNF	52	10114602	Latch Plate, Auger Rest - Black
21	10726000	Flange Nut, 3/8”	53	10885200	Cylinder Pin,
22	10727300	Capscrew, 3/8” x 1”	54	10894700	Cotter Pin, 3/16” x 1-1/2”
23	10702100	Lockwasher, 3/8”	55	10113602	Field Position Bracket - Black
24	10143502	Bracket Wdmt	56	10886000	Cotter Pin, 3/16” x 1-3/4”
25	10221202	Autolog Sensor Bracket	57	10721300	Flat Washer, USS, 3/4”, YZ
26	10702800	Capscrew, 5/8” x 2”	58	11846300	Compression Spring, 0.9740” OD x 0.0840” wire x 2.866” L
27	10110902	Auger Cover Plate	59	10124607	Auger - Rest Latch Pin - Clear Zinc
28	10057602	Lower Auger Linkage	60	10121502	Latch Pin Bracket, Auger Rest - Black
29	10058102	Top Link Wdmt	61	10700600	Hex Nut, Gr 5, 1/2” UNC, YZ
30	10143707	Auger Linkage Pin - Bottom	62	10700500	U-Bolt, 1/2” UNC x 2” x 2” x 2”, CZ
31	10144007	Auger Linkage Pin - Mid			
32	11841000	4” x 24” Cylinder			

6 AUGER AND DRIVE PARTS

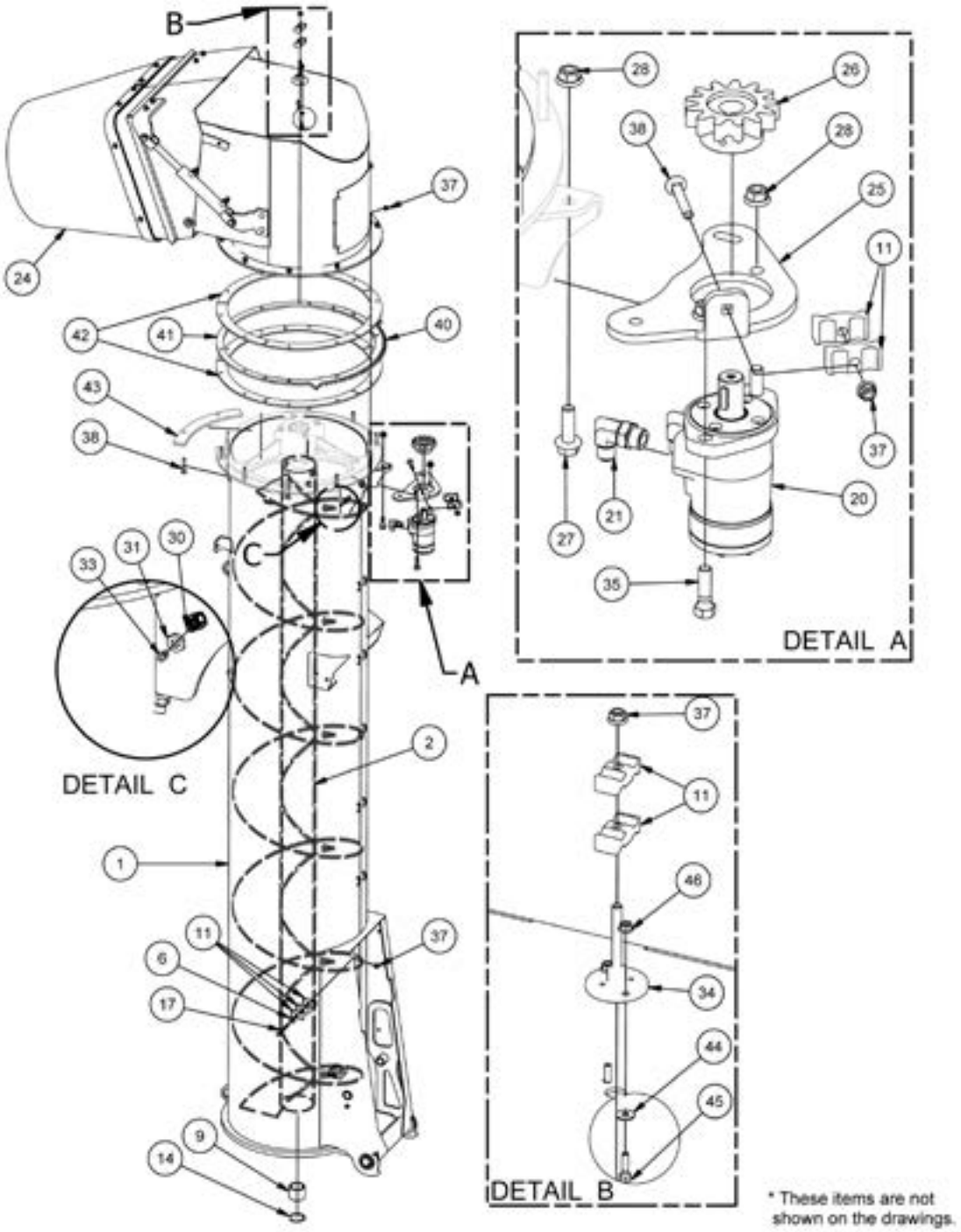
Auger 22” - Auger Assembly



Auger 22” - Auger Assembly

Item	Part #	Description	Item	Part #	Description
1	130570XX	Anderson MB 22” Lower Auger WDMT	33	10701800	Flatwasher, 1.00” OD 3/8” ID
2	13058001	Anderson MB - 22” Lower Auger Flighting WDMT	34	11857400	Pin, 11/4” x 3-1/2”
3	10095306	Auger Drive Lug Wdmt	35	10722900	Cotter Pin, 1/4” x 2-1/2”
4	10111302	Hanger Bearing Bracket - 22”	36	10890000	Grease Fitting, 1/4” UNF, 90
5	10700100	Lockwasher, 5/8”	37	11863500	18” Grease Hose
6	10709200	Carriage Bolt, 1/2” x 1-1/2”	38	10293307	Gearbox Shim
7	10195100	Lower Auger Adapter	39	10737000	Capscrew, 5/16” x 2”
8	10167000	2" Shaft Adapter	40	10745400	Stover Nut, 1/4” UNC
9	10142100	Grain Seal	41	10728900	Capscrew, 1/4” x 3/4”
10	10716100	Nut, Stover, 3/4” UNC	42	10712200	Capscrew, 16 mm x 50 mm
11	10706600	Nut, Flange - 1/2”	43	10720800	Flatwasher, 5/8” ID x 1-7/8” OD
12	10810700	Rolling Shield Washer	44	10737100	Stover Nut, 5/16”
13	11870000	RH / LH Gearbox - 90 Degree	45	11813700	F209 Housing (1-3/4” Bearing)
14	10705700	Capscrew, 1/2” x 1-3/4”	46	11823800	209 - 1-3/4”: Bearing / Lock Collar Asby
15	10723200	Flatwasher, 1/2”	47	11819501	Bearing Housing, PA210 - Machined KML
16	10700700	Lockwasher, 1/2”	48	11823600	Bearing w/ Locking Collar - 2” (210) UEL210-200D1
17	10744100	Reducer 11/32” 1/4”	49	10748600	Cap Screw, Hex Head, Gr 8, 3/4” UNC x 7”, YZ
*18	11855200	Grease Fitting, Adapter	50	10740300	Carriage Bolt, Full Thread, Gr 5, 3/8” UNC x 1”, YZ
*19	10743900	3/8” UNF Jam Nut	51	10127902	Auger Rest Adjust Plate, GC Lower Auger, Black
20	10883300	Grease Fitting, Straight - 1/4” UNF	52	10114602	Latch Plate, Auger Rest - Black
21	10726000	Flange Nut, 3/8”	53	10885200	Cylinder Pin, 1.00 OD x 4.10
22	10727300	Capscrew, 3/8” x 1	54	10894700	Cotter Pin, 3/16” x 1-1/2”
23	10702100	Lockwasher, 3/8”	55	10113602	Field Position Bracket - Black
24	10143502	Bracket Wdmt	56	10886000	Cotter Pin, 3/16 “ x 1-3/4”
25	10221202	Autolog Sensor Bracket	57	10721300	Flat Washer, USS, 3/4”, YZ
26	10702800	Capscrew, 5/8” x 2”	58	11846300	Compression Spring, 0.9740” OD x 0.0840” wire x 2.866” L
27	10110902	Auger Cover Plate	59	10124607	Auger - Rest Latch Pin - Clear Zinc
28	10057602	Lower Auger Linkage	60	10121502	Latch Pin Bracket, Auger Rest - Black
29	10058102	Top Link Wdmt	61	10700600	Hex Nut, Gr 5, 1/2” UNC, YZ
30	10143707	Auger Linkage Pin - Bottom	62	10700500	U-Bolt, 1/2” UNC x 2” x 2” x 2”, CZ
31	10144007	Auger Linkage Pin - Mid			
32	11841000	4” x 24” Cylinder			

