



SeedVeyor® Tenders Models 260 & 360

Part No. 28724

# SeedVeyor 260/360 — Introduction

#### **Foreword**

This symbol identifies important safety messages. When you see it, read the message that follows and be alert to the possibility of personal injury.

Remember, safety instructions stated in this manual are for your protection. Read them carefully and follow them closely when working around or using this machine.

Read and study this manual completely before attempting to operate this implement. Take this manual to the field for handy reference when operating, adjusting, or servicing your machine.

When referenced, "Right-Hand" (RH) and "Left-Hand" (LH) sides of the machine are determined by standing behind the machine and facing in the direction of travel.



# SeedVeyor 260/360 — Introduction

#### **Product Information**

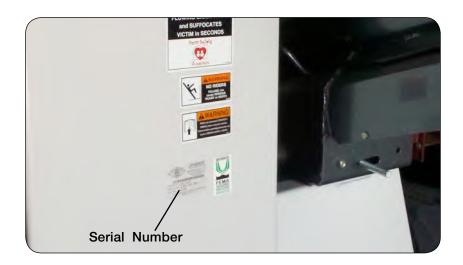
All products manufactured by Unverferth Mfg. Co., Inc. are warranted to be free from material and workmanship defects for one full year from time of consumer delivery. Your local dealer will gladly assist you with any warranty questions.

Please fill out and retain this portion for your records. The serial number plate is located on the frame as shown below.

| Purchase Date  | Model | Serial No. |
|----------------|-------|------------|
| Dealer         | City  |            |
| Dealer Contact |       | Phone      |

# IMPORTANT

The information, specifications, and illustrations in the manual are on the basis of information available at the time it was written. Due to continuing improvements in the design and manufacture of Killbros products, all specifications and information contained herein are subject to change without notice.



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# Section I Safety

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#### **General Hazard Information**

No accident-prevention program can be successful without the wholehearted cooperation of the person who is directly responsible for the operation of the equipment.

A large number of accidents can be prevented only by the operator anticipating the result before the accident is caused and doing something about it. No power-driven equipment, whether it be transportation or processing, whether it be on the highway, in the field, or in the industrial plant, can be safer than the person who is at the controls. If accidents are to be prevented--and they can be prevented--it will be done by the operators who accept the full measure of their responsibility.

It is true that the designer, the manufacturer, and the safety engineer can help; and they will help, but their combined efforts can be wiped out by a single careless act of the operator.

It is said that, "the best kind of a safety device is a careful operator." We, at Unverferth Mfg. Co., Inc. ask that you be that kind of operator.



#### **REMEMBER:**

# THINK SAFETY A CAREFUL OPERATOR IS THE BEST INSURANCE AGAINST AN

ACCIDENT!

SIGNAL WORDS



INDICATES AN EXTREMELY HAZARDOUS SITUATION OR ACTION THAT WILL RESULT IN SERIOUS INJURY OR DEATH.

# A WARNING

INDICATES A HAZARDOUS SITUATION OR ACTION THAT COULD RESULT IN SERIOUS INJURY OR DEATH.



INDICATES AN UNSAFE SITUATION OR ACTION THAT MAY RESULT IN PERSONAL INJURY.

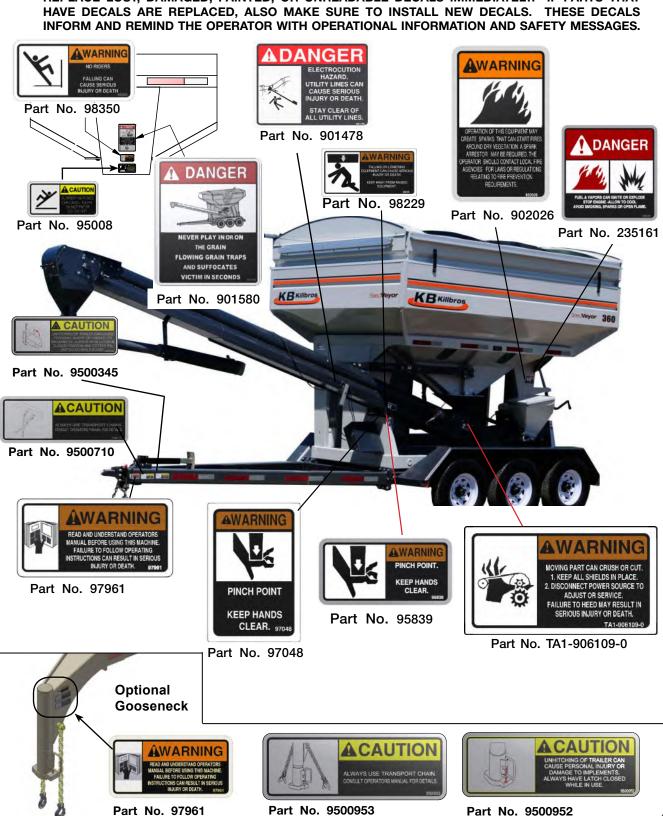
# **IMPORTANT**

Is used for instruction on operating, adjusting, or servicing a machine.



# WARNING

REPLACE LOST, DAMAGED, PAINTED, OR UNREADABLE DECALS IMMEDIATELY. IF PARTS THAT



# **Following Safety Instructions**

Read and understand this operator's manual before operating.



- All machinery should be operated only by trained and authorized personnel.
- To prevent machine damage, use only attachments and service parts approved by the manufacturer.
- Always shut power unit and towing vehicle engine off and remove keys before servicing the implement.



- Avoid personal attire such as loose fitting clothing, shoestrings, drawstrings, pants cuffs, long hair, etc., that may become entangled in moving parts.
- Do not allow anyone to ride on the implement. Make sure everyone is clear before operating machine or towing vehicle.



Never enter a seed tender containing grain. Flowing grain traps and suffocates victims in seconds.

# **Before Servicing**

 Avoid working under an implement; however, if it becomes absolutely unavoidable, make sure the implement is safely blocked.



- Ensure that all applicable safety decals are installed and legible.
- Explosive separation of a tire and rim can cause serious injury or death. Only properly trained personnel should attempt to service a tire and wheel assembly.
- To prevent personal injury or death, always ensure that there are people who remain outside the seed tender to assist the person working inside, and that all safe workplace practices are followed.
   There is restricted mobility and limited exit paths when working inside the implement.

# SeedVeyor 260/360 — Safety

#### **Before Operating**

- Do not stand between towing vehicle and implement during hitching.
- Verify that all safety shields are in place and properly secured.
- Always make certain everyone and everything is clear of the machine before beginning operation.
- Ensure that all applicable safety decals are installed and legible.

#### **During Operation**

- Regulate speed to field conditions. Maintain complete control at all times.
- Never service or lubricate equipment when in operation.
- Keep away from overhead power lines. Electrical shock can cause serious injury or death.
- Use extreme care when operating close to ditches, fences, or on hillsides.
- Do not leave towing vehicle or SeedVeyor tender unattended with engine running.
- Carbon monoxide can cause severe nausea, fainting or death. Do not operate engine in closed or confined area.
- Explosive fuel can cause fires and severe burns. Stop engine before filling fuel tank.
- Hot parts can cause severe burns. Do not touch engine while operating or just after stopping.
- Seed being transported may contain seed treatment. Read and follow all requirements for personal
  protective equipment and first aid as outlined on seed tags.
- Explosive gases from battery can cause fires and severe acid burns. Charge battery only in a well ventilated area. Keep sources of ignition away.

# SeedVeyor 260/360 — Safety

# **Before Transporting**

- Secure transport chains to towing vehicle before transporting. DO NOT transport without chains.
- Install transport locks before transporting.
- Check for proper function of all available transport lights. Make sure that all reflectors are clean and in place on machine.

# **During Transport**

- Comply with state and local laws governing highway safety when moving machinery.
- Use transport lights as required by local laws to adequately warn operators of other vehicles.
- Use good judgment when transporting equipment on highways. Regulate speed to road conditions and maintain complete control.
- Maximum speed of implement should never exceed 20 mph. Do not exceed 10 mph during offhighway travel.
- Do not transport unit with rear compartment full and front compartment empty. The unit may not be properly balanced, offsetting the trail ability of the implement.
- Slow down before making sharp turns to avoid tipping. Drive slowly over rough ground and side slopes.
- It is probable that this implement is taller, wider and longer than the towing vehicle. Become aware
  of and avoid all obstacles and hazards in the travel path of the equipment, such as power lines,
  ditches, etc.

# SeedVeyor 260/360 — Safety

# **Preparing for Emergencies**

Keep a first aid kit and properly rated fire extinguisher nearby.





 Keep emergency numbers for fire, rescue, and poison control personnel near the phone.



# **Wearing Protective Equipment**

Wear clothing and personal protective equipment appropriate for the job.





Wear steel-toed shoes when operating.



Wear hearing protection when exposed to loud noises.



Do not wear additional hearing impairing devices such as radio headphones, etc.



# SeedVeyor 260/360 — Safety Notes

# **Section II**

# Set Up

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FOR TORQUE INFORMATION, PLEASE REFER TO THE MAINTENANCE SECTION PAGE 4-14.

# SeedVeyor 260/360 — Set-Up

#### **Pre-Delivery Checklist**

After the SeedVeyor tender has been completely assembled, use the following checklist and inspect the tender. Check off each item as it is found satisfactory or after proper adjustment is made.

| Torque wheel nuts as specified in Maintenance section. |
|--|
| Torque all axle mounting hardware to 120 ftlbs.        |

- ☐ Tires are inflated to specified air pressure.
- ☐ All grease fittings have been lubricated.
- ☐ Check to be sure all safety decals are correctly located and legible. Replace if damaged.
- ☐ Check to be sure all reflective decals are correctly located.
- ☐ Check belt alignment and tension.
- ☐ Check to be sure transport lights are working properly.
- ☐ Transport chains are properly installed and hardware is torqued to specification.
- ☐ Paint all parts scratched in shipment.

# **A WARNING**

- READ AND UNDERSTAND THE SAFETY RULES BEFORE OPERATING OR SERVICING THIS MACHINE. REVIEW THE "SAFETY" SECTION IN THIS MANUAL IF NECESSARY.
- TIPPING OR MOVEMENT OF THE MACHINE CAN CAUSE SERIOUS INJURY OR DEATH.
  BE SURE THE MACHINE IS SECURELY BLOCKED.
- MOVING OR ROTATING COMPONENTS CAN CAUSE SERIOUS INJURY OR DEATH.
   ENSURE SERVICE COVERS, CHAIN/BELT COVERS AND CLEAN-OUT DOOR ARE IN PLACE AND SECURELY FASTENED BEFORE OPERATING THE UNIT.
- KEEP HANDS CLEAR OF PINCH POINT AREAS.
- FALLING OBJECTS CAN CAUSE SERIOUS INJURY OR DEATH. DO NOT WORK UNDER
  THE MACHINE AT ANY TIME WHILE BEING HOISTED. BE SURE ALL LIFTING DEVICES
  AND SUPPORTS ARE RATED FOR THE LOADS BEING HOISTED. THESE ASSEMBLY
  INSTRUCTIONS WILL REQUIRE SAFE LIFTING DEVICES UP TO 5,000 LBS. SPECIFIC
  LOAD RATINGS FOR INDIVIDUAL LOADS WILL BE GIVEN AT THE APPROPRIATE TIME
  IN THE INSTRUCTIONS.
- EYE PROTECTION AND OTHER APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT MUST BE WORN WHILE SERVICING THE IMPLEMENT.

# **SeedVeyor Assembly**

This section contains instructions required for assembly of the SeedVeyor tender.

For your safety, and the safety of others, use the proper tools and equipment, and always use safe working procedures. Refer to these instructions before starting any work on the machine.

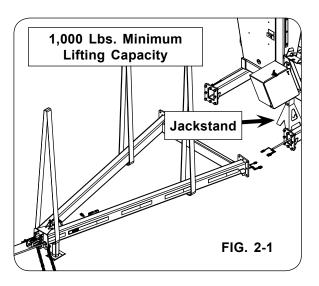
# **IMPORTANT**

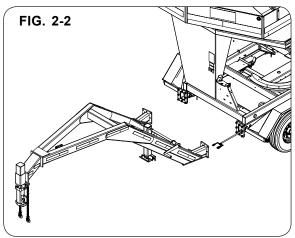
The procedures for assembling this unit are intended for two or more people.

For ease of assembly, install all hardware loosely until the assembly is complete and then tighten according to the Torque Chart in the Maintenance Section of this manual.

# **Assemble Hitch/Gooseneck to Undercarriage**

- 1. If the SeedVeyor tender was shipped with a hitch/gooseneck installed, torque 5/8"-11UNC retaining hardware to 120-135 ft.-lbs. If the tender was shipped without a hitch/gooseneck installed, proceed to step 2.
- Place jackstand rated for minimum 1000 lbs. capacity under front of undercarriage frame. Raise hitch using a safe lifting device with a minimum 1,000 lbs. capacity, and place the hitch/gooseneck in line with the undercarriage.
- Connect the electrical connections, and push extra wire harness into tubes. Move hitch against undercarriage frame being careful not to pinch the wiring harness.
- 4. Bolt the hitch/gooseneck to undercarriage using 5/8"-11UNC x 2 1/4" capscrews (9390-125), 5/8" stainless steel flat washers (903108), and 5/8"-11UNC locknuts (9801). Torque 5/8"-11UNC hardware to 120-135 ft.-lbs.
- Verify the function of the SeedVeyor lighting. See Maintenance section for the schematic, if needed.





#### **Ladder Installation**

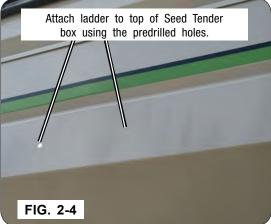
# A WARNING

- TO PREVENT PERSONAL INJURY OR DEATH, ALWAYS ENSURE THAT THERE ARE PEOPLE WHO REMAIN OUTSIDE THE SEEDVEYOR TO ASSIST THE PER-SON WORKING INSIDE, AND THAT ALL SAFE WORKPLACE PRACTICES ARE FOLLOWED. THERE IS RESTRICTED MO-BILITY AND LIMITED EXIT PATHS WHEN WORKING INSIDE THE IMPLEMENT.
- Remove the ladder and components from inside the tank.
- 2. Attach the extension bracket to the frame using the hardware provided.

3. Attach the middle portion of the ladder to the right side of the box, using the predrilled holes at the top. Secure in place using 1/2"-13UNC x 1 1/4" capscrews (9390-100), 1/2" flat washers (9405-088), and 1/2"-13UNC locknuts (9800).

Slide the upper portion of the ladder into the top
of the middle portion of the ladder. Attach the
upper portion to the tank using the predrilled
hole.