Auger 22” - Upper Assembly

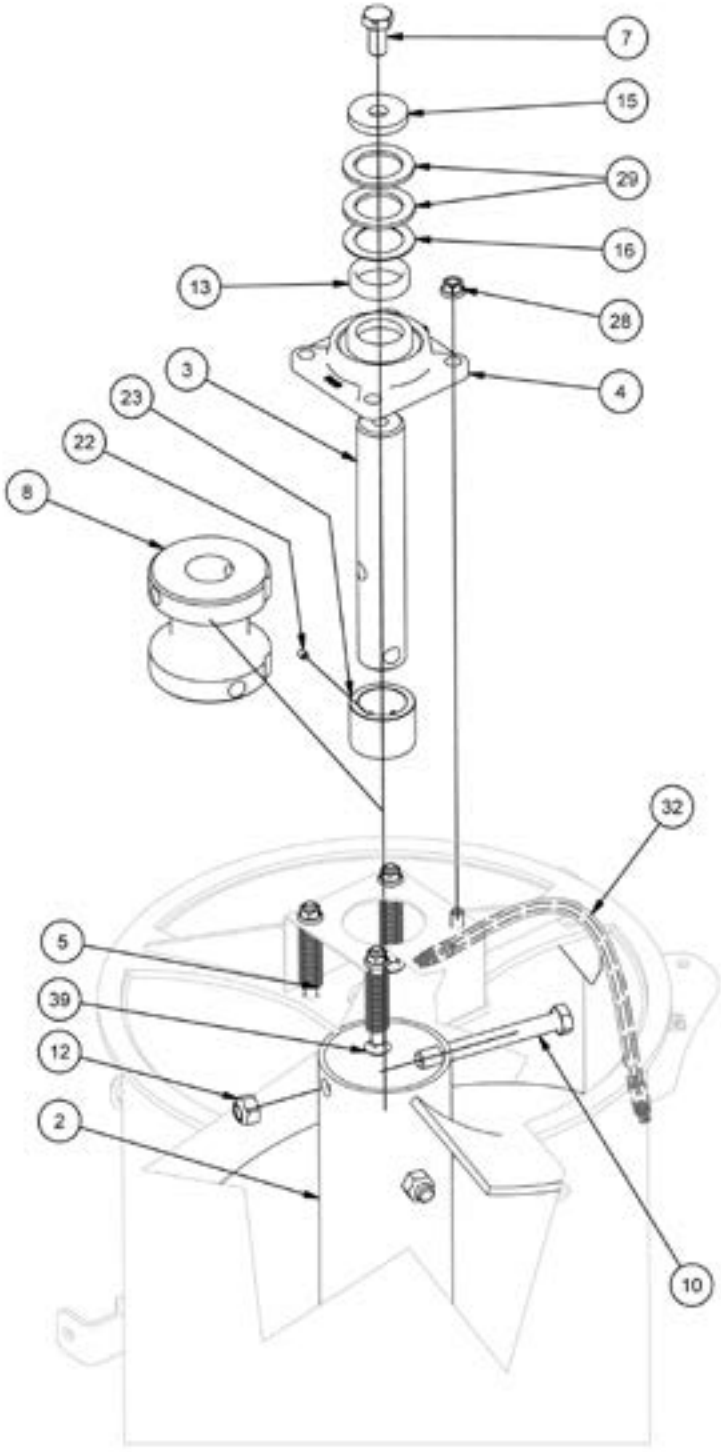


Auger 22” - Upper Assembly

Item	Part #	Description	Item	Part #	Description
1	139034XX	HM1 Upper Auger Wdmt, HM2 Double Pivot Spout, 22” - Paint Ready	24	13427800	Spout Assy, 22”, HM2.0
2	12971306	Flighting Wdmt, Upper Auger 22” - Double Pivot	25	13904402	Plate, Motor Mount - Pivoting Spout, 22” HM1
3	10112207	Vertical Auger Top Shaft	26	13427602	Spout Pinion
4	11823400	2” Bearing, F210 Housing Asby	27	10723600	Flange Bolt, Hex Head, Gr 5, 1/2” UNC x 1-1/2”, YZ
5	11815300	Top Auger Spring	28	13625500	Hex Flange Locknut, Top Locking, Gr C, 1/2” UNC, YZ
6	10701800	Flatwasher, 1.00” OD 3/8” ID	29	10236400	Washer, 3.000” OD x 2.010” ID x 0.188”
7	10707800	Capscrew, 3/4” x 1-1/2”	30	11855200	Grease Fitting, Adapter
8	10167000	2” Shaft Adapter	31	10743900	3/8” UNF Jam Nut
9	11857300	Bushing, Steel Spring, 2-1/2” OD x 2” ID x 1/4”, 2 L	32	1863500	18” Grease Hose
10	10739800	Capscrew, 3/4” x 6 -1/2” UNC GR 8	33	10883300	Grease Fitting, Straight - 1/4” UNF
11	10908800	Hydraulic Line Clamp	34	13894802	Machined One Piece Hose Mount
12	10716100	Nut, Stover, 3/4” UNC	35	10705700	Cap Screw, Hex Head, Gr 5, 1/2” UNC x 1-3/4”, YZ
13	10268507	Shaft Spacer, Auger Top	*36	11875600	Cable Tie, 14” - Black
14	11896100	Internal Retaining Ring 2.50”	37	13625400	Hex Flange Locknut, Top Locking, Gr F, 3/8” UNC, YZ
15	10291707	Flatwasher, 2.50” x 13/16” - 3/8”	38	10778500	Carriage Bolt, Partial Thread, Gr 5, 3/8” UNC x 2-1/2”, YZ
16	10235707	Shim, 2” ID x 1/16”	39	10710800	Carriage Bolt, Partial Thread, Gr 5, 1/2” UNC x 5”, YZ
17	10739100	Capscrew, 3/8” x 3-1/2”	40	13906702	Pivot Ring, Gear Spout, 22”, Half Ring, HM2.0
*18	1186200	NDA Self Adhesive Foam 5/8” x 3/4” 20 ft	41	13906802	Pivot Ring, Quarter Plate, 22”, HM2.0
*19	11886400	Sealant, Rock River 100% RTV - 1” Tube 300 ml	42	13906300	Sliding Plate, Plastic 22” - HM 2.0
20	12972900	Hydraulic Motor, Auger Spout - BMRS-160P4AIIY5	43	13906402	Clamp Plate, Pivoting Spout, 22”, HM2.0
21	20141400	Hydraulic Fitting, 90 Deg Elbow 8MJ/10MB	44	10737700	Flat Washer, USS, 1/4”, YZ
22	12726000	Set Screw, Socket Head, 3/8” x 3/8” UNF	45	10727200	Cap Screw, Hex Head, Gr 5, 1/4” UNC x 1, YZ
23	13062807	Auger Locking Sleeve	46	10736200	Hex Flange Locknut, Top Locking, Gr F, 1/4” UNC, YZ

6 AUGER AND DRIVE PARTS

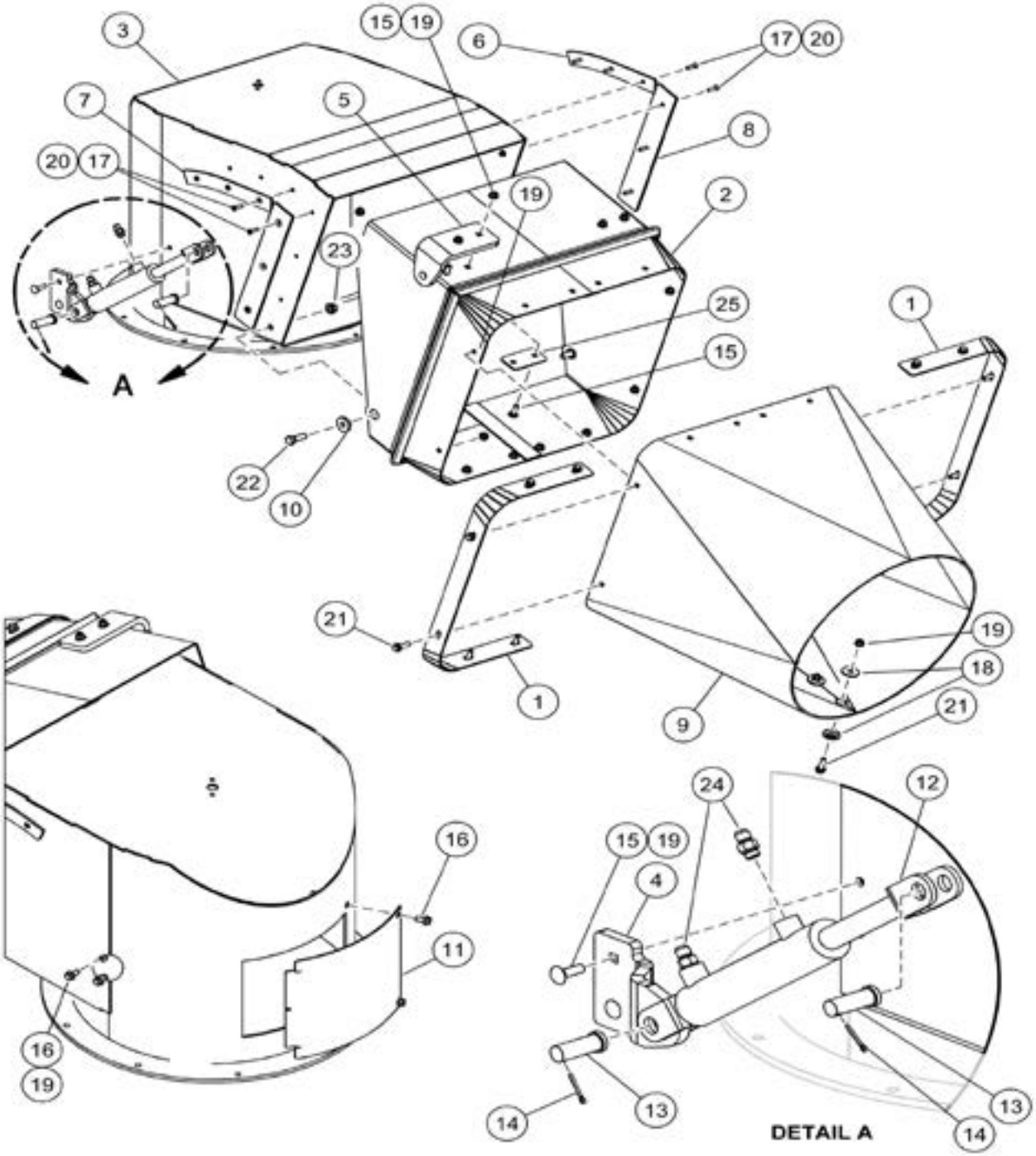
Auger 22” - Upper Assembly Detail



Auger 22” - Upper Assembly Detail

Item	Part #	Description	Item	Part #	Description
1	139034XX	HM1 Upper Auger Wdmt, HM2 Double Pivot Spout, 22” - Paint Ready	24	13427800	Spout Assy, 22”, LH - HM2.0
2	12971306	Flighting Wdmt, Upper Auger 22” - Double Pivot	25	13904402	Plate, Motor Mount - Pivoting Spout, 22” HM1
3	10112207	Vertical Auger Top Shaft	26	13427602	Spout Pinion
4	11823400	2” Bearing, F210 Housing Asby	27	10723600	Flange Bolt, Hex Head, Gr 5, 1/2” UNC x 1-1/2”, YZ
5	11815300	Top Auger Spring	28	13625500	Hex Flange Locknut, Top Locking, Gr C, 1/2” UNC, YZ
6	10701800	Flatwasher, 1.00” OD 3/8” ID	29	10236400	Washer, 3.000 OD x 2.010 ID x 0.188
7	10707800	Capscrew, 3/4” x 1-1/2”	30	11855200	Grease Fitting, Adapter
8	10167000	2” Shaft Adapter	31	10743900	3/8” UNF Jam Nut
9	11857300	Bushing, Steel Spring, 2-1/2” OD x 2” ID x 1/4”, 2 L	32	1863500	18” Grease Hose
10	10739800	Capscrew, 3/4” x 6-1/2” UNC GR 8	33	10883300	Grease Fitting, Straight - 1/4” UNF
11	10908800	Hydraulic Line Clamp	34	13894802	Machined One Piece Hose Mount
12	10716100	Nut, Stover, 3/4” UNC	35	10705700	Cap Screw, Hex Head, Gr 5, 1/2” UNC x 1-3/4”, YZ
13	10268507	Shaft Spacer, Auger Top	*36	11875600	Cable Tie, 14” - Black
14	11896100	Internal Retaining Ring 2.50”	37	13625400	Hex Flange Locknut, Top Locking, Gr F, 3/8” UNC, YZ
15	10291707	Flatwasher, 2.50” x 13/16” 3/8”	38	10778500	Carriage Bolt, Partial Thread, Gr 5, 3/8” UNC x 2-1/2”, YZ
16	10235707	Shim, 2” ID x 1/16”	39	10710800	Carriage Bolt, Partial Thread, Gr 5, 1/2” UNC x 5, YZ
17	10739100	Capscrew, 3/8” x 3-1/2”	40	13906702	Pivot Ring, Gear Spout, 22”, Half Ring, HM2.0
*18	1186200	NDA Self Adhesive Foam 5/8” x 3/4” 20 ft	41	13906802	Pivot Ring, Quarter Plate, 22”, HM2.0
*19	11886400	Sealant, Rock River 100% RTV - 1 Tube 300 ml	42	13906300	Sliding Plate, Plastic 22” - HM 2.0
20	12972900	Hydraulic Motor, Auger Spout - BMRS-160P4AIIY5	43	13906402	Clamp Plate, Pivoting Spout, 22”, HM2.0
21	20141400	Hydraulic Fitting, 90 Deg Elbow 8MJ/10MB	44	10737700	Flat Washer, USS, 1/4”, YZ
22	12726000	Set Screw, Socket Head, 3/8” x 3/8” UNF	45	10727200	Cap Screw, Hex Head, Gr 5, 1/4” UNC x 1”, YZ
23	13062807	Auger Locking Sleeve	46	10736200	Hex Flange Locknut, Top Locking, Gr F, 1/4” UNC, YZ

Auger 22” - Chute Adjustment

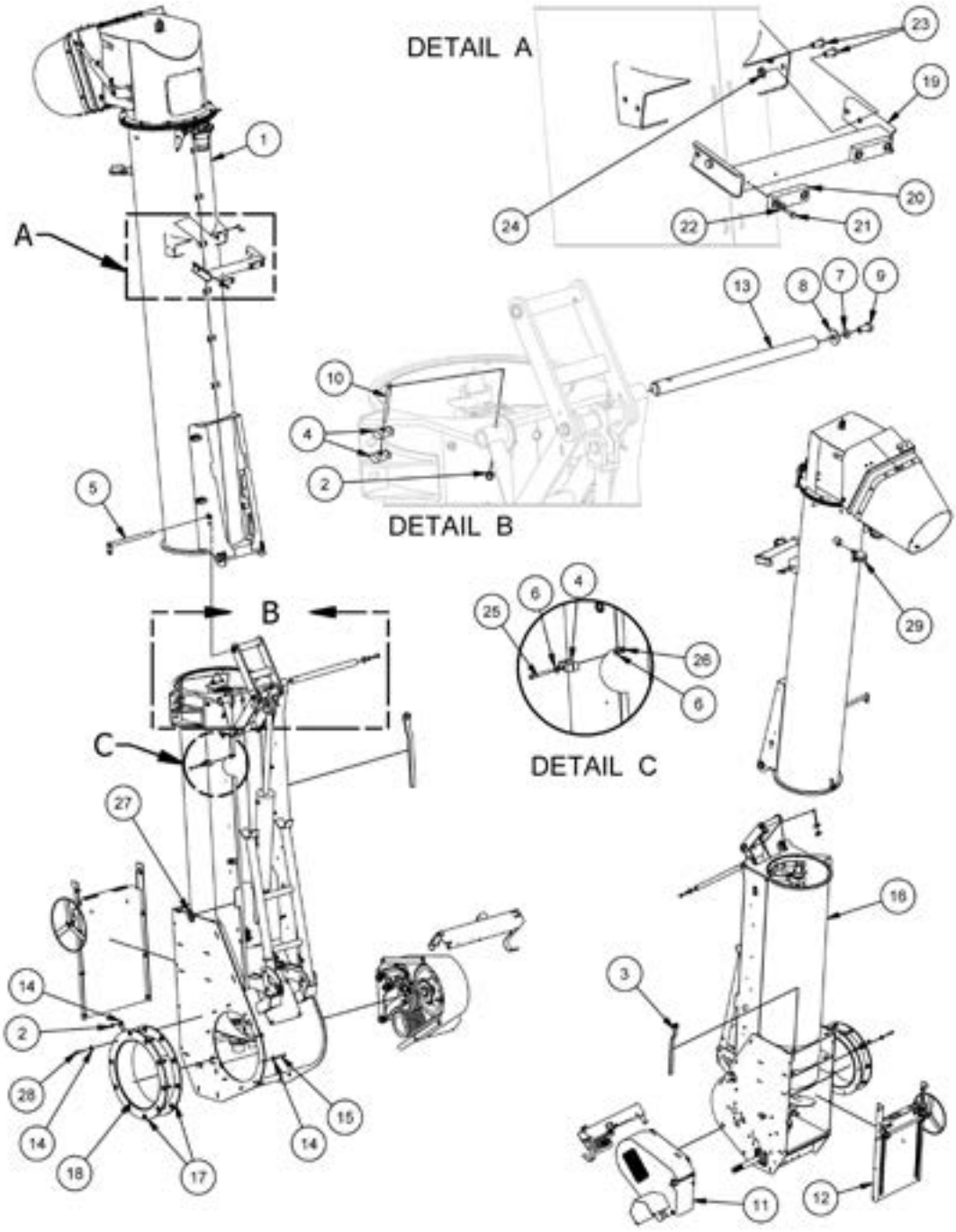


Auger 22” - Chute Adjustment

Item	Part #	Description
1	13996302	Clamp, Rubber Sprout, 22”- HM 2.0 (2022 - Black)
2	13996102	Spout Wdmt, Pivoting, Squared, 22” - HM2.0 (2022 - Black)
3	13938402	Spout Wdmt, Rotating, 22” - HM 2.0 (2022)
4	13429602	Plate, Cylinder Mount - HM 2.0
5	13429502	Plate, Cylinder Mount, Downspout - HM 2.0
6	13324700	Wear Block, RH, Auger Spout
7	13324600	Wear Block, LH, Auger Spout
8	13266700	Wear Plate, Auger Spout
9	13995200	Rubber Spout, 22”, Squared Corners - HM 2.0
10	11637107	Swing Arm Retainer
11	13429702	Cover Plate, Spout, 24” - HM 2.0
12	11821200	1-1/2” x 6” Cylinder
13	10899700	Cylinder Pin, 0.75 OD x 2.75
14	10713600	Cotter Pin, 1/8” x 1”
15	10712700	Carriage Bolt, Full Thread, Gr 5, 3/8” UNC x 1-1/4”, YZ
16	10718400	Flange Bolt, Hex Head, Gr 5, 3/8” UNC x 3/4”, YZ
17	10730800	Flathead Screw, socket, 1/4” x 1”
18	13286107	Bushing, Rubber Spout
19	13625400	Hex Flange Locknut, Top Locking, Gr F, 3/8” UNC, YZ
20	10736200	Hex Flange Locknut, Top Locking, Gr F, 1/4” UNC, YZ
21	10746100	Flange Bolt, Hex Head, Gr 5, 3/8” UNC x 1-1/4”, YZ
22	10708600	Cap Screw, Hex Head, Gr 5, 3/8” UNC x 1-1/2”, YZ
23	13625500	Hex Flange Locknut, Top Locking, Gr C, 1/2” UNC, YZ
24	13635000	6MJ-6MB Manifold Port Str Fitting 9/16” Male JIC x ORB
25	13794702	Brace, Cylinder Mount, Downspout - HM 2.0

6 AUGER AND DRIVE PARTS

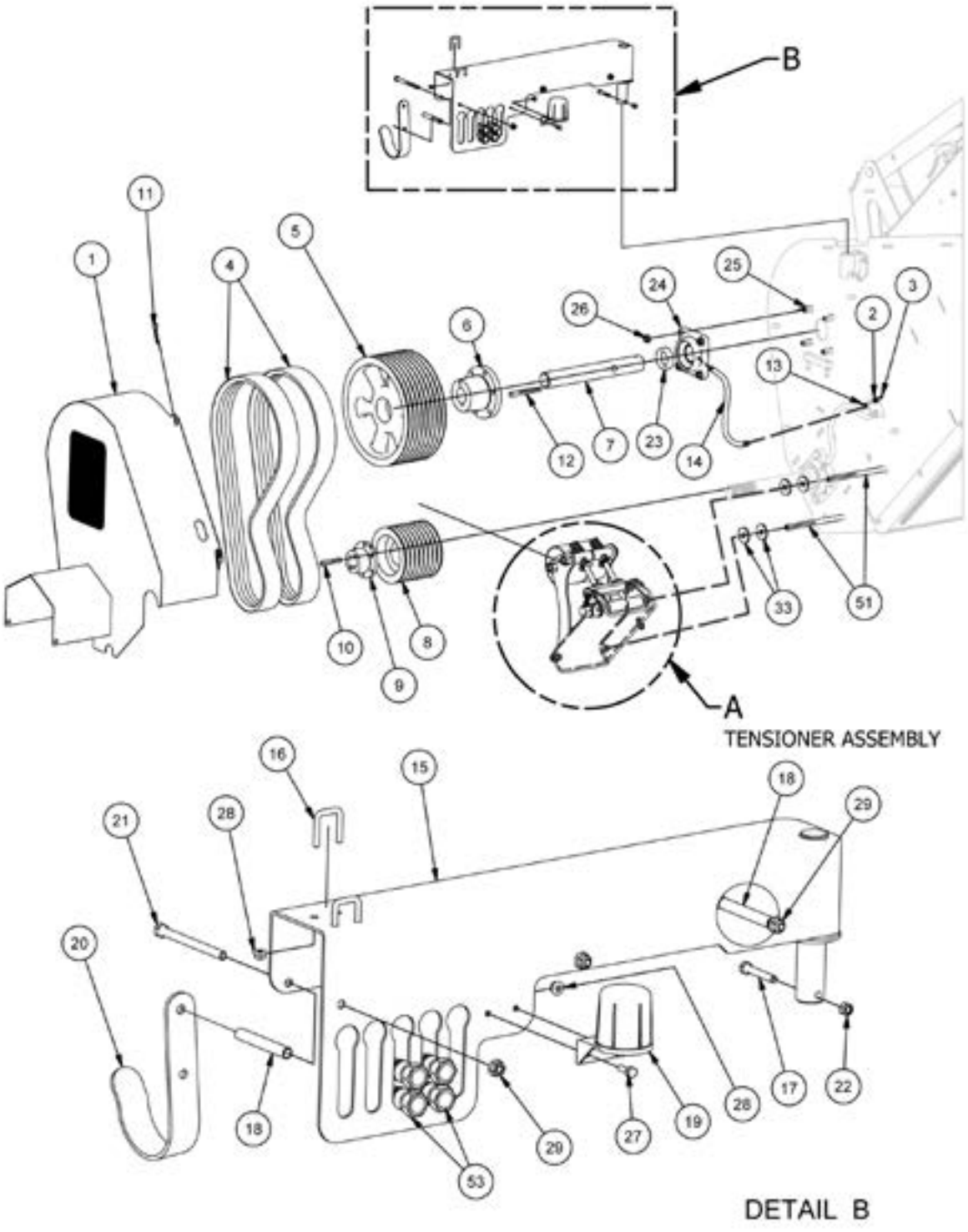
Auger 22” - Chute Assembly



Auger 22” - Chute Assembly

Item	Part #	Description
1	13904500	22” HM 1 Upper Auger, Pivoting HM 2.0 Spout
2	10700800	Nylon Locknut, 1/2”
3	10120907	GC Gate/BP Adjustment Tool
4	10908800	Hydraulic Line Clamp
5	10143807	Auger Linkage Pin - Top
6	10701800	Flatwasher, 1.0” OD 3/8” ID
7	10700100	Lockwasher, 5/8”
8	10720800	Flatwasher, 5/8” ID x 1-7/8” OD
9	10727900	Capscrew, 5/8” x 1-1/4”
10	10730000	Capscrew, 3/8” x 4-1/2”
11	10367000	Auger Drive Assembly, 22” Mother Bin w/o PTO
12	10366900	Auger 22” Cleanout Chute Asmbly
13	10116407	Auger Hinge Pin
14	10723200	Flatwasher, 1/2”
15	10739400	Capscrew, 1/2” x 2”
16	130590XX	Auger Lower 22”
17	10055900	Spacer Ring Flange
18	10055800	Auger Spacer Ring
19	10141402	Auger Rest
20	11614900	Rubber Block
21	10700900	Capscrew, 5/16” x 1”
22	10734500	Flatwasher, 5/16” .375” ID x .875” OD
23	10708100	Capscrew, 1/2” x 1”
24	10706600	Nut, Flange - 1/2”
25	10737200	Capscrew, 3/8” x 3”
26	10736400	Locknut, Nylon Insert, 3/8”
27	10897500	Grommet Rubber 3.00” OD x 2.10” ID
28	10723300	Cap Screw, Hex Head, Gr 5, 1/2” UNC x 2-1/2”, YZ
29	13273800	LED Work Light with Connector