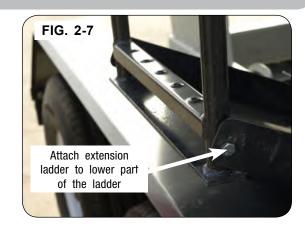




# **SeedVeyor 260/360** — Set-Up

# **Ladder Installation** (continued)

 Remove bolt holding extension ladder in and discard. It is used for shipping only. Attach ladder to the lower extension lower part of the ladder using capscrews (9390-058) and locknuts (9928).



# Scale Package #26858 (Optional) - Model 640XL

Remove two hold down brackets from one side of the box. Assemble load cell (902063) into scale bracket (29477CG) using two 3/8"-16UNC x 3 3/4" capscrews (9390-066) and 3/8"-16UNC top locknuts (9928). The load cells must be assembled so the 'TOP' indicator on the load cell is located to the top of the bracket or rotate the load cell so the "bending direction" decal on the end of the bar points down. Using a safe lifting device with minimum 5000 lb. lift capacity, carefully lift one side of the box approximately 1". Slide the load cell into the bushing on the inside of the box. Fasten the bracket down to the undercarriage using the four 5/8"-11UNC x 2" capscrews (9390-124) and 5/8"-11UNC top locknuts (9801). Repeat this process for all four corners of the box.

Route the load cell cables along the inside edge of the box and fasten using the cable ties (9000106). Be certain the cables will not get pinched or worn.

Assemble the scale enclosure (28945CG) to the front of the box using two 1/2"-13UNC x 1 1/2" capscrews (9390-101) and 1/2"-13UNC locknuts (9800).

Route cables from the load cells into the opening at the bottom of the enclosure and connect to the scale indicator (902062) ports. Connect power cord (902087) to indicator, and fasten indicator into enclosure using two 1/4" x 3/4" bolts (9390-003) and lock nuts (9928).

Connect the scale power cord to the battery at the rear of the SeedVeyor tender.

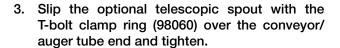


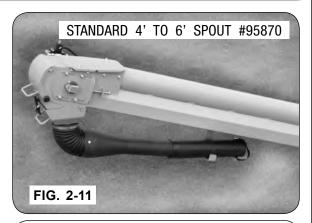


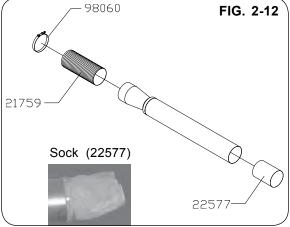


# 6' - 10' Long Discharge Spout #22578 (Optional)

- 1. Lower the conveyor/auger to approximately 4-5 feet off the ground.
- 2. Remove the standard spout from the conveyor/ auger by loosening the T-bolt clamp ring.





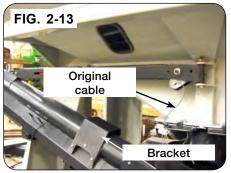


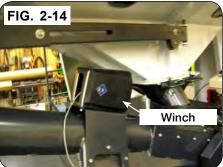
# Electric Winch Kit #28474 (Optional)

- With the conveyor/auger resting in the transport position, remove the hand winch and existing winch bracket.
- 2. Install the bracket for the electric winch using 3/8" x 1" bolts and locknuts.
- 3. Install the winch onto the bracket using 3/8" x 1" bolts and locknuts.
- 4. Remove the outer cable covering by removing the 1/2-inch locknuts from the end pins.

5. Completely remove the cable that was used with the hand winch.

- Wrap the cable beginning with the conveyor/ auger end. Start under the pulley, back to the anchor end, repeat and secure at the conveyor/ auger end using the 1/2-inch bolt and locknut.
- 7. Reinstall the cable covers and secure with the 1/2-inch bolts and locknuts.









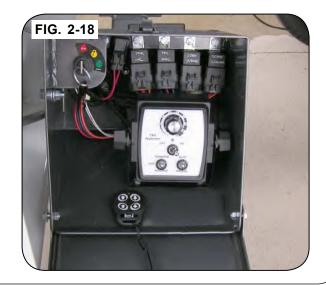


# SeedVeyor 260/360 — Set-Up

# **Two-Function Wireless Remote Kit #2002376CG (Optional)**

Wireless remote control package controls conveyor unloading speed and raises and lowers the conveyor if the unit is equipped with electric winch option.

Refer to your Two-Function Wireless Remote manual for set up, operating, and maintenance information.



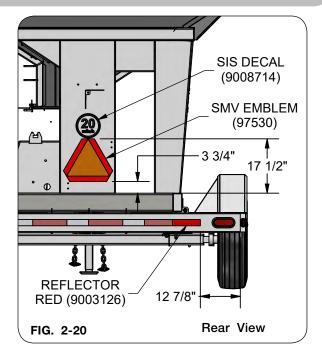
# **Auto Shutoff Scale Kit #2002373CG (Optional)**

Auto Shutoff kits allow the user to program a set amount of seed to be unloaded per operation. Refer to your Auto Shutoff Scale instruction sheet for more information.

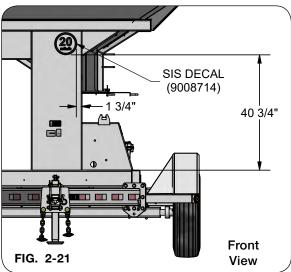


# **AG Package Decal Placement**

- 1. Center and attach the SMV Emblem (95730) to the rear of the unit 3 3/4" from the frame. (FIG. 2-20)
- 2. Center and attach the SIS decal (9008714) to the rear of the unit 17 1/2" from the bottom of the frame. (FIG. 2-20)
- 3. Attach the red reflector (9003126) 12 7/8" from the right-hand side of the bumper. (FIG. 2-20)

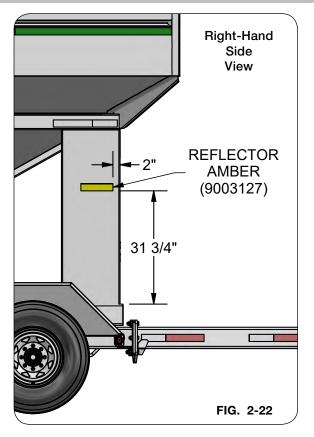


4. Attach the SIS decal (9008714) to the front of the unit 40 3/4" from the frame and 1 3/4" from the side of the panel as shown in FIG. 2-21.

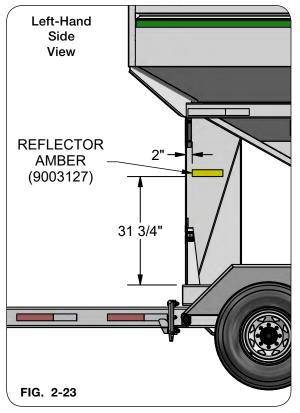


# **AG Package Decal Placement** (continued)

5. Place the amber reflector (9003127) 31 3/4" from the frame and 2" from the front on the right-hand side of the unit. (FIG. 2-22)



6. Place the amber reflector (9003127) 31 3/4" from the frame and 2" from the front on the left-hand side of the unit. (FIG. 2-23)



# SeedVeyor 260/360 — Set-Up Notes

# SeedVeyor 260/360 — Operation

# **Section III Operation**

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Refer to your Two-Function Wireless Remote manual #2002578 for more information.

Refer to your Auto Shutoff Scale instruction sheet #2003103 for more information.

# **Preparing Towing Vehicle**

Before operating the implement, refer to the towing vehicle's operator's manual for information concerning safe methods of operation, hitch capacities, hitch adjustments, tire inflation and undercarriage braking operation.

The vehicle must be equipped with proper electric undercarriage braking components. Check the vehicle brakes and warning lights. Make sure they are in proper working order.

Do not exceed the towing vehicle's GVWR (Gross Vehicle Weight Rating) or GCWR (Gross Combination Weight Rating), or the maximum hitch load.

Estimated weights of the fully loaded SeedVeyor tender are:

#### Model 360

Gross Vehicle Weight Rating is 25,000 lbs. Loaded tongue weight is 1,000 lbs.

#### Model 260

Gross Vehicle Weight Rating is 19,500 lbs. Loaded tongue weight is 1,000 lbs.

These are estimates. The loaded tongue weight will vary greatly based on the height of the hitch, and the variation in the terrain that the SeedVeyor tender is being pulled across.

Towing vehicle hitch - ball or pintle hook, must be heavy enough to carry the load of the SeedVeyor.

# **Preparing Implement**

#### Lubrication

Lubricate as outlined in the Maintenance section.

Refer to this operator's manual for the proper fluid levels in the engine.

#### Tires/Wheels

Check the tire pressures and maintain at the recommended values listed in the Maintenance section of this manual.



 IMPROPERLY TORQUED WHEEL NUTS/BOLTS CAN CAUSE A LOSS OF IMPLEMENT CONTROL AND MACHINE DAMAGE. WHEEL NUTS/BOLTS MUST BE CHECKED REGU-LARLY. SEE THE TORQUE PAGE IN THE MAINTENANCE SECTION FOR PROPER WHEEL NUT/BOLT SPECIFICATIONS. WARRANTY DOES NOT COVER FAILURES CAUSED BY IMPROPERLY TORQUED WHEEL NUTS/BOLTS.

For questions regarding new tire warranty, please contact your local original equipment tire dealer. Used tires carry no warranty. Tire manufacturers' phone numbers and web sites are listed in the Maintenance section of this manual for your convenience.

# **Connecting SeedVeyor to Towing Vehicle**

# **A WARNING**

• CRUSHING CAN CAUSE SERIOUS INJURY OR DEATH. DO NOT STAND BETWEEN TOW-ING VEHICLE AND IMPLEMENT WHEN HITCHING. ALWAYS ENGAGE PARKING BRAKE AND STOP ENGINE BEFORE INSERTING HITCH PINS OR SECURING LATCHES.

The SeedVeyor undercarriage is designed to be connected to a towing vehicle utilizing either the pintle hitch, or a 2 5/16" ball hitch.

Back the towing vehicle up to the undercarriage and align the vehicle's ball or pintle hook with the coupler or ring on the undercarriage. Lower the jack to set the undercarriage down on the ball or pintle hook. Latch the coupler so the connection is secure. Pivot the jack to the transport position and pin in place.

Connect the electrical plug from the undercarriage to the towing vehicle. Check the routing of the electrical cord to be certain it is long enough to pivot when turning, but not too long to touch or rub the ground during transport.

Connect the undercarriage brake breakaway cable to the towing vehicle. Do not connect this directly to the hitch. It needs to be connected in a place that will still be attached, even if the ball or pintle coupler fails.

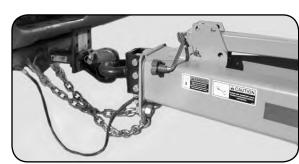
# **Transport Chains**



ALWAYS USE THE TRANSPORT CHAINS WHEN TRANSPORTING THE IMPLEMENT.
 FAILURE TO USE THE CHAINS COULD CAUSE PERSONAL INJURY OR DAMAGE IF THE IMPLEMENT BECOMES DISENGAGED.

Transport chains should have a minimum rating equal to the gross weight of the implement and all attachments. Allow no more slack in the chains than necessary to permit turning.

Cross the chains when connecting as shown in the photo to the right.



# IMPORTANT

 Replace the transport chains if any link or end fitting is broken, stretched or damaged. DO NOT WELD TRANSPORT CHAINS.

# **Transporting**

# ▲ DANGER

 CONTACT WITH UTILITY LINES CAN CAUSE SERIOUS INJURY OR DEATH. DO NOT OPERATE THE SEEDVEYOR NEAR UTILITY LINES.



# A WARNING

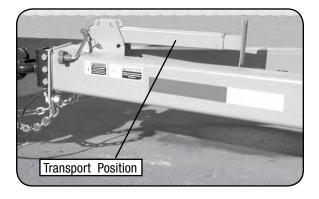
- ALWAYS TRAVEL AT A SPEED THAT PERMITS COMPLETE CONTROL OF THE TOWING VEHICLE AND IMPLEMENT.
- THE REAR HOPPER OF THE SEEDVEYOR BOX SHOULD ALWAYS BE EMPTIED FIRST.
  THIS WILL MAINTAIN THE WEIGHT ON THE HITCH OF THE TOWING VEHICLE. EMPTYING THE FRONT HOPPER FIRST WITH THE REAR HOPPER FULL COULD RESULT IN NEGATIVE TONGUE WEIGHT ON THE UNDERCARRIAGE AND REDUCED CONTROL WHEN TOWING.

# A CAUTION

 USE APPROVED TRANSPORT LIGHTS AND REFLECTORS WHEN TRANSPORTING AT NIGHT, DURING PERIODS OF POOR VISIBILITY, AND AS REQUIRED BY LOCAL LAW.

# **IMPORTANT**

 Before the unit is transported, be sure the jack stand is in the 'Transport Position'.



When transporting on public roads, the conveyor/auger needs to be latched in the forward position, extending over the tongue of the undercarriage. Transporting the implement with the conveyor/auger latched in the rearward position does not comply with lighting and conspicuity marking requirements.

The center of gravity on the SeedVeyor box is higher than a typical undercarriage. Use extreme caution when making turns and entering/exiting fields.

Comply with all state and local laws governing highway safety and regulation when moving machinery on public roads.

Be sure the reflectors and lights are in place and clearly visible to approaching traffic.

# SeedVeyor 260/360 — Operation

# **Transporting** (continued)

Be certain clearance to rafters, walls, machinery, etc. exists before operating the conveyor/ auger. With a towing vehicle hooked to the SeedVeyor tender, activate the belt to make sure everything moves freely.



## **Engine Operation**

# A WARNING

- EXPLOSIVE FUEL CAN CAUSE FIRES AND SEVERE BURNS. STOP THE ENGINE BEFORE FILLING THE FUEL TANK.
- CARBON MONOXIDE CAN CAUSE SEVERE NAUSEA, FAINTING OR DEATH. DO NOT OPERATE THE ENGINE IN A CLOSED OR CONFINED AREA.
- HOT PARTS CAN CAUSE SEVERE BURNS. DO NOT TOUCH THE ENGINE WHILE OPERATING OR JUST AFTER STOPPING.
- EXPLOSIVE GASES FROM THE BATTERY CAN CAUSE FIRES AND SEVERE ACID BURNS.
   CHARGE THE BATTERY ONLY IN A WELL VENTILATED AREA. KEEP SOURCES OF IGNITION AWAY.
- OPERATION OF THIS EQUIPMENT MAY CREATE SPARKS THAT CAN START FIRES AROUND DRY VEGETATION. A SPARK ARRESTOR MAY BE REQUIRED. THE OPERATOR SHOULD CONTACT LOCAL FIRE AGENCIES FOR LAWS OR REGULATIONS RELATING TO FIRE PREVENTION REQUIREMENTS. THE SPARK ARRESTOR MUST BE PURCHASED SEPARATELY AND CAN BE FOUND IN THE PARTS SECTION NEAR THE END OF THIS MANUAL.

# **IMPORTANT**

• When the engine is not in use, turn the fuel lever to the <OFF> position. Leaving the fuel valve on could cause carburetor flooding, fuel in the crankcase or fuel leakage. See photos to the right.

NOTE: Installation instructions for the spark arrestor can be found in the Honda engine manual.

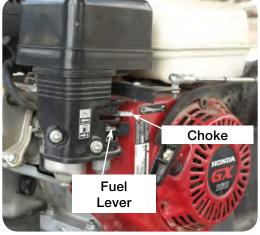
#### Starting Engine:

Turn the fuel shut-off valve to the <ON> position. Apply the choke, and turn the key or pull recoil rope to start the engine. Once the engine is running, turn the choke off and increase the throttle speed.

In extremely cold weather, it is best to allow the engine to warm up before operating at full throttle speed.

See the engine operator's manual for more detailed information on engine operation.





# Raising and Lowing Conveyor/Auger

# **IMPORTANT**

Always hold the transport latch lever to the side when raising the conveyor/auger.

For manual operation, hold the latch lever to the side, and crank the winch to raise the conveyor/auger out of transport. The conveyor/ auger can then be raised and lowered by cranking the winch in or out.

For the electric winch, hold the latch lever to the side and press the "IN" button on the electric winch handle. The conveyor/auger can then be raised by pressing the "IN" button, and lowered by pressing the "OUT" button.



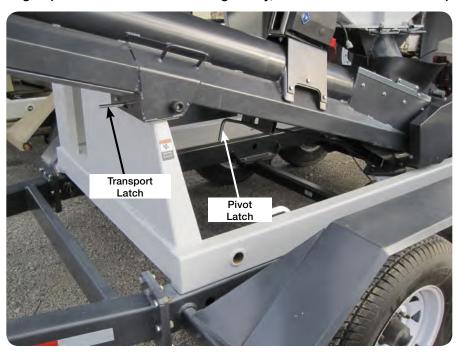
## **Pivoting Conveyor/Auger Side-to-Side**



• WHEN THE SEED TENDER IS PARKED ON AN INCLINE, THE CONVEYOR MAY PIVOT AS SOON AS THE LATCH IS RELEASED. INADVERTENT MOVEMENT OF THE CONVEYOR MAY CAUSE PERSONAL INJURY.

Hold the conveyor/auger latch lever to the side, and raise the conveyor/auger out of the transport position. Pull the pivot lock up and swing the conveyor/auger to the side.

The conveyor/auger pivot can be left to swing freely, or it can be latched in place.



## Filling Planter or Drill

# **WARNING**

THE REAR HOPPER OF THE SEED TENDER BOX SHOULD ALWAYS BE EMPTIED FIRST.
THIS WILL MAINTAIN WEIGHT ON THE HITCH OF THE TOWING VEHICLE. EMPTYING
THE FRONT HOPPER FIRST WITH THE REAR HOPPER FULL COULD RESULT IN NEGATIVE TONGUE WEIGHT ON THE UNDERCARRIAGE AND REDUCED CONTROL OF THE
UNDERCARRIAGE WHEN TOWING.

The conveyor/auger On/Off is controlled by a centrifugal clutch on the engine. Increasing the engine speed will engage the clutch and turn the conveyor/auger on. Continuing to increase the engine speed will increase the belt/auger flighting speed. Decreasing the engine speed will slow the belt/auger flighting, and eventually disengage the clutch to turn the conveyor/auger off. Engine speed is controlled by a rocker switch on the hand-held controller.

Press the UP arrow to increase engine speed to engage the conveyor/auger centrifugal clutch and increase belt speed. Press the DOWN arrow to decrease engine speed and disengage the centrifugal clutch.

Position the SeedVeyor tender next to the planter so the conveyor/auger discharge will be over the planter box. Raise the conveyor/auger to the desired discharge height, and pivot to the location over the planter. Place the telescoping spout over the planter box. Start the engine and open the flow door(s) to begin the flow of seed. Increase the engine throttle speed to start the conveyor/auger.

Fill the box to the desired level, and turn the conveyor off by decreasing the throttle speed. Repeat the process until each box/hopper is filled. Adjusting the engine speed regulates the conveyor/auger speed.



# **IMPORTANT**

• Do not let the telescoping spout rest in the bottom of the seed box. Seed will rapidly build up and plug the conveyor, resulting in potential damage to the belt.

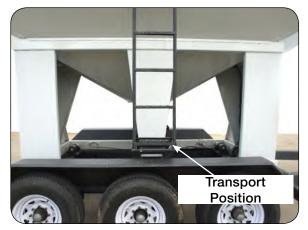
It is recommended that the conveyor/auger be emptied once the planter is filled. Do this by closing the door(s) on the SeedVeyor box shortly before the last planter box is full, and let the conveyor/auger empty out.

Leaving seed in the conveyor/auger for short periods of time will not damage the conveyor/auger, nor will it hinder starting/stopping the conveyor/auger when it is full, but over time, seed could begin to settle resulting in hard starting of the conveyor/auger.

# SeedVeyor 260/360 — Operation

# Ladder

- To use the ladder, extend the lower extension ladder from the transport position by sliding the bottom rung out until it stops. Lower the extension ladder towards the ground.
- 2. When not using the ladder, be sure to raise the lower extension ladder upward and slide back into the transport position.





# SeedVeyor 260/360 — Operation

#### **Weather Guard Tarp**

Always use adequate caution when operating the tarp.

If the tarp is covered with snow, it is important to remove snow before operating.

End caps must be free from grain that may be piled on them. Grain should not be heaped higher than end caps.

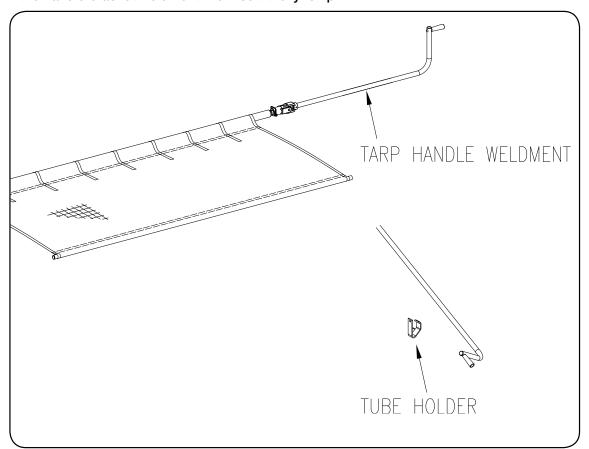
The tarp should be fully opened when loading and unloading.

The tarp should be fully opened or completely closed during field operation.

NOTE: The U-joint may need to be re-indexed on the splined shaft of the roll tube to achieve an ideal tarp tension and that over time it may need to be readjusted.

#### **Procedure**

- 1. Remove the lynch pin from the handle bracket weldment.
- 2. Using both hands, carefully remove the tarp handle weldment from the tube handle bracket weldment.
- 3. Raise the tarp handle weldment high in the air and at the rear of the box.
- 4. Roll the tarp to the desired location fully open or fully closed position.
- 5. Walk the tarp handle weldment out then back towards the middle to tighten the tarp and position it in the handle bracket weldment. Re-insert the lynch pin.



### **Electronic Scale Operation - Model 640XL (Optional)**

The following instructions can also be found in your scale/indicator user's manual.

### **Key Functions**

### ON/OFF

Pressed to power on or off the indicator.

### RM

Pressed to access memory channel. Also used to increment numbers during the numeric entry procedure.

### M+

Pressed to accumulate weights. Also used to decrement numbers during the numeric entry procedure.

### **TARE**

Pressed to tare the weight on the scale.

### G/N

Pressed to toggle between gross and net weight.

### **HOLD/MENU**

Press and hold to display weight. Press again to release the hold mode. Also used to move to the right in the menu structure and to move the numeric entry cursor one space to the right.

### PRINT/SELECT

Press to send data to an attached data collection device, printer, TDM or computer. Also used to move down in the menu structure.

### **ZERO/CLEAR**

Press to zero G/N weight. Also used to clear memory channels.

### Zeroing & Weighing

Press ON

Display shows HELLO, then the current weight value is displayed.

2. Press G/N and access gross mode...

Live scale weight is displayed in the G/N weighing mode.

3. Remove all material from the scale and press ZERO/CLEAR 0 is displayed, and the system is zeroed.

### Gross/Tare/Net Weighing

- After zeroing and weighing, place the material to be tared on the scale...
   Weight of the material is displayed
- 2. Press the TARE key to tare the weight from the display...0 weight is displayed and the NET annunciator lights to indicate there is an active tare weight.
- Place the material to be weighed on the scale... Net weight is displayed.



### Electronic Scale Operation - Model 640XL (Optional) (continued)

### Gross/Tare/Net Weighing (continued)

- 4. Remove the weighed material from the scale (leaving the tared item).
- 5. Repeat steps 2 through 5 for each weighment using the same tare weight.
- 6. To remove the tare weight, press the G/N key to return to gross weigh mode, then press the ZERO/ CLEAR key...

The tare weight is removed and you can repeat this process to weigh more material with a different tare.

### **Print All Memory Channels**

1. Press RM^...

Latest memory channel is displayed.

2. Press PRINT/SELECT for 2 beeps (2 secs)

PR-ALL is momentarily displayed and information is transmitted.

3. Indicator returns to gross weighing mode.

The indicator will only print out memory channels that have accumulated weight amounts.

### **How to Configure Filtering**

If you need to adjust the filtering on your Model 640 to counteract excessive movement or vibration on the scale system, follow these steps to access the FILTER menu item of the Set up menu and make needed changes.

1. Access the Set Up menu from the G/N mode. To do so, press and hold the HOLD/MENU key for three beeps (3 seconds), then release...

SET.PAS is displayed

2. Use the numeric entry procedure to enter the password 640. Press PRINT/SELECT to accept it...

640 is shown

3. Press PRINT/SELECT once more...

CONFIG is displayed.

4. Repeatedly press the HOLD/MENU key until...

FILTER is displayed. There are two parts to filtering; Constant and Window. How to set these is explained on the next page.

### Electronic Scale Operation - Model 640XL (Optional) (continued)

### How to Configure Filtering (continued)

5. Press the PRINT/SELECT key twice...

The current CONSTANT value is shown. Press the HOLD/MENU key to increase the value. Increasing this value causes the indicator to ignore increasing amounts of weight change on the scale. This means small changes can be ignored at a relatively small CONSTANT value. To filter larger changes out, choose a larger CONSTANT value. (Choices are OFF to 10, Default=2)

6. When the value you want to try is displayed, press the PRINT/SELECT key...

Your choice is selected and CONST is displayed.

7. Press the HOLD/MENU key...

WINDOW is displayed. This is where you will set the threshold window of the filter parameter. You can enter 0 to full capacity.

8. Press the PRINT/SELECT key...

Current setting for the threshold window is displayed.

9. Use the numeric entry procedure to enter a new value. Press the PRINT/SELECT key to accept it...

WINDOW is displayed.

10. Repeatedly press the G/N key until you return to the gross weighing mode.

Check the function of the indicator. If the weight display does not act in a manner to your liking, repeat steps 1 through 9 until the indicator functions as desired.

### **Display Messages**

The following are the messages that may appear on the display and what they mean:

| Message<br>HELLO | Meaning Message displayed on power-up sequence for 3 seconds.                                      |
|------------------|--|
|                  | UPPER DASHES, Indicator is in a state of overcapacity, or analog input is too high.                |
|                  | LOWER DASHES, Indicator is in a state of under capacity, or analog input is too low.               |
| NO TARE          | Displayed when you press the G/N key and there is no tare weight established.                      |
| PRINT            | Indicator is transmitting data. Appears after pressing the print key for a second.                 |
| LO-BAT           | Alternates on the display between current mode and LOBAT when input voltage is between 9-10 volts. |
| HOLD             | Used when moving a portable system.  |
| L XXX            | XXXX = weigh value Displayed when the indicator is in AUTO-LOC mode and has locked on a weight.    |

### Electronic Scale Operation - Model 640XL (Optional) (continued)

### **Display Messages** (continued)

The following are the messages that may appear on the display and what they mean:

Message Meaning

+RANGE Displayed when the weight input exceeds 8 mV/V.

-RANGE Displayed when the weight input exceeds -8 mV/V.

SHTDWN Shown on the display prior to shutting the indicator off after the sleep timer has

expired, or when you press the ON/OFF key. (10 seconds before the sleep timer

shuts down, the alarm will beep several times).

CAN'T Displayed when attempting to access too large of a numeral.

### **Editing the A-List**

### Menu Navigation



Moves right in the menu structure.



Moves up in the menu structure.



Selects displayed option and moves up/down in menu structure at

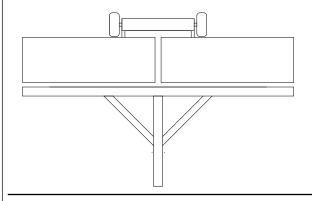
If the application requires alphanumeric channel names, go through the memory channel list, and edit their descriptions accordingly. Example, if you want to record seed tender loads from five different fields, then create a list of FIELD1, FIELD2, ...FIELD3. Now the custom names of the memory channels can be used, otherwise all memory channels will be the default descriptions of MEM.001, MEM.002, etc.

- From the G/N mode, press HOLD/MENU for 2 beeps...
   A-LIST is shown on the display
- 2. Press the PRINT/SELECT key... EDIT is displayed
- Press PRINT/SELECT again and...
   MEM.001 is displayed, or the last memory channel accessed.

If reviewing the memory channel list, to edit, get to the displayed channel by pressing and holding on the HOLD/MENU key, or use the RM^ key in conjunction with the HOLD/MENU key to go directly to a memory channel to edit its name. Example: Press PM^ three times to reach 2, and then press PRINT/SELECT and MEM.002 will be displayed on the screen.

4. Press G/N three times to return to G/N weighing mode.

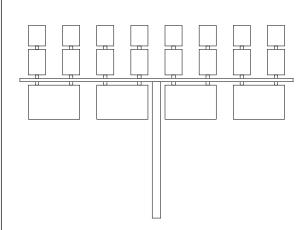
### **Spout Recommendations**



### Standard 2-Stage Spout

Provides adequate spout length for easy filling. The shorter 2-Stage is optimum for maneuvering within the drill compartments.

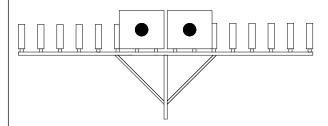
Part numbers: Min. - Max. 27629 - 6" Diameter 3.5' - 5' 25532 - 8" Diameter 3.5' - 5'



### **Optional 3-Stage Spout**

For extra reach and easy filling; Optimum length for virtually any size individual box planter.

Part numbers: Min. - Max. 22578 - 6" Diameter 5' - 9' 29782 - 8" Diameter 6' - 11'



\*Case 1200 Bulk Fill Planter requires the 2-Stage spout.