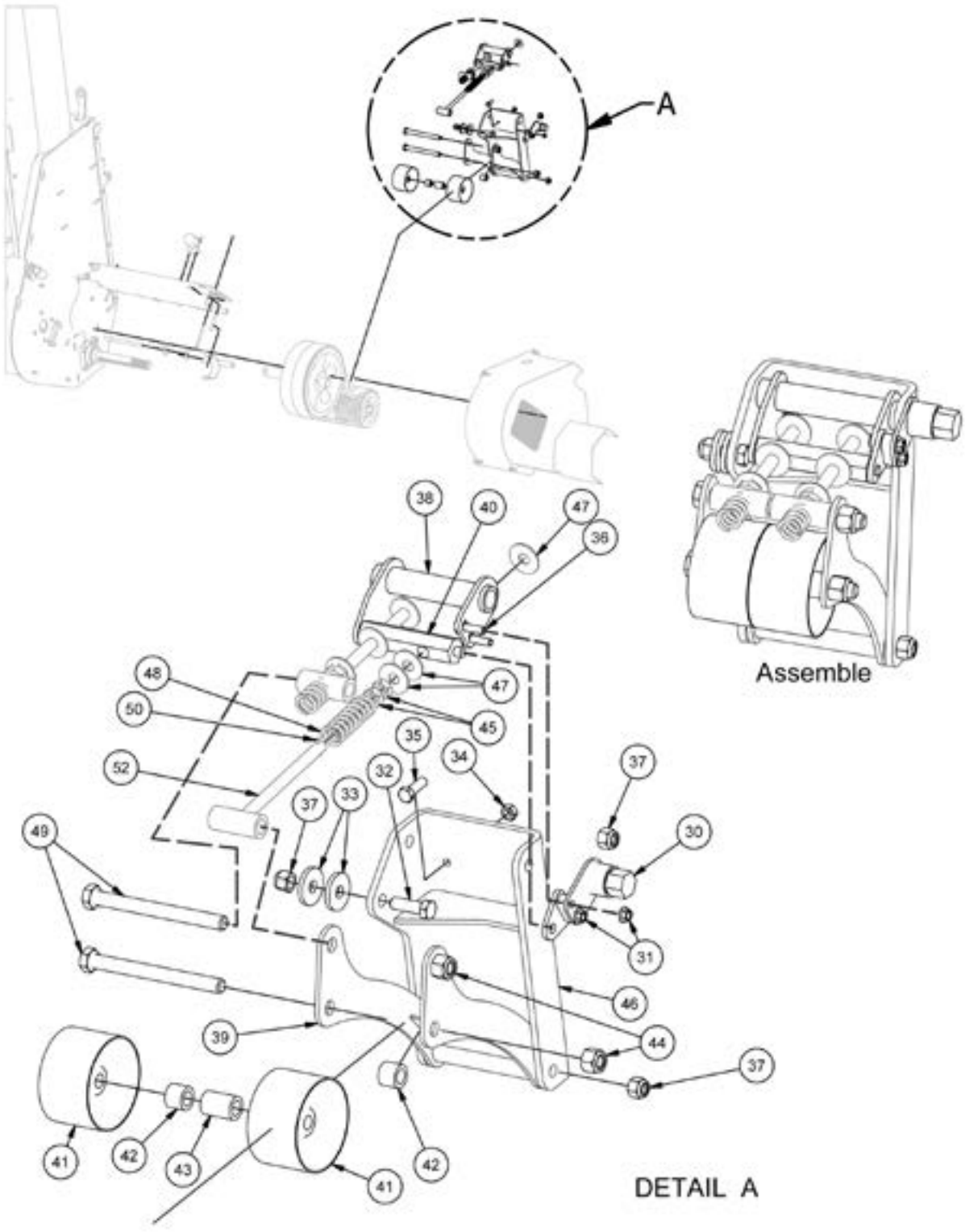
Auger 22” - Drive Belt Assembly



Auger 22” - Drive Belt Assembly

Item	Part #	Description	Item	Part #	Description
1	10144302	Shield Wdmt	28	10736200	Hex Flange Locknut, Top Locking, Gr F, 1/4” UNC, YZ
2	10743900	3/8” UNF Jam Nut	29	10726000	Hex Flange Nut, Serrated, Gr 5, 3/8” UNC, YZ
3	10883300	Grease Fitting, Straight - 1/4” UNF	30	10125507	Tensioner Hex Shaft Assembly
4	11859300	5V-750 / 4 V-Belt	31	10726000	Flange Nut, 3/8”
5	11853500	8 / 5V 14.0 - QD-F Pulley	32	10702800	Capscrew, 5/8” x 2”
6	11853900	2” Pulley Bearing	33	10810700	Rolling Shield Washer
7	10112407	Drag Auger Front Drive Shaft	34	10707000	Hex Jam Nut, 1/2”
8	11854600	Pulley 8x5V, 7,10 OD	35	10708600	Capscrew, 1/2” x 1-1/2”
9	11819800	1-3/4” QD-SF 3/8” Key - Bushing	*36	10709600	Carriage Bolt, 3/8” x 1-1/2”
10	11859900	0.375 x 0.375 x 3.00 Key	37	10700400	Locknut, Nylon, 5/8”
11	10800400	Hair Pin Clip	38	10038702	Tensioner Cam Wdmt
12	11887000	0.5 x 0.5 Keystock - 4.50	39	10090602	Belt Tensioner Arm Wdmt
13	11855200	Grease Fitting, Adapter	40	10038507	Slide Block
14	11863500	18” Grease Hose	41	11853200	Bearing Idler Pulley, 3/4” x 5.00” x 3.00”
15	10145102	Hose Bracket Wdmt	42	10153907	Bushing, 3/4” x 1-1/4” x 1”
16	10741700	U-Bolt, 1/4” x 1” x 1.25”	43	10155907	Bushing, 3/4” x 1-1/4” x 1-13/16”
17	10737000	Capscrew, 5/16” x 2”	44	10709500	Locknut, Nylon, 3/4”
*18	13259700	Support Tube, Hose Bracket - Clear Zinc	45	10708500	Hex Jam Nut, 5/8” RH
*19	11847400	Cord Holder	46	10168902	Belt Tensioner Base Wdmt
20	11604802	PTO Bracket	47	10720800	Flatwasher, 5/8” ID x 1-7/8” OD
21	10730000	Capscrew, 3/8” x 4/12”	48	11859200	Spring, 1.203” x 0.173” x 3.5”
22	10740500	Locknut, nylon insert, 5/16”	49	10739900	Capscrew, 3/4” x 8”
23	11823600	Bearing w/ Locking Collar - 2” (210) UEL210-200D1	50	10715100	Roll Pin, 13/64” x 1.000”
24	13792600	Housing F210 (NTN) - Machined	51	10732800	Capscrew, 5/8” x 9-1/2”
25	10736700	Carriage Bolt, Full Thread, Gr 5, 1/2” UNC x 1-3/4”, YZ	52	13905007	Tensioner Adjustment, Mother Bin
26	10706600	Hex Flange Nut, Serrated, Gr 5, 1/2” UNC x 3/4”, YZ	53	20020400	Hydraulic Coupler (Pioneer 8010-4P)
27	10728900	Cap Screw, Hex Head, Gr 5, 1/4” UNC x 3/4”, YZ			

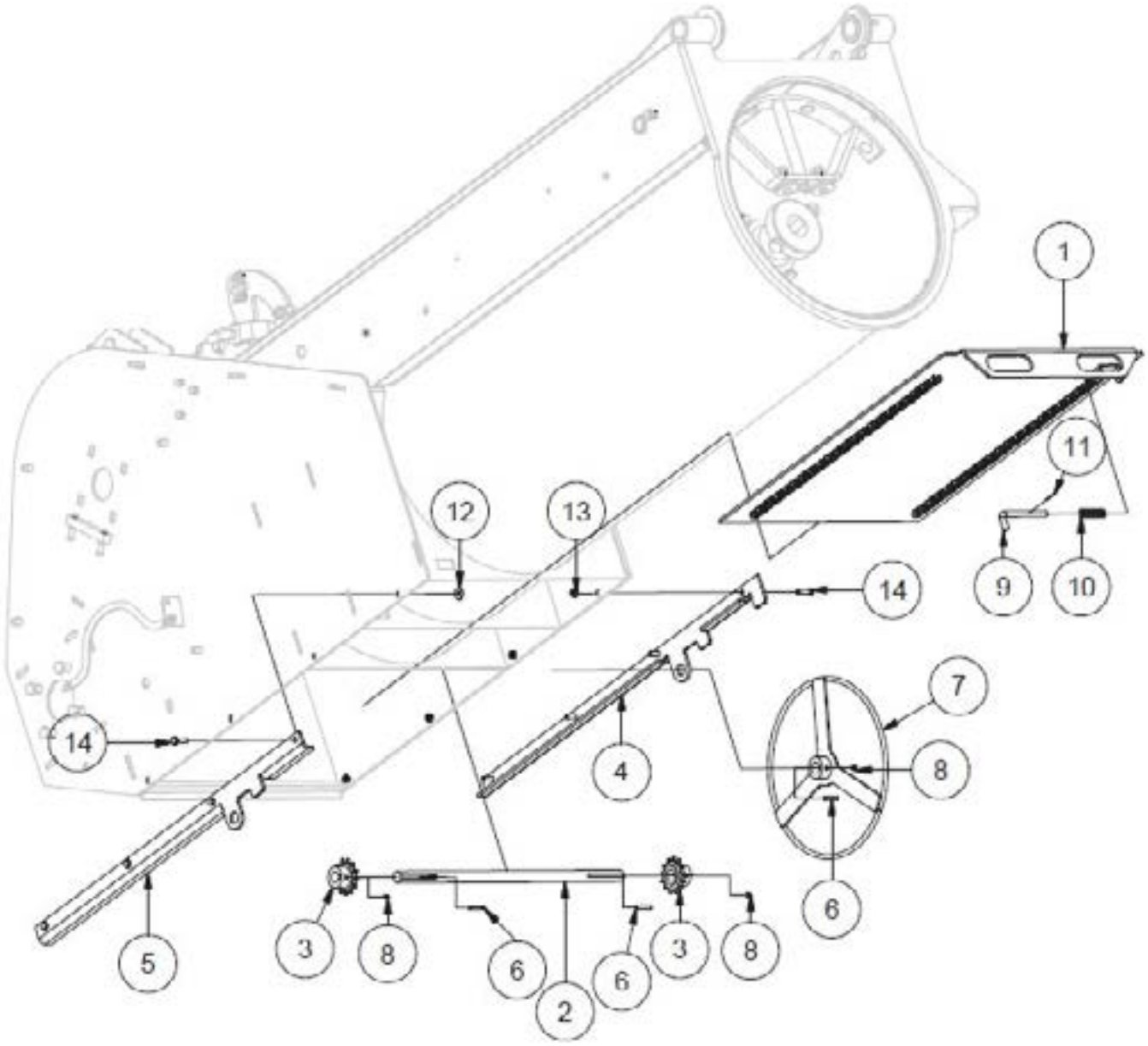
Auger 22” - Drive Belt Tensioner Assembly



Auger 22” - Drive Belt Tensioner Assembly

Item	Part #	Description	Item	Part #	Description
1	10144302	Shield Wdmt	28	10736200	Hex Flange Locknut, Top Locking, Gr F, 1/4” UNC, YZ
2	10743900	3/8 UNF Jam Nut	29	10726000	Hex Flange Nut, Serrated, Gr 5, 3/8” UNC, YZ
3	10883300	Grease Fitting, Straight - 1/4” UNF	30	10125507	Tensioner Hex Shaft Assembly
4	11859300	5V-750/4 V-Belt	31	10726000	Flange Nut, 3/8”
5	11853500	8/5V 14.0 - QD-F Pulley	32	10702800	Capscrew, 5/8” x 2”
6	11853900	2” Pulley Bushing	33	10810700	Rolling Shield Washer
7	10112407	Drag Auger Front Drive Shaft	34	10707000	Hex Jam Nut, 1/2”
8	11854600	Pulley 8x5V, 7.10 OD	35	10708600	Capscrew, 5/8” x 2”
9	11819800	1-3/4” QD-SF - 3/8” key - Bushing	*36	10709600	Carriage Bolt, 3/8” x 1-1/2”
10	11859900	0.375 x 0.375 x 3.00 Key	37	10700400	Locknut, Nylon, 5/8”
11	10800400	Hair Pin Clip	38	10038702	Tensioner Cam Wdmt
12	11887000	0.5 x 0.5 Keystock - 4.50	39	10090602	Belt Tensioner Arm Wdmt
13	11855200	Grease Fitting, Adapter	40	10038507	Slide Block
14	11863500	18” Grease Hose	41	11853200	Bearing Idler Pulley - 3/4” x 5.00 x 3.00
15	10145102	Hose Bracket Wdmt	42	10153907	Bushing, 3/4” x 1-1/4” x 1”
16	10741700	U-Bolt, 1/4” x 1” x 1.25”	43	10155907	Bushing, 3/4” x 1-1/4” x 1-13/16”
17	10737000	Capscrew, 5/16” x 2”	44	10709500	Locknut, Nylon, 3/4”
*18	13259700	Support Tube, Hose Bracket - Clear Zinc	45	10708500	Hex Jam Nut, 5/8” RH
*19	11847400	Cord Holder	46	10168902	Belt Tensioner Base Wdmt
20	11604802	PTO Bracket	47	10720800	Flatwasher, 5/8 ID x 1-7/8 OD
21	10730000	Capscrew, 3/8” x 4-1/2”	48	11859200	Spring, 1.203” x 0.173” x 3.5”
22	10740500	Locknut, nylon insert, 5/16”	49	10739900	Capscrew, 3/4” x 8”
23	11823600	Bearing w/ Locking Collar - 2” (210) UEL210-200D1	50	10715100	Roll Pin, 13/64” x 1.00”
24	13792600	Housing F210 (NTN) - Machined	51	10732800	Capscrew, 5/8” x 9-1/2”
25	10736700	Carriage Bolt, Full Thread, Gr 5 1/2” UNC x 1-3/4”, YZ	52	13905007	Tensioner Adjustment, Mother Bin
26	10706600	Hex Flange Nut, Serrated, Gr 5, 1/2” UNC x 3/4”, YZ	53	20020400	Hydraulic Coupler (Pioneer 8010-4P)
27	10728900	Cap Screw, Hex Head, Gr 5, 1/4” UNC x 3/4”, YZ			