### Optional 4' Flex Spout\*

For the fastest filling and to prevent any flow restriction or back feeding that can potentially occur with other spouts.

Part numbers: TAAU14170 - 6" Diameter x 48" 901544 - 8" Diameter x 48"

# SeedVeyor 260/360 — Operation Notes

# **Section IV Maintenance**

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### Lubrication

Lubricate with an SAE multi-purpose grease. All fittings must be free from dirt and paint to insure entry of lubricant inside the bearing.

### **Conveyor/Auger Bearings**

Lubricate these bearings every 100 hours of operation and at the end of each season before storage. Use only one stroke of grease per bearing.

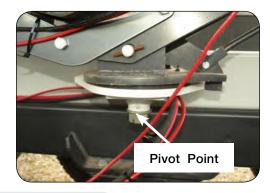


• DO NOT USE A HIGH-PRESSURE GREASE GUN TO LUBRICATE THE CONVEYOR/AUGER BEARINGS, AS DAMAGE TO THE BEARING SEAL COULD OCCUR.

NOTE: Excessive lubrication of these bearings will result in premature failure.

### **Pivot Points**

Lubricate the pivot points on the pivoting arm every 50 hours of operation and at the end of each season.



### **Wheel Bearings**

The wheel bearings should be cleaned, repacked and adjusted every 12 months or 12,000 miles, whichever comes first. Use a number 2 wheel bearing grease to repack the bearings and adjust the bearing to a free-rolling fit with no end play.

### **Engine Oil Level**

Check the motor oil level in the engine daily. See the Engine operator's manual for details on oil levels, oil types and service intervals.

### **Conveyor Belt**

# **A WARNING**

 MOVING OR ROTATING COMPONENTS CAN CAUSE SERIOUS INJURY OR DEATH. USE EXTREME CARE WHEN INSPECTING AND ADJUSTING BELT TRACKING.

Proper belt tension and correct 'tracking' of the belt are critical to maintaining the belt for years of worry-free use. Belt tension and tracking should be checked at the beginning of each season. Belt alignment should be checked after the very first initial use then after the first 2 hours of initial use or after every adjustment of the belt tension/alignment. Once the belt tracking is set, it will be necessary to check the alignment after every 8 hours of use.

### **Belt Tension**

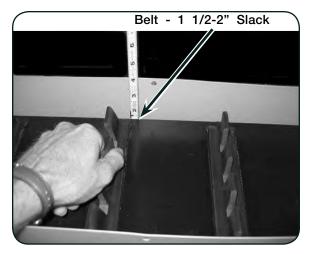
Belt tension is inspected by removing the lower cover panel from the conveyor, and gently pulling on the conveyor belt. The belt should have approximately 1 1/2" - 2" of slack at the center.

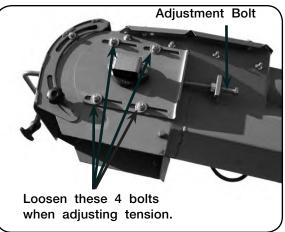
Belt tension is adjusted at the discharge end of the conveyor. Loosen, DO NOT REMOVE, the four 3/8" bolts on each side of the conveyor. Use the two adjusting bolts to adjust the belt to the proper tension.

It is important to move both sides the same distance. Too much tension on the belt will stretch the splice link and greatly reduce belt life. Too little tension on the belt could result in belt slipping on the drive pulley. Replace the bottom cover panel and continue to check the belt tracking before re-tightening the four bolts on each side of the conveyor.

### **IMPORTANT**

 Belt tracking must be done every time tension is adjusted.





### Conveyor Belt (continued)

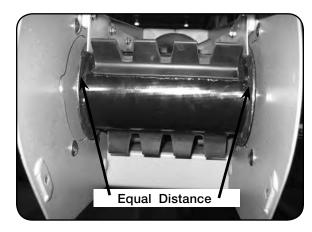
### **Belt Tracking**

# A WARNING

 ENTANGLEMENT WITH MOVING PARTS CAN CAUSE SERIOUS INJURY OR DEATH. USE EXTREME CARE WHEN INSPECTING AND ADJUSTING BELT TRACKING. AVOID PER-SONAL ATTIRE SUCH AS LOOSE FITTING CLOTHING, SHOESTRINGS, DRAWSTRINGS, PANTS CUFF, LONG HAIR, ETC., THAT MAY BECOME ENTANGLED IN MOVING PARTS.

The conveyor belt must always run at the center of the pulley in both the intake and discharge end. Improper tracking of the belt will result in excessive wear to the edge of the belt, and will greatly reduce belt life. Check the belt tracking every 8 hours of use, and every time belt tension is adjusted.

Inspect the tracking of the belt at the discharge end by removing the lower spout, pivoting the deflector up and looking up at the belt and pulley. The belt should be in the center of the pulley.



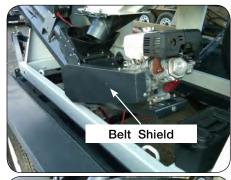
Adjust by loosening, DO NOT REMOVE, the four bolts on the side of the conveyor. Operate the conveyor at a slow speed, and tighten or loosen the adjustment bolt until the belt is running in the center of the pulley.

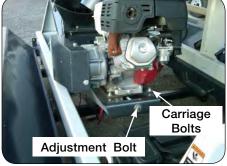
Tighten all bolts on the side of the conveyor, and lock the adjustment bolts into place.

### Adjusting Drive Belt Tension

# A WARNING

- MOVING OR ROTATING COMPONENTS CAN CAUSE SERIOUS INJURY OR DEATH. USE EXTREME CARE WHEN INSPECT-ING AND ADJUSTING BELT TRACKING.
- 1. With the engine turned off, and key removed, remove the belt shield by removing the 5/16" bolts to access the drive belt.
- 2. Loosen the engine by loosening (do not remove) four carriage bolts.
- 3. Loosen the lock nut on the adjustment bolt and tighten the belt by turning the adjustment bolt.
- 4. Once the tension is set, tighten the bolts on the engine plate, and re-inspect the tension.
- 5. Lock the adjustment bolt in place with the lock nut.
- Re-install the shield.





### **Brake Cleaning and Inspection**

Your undercarriage brakes must be inspected and serviced immediately if a loss of performance is experienced. With normal use, servicing at one year intervals is usually adequate. With increased usage, this work should be performed more frequently as required. Magnets and shoes must be changed when they become excessively worn or scored, a condition which can reduce vehicle braking. Clean the backing plate, magnet arm, magnet, and brake shoes. Make certain that all the parts removed are replaced in the same brake and drum assembly. Inspect for any loose or worn parts, stretched or deformed springs and replace as necessary.

# A WARNING

- POTENTIAL ASBESTOS DUST HAZARD SOME BRAKE LININGS MAY CONTAIN ASBESTOS DUST, WHICH HAS BEEN LINKED TO SERIOUS OR FATAL ILLNESSES. CERTAIN PRECAUTIONS NEED TO BE TAKEN WHEN SERVICING BRAKES:
  - 1. Avoid creating or breathing dust.
  - 2. Avoid machining, filing or grinding the brake linings.
  - 3. Do not use compressed air or dry brushing for cleaning (dust can be removed with a damp brush).

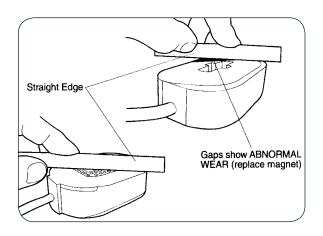
### **Brake Lubrication**

Before reassembling, apply a light film of grease or anti-seize compound on the brake anchor pin, the actuating arm bushing and pin, and the areas on the backing plate that are in contact with the brake shoes and magnet lever arm. Apply a light film of grease on the actuating block mounted on the actuating arm.

NOTE: Do not get grease or oil on the brake linings, drums or magnets.

### **Magnets**

Your electric brakes are equipped with high quality electromagnets that are designed to provide the proper input force and friction characteristics. Your magnets should be inspected and replaced if worn unevenly or abnormally. Use a straightedge to check magnet condition. For best results, the magnet should be flat. Even if wear is normal as indicated by your straightedge, the magnets should be replaced if any part of the magnet coil has become visible through the friction material facing of the magnet. It is also recommended that the drum armature surface be re-faced when replacing magnets. Magnets should also be replaced in pairs - both sides of an axle.



### **Brake Cleaning and Inspection** (continued)

### **Shoes and Linings**

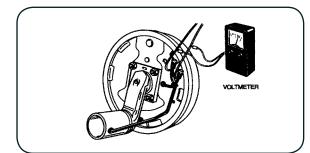
A simple visual inspection of your brake linings will tell if they are usable. Replacement is necessary if the lining is worn (to within 1/16" or less), contaminated with grease or oil, or abnormally scored or gouged. Hairline heat cracks are normal in bonded linings and should not be cause for concern. When replacement is necessary, it is important to replace both shoes on each brake and both brakes of the same axle. This will help retain the "balance" of your brakes.

After replacement of the brake shoes and linings, the brakes must be re-burnished to seat in the new components. This should be done by applying the brakes 20 to 30 times from an initial speed of 40 m.p.h., slowing the vehicle to 20 m.p.h. Allow ample time for brakes to cool between applications. This procedure allows the brake shoes to seat in to the drum surface.



### **How to Measure Voltage**

System voltage is measured at the magnets by connecting the voltmeter to the two magnet lead wires at any brake. This may be accomplished by using a pin probe inserted through the insulation of the wires. The engine of the towing vehicle should be running when checking the voltage so that a low battery will not affect the readings. Voltage in the system should begin at 0 volts and, as the controller bar is slowly actuated, should gradually increase to about 12 volts. If the controller does not produce this voltage control, consult your controller manual. The threshold voltage of a controller is the voltage applied to the brakes when the controller first turns on. Lower threshold voltage will provide for smoother braking. If the threshold voltage is too high, the brakes may feel grabby and harsh.



### **How to Measure Amperage**

System amperage is the current flowing in the system when all the magnets are energized. The amperage will vary in proportion to the voltage. The engine of the tow vehicle should be running with the undercarriage connected when checking the undercarriage braking system. One place to measure system amperage is at the BLUE wire of the controller which is the output to the brakes. The BLUE wire must be disconnected and the ammeter put in series into the line. System amperage draw should be as noted in the table to the right.

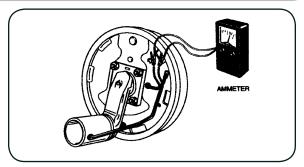
Make sure your ammeter has sufficient capacity and note polarity to prevent damaging your ammeter. If a resistor is used in the brake system, it must be set at zero or bypassed completely to obtain the maximum amperage reading. Individual amperage draw can be measured by inserting the ammeter in the line at the magnet you want to check. Disconnect one of the magnet lead wire connectors and attach the ammeter between the two wires. Make sure that the wires are properly reconnected and sealed after testing is completed. The most common electrical problem is low or no voltage and amperage at the brakes. Common causes of this condition are:

- 1. Poor electrical connections
- 2. Open circuits
- 3. Insufficient wire size
- 4. Broken wires
- 5. Blown fuses (fusing of brakes is not recommended)
- 6. Improperly functioning controllers or resistors

Another common electrical problem is shorted or partially shorted circuits (indicated by abnormally high system amperage). Possible causes are:

- 1. Shorted magnet coils
- 2. Defective controllers
- 3. Bare wires contacting a grounded object

Finding the cause of a short circuit in the system is done by isolating one section at a time. If the high amperage reading drops to zero by unplugging the undercarriage, then the short is in the undercarriage. If the amperage reading remains high with all the brake magnets disconnected, the short is in the undercarriage wiring. All electrical troubleshooting procedures should start at the controller. Most complaints regarding brake harshness or malfunction are traceable to improperly adjusted or nonfunctional controllers. See your controller manufacturer's data for proper adjustment and testing procedures. For best results, all the connection points in the brake wiring should be sealed to prevent corrosion. Loose or corroded connectors will cause an increase in resistance which reduces the voltage available for the brake magnets.



| Brake     | Amps/  | Two    | Four   | Six    | Magnet |
|-----------|--------|--------|--------|--------|--------|
| Size      | Magnet | Brakes | Brakes | Brakes | Ohms   |
| 7 x 1¼    | 2.5    | 5.0    | 10.0   | 15.0   | 3.9    |
| 10 x 1½   | 3.0    | 6.0    | 12.0   | 18.0   | 3.2    |
| 10 x 21/4 | 3.0    | 6.0    | 12.0   | 18.0   | 3.2    |
| 12 x 2    | 3.0    | 6.0    | 12.0   | 18.0   | 3.2    |
| 12¼ x 2½  | 3.0    | 6.0    | 12.0   | 18.0   | 3.2    |

### **Brake Drum Inspection**

There are two areas of the brake drum that are subject to wear and require periodic inspection. These two areas are the drum surface where the brake shoes make contact during stopping and the armature surface where the magnet contacts (only in electric brakes).

The drum surface should be inspected for excessive wear or heavy scoring. If worn more than .020" oversized, or the drum has worn out of round by more than .015", then the drum surface should be re-machined. If scoring or other wear is greater than .090" on the diameter, the drum must be replaced. When turning the drum surface, the maximum re-bore diameter is as follows:

```
7" Brake Drum - 7.090"
10" Brake Drum - 10.090"
12" Brake Drum - 12.090"
```

The machined inner surface of the brake drum that contacts the brake magnet is called the armature surface. If the armature surface is scored or worn unevenly, it should be re-faced to a 120 micro inch finish by removing not more than .030" of material. To insure proper contact between the armature face and the magnet face, the magnets should be re-faced whenever the armature surface is re-faced and the armature surface should be re-faced whenever the magnets are replaced.

NOTE: It is important to protect the wheel bearing bores from metallic chips and contamination which result from drum turning or armature re-facing operations. Make certain that the wheel bearing cavities are clean and free of contamination before reinstalling the bearing and seals. The presence of these contaminants will cause premature wheel bearing failure.

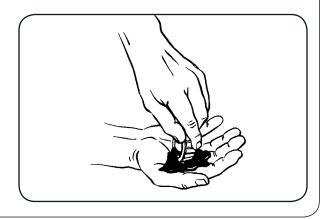
### **Bearing Inspection**

Wash all grease and oil from the bearing cone using a suitable solvent. Dry the bearing with a clean, lint-free cloth and inspect each roller completely.

### **Bearing Lubrication**

Along with bearing adjustment, proper lubrication is essential to the proper function and reliability of your undercarriage axle. Bearings should be lubricated every 12 months or 12,000 miles. The method to repack the bearing cones is as follows:

- Place a quantity of grease into the palm of your hand.
- Press a section of the widest end of the bearing into the outer edge of the grease pile closest to the thumb forcing grease into the interior of the bearing.
- 3. Repeat this while rotating the bearing from roller to roller.
- 4. Continue this process until you have the entire bearing completely filled with grease.
- 5. Before reinstalling, apply a light coat of grease on the bearing cup.



### **Troubleshooting Brakes**

Most electric brake malfunctions, that cannot be corrected by either brake adjustments or synchronization adjustments, can generally be traced to electrical system failure. Voltmeters and amp meters are essential tools for proper troubleshooting of electric brakes. Mechanical causes are ordinarily obvious, i.e. bent or broken parts, worn out linings or magnets, seized lever arms or shoes, scored drums, loose parts, etc. Please consult the following troubleshooting charts in this section of the manual to determine the causes and solutions for common problems found in undercarriage braking systems.



# CAUTION

 BEST BRAKING PERFORMANCE IS ACHIEVED WITH A CONTROLLER SETTING THAT IS JUST SHORT OF WHEEL LOCK UP OR SLIDE. OVERLY AGGRESSIVE BRAKING WHICH RESULTS IN WHEEL LOCK UP AND SLIDING, CAN CAUSE A DANGEROUS LOSS OF CONTROL AND RESULT IN PERSONAL INJURY OR DEATH.

### **Battery Warranty**

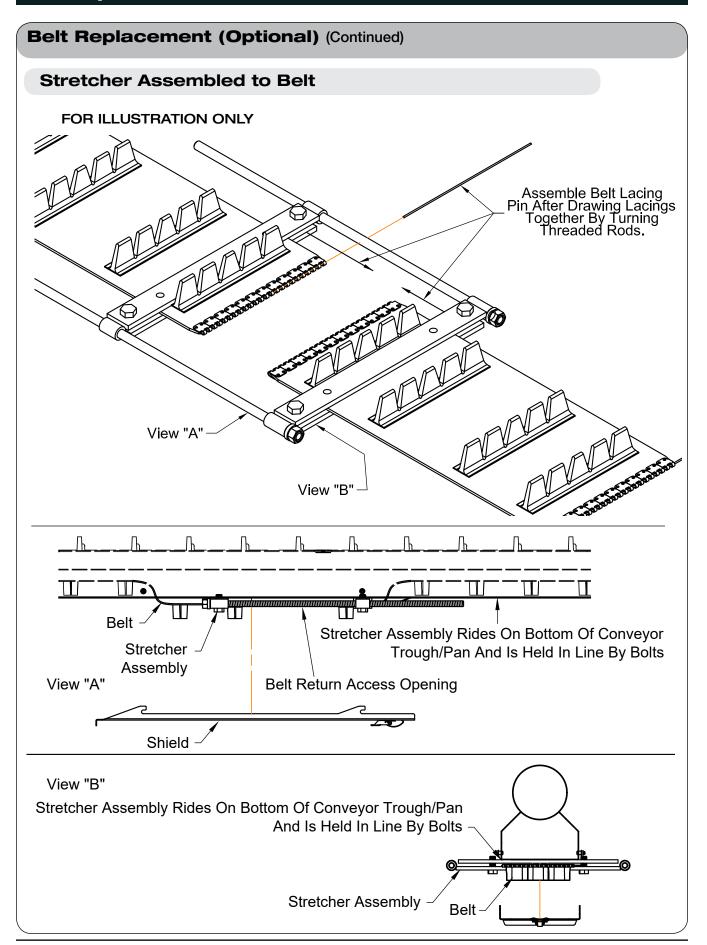
Interstate Battery: www.interstatebatteries.com 800-CRANKIT

# 

Install Bottom Bars Accross Underside Of Belt, And Secure With Four 5/8"-11UNC x 1 1/2" Capscrews Through Top Bars As Shown.

Use Inner Holes for 6" & 8" Belts
- Use Outer Holes for 12" Belts

| ITEM | PART NO.     | QTY | DESCRIPTION                              |  |  |
|------|--------------|-----|--|--|--|
|      | TA4-114400-0 | 1   | BELT INSTALLATION TOOL                   |  |  |
| 1    | 9390-122     | 4   | CAPSCREW, 5/8"-11UNC x 1 1/2 LG. GRADE 5 |  |  |
| 2    | TA0-903118-0 | 2   | BEARING, BALL THRUST, 5/8" I.D.          |  |  |
| 3    | TA1-114401-0 | 2   | BOTTOM BAR                               |  |  |
| 4    | TA2-114404-0 | 1   | PLAIN TOP BAR WELDMENT                   |  |  |
| 5    | TA2-114406-0 | 1   | THREADED TOP BAR WELDMENT                |  |  |
| 6    | TA2-114408-0 | 2   | THREAD ROD WELDMENT                      |  |  |
|      | TA4-114400-0 | 1   | BELT INSTALLATION TOOL KIT               |  |  |



### **Wheel Torque Chart & Tire Specifications**

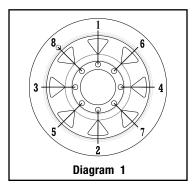
### **Wheel Torque Requirements**



• IMPROPERLY TORQUED WHEEL NUTS/BOLTS CAN CAUSE A LOSS OF IMPLEMENT CONTROL AND MACHINE DAMAGE. TORQUE WHEEL NUTS/BOLTS TO VALUES IN THE TABLE. CHECK THE TORQUE BEFORE THE INITIAL USE, AFTER ONE HOUR OF UNLOADED USE OR AFTER THE FIRST LOAD, AND EACH LOAD UNTIL THE WHEEL NUTS/BOLTS MAINTAIN THE TORQUE VALUE. CHECK THE TORQUE EVERY 10 HOURS OF USE THEREAFTER. AFTER EACH WHEEL REMOVAL START THE TORQUE PROCESS FROM THE BEGINNING. WARRANTY DOES NOT COVER FAILURES CAUSED BY IMPROPERLY TORQUED WHEEL NUTS/BOLTS.

Failure to check the torque before the first load may damage the wheel nut/bolt seats. Once the seats are damaged, it will become impossible to keep nuts/bolts tight. Tighten the nuts/bolts to the applicable torque value shown to the right. Start all nuts/bolts by hand to prevent cross threading. Torque nuts/bolts in the recommended sequence as shown in Diagram 1.

| WHEEL HARDWARE   |            |  |  |
|------------------|------------|--|--|
| SIZE FOOT-POUNDS |            |  |  |
| 9/16-18 (UNF)    | 110 FTLBS. |  |  |



### **Tire Pressure**

The following is to be used as a general guide for tire inflation and figures can vary depending on specific brand of tire used. It is important that the tires are inspected after the unit is loaded. The tire should stand up with no side-wall buckling or distress as the tire rolls. Do not exceed the maximum recommended tire pressure.

235/80R16 LRE....100 PSI maximum 235/85R16 LRE....80 PSI maximum (All tire pressures in PSI)

### Wheel Torque Chart & Tire Specifications (continued)

### **Tire Warranty**

For questions regarding new tire warranty, please contact your local equipment tire dealer. Used tires carry no warranty. The following are phone numbers and websites for your convenience:

<u>Greenball</u> www.greenball.com

Phone nearest location:
California 800-937-5204
Georgia 800-283-4569
Florida 800-935-0200
Indiana 800-426-4068
Pennsylvania 800-869-6787
Tennessee 800-946-9412

Ohio 800-840-7295

<u>Carlisle</u> www.carlisletire.com

Phone 800-260-7959 Fax 800-352-0075

### **Power Pak**

For general maintenance and servicing of power pak unit.

<u>NOTE</u>: For maintenance of engine and warranty information, refer to Operator's Manual provided with engine. Following are phone numbers and Websites for your convenience:

<u>US</u> www.honda-engines.com Phone 800-426-7701

Canada www.honda.ca

Phone 888-9HONDA9

Please provide Honda with the following engine information: 4.8 NET HP Gas, 9.9 Cu. In. (For 6" Tube Conveyors or Augers) 8.5 NET HP Gas, 15.6 Cu. In. (For 8" Tube Conveyors or Augers)

### **Torque Chart**

### Capscrews - Grade 5

 $\underline{\text{NOTE}}\textsc{:}$  Grade 5 capscrews can be identified by three radial dashes on the head.



NOTE: Tighten the U-bolts to have the same number of threads exposed on each end.

|          | FOOT      | NEWTON    |
|----------|-----------|-----------|
| SIZE     | FOOT      | NEWTON    |
|          | POUNDS    | METERS    |
| 1/4-20   | 8-10      | 11-13     |
| 1/4-28   | 9-11      | 12-15     |
| 5/16-18  | 15-17     | 20-23     |
| 5/16-24  | 17-19     | 23-26     |
| 3/8-16   | 25-28     | 34-38     |
| 3/8-24   | 28-31     | 38-42     |
| 7/16-14  | 40-45     | 54-61     |
| 7/16-20  | 45-50     | 61-68     |
| 1/2-13   | 62-68     | 84-92     |
| 1/2-20   | 68-75     | 92-102    |
| 9/16-12  | 90-98     | 122-133   |
| 9/16-18  | 100-110   | 134-148   |
| 5/8-11   | 120-135   | 162-183   |
| 5/8-18   | 124-137   | 168-186   |
| 3/4-10   | 200-220   | 270-300   |
| 3/4-16   | 210-230   | 285-310   |
| 7/8-9    | 330-350   | 425-475   |
| 7/8-14   | 360-380   | 460-515   |
| 1-8      | 500-525   | 675-710   |
| 1-14     | 540-560   | 730-760   |
| 1 1/8-7  | 600-635   | 815-860   |
| 1 1/8-12 | 665-700   | 920-950   |
| 1 1/4-7  | 850-895   | 1150-1215 |
| 1 1/4-12 | 940-990   | 1275-1340 |
| 1 1/2-6  | 1500-1560 | 2035-2115 |
| 1 1/2-12 | 1685-1755 | 2285-2380 |

### **Storage**

Your SeedVeyor tender is an important investment. Spend a little time to protect it from destructive rust and corrosion. You will be repaid in longer service life and better performance.

After use, clean out the box, conveyor/auger and hopper. Remove all seed, and pressure wash to remove road dirt, seed treatment, etc.

Prepare the engine for storage. Refer to the engine operator's manual for details.

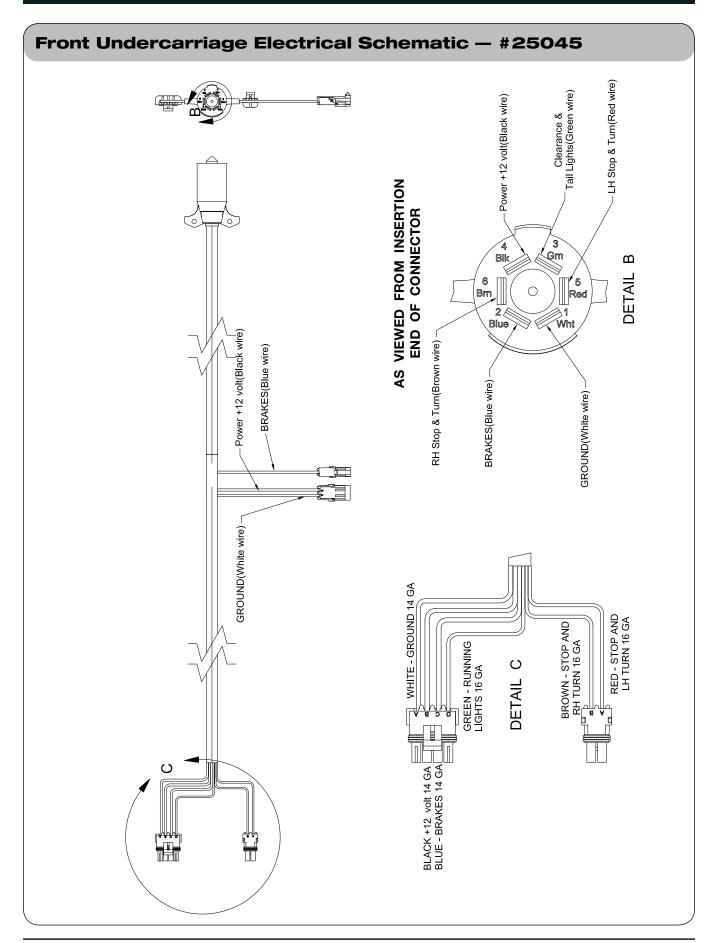
Check the bolts for tightness. Inspect for damaged or worn parts. Replace or repair items as needed.

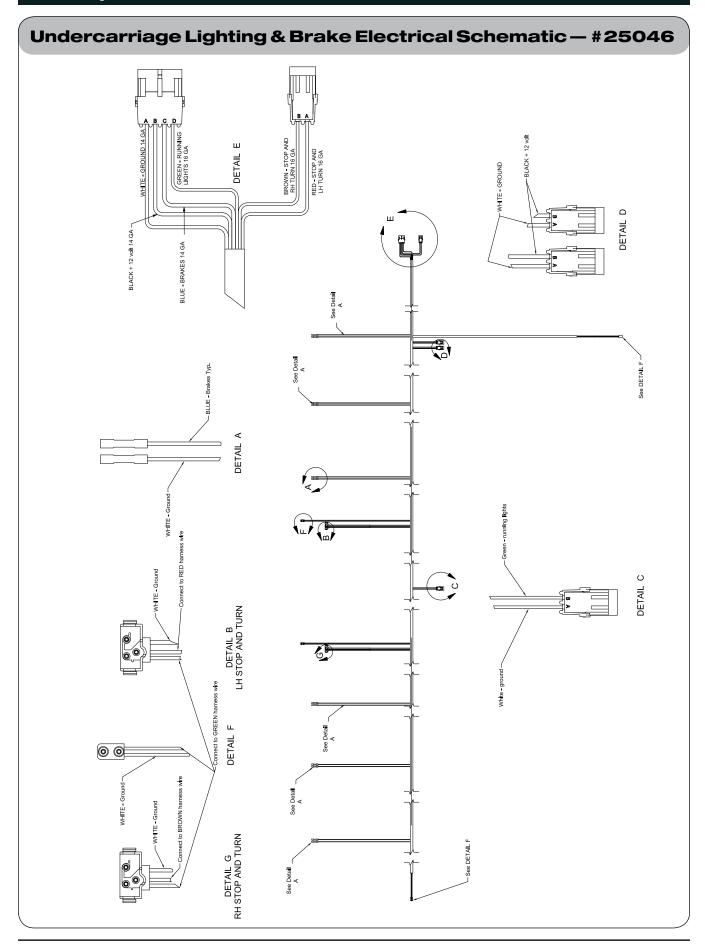
Repaint any chipped or scraped areas and store inside away from livestock.