Auger Clean Out Gate

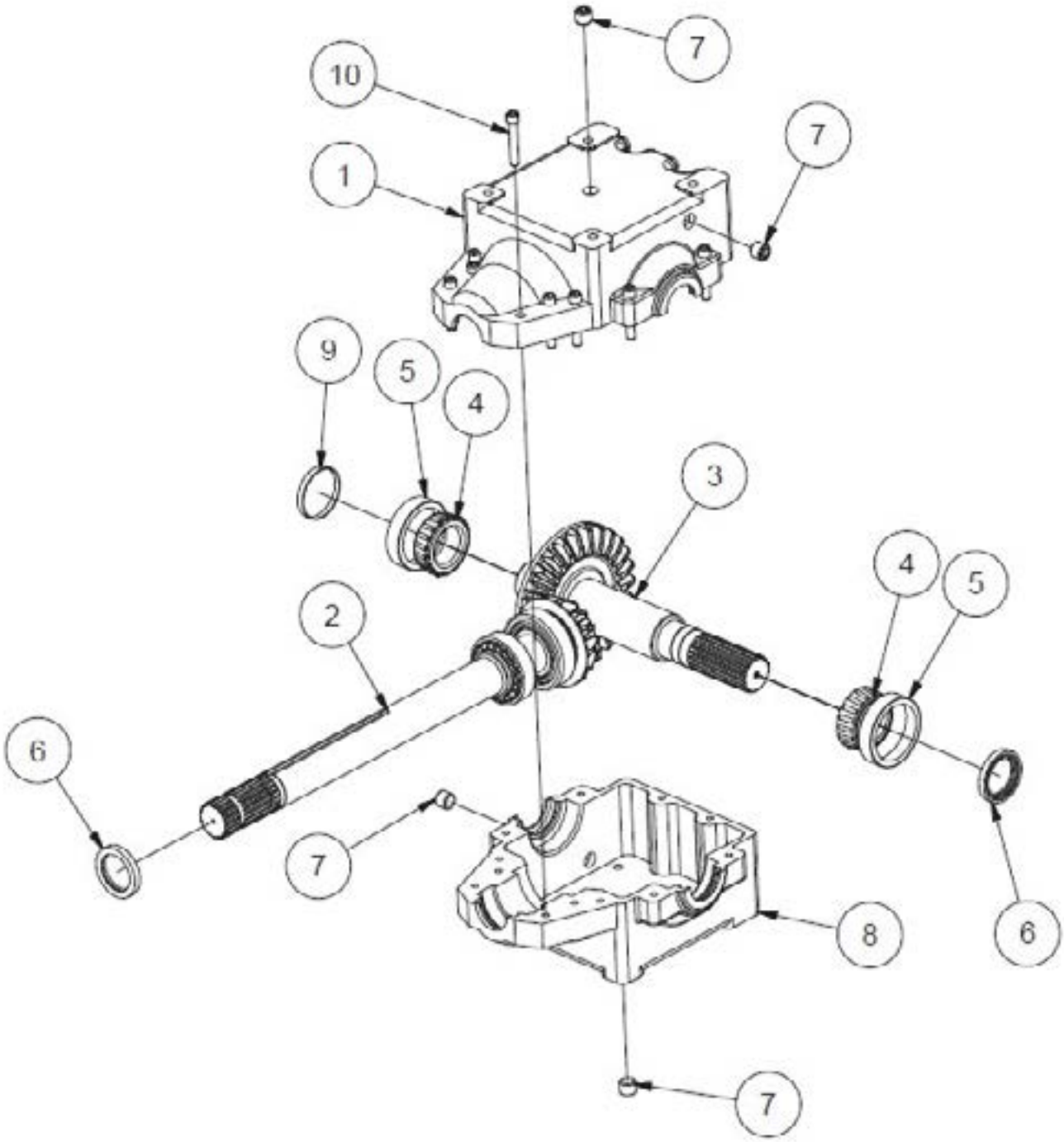


Auger Clean Out Gate

Item	Part #	Description
1	10164502	Auger Gate Wdmt - 20” Auger
	10111702	Auger Gate Wdmt - 22” Auger
2	10164807	Auger Cleanout Gate Shaft - 20” Auger
	10151107	Auger Cleanout Gate Shaft - 22” Auger
3	10151007	Sprocket - #50 - 13T
4	10150702	Auger Gate Shaft Holder RH
5	10153702	Auger Gate Shaft Holder - LH
6	11859800	Key, 0.25” x 0.25” x 1.50”
7	10150902	Crank Pulley Wdmt
8	10705100	Set Screw, Socket Head, 3/8” x 3/8” UNC
9	10104007	Gate Latch Pin
10	11057400	Compression Spring 2.0 x .625
11	10712100	Roll Pin, 1/8” x 1”
12	10701800	Flatwasher, 3/8” ID
13	10736400	Locknut, Nylon Insert, 3/8”
14	10735700	Capscrew, 3/8” x 11/4”

6 AUGER AND DRIVE PARTS

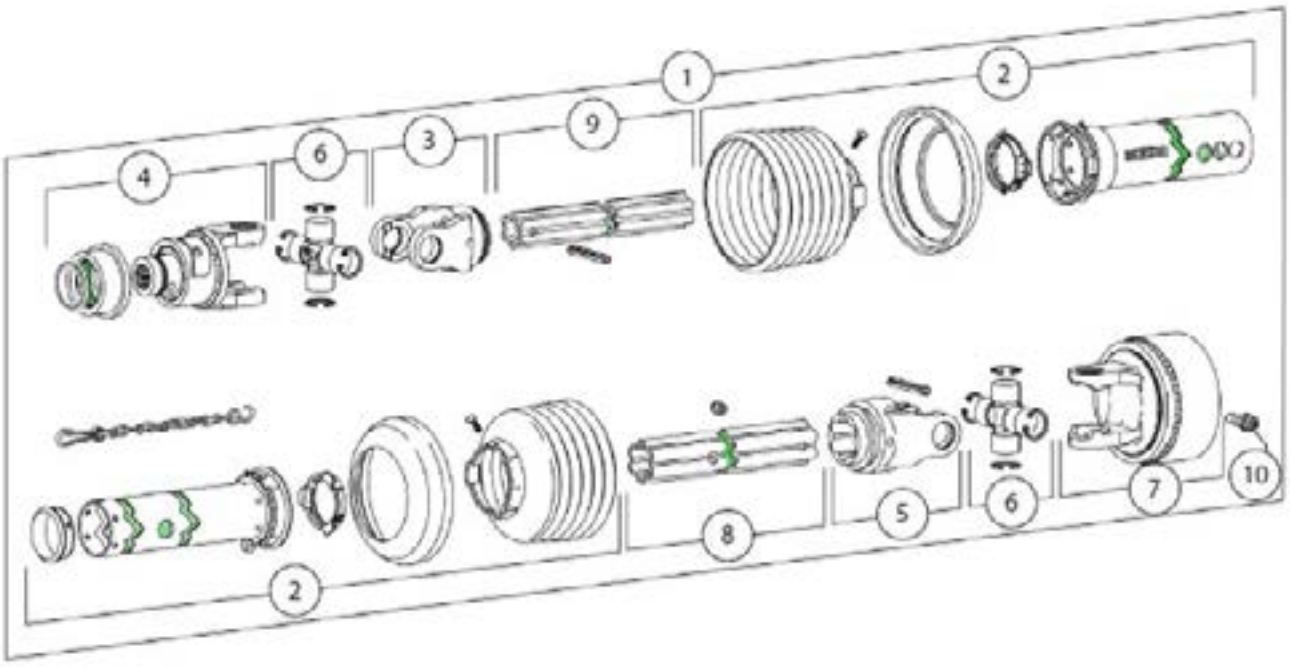
Auger Drive - Gear Box



Auger Drive - Gear Box

Item	Part #	Description
1	11870800	Gear Box - Top Casting
2	11870400	Long Shaft - Gear Assembly
3	11870100	R600 Cross Shaft / Gear Sub Asby
4	11870200	1.75” ID Bearing Cup - Timken 25580
5	11870300	Outer Cone - Timken 25520
6	11870900	1.75” Seal
7	11871000	Plug 1/2” NPT
8	11871300	Gear Box - Bottom Casing
9	11871100	Seal Cap F0317
10	7524	Hex Capscrew, 3/8” x 2.25”

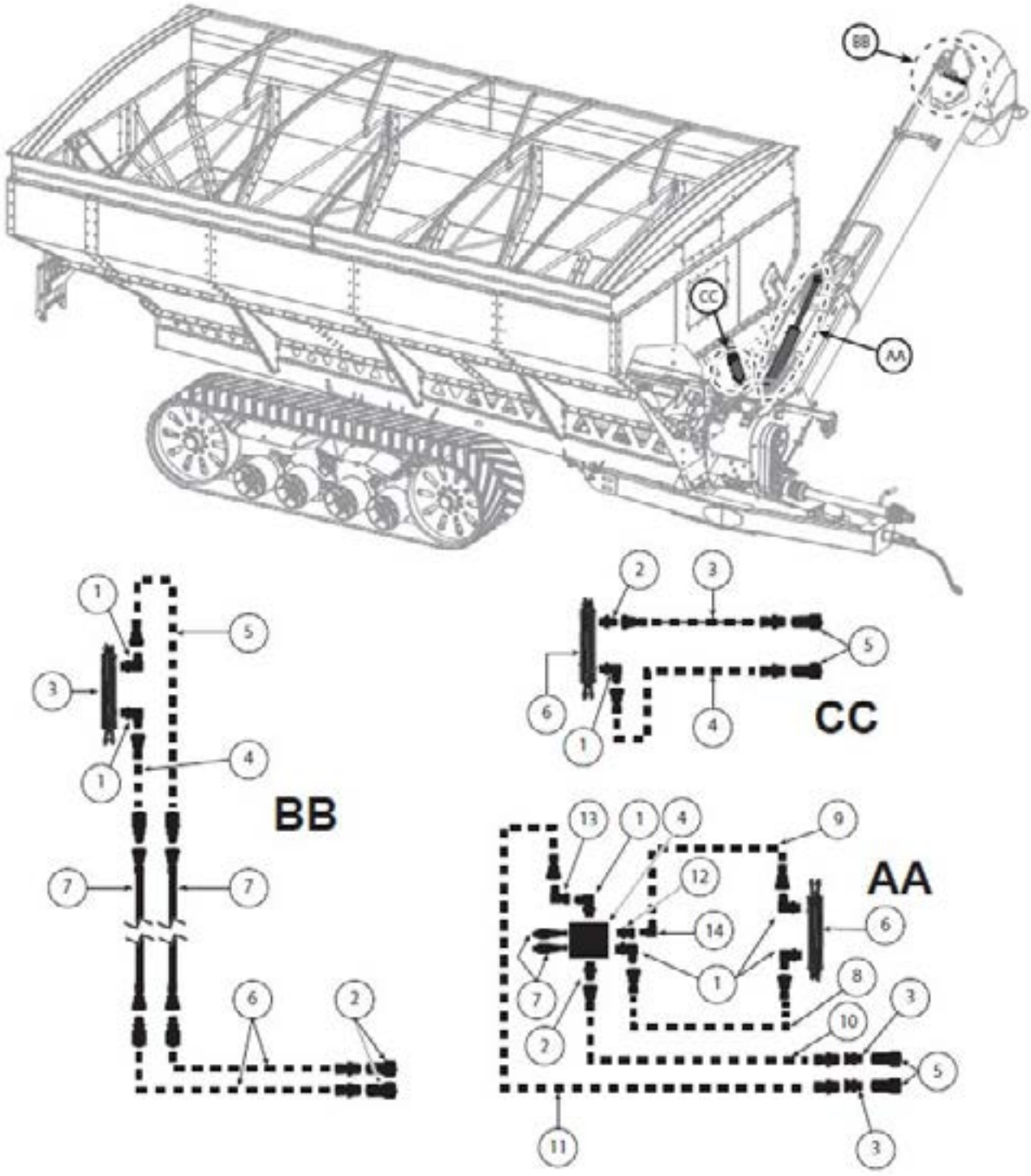
PTO - Shaft Assembly



PTO - Shaft Assembly

Item	Part #	Description
1	11853400	PTO Shaft Complete Assembly
2	12750400	PTO Shaft Outer Guard Tube
3	12719000	Inboard Yoke S4
4	12719400	PTO Over Running Clutch
5	12719100	Inboard Yoke S5
6	12719300	PTO Cross and Bearing Kit
7	12719500	Cut-Out Clutch
8	12719600	PTO Shaft (Outer Spline Tube) Profile-S5GL
9	12719700	PTO Shaft (Inner Spline Tube) SGL5A
10	12719200	PTO Kit “CC Lock-In”