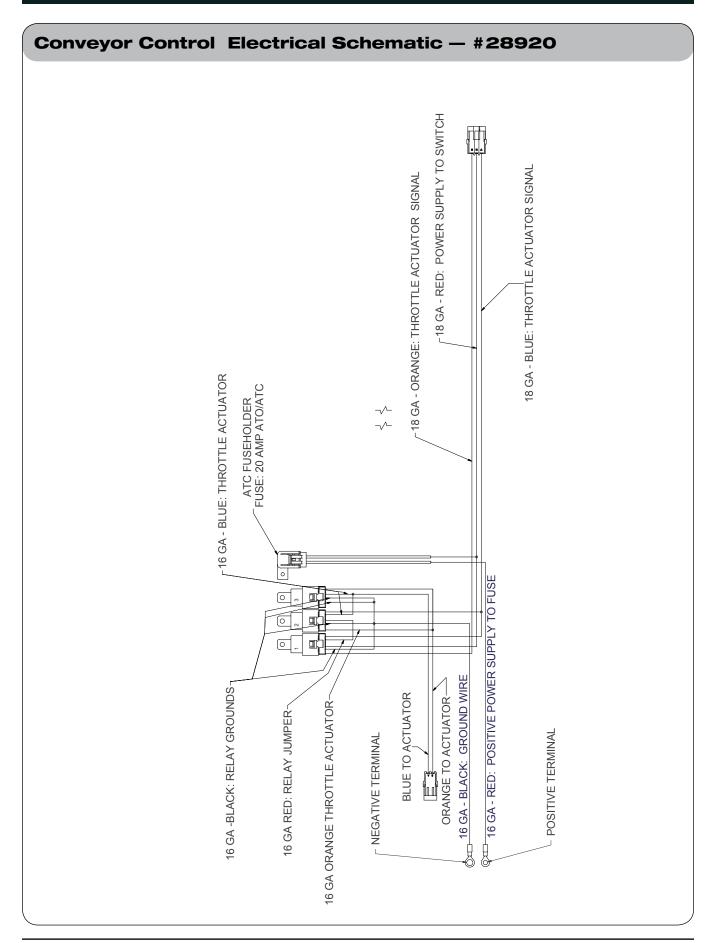
Charge the battery before storage, if applicable. Lack of charge may result in the battery freezing over the winter.

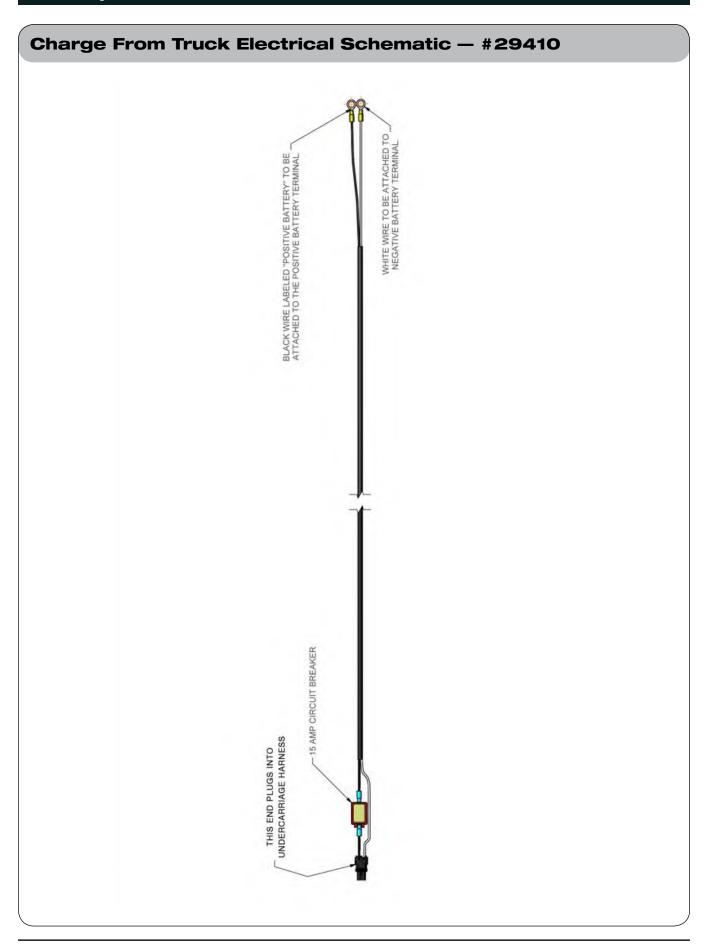
## **Troubleshooting**

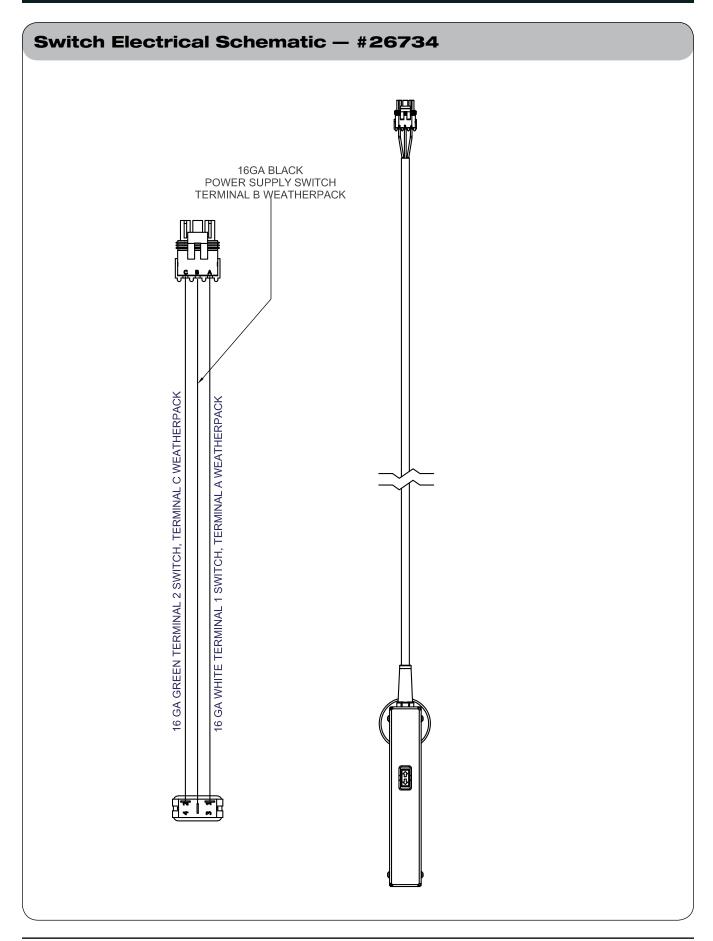
| PROBABLE CAUSE                                  | CORRECTION  |  |  |
|---|---|--|--|
| UNDERCARRIAGE SWAY                              | ING, TIRE WEAR, LIGHTS  |  |  |
| Unit sways during travel                        | Check tire pressure   |  |  |
|   | Check tongue and steering hardware, tighten appropriately   |  |  |
| Tires show excessive wear                       | Check tire pressure   |  |  |
| Wheel makes grinding or squeaking noise         | Service wheel bearings  |  |  |
| Tail lights are not functioning                 | Check wires and connections   |  |  |
|   | Replace lamps   |  |  |
| CONVEYOR WILL NOT TURN                          | OVER OR DEVELOP PROPER  |  |  |
| SPEED (   | OR TORQUE   |  |  |
| Conveyor jammed                                 | Shut-off and lock-out power, open clean-out door<br>and remove excess material (make sure swivel<br>spout is clear)     |  |  |
| Engine running too slow                         | Increase the throttle speed   |  |  |
| Conveyor belt slipping                          | Increase the belt tension - See Adjusting Belt<br>Tension in the Maintenance section                                    |  |  |
| Drive belt slipping                             | Increase the tension on the drive belt - See<br>Adjusting Drive Belt Tension  |  |  |
|   | OR DEVELOP PROPER SPEED TORQUE  |  |  |
| Auger jammed                                    | Shut off and lock out the power, open the cleanout door and remove excess material. Make sure discharge spout is clear. |  |  |
| Engine running too slow                         | Increase the throttle speed.  |  |  |
| Drive belt slipping                             | Increase the tension on the drive belt - See<br>Adjusting Drive Belt Tension  |  |  |
| BELT EDGES SHOWI                                | NG EXCESSIVE WEAR   |  |  |
| Belt tracking incorrect                         | Adjust tracking as detailed in Maintenance section  |  |  |
| Poly seals on intake and/or discharge end worn. | Replace poly seals  |  |  |







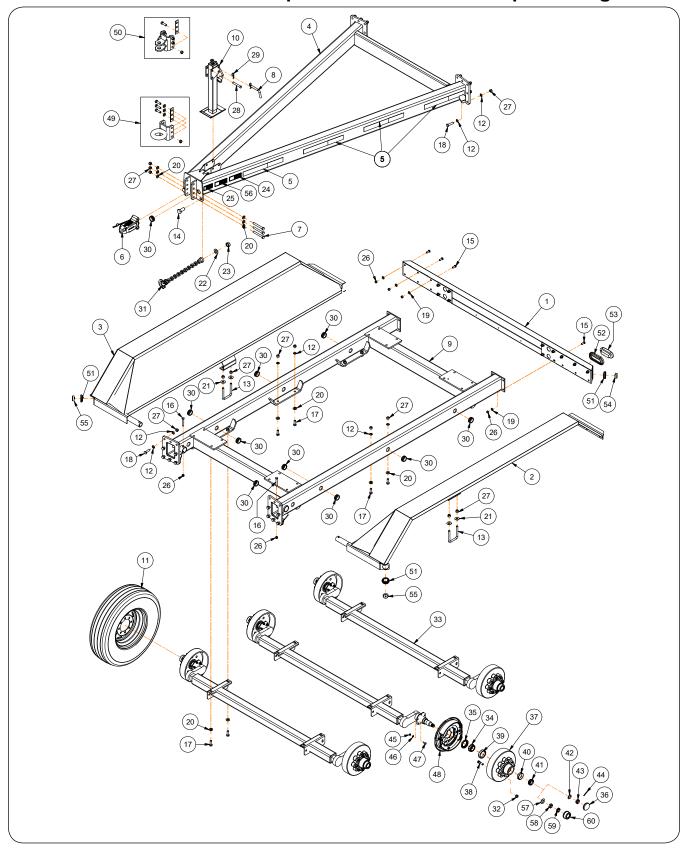




# Section V Parts

| Triple Axle Undercarriage, Hitch, Fender & Wheel Components | 5-2  |
|---|------|
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| Auger Drive Assembly & Hopper Components                    |      |
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| Tarp & Ladder Components - Model 360                        |      |
| Prior to Serial No. D58960100                               |      |
| Beginning with Serial No. D58960100                         |      |
| Manual Winch Components                                     |      |
| Electric Winch Components (Optional)                        |      |
| Optional Spare Tire   |      |
| Non-Scale Components  |      |
| Scale Components (Optional)                                 |      |
| Optional Telescopic Spout Components                        |      |
| AG Package (Option) - SMV, SIS Decals, & Reflectors         | 5-55 |

### **Triple Axle Undercarriage, Hitch, Fender & Wheel Components**



### **Triple Axle Undercarriage, Hitch, Fender & Wheel Components**

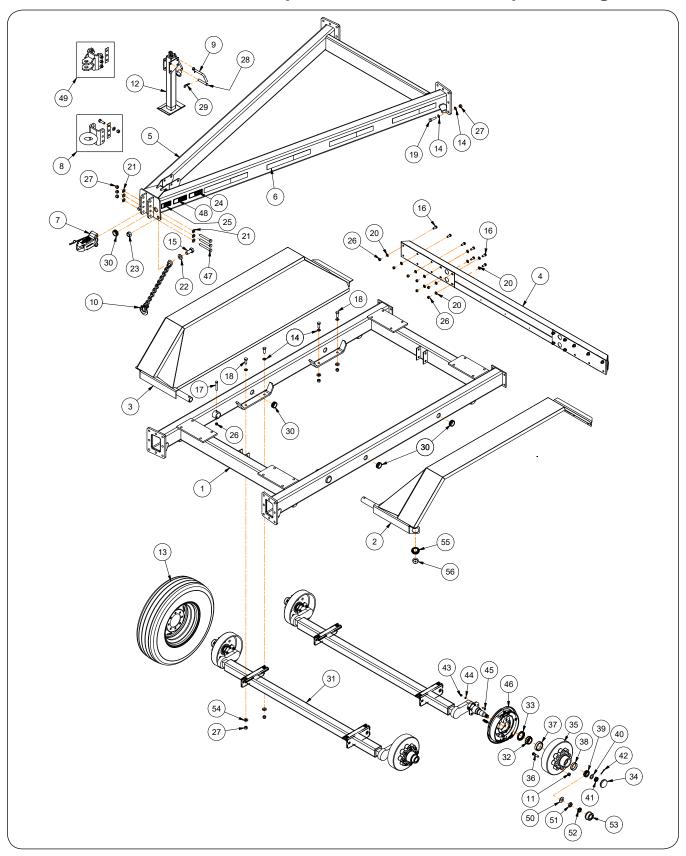
| ITEM | PART NO.  | DESCRIPTION                                  | QTY | NOTES                      |
|------|-----------|--|-----|----------------------------|
| 1    | 24847CG   | Light Bar Weldment                           | 1   |                            |
| 2    | 24882CG   | Fender LH Weldment                           | 1   |                            |
| 3    | 24883CG   | Fender RH Weldment                           | 1   |                            |
| 4    | 2009898CG | Hitch Weldment                               | 1   |                            |
| 5    | 25003     | Conspicuity Marking (11" Red/7" White)       | 12  |                            |
|      | 9500289CG | Ball Hitch 2 5/16" w/Grease Zerk             | 4   |                            |
| 6    | 2000357CG | Ball Hitch Kit with Mounting Hardware        | 1   |                            |
|      | 91160     | Grease Zerk                                  | -   |                            |
| 7    | 9390-134  | Capscrew 5/8"-11UNC x 5"                     | 3   | Grade 5                    |
| 8    | 84979     | Bent Pin 5/8" Dia. With Hairpin Cotter       | 1   |                            |
| 9    | 24897CG   | Triple Axle Undercarriage Weldment           | 1   |                            |
| 10   | 902326    | Jack Stand Weldment 8000 Lbs.                | 1   |                            |
| 11   | 902702    | Wheel & Tire 6 x 16 (ST235/85R16)            | 6   |                            |
| 12   | 903108    | Flat Washer 5/8" USS                         | 44  | Stainless Steel            |
| 13   | 91070     | U-Bolt 5/8"-11UNC x 5"                       | 2   |                            |
| 14   | 91299-184 | Capscrew 1"-8UNC x 2 1/4"                    | 2   | Grade 8                    |
| 15   | 9390-100  | Capscrew 1/2"-13UNC x 1 1/4"                 | 20  | Grade 5                    |
| 16   | 9390-108  | Capscrew 1/2"-13UNC x 3 1/4"                 | 2   | Grade 5                    |
| 17   | 9390-123  | Capscrew 5/8"-11UNC x 1 3/4"                 | 12  | Grade 5                    |
| 18   | 9390-125  | Capscrew 5/8"-11UNC x 2 1/4"                 | 16  | Grade 5                    |
| 19   | 9405-086  | Flat Washer 1/2" SAE                         | 22  |                            |
| 20   | 9405-098  | Flat Washer 5/8" SAE                         | 6   |                            |
| 21   | 9405-100  | Flat Washer 5/8" USS                         | 4   |                            |
| 22   | 9405-116  | Flat Washer 1" SAE                           | 2   |                            |
| 23   | 9663      | Locknut 1"-8UNC                              | 2   |                            |
| 24   | 9500710   | Decal, CAUTION (Always Use Transport Chains) | 1   |                            |
| 25   | 97961     | Decal, WARNING (Read & Understand)           | 1   |                            |
| 26   | 9800      | Locknut 1/2"-13UNC                           | 22  |                            |
| 27   | 9801      | Locknut 5/8"-11UNC                           | 35  |                            |
| 28   | 9805      | Clevis Pin 5/8" Dia. x 4"                    | 1   |                            |
| 29   | 9806      | Hairpin Cotter .148" Dia.                    | 1   |                            |
| 30   | 98487     | Rubber Grommet                               | 11  |                            |
| 31   | 98792     | Transport Chain w/Hook                       | 2   |                            |
| 32   | 901669    | Tapered Nut 9/16"-18UNF                      | 48  |                            |
| 33   | 901099B   | Torsion Axle Assembly w/ Elec Brakes         | 3   | Includes Hub & Spindle Asy |