Hydraulic System - Grain Cart



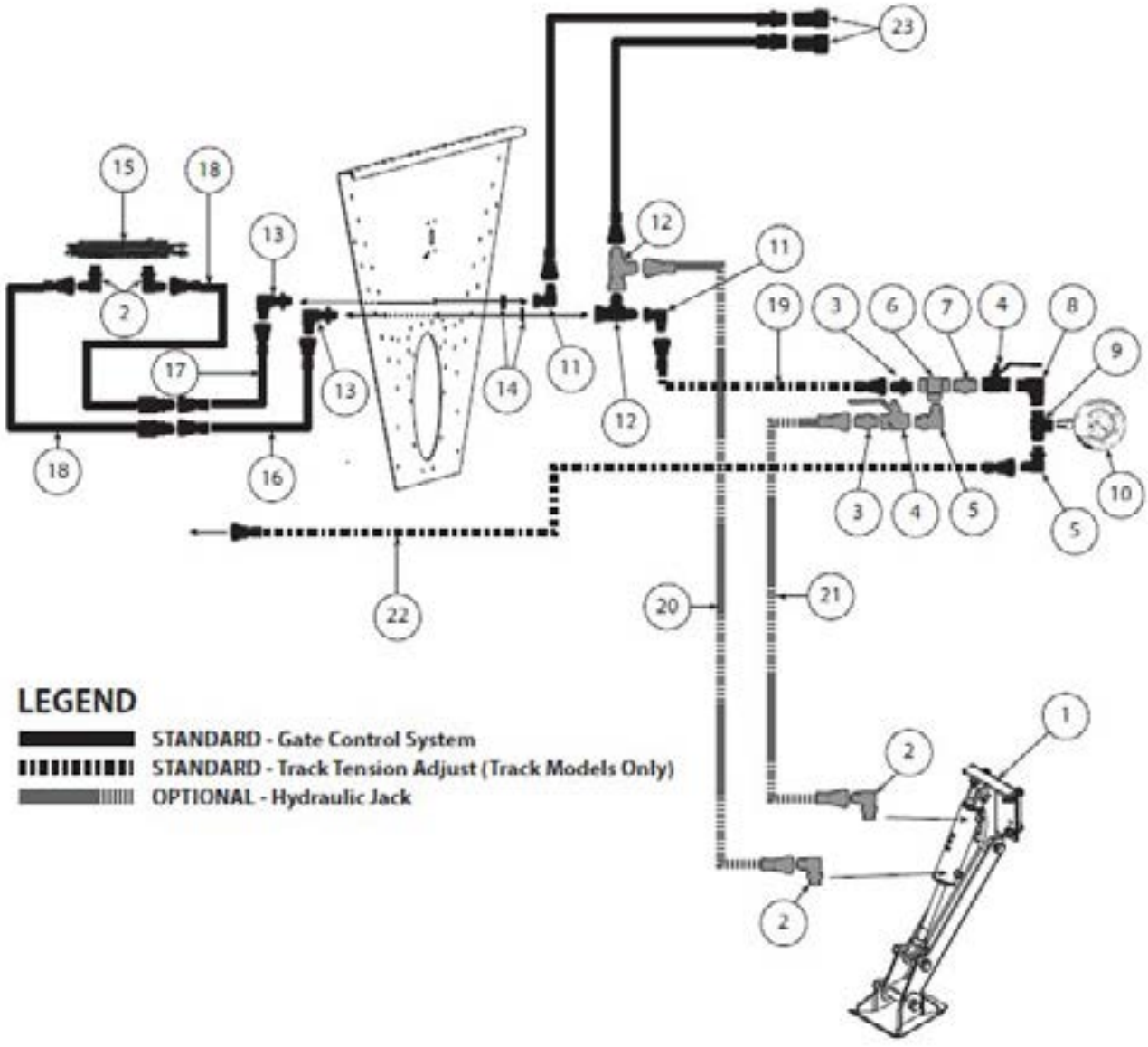
Hydraulic System - Grain Cart

Item	Part #	Description - SECTION AA
1	20016700	90 Elbow 8MJ/8MB
2	20015600	Straight 8MB/8MJ
3	20015400	Straight Restricter 8MP/8FP x 1/16” Orifice
4	11861900	Manifold Block
5	20020400	Hydraulic Quick Coupler
6	11841000	Cylinder, Double Acting, 4 x 24
7	11862100	Counter Balance Valve Cartridge
8	20027700	Hose, 10” 6G-8FJX/8FJX
9	20027600	Hose, 26” 6G-8FJX/8FJX
10	20027800	Hose, 156” 6G-8FJX/8MP
11	20027900	Hose, 164” 6G-8FJX/8MP
12	20016500	Straight 8MB/8FJX
13	20015300	90 Elbow 8MJ/8FJX
14	20016200	90 Elbow 8MJ/8MJ

Item	Part #	Description - SECTION BB
1	20016700	90 Elbow 8MJ/8MB
2	20020400	Hydraulic Quick Coupler
3	11821200	Cylinder, Double Acting, 1-1/2” x 6”
4	20028000	Hose, 12” 6G-8FJX/8MJ
5	20028100	Hose, 20” 6G-8FJX/8MJ
6	20028200	Hydraulic Hose, 291” 6G-8MJ/8MP
7	20032000	Hydraulic Pipe, 111” 8FJX/8FJX

Item	Part #	Description - SECTION CC
1	20016700	90 Elbow 8MJ/8MB
2	20015600	Straight 8MB/8MJ
3	20027800	Hose, 156” 6G-8FJX/8MP
4	20027900	Hose, 164” 6G-8FJX/8MP
5	20020400	Hydraulic Quick Coupler
6	11837000	Cylinder, Phasing, 4 x 8

Hydraulic System - Gate Control-Track Tension/Optional Hydraulic Jack

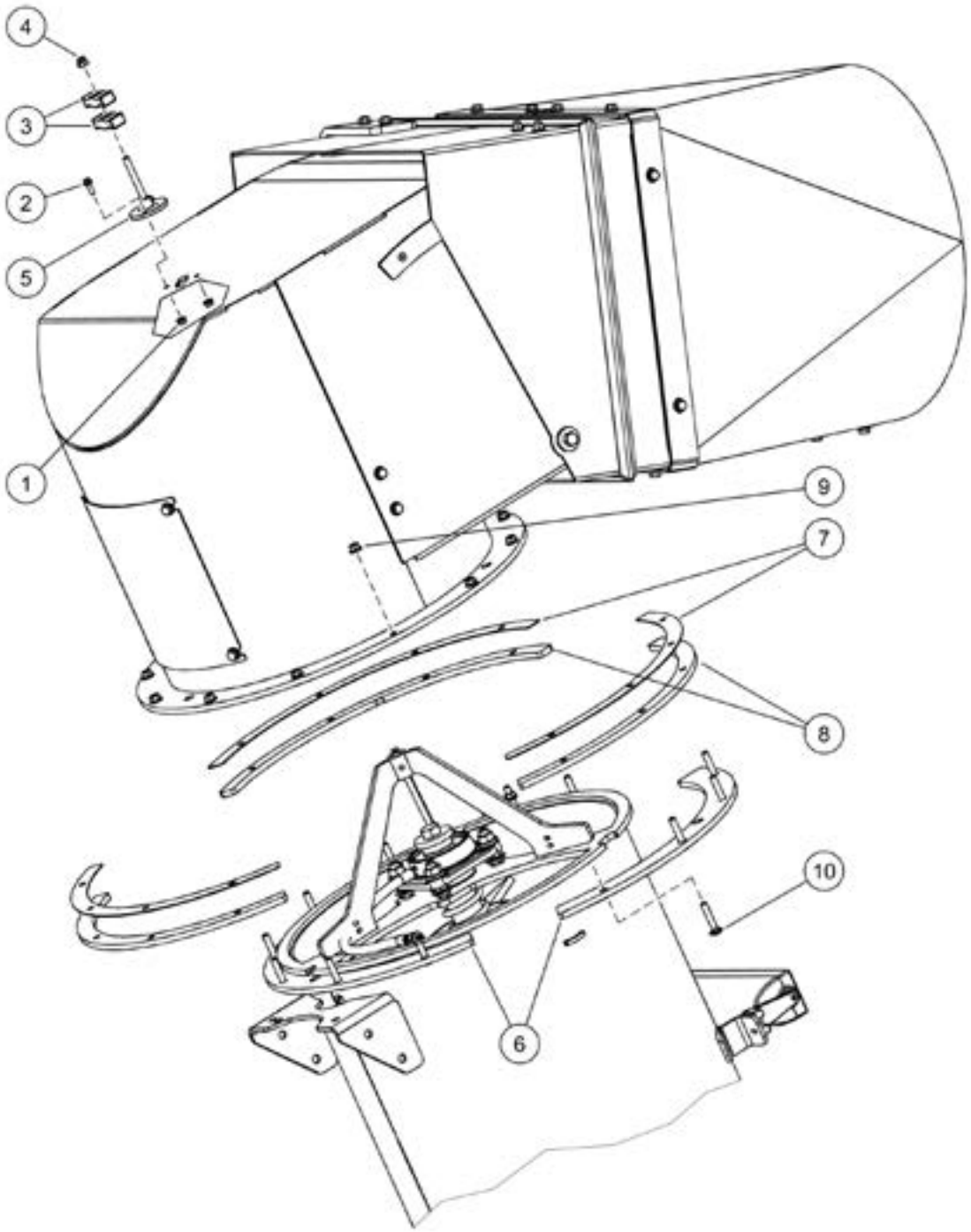


Hydraulic System - Gate Control-Track Tension/Optional Hydraulic Jack

Item	Part #	Description
1	10294600	Hydraulic Jack Assembly
2	20016700	Hydraulic Fitting, 90 Elbow 8MJ/8MB
3	20014200	Hydraulic Fitting, Adapter 8MJ/8MP
4	20018000	Hydraulic, 1/2” Hand Ball Valve
5	20015700	Hydraulic Fitting, 90 Elbow 8MP/8MJ
6	20016400	Hydraulic Fitting, Tee 8FP/8FP/8FP
7	20014800	Hydraulic Fitting, 8MP/8MP
8	20016800	Hydraulic Fitting, 90 Elbow 8MP/8MP
9	20014600	Hydraulic Reducer, 8MP-8MP-4FP Tee
10	20020600	Pressure Gauge
11	20015300	Hydraulic Fitting, 90 Elbow 8MJ/8FJX
12	20015100	Hydraulic Swivel, Tee 8MJ/8FJX/8MJ
13	20016100	Hydraulic Fitting, Bulkhead 8MJ/8MJ 90
14	20016600	Nut, Bulkhead
15	11831000	Cylinder, Double Acting, 3 x 8
16	20026100	Gate System Hyd. Tube STG-18
17	20026000	Gate System Hyd. Tube STG-16
18	20028300	Hydraulic Hose, 24” 6G-8FJX/8MJ
19	20027400	Hydraulic Hose, 57” 6G-8FJX/8FJX
20	20029000	Hydraulic Hose, 156” 6G-8FJX/8FJX
21	20029100	Hydraulic Hose, 192” 6G-8FJX/8FJX
22	20027300	Hydraulic Hose, 312” 6G-8FJX/8FJX
23	20020400	Hydraulic Quick Coupler

6 AUGER AND DRIVE PARTS

Auger Parts Kit

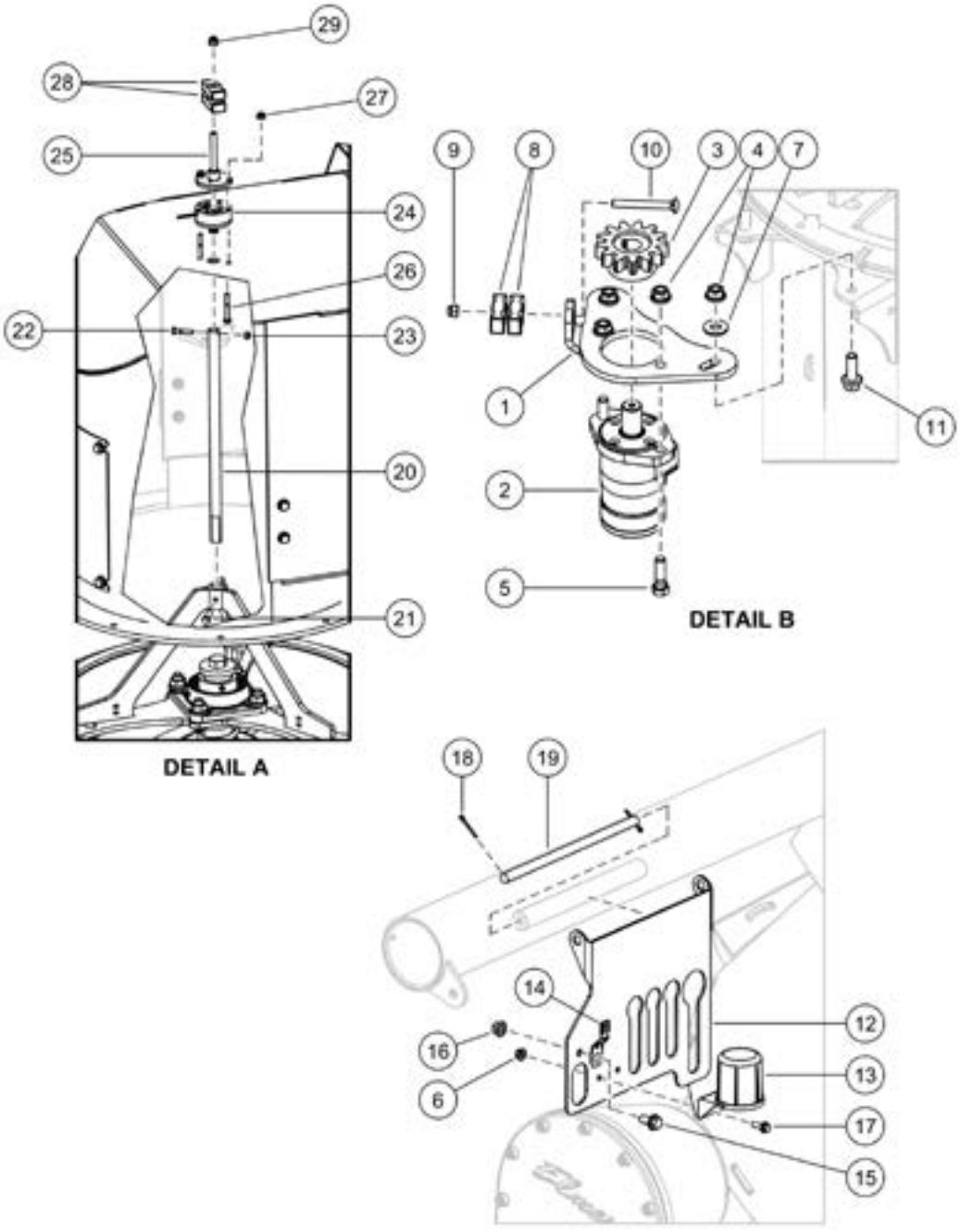


Auger Parts Kit

Item	Part #	Description
1	10736200	Hex Flange Locknut, Top Locking, Gr F, 1/4” UNC, YZ
2	10747400	Flange Bolt, Hex Head, Gr 5, 1/4” UNC x 3/4”, YZ
3	10908800	Hydraulic Line Clamp
4	10736400	Locknut, Nylon, Gr 2, 3/8” UNC, YZ
5	13894802	Machined One Piece Hose Mount
6	13940202	Spout Ring Lower Third - 22”
	13949502	Spout Ring Lower Third - 24”
7	13969900	Spout Shim - 22”- 0.060”
	13949300	Spout Shim - 24” - 0.048”
8	13940602	Middle Spout Ring Third - 22”
	13949402	Middle Spout Ring Third - 24”
9	13625400	Hex Flange Locknut, Top Locking, Gr F, 3/8” UNC, YZ
10	10753000	Carriage Bolt, Full Thread, Gr 5, 3/8” UNC x 2”, YZ

6 AUGER AND DRIVE PARTS

Auger Parts Kit

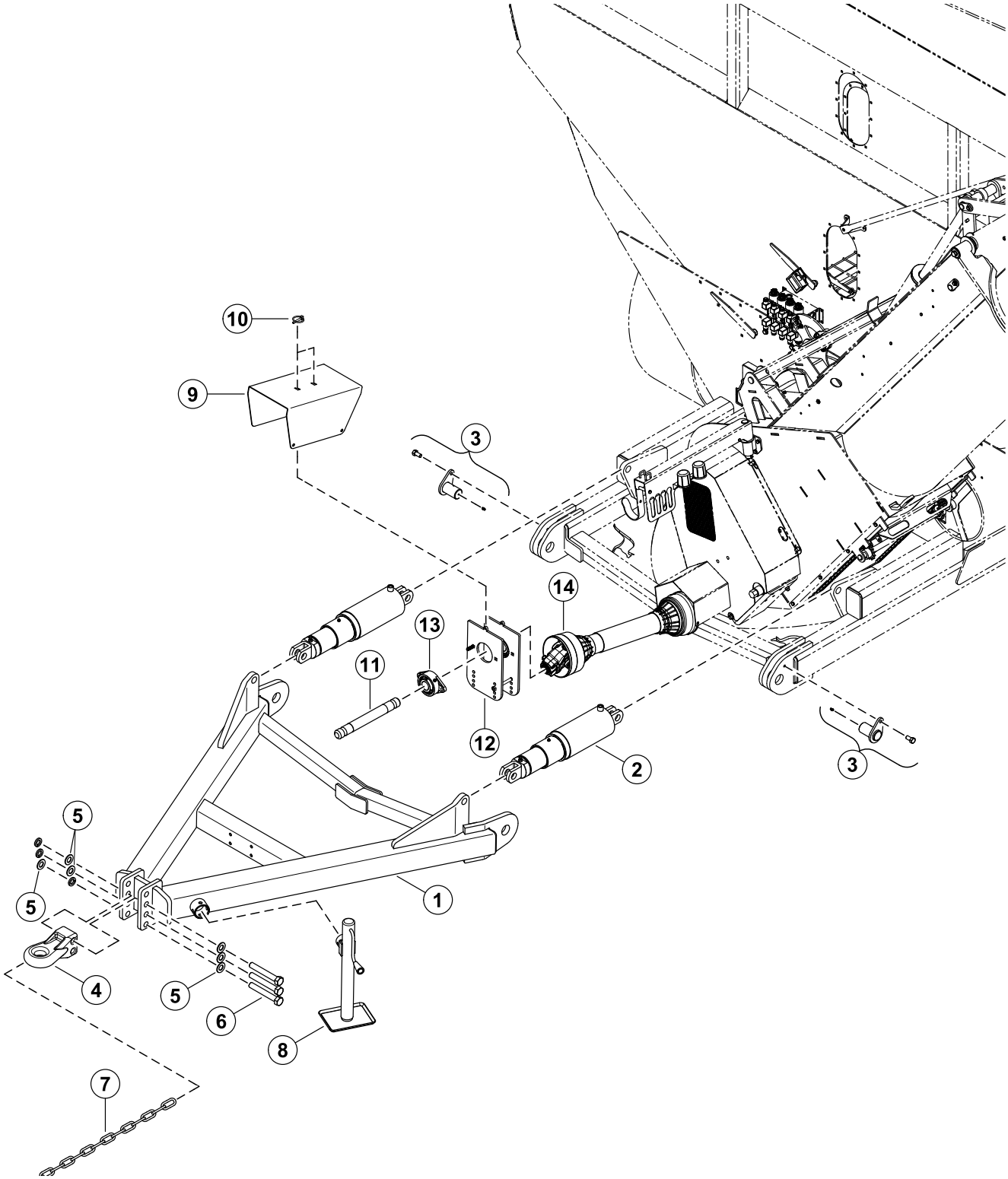


Auger Parts Kit

Item	Part #	Description
1	13941002	Sliding Motor Bracket - Black
2	12972900	Hydraulic Motor, Auger Spout - BMRS-160P4AIIY5
3	13427602	Spout Pinion
4	13625500	Hex Flange Locknut, Top Locking, Gr C, 1/2” UNC, YZ
5	10705700	Cap Screw, Hex Head, Gr 5, 1/2” UNC x 1-3/4”, YZ
6	10736200	Hex Flange Locknut, Top Locking, Gr F, 1/4” UNC, YZ
7	10723200	Flat Washer, USS, 1/2”, YZ
8	10908800	Hydraulic Line Clamp
9	10736400	Locknut, Nylon, Gr 2, 3/8” UNC, YZ
10	10748200	Carriage Bolt, Partial Thread, Gr 5, 3/8” UNC x 3-1/4”, YZ
11	10723600	Flange Bolt, Hex Head, Gr 5, 1/2” UNC x 1-1/2”, YZ
12	13463602	Plate, Hose Holder, HM 2.0
13	11847400	Cord Holder
14	13473900	Mounting Clip, Deutsch
15	10718400	Flange Bolt, Hex Head, Gr 5, 3/8” UNC x 3/4”, YZ
16	13625400	Hex Flange Locknut, Top Locking, Gr F, 3/8” UNC, YZ
17	10747400	Flange Bolt, Hex Head, Gr 5, 1/4” UNC x 3/4”, YZ
18	10713600	Cotter Pin, 1/8” x 1”
19	13463507	Pin, Mount, Hydraulic Hose - HM 2.0
20	13429207	Adapter Rod, Spout Sensor
21	10704500	Set Screw, Sq. Head 3/8” x 1-1/4”
22	10712600	Cap Screw, Hex Head, Gr 5, 1/4” UNC, YZ
23	10745400	Locknut, Stover, Gr 5, 1/4” UNC, YZ
24*	13427400	Sensor, Pivot Sensor Assy, Female Thread
25	13894802	Machined One Piece Hose Mount
26	10723800	Cap Screw, Hex Head, Gr 5, 1/4” UNC x 2”, YZ
27	10736200	Hex Flange Locknut, Top Locking, Gr F, 1/4” UNC, YZ
28	10908800	Hydraulic Line Clamp
29	10736400	Locknut, Nylon, Gr 2, 3/8” UNC, YZ

6.1 HITCH AND ATTACHING PARTS

Hitch

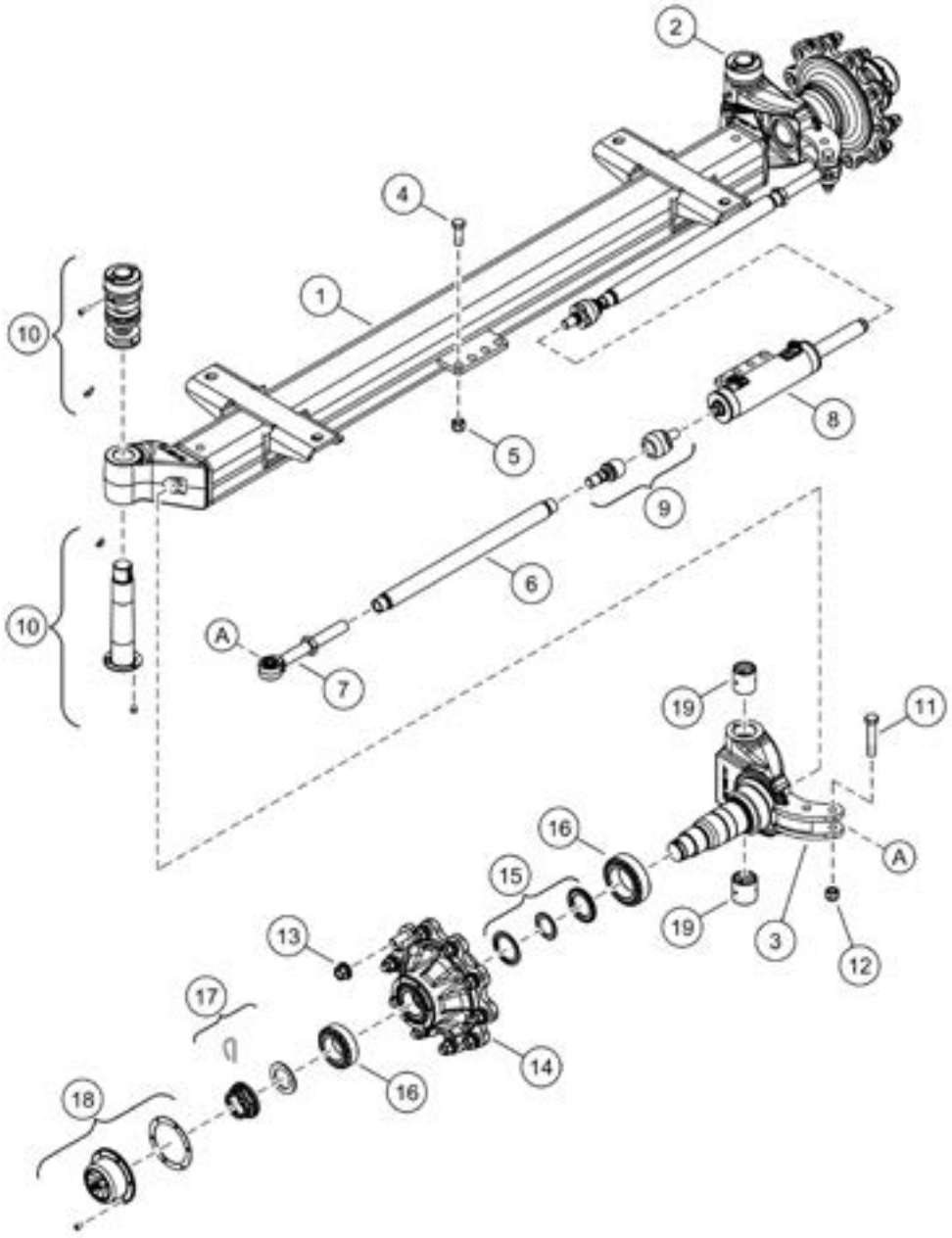


Hitch

ITEM	Part #	Description
1	60206650	Hitch, ADF
2	60206156	Cylinder, Hitch
3	60205531	Pin, Mounting, 2”
4	61000470	Hitch, CAT 3
5	S5C16000	Washer, Flat, 1”, SAE, Thru Hard
6	05408208	Bolt, Hex, 1” x 7”, Gr. 8
7	60205587	Chain, Safety
8	682220	Jackstand Hitch
9	60205694	Shield, PTO
10	90170A212	Pin, Locking, ¼”
11	A30132	Shaft, PTO, Double Spline, 16”
12	602205697	Plate, Mounting, PTO Bearing
13	5968K81	Bearing, PTO
14	RS8086AA017774	Shaft, PTO, 26”