### **Triple Axle Undercarriage, Hitch, Fender & Wheel Components**

| ITEM | PART NO. | DESCRIPTION                              | QTY | NOTES                     |
|------|----------|--|-----|---------------------------|
| 34   | 91822    | Inner Bearing Cone 1.75 I.D.             | 6   |                           |
| 35   | 901509   | Seal 3 3/8" O.D. x 2 1/8 I.D. Single Lip | 6   |                           |
| 36   | 91887    | Hub Cap                                  | 6   |                           |
| 37   | 901686   | Hub 8 Bolt/Drum Subassembly              | 6   | Includes Items 40, 41, 42 |
| 38   | 901667   | Stud Bolt 9/16"-18UNF x 2.82"            | 48  | Grade 8                   |
| 39   | 91812    | Bearing Cup 3.265 O.D.                   | 6   | Ref #25520                |
| 40   | 92687    | Bearing Cup 2.717 O.D.                   | 6   | Ref #14276                |
| 41   | 91824    | Outer Bearing Cone 1.25 I.D.             | 6   |                           |
| 42   | 901586   | Spindle Washer 1.67 O.D. x 1 I.D.        | 6   |                           |
| 43   | 97344    | Spindle Slotted Jam Nut 1"-14UNS         | 6   |                           |
| 44   | 9391-035 | Cotter Pin 5/32" Dia. x 1 1/2"           | 6   |                           |
| 45   | 9394-006 | Hex Nut 3/8"-16UNC                       | 30  |                           |
| 46   | 9404-021 | Lock Washer 3/8"                         | 30  |                           |
| 47   | 9390-055 | Capscrew 3/8"-16UNC x 1"                 | 30  |                           |
| 40   | 97348    | Electric Brake Cluster LH                | 3   | Shown                     |
| 48   | 97349    | Electric Brake Cluster RH                | 3   |                           |
| 49   | 2000265B | Optional Pintle Hitch Kit                | -   |                           |
| 50   | 2000264B | Optional Clevis Hitch Kit                | -   |                           |
| 51   | 900956   | Grommet Open-Back                        | 4   |                           |
| 52   | 97182    | Grommet for Panel Light                  | 2   |                           |
| 53   | 97180    | Light/RED 2 Filament, 3 Prong            | 2   |                           |
| 54   | 900955   | Light/RED Incandescent, 2 Prong          | 2   |                           |
| 55   | 900954   | Light/AMBER Incandescent, 2 Prong        | 2   |                           |
| 56   | 9500345  | Decal, CAUTION (Towing)                  | 1   |                           |
| 57   | 9503189  | "D" Spindle Washer                       | 6   |                           |
| 58   | 9503187  | Jam Nut 15/16"-9UNC                      | 6   |                           |
| 59   | 9503186  | Nut Retainer                             | 6   |                           |
| 60   | 9502856  | Hub Cap                                  | 6   |                           |

## Notes

### **Tandem Axle Undercarriage, Hitch, Fender & Wheel Components**



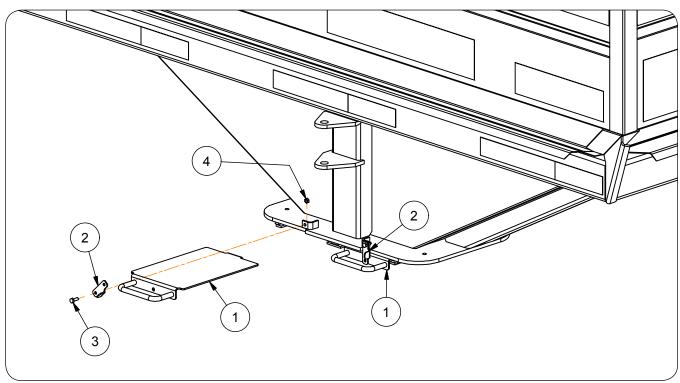
### **Tandem Axle Undercarriage, Hitch, Fender & Wheel Components**

| ITEM | PART NO.  | DESCRIPTION                               | QTY | NOTES                                   |
|------|-----------|---|-----|---|
| 1    | 24687CG   | Tandem Axle Undercarriage Weldment        | 1   |   |
| 2    | 24772CG   | Fender LH Weldment                        | 1   |   |
| 3    | 24773CG   | Fender RH Weldment                        | 1   |   |
| 4    | 24847CG   | Light Bar Weldment                        | 1   | See Undercarriage Electrical Components |
| 5    | 2009898CG | Hitch Weldment                            | 1   |   |
| 6    | 25003     | Conspicuity Marking (11" Red/7" White)    | 10  |   |
| 7    | 2000357CG | Ball Hitch Kit with Mounting Hardware     | 1   |   |
| 8    | 2000265B  | Optional Pintle Hitch Kit                 | -   |   |
| 9    | 84979     | Bent Pin 5/8" Dia. With Hairpin Cotter    | 1   |   |
| 10   | 98792     | Transport Chain w/Hook                    | 2   |   |
| 11   | 901669    | Tapered Nut 9/16"-18UNF                   | 32  |   |
| 12   | 902326    | Jack Stand Weldment 8000 Lbs.             | 1   |   |
| 13   | 902702    | Wheel & Tire 6 x 16 (ST235/85R16)         | 4   |   |
| 14   | 903108    | Flat Washer 5/8" USS                      | 40  | Stainless Steel                         |
| 15   | 91299-183 | Capscrew 1"-8UNC x 2"                     | 2   | Grade 8                                 |
| 16   | 9390-100  | Capscrew 1/2"-13UNC x 1 1/4"              | 14  | Grade 5                                 |
| 17   | 9390-108  | Capscrew 1/2"-13UNC x 3 1/4"              | 2   | Grade 5                                 |
| 18   | 9390-123  | Capscrew 5/8"-11UNC x 1 3/4"              | 8   | Grade 5                                 |
| 19   | 9390-125  | Capscrew 5/8"-11UNC x 2 1/4"              | 16  | Grade 5                                 |
| 20   | 9405-086  | Flat Washer 1/2" SAE                      | 22  |   |
| 21   | 9405-098  | Flat Washer 5/8" SAE                      | 6   |   |
| 22   | 9405-116  | Flat Washer 1" SAE                        | 2   |   |
| 23   | 9663      | Locknut 1"-8UNC                           | 2   |   |
| 24   | 9500710   | Decal, CAUTION (Do Not Tow Without)       | 1   |   |
| 25   | 97961     | Decal, WARNING (Read & Understand)        | 1   |   |
| 26   | 9800      | Locknut 1/2"-13UNC                        | 16  |   |
| 27   | 9801      | Locknut 5/8"-11UNC                        | 27  |   |
| 28   | 9805      | Clevis Pin 5/8" Dia. x 4"                 | 1   |   |
| 29   | 9806      | Hairpin Cotter .148" Dia.                 | 1   |   |
| 30   | 98487     | Rubber Grommet                            | 8   |   |
| 31   | 901099B   | Torsion Axle Assembly w/ Elec. Brakes     | 2   | Includes Hub & Spindle Asy              |
| 32   | 91822     | Inner Bearing Cone 1.75 I.D.              | 4   |   |
| 33   | 901509    | Seal 3 3/8" O.D. x 2 1/8" I.D. Single Lip | 4   |   |
| 34   | 91887     | Hub Cap                                   | 4   |   |
| 35   | 901686    | Hub 8 Bolt/Drum Subassembly               | 4   | Includes Items 39, 40, 41               |

### **Tandem Axle Undercarriage, Hitch, Fender & Wheel Components**

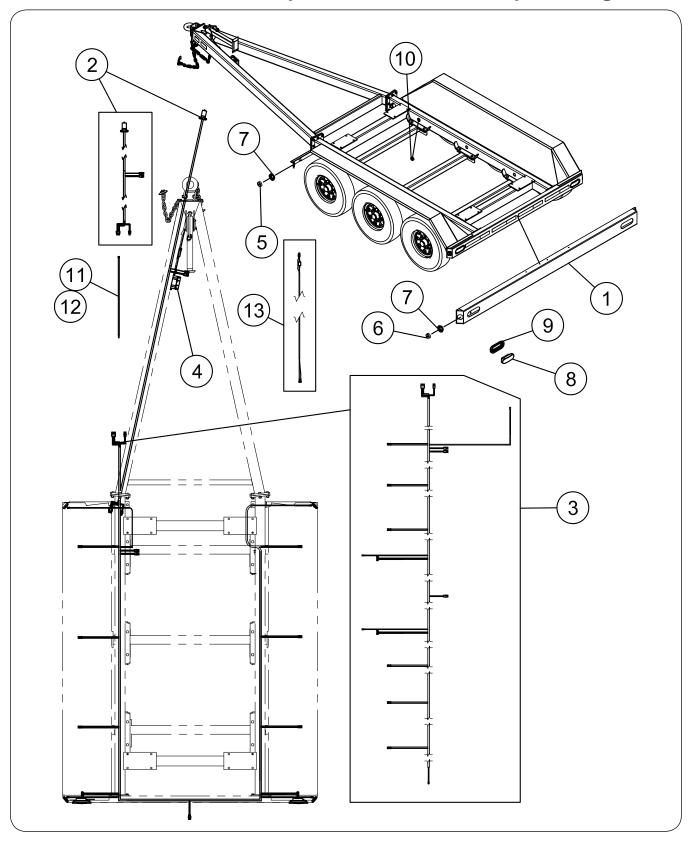
| ITEM | PART NO. | DESCRIPTION                         | QTY | NOTES      |
|------|----------|-------------------------------------|-----|------------|
| 36   | 901667   | Stud Bolt 9/16"-18UNF x 2.82"       | 32  | Grade 8    |
| 37   | 91812    | Bearing Cup 3.265" O.D.             | 4   | Ref #25520 |
| 38   | 92687    | Bearing Cup 2.717" O.D.             | 4   | Ref #14276 |
| 39   | 91824    | Outer Bearing Cone 1.25" I.D.       | 4   |            |
| 40   | 901586   | Spindle Washer 1.67" O.D. x 1" I.D. | 4   |            |
| 41   | 97344    | Spindle Slotted Jam Nut 1"-14UNS    | 4   |            |
| 42   | 9391-035 | Cotter Pin 5/32" Dia. x 1 1/2"      | 4   |            |
| 43   | 9394-006 | Hex Nut 3/8"-16UNC                  | 16  |            |
| 44   | 9404-021 | Lock Washer 3/8"                    | 16  |            |
| 45   | 9390-055 | Capscrew 3/8"-16UNC x 1"            | 16  |            |
| 46   | 97348    | Electric Brake Cluster LH           | 1   | Shown      |
| 46   | 97349    | Electric Brake Cluster RH           | 1   |            |
| 47   | 9390-134 | Capscrew 5/8"-11UNC x 5"            | 3   | Grade 5    |
| 48   | 9500345  | Decal, CAUTION (Towing)             | 1   |            |
| 49   | 2000264B | Optional Clevis Hitch Kit           | -   |            |
| 50   | 9503189  | "D" Spindle Washer                  | 4   |            |
| 51   | 9503187  | Jam Nut 15/16"-9UNC                 | 4   |            |
| 52   | 9503186  | Nut Retainer                        | 4   |            |
| 53   | 9502856  | Hub Cap                             | 4   |            |
| 54   | 9746     | Flat Washer 5/8"                    | 8   |            |
| 55   | 900956   | Grommet Open-Back                   | 2   |            |
| 56   | 900954   | Light/AMBER Incandescent, 2 Prong   | 2   |            |

## **Seed Door Components**



| ITEM | PART NO. | DESCRIPTION                   | QTY | NOTES   |
|------|----------|-------------------------------|-----|---------|
| 1    | 25932CG  | Door Weldment =CHARCOAL GREY= | 2   |         |
| 2    | 25977B   | Latch =BLACK=                 | 2   |         |
| 3    | 9390-003 | Capscrew 1/4"-20UNC x 3/4"    | 2   | Grade 5 |
| 4    | 9936     | Locknut 1/4"-20UNC            | 2   |         |