6.2 STEERING AND AXLE PARTS

Force Steering Axle, Rear, S/N BNS5UF100N026

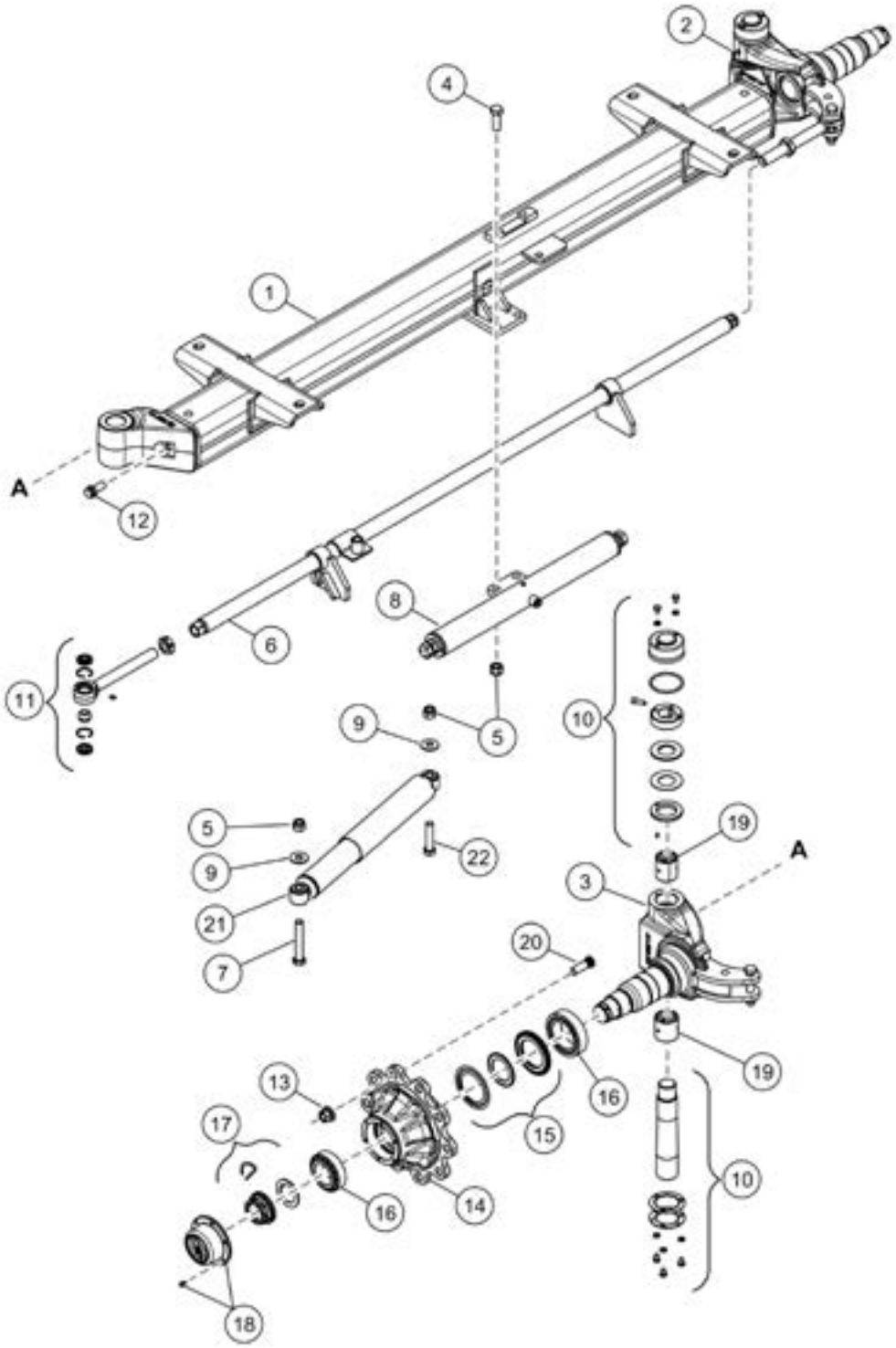


Force Steering Axle, Rear, S/N BNS5UF100N026

ITEM	Part #	Description
1	8020ST20N168-01	Axle
2	8001ST20L026	Arm, Steering, LH
3	8001ST20R026	Arm, Steering, RH
4	96120E0601	Bolt, Hex
5	97420E1	Nut, Hex
	80BF25	Bar, Stabilizer, 761-910, Includes 5 & 6
6	80BG28	Rod, Steering
7	98930F13	End, Rod
8	8127621001	Cylinder, Hydraulic, DO76/038 S210
9	98A28B1	Ball Joint, Axle
10	9RST06	Spare Parts, Steering Axle St Complete
11	96120E1101	Bolt, Hex
12	97420E1	Nut, Hex
13	57322B3	Nut, Spare Part Kit No.10
14	6BUA0007	Hub
15	9RNUA	Seals, Spare Part Kit
16	9RCUA	Bearing, Spare Part Kit
17	9RDF5865	Nut, Crown Spare Part Kit
18	9RT125AC	Cap, Spare Part Kit
19	9RST01	Bushing, Spare Part Steering Axle

6.2 STEERING AND AXLE PARTS

Self-Steering Axle, Front, S/N BNS5UF100N027

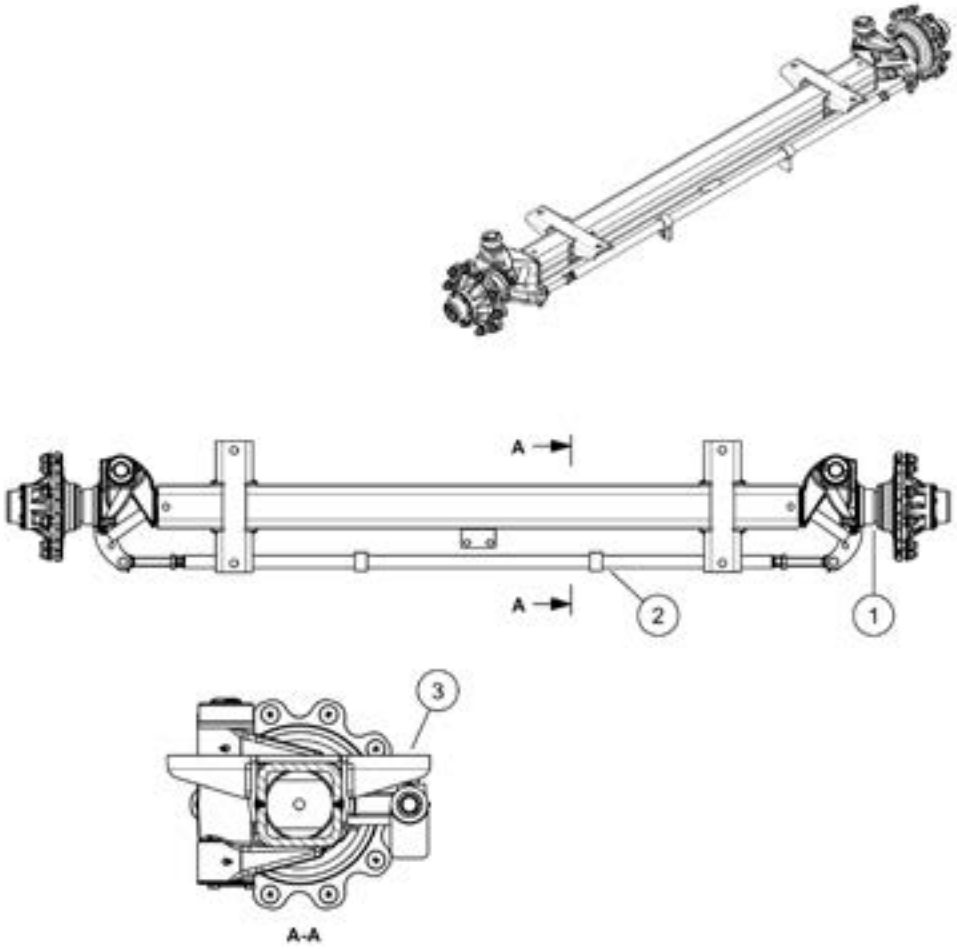


Self-Steering Axle, Front, S/N BNS5UF100N027

ITEM	Part #	Description
1	8020ST20N168-01	Axle
2	8001ST20L026	Arm, Steering, LH
3	8001ST20R026	Arm, Steering, RH
4	96120E0601	Bolt, Hex
5	97420E1	Nut, Hex
6	80B927	Bar, Stabilizer, L2150
7	96120E1301	Bolt, Hex, M20 x 2.50, L130, Gr. 8.8
8	8116416501	Cylinder, Hydraulic, DO76/038 S210
9	9812001	Washer, D020.5 D050
10	9RST06	Spare Parts, Steering Axle St Complete
11	9RG003	Kit, Spare Parts, Ball Joint End
12	9RS101	Kit, Spare Parts, Stunning Axle Adjustment
13	57322B3	Nut, Stud, M22 x 1.50
14	61L1UA003	Hub
15	9RNUA	Seals, Spare Part Kit
16	9RCUA	Bearing, Spare Part Kit
17	9RDF5865	Nut, Crown Spare Part Kit
18	9RT125AC	Cap, Spare Part Kit
19	9RST01	Bushing, Spare Part Steering Axle
20	9RC22-10	Stub, Spare Part Kit No. 10
21	8218312	Shock Absorber
22	96120E0901	Bolt, Hex, M20 x 2.50, L090, Gr. 8.8

6.2 STEERING AND AXLE PARTS

Self-Steering Axle



Self-Steering Axle

ITEM	Part #	Description
1	72UFBFD002-01	Axle Assy., Self-Steering
2	80BM09	Rod, Steering
3	BSPE0038-21-03	Arm

7 WARRANTY

1 Year From Date of Purchase

LIMITED WARRANTY - AGRICULTURAL PRODUCTS

Walkabout Mother Bins warrants against defects in construction or materials for a period of ONE year. We reserve the right to inspect and decide whether material or construction was faulty or whether abuse or accident voids our guarantee.

This warranty limits its replacement or repair coverage to what is consistent with the warranty of Walkabout Mother Bins suppliers of purchased components.

Replacement or repair parts installed in the equipment covered by this limited warranty are warranted for ninety (90) days from the date of delivery of such part or 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 Walkabout Mother Bins dealer during regular working hours. Warranted replacement parts will either be replaced or rebuilt at Walkabout Mother Bins discretion.

DISCLAIMER OF IMPLIED WARRANTIES & CONSEQUENTIAL DAMAGES

This warranty shall not be interpreted to render Walkabout Mother Bin, LLC liable for injury, death, property damage or damages of any kind, whether direct, consequential, or contingent to property. Without limiting the generality of the foregoing, Walkabout Mother Bins shall not be liable for damages resulting from any cause beyond its reasonable control, including, without limitation, loss of crops, any expense or loss of labor, supplies, rental machinery or loss of use.

No other warranty of any kind whatsoever, express or implied is made with respect to this sale; and all implied warranties of merchantability and fitness for a particular purpose which exceed the obligations set forth in this written warranty are hereby disclaimed and excluded from this sale. This exclusion shall not apply in any jurisdiction where it is not permitted by law.

THIS LIMITED WARRANTY SHALL NOT APPLY:

If, in the sole opinion of Walkabout Mother Bins, the unit has been subjected to misapplication, abuse, misuse, negligence accident or incorrect off-site machine set-up.

To any goods that have sustained damage or deterioration attributable to a lack of routine maintenance (eg. Check and re-torque of fastening hardware, hydraulic fluid purities, drivetrain alignments, and clutch operation).

If parts not supplied by Walkabout Mother Bins have been used in the connection with the unit, if, in the sole judgment of Walkabout Mother Bins such use affects its performance, safety, stability or reliability.

If the unit has been altered or repaired outside of an authorized Walkabout Mother Bins dealership in a manner which, in the sole judgment of Walkabout Mother Bins, affects its performance, safety, stability or reliability.

To expendable or wear items such as (eg. replaceable bushings, bearings and pins) and any other items that in the company’s sole judgment are a wear item.

This limited warranty is subject to any future availability of supply, which may directly affect Walkabout Mother Bins ability to obtain materials or manufacture replacement parts.

Walkabout Mother Bins reserves the right to make improvements in design or changes in specifications at any time, without incurring obligations to owners of equipment previously delivered.

WALKABOUT MOTHER BINS SAFETY & WARRANTY DOCUMENT

*Warranty NOT valid unless reviewed and signed

_____

Serial Number

Please read and initial the following statements:

_____ 1. I understand that I need to pull the keys, be authorized and tag machine when entering the Mother Bin to service it.

_____ 2. I understand that I should keep hands, feet and clothing away from moving parts and out of auger at all times.

_____ 3. I understand that when using rear steering, it is only to be used at speeds less than 3 mph (5 kph). Failure to do so can result in serious injury.

_____ 4. I understand that using an articulated or tracked tractors on the Mother Bin is not recommended. Doing so can cause the implement to become unsafe during transport. This may cause damage to the equipment or operator injury.

_____ 5. I understand that I need to be clear of powerlines / utility lines when raising the auger to avoid injury or electrocution.

_____ 6. I understand when hooking up and operating the Mother Bin, I am to use the safety chain at all times.

_____ 7. I understand the maximum transportation speed is 17 mph (27 kph), providing a suitable tractor is attached.

_____ 8. I understand the Mother Bin should only be transported on the road empty.

I have read and reviewed the statements above as well as the operators manual and I understand all of the safety aspects of operating the Walkabout Mother Bin. I understand any Walkabout Mother Bin warranty is null and void if this document is not signed and initialed.

_____ _____

Purchaser's Signature *Date Signed*

I have reviewed and explained the safety aspects of operating the Walkabout Mother Bin with the purchaser.

_____ _____

Seller Signature, Walkabout Mother Bins *Date Signed*

Beginning of 12 Month Warranty _____ /_____ /_____

Extended Warranty ☐ **YES** ☐ **NO**

Warranty Expiration Date _____ /_____ /_____

7 WARRANTY