### **Undercarriage Electrical Components**

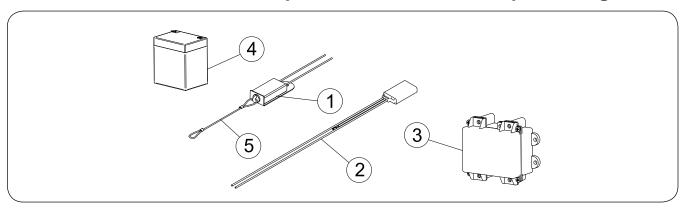


### **Undercarriage Electrical Components**

#### Please visit www.unverferth.com/parts/ for the most current parts listing.

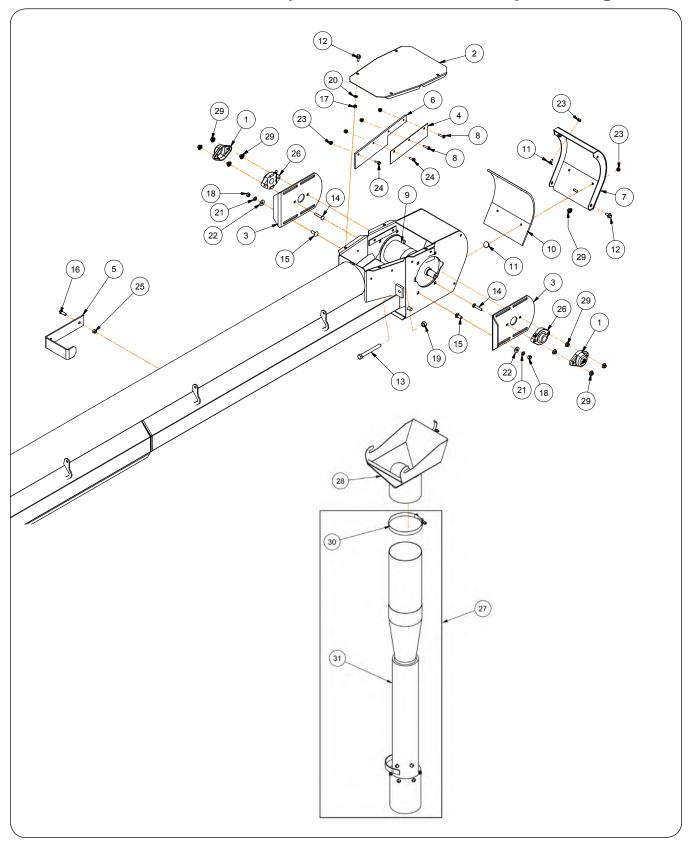
| ITEM | PART NO. | DESCRIPTION                     | QTY | NOTES          |
|------|----------|---------------------------------|-----|----------------|
| 1    | 24847CG  | Light Bar Weldment              | 1   |                |
| 2    | 25045    | Wiring Harness - 165" Front     | 1   |                |
| 3    | 25046    | Wiring Harness - 338" Rear      | 1   |                |
| 4    | -        | Electric Breakaway Kit          | -   | See Below      |
| 5    | 900954   | Light/Amber (2 Prong)           | 2   |                |
| 6    | 900955   | Light/Red (2 Prong)             | 2   |                |
| 7    | 900956   | Grommet Open Back               | 4   |                |
| 8    | 97180    | Light/Red (3 Prong)             | 2   |                |
| 9    | 97182    | Grommet for Panel Light         | 2   |                |
| 10   | 98487    | Grommet 1 3/8" Dia.             | 7   |                |
| 11   | 94038    | Cable Tie 32" Long              | A/R |                |
| 12   | 99599    | Cable Tie 8.39" Long            | A/R | Fir Tree Mount |
| 13   | 29410    | Battery Charging Wiring Harness | 1   |                |

### **Electric Breakaway Components**



| ITEM | PART NO. | DESCRIPTION                            | QTY | NOTES                    |
|------|----------|--|-----|--------------------------|
| 1    | 900786   | Breakaway Electric Switch w/Pull Pin   | 1   |                          |
| 2    | 900787   | Battery 12V Charger                    | 1   |                          |
| 3    | 902179   | Battery Box w/Decals                   | 1   |                          |
| 4    | 900789   | Battery 12V Rechargeable               | 1   | 5.0 AMP-HR               |
| 5    | 901950   | Pull Cord Breakaway Switch             | 1   |                          |
| 6    | 902764   | Battery with Charger & Box (NOT SHOWN) | 1   | Includes Items 2, 3, & 4 |

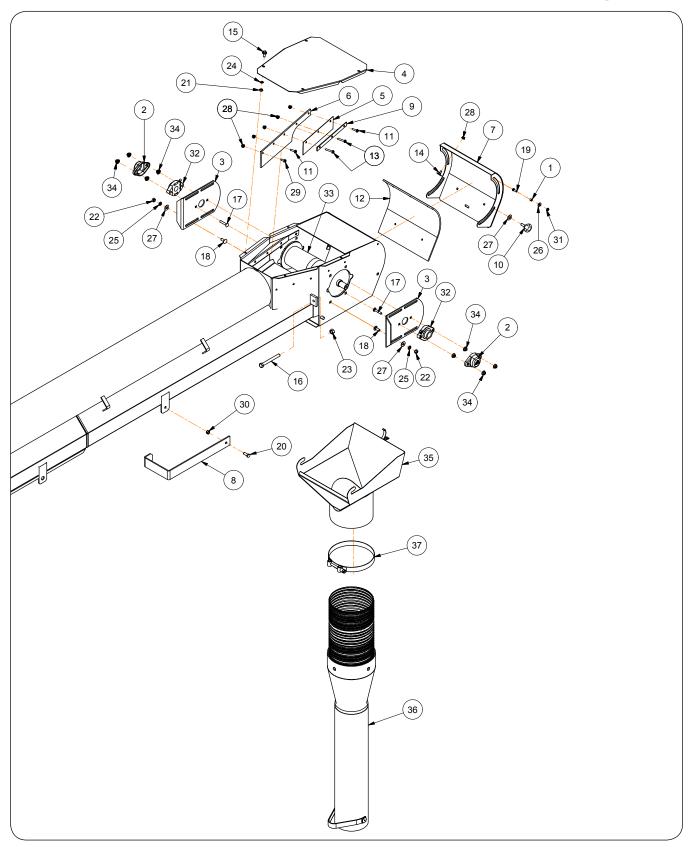
# Discharge Conveyor Components - For 6" Tube Conveyor



### **Discharge Conveyor Components - For 6" Tube Conveyor**

| ITEM | PART NO.     | DESCRIPTION                           | QTY | NOTES                  |
|------|--------------|---------------------------------------|-----|------------------------|
| 1    | 9500310      | Idler Cover                           | 2   |                        |
| 2    | 23918CG      | Top Shield/Cover                      | 1   |                        |
| 3    | 23994CG      | Adjustment Plate                      | 2   |                        |
| 4    | 24260        | Seal                                  | 2   |                        |
| 5    | 24414CG      | Spout Bracket                         | 1   |                        |
| 6    | 24755        | Poly Strip                            | 2   |                        |
| 7    | 26580CG      | Deflector Weldment                    | 1   |                        |
| 8    | 901101       | Flange Screw 1/4"-20UNC x 1"          | 4   |                        |
| 9    | 901662       | Idler Pulley                          | 1   |                        |
| 10   | 901723       | Neoprene                              | 1   |                        |
| 11   | 902006       | Elevator Bolt 1/4"-20UNC x 3/4"       | 4   |                        |
| 12   | 91256        | Large Flange Screw 5/16"-18UNC x 3/4" | 4   |                        |
| 13   | 93400        | Capscrew 1/2"-13UNC x 4 1/2"          | 1   | Grade 5-Full Threaded  |
| 14   | 9388-027     | Carriage Bolt 5/16"-18UNC x 1 1/2"    | 4   | Grade 5                |
| 15   | 9388-051     | Carriage Bolt 3/8"-16UNC x 1"         | 8   | Grade 5                |
| 16   | 9390-055     | Capscrew 3/8"-16UNC x 1"              | 1   | Grade 5                |
| 17   | 9394-004     | Hex Nut 5/16"-18UNC                   | 4   |                        |
| 18   | 9394-006     | Hex Nut 3/8"-16UNC                    | 8   |                        |
| 19   | 9394-010     | Hex Nut 1/2"-13UNC                    | 2   |                        |
| 20   | 9404-019     | Lock Washer 5/16"                     | 4   |                        |
| 21   | 9404-021     | Lock Washer 3/8"                      | 8   |                        |
| 22   | 9405-076     | Flat Washer 3/8" USS                  | 8   |                        |
| 23   | 97189        | Large Flange Hex Nut 1/4"-20UNC       | 8   |                        |
| 24   | 97420        | Flange Screw 1/4"-20UNC x 3/4"        | 4   |                        |
| 25   | 9928         | Locknut 3/8"-16UNC                    | 1   |                        |
| 26   | TA0-903088-0 | Bearing w/Flange 1" I.D.              | 2   |                        |
| 27   | 28953CG      | Telescopic Spout Assembly             | 1   | Includes Items 30 & 31 |
| 28   | 26585CG      | Spout Weldment                        | 1   |                        |
| 29   | 91257        | Flange Nut 5/16"-18UNC                | 8   |                        |
| 30   | 98060        | Camp/T-Bolt                           | 1   |                        |
| 31   | 27629        | Telescopic Spout 60" Long             | 1   |                        |

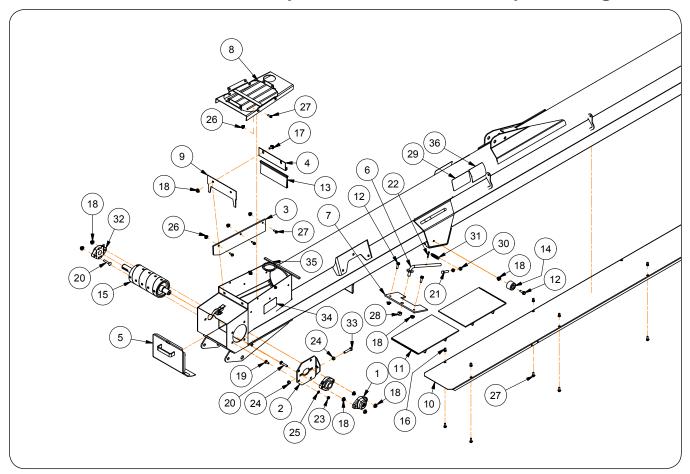
# **Discharge Conveyor Components - For 8" Tube Conveyor**



## **Discharge Conveyor Components - For 8" Tube Conveyor**

| ITEM | PART NO.     | DESCRIPTION                               | QTY | NOTES                 |
|------|--------------|---|-----|-----------------------|
| 1    | 22018        | Bushing                                   | 2   |                       |
| 2    | 9500310      | Idler Cover                               | 2   |                       |
| 3    | 23994CG      | Adjustment Plate                          | 2   |                       |
| 4    | 25239CG      | Top Shield/Cover                          | 1   |                       |
| 5    | 25256        | Seal                                      | 2   |                       |
| 6    | 25257        | Poly Strip                                | 2   |                       |
| 7    | 26223CG      | Deflector Weldment                        | 1   |                       |
| 8    | 26238CG      | Strip/Bracket                             | 1   |                       |
| 9    | 26432B       | Strip                                     | 2   |                       |
| 10   | 901046       | Knob                                      | 2   |                       |
| 11   | 901101       | Flange Screw 1/4"-20UNC x 1"              | 4   |                       |
| 12   | 901724       | Neoprene                                  | 1   |                       |
| 13   | 901831       | Serrated Flange Screw 1/4"-20UNC x 1 1/2" | 4   | Grade 5               |
| 14   | 902006       | Elevator Bolt 1/4"-20UNC x 3/4"           | 4   |                       |
| 15   | 91256        | Large Flange Screw 5/16"-18UNC x 3/4"     | 4   |                       |
| 16   | 93400        | Capscrew 1/2"-13UNC x 4 1/2"              | 2   | Grade 5-Full Threaded |
| 17   | 9388-027     | Carriage Bolt 5/16"-18UNC x 1 1/2"        | 4   | Grade 5               |
| 18   | 9388-051     | Carriage Bolt 3/8"-16UNC x 1"             | 8   | Grade 5               |
| 19   | 9390-003     | Capscrew 1/4"-20UNC x 3/4"                | 2   | Grade 5               |
| 20   | 9390-055     | Capscrew 3/8"-16UNC x 1"                  | 1   | Grade 5               |
| 21   | 9394-004     | Hex Nut 5/16"-18UNC                       | 4   |                       |
| 22   | 9394-006     | Hex Nut 3/8"-16UNC                        | 8   |                       |
| 23   | 9394-010     | Hex Nut 1/2"-13UNC                        | 2   |                       |
| 24   | 9404-019     | Lock Washer 5/16"                         | 4   |                       |
| 25   | 9404-021     | Lock Washer 3/8"                          | 8   |                       |
| 26   | 9405-064     | Flat Washer 1/4" USS                      | 2   |                       |
| 27   | 9405-076     | Flat Washer 3/8" USS                      | 10  |                       |
| 28   | 97189        | Large Flange Hex Nut 1/4"-20UNC           | 14  |                       |
| 29   | 97420        | Flange Screw 1/4"-20UNC x 3/4"            | 2   |                       |
| 30   | 9928         | Locknut 3/8"-16UNC                        | 1   |                       |
| 31   | 9936         | Locknut 1/4"-20UNC                        | 2   |                       |
| 32   | TA0-903088-0 | Bearing w/Flange 1" I.D.                  | 2   |                       |
| 33   | 902711       | Idler Pulley                              | 1   |                       |
| 34   | 91257        | Flange Nut 5/16"-18UNC                    | 8   |                       |
| 35   | 26284CG      | Spout Weldment                            | 1   |                       |
| 36   | 25532        | Telescopic Spout                          | 1   |                       |
| 37   | 901485       | Clamp                                     | 1   |                       |

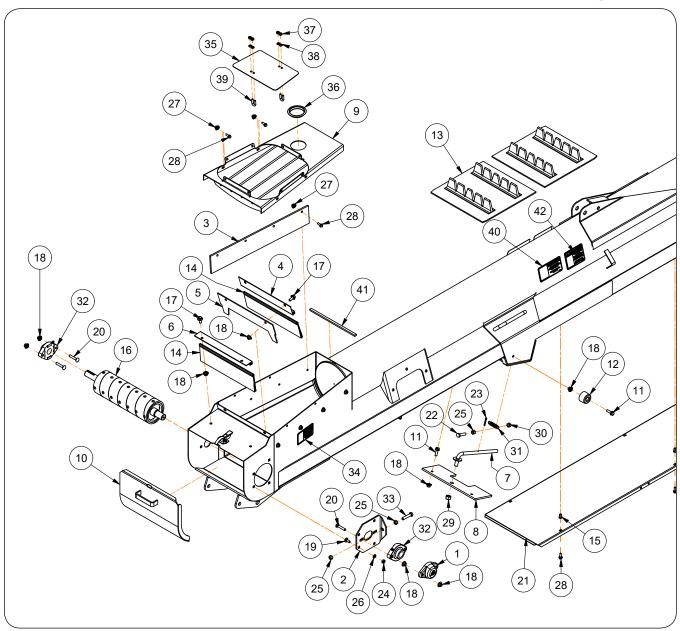
### **Idler End Components - For 6" Tube Conveyor**



## **Idler End Components - For 6" Tube Conveyor**

| ITEM | PART NO.     | DESCRIPTION                                  | QTY            | NOTES   |
|------|--------------|--|----------------|---------|
| 1    | 9500310      | Idler Cover                                  | 3              |         |
| 2    | 23912CG      | Adjustment Plate                             | 1              |         |
| 3    | 24756        | Poly Strip                                   | 2              |         |
| 4    | 24964        | Brush Holder                                 | 1              |         |
| 5    | 26002CG      | Cleanout Door Weldment                       | 1              |         |
| 6    | 26484        | Lever Weldment w/ 1/2"-13UNC Threaded End    | 1              |         |
| 7    | 26485        | Rest Pad                                     | 1              |         |
| 8    | 26688CG      | Cover Weldment                               | 1              |         |
| 9    | 26865        | Seal   | 1              |         |
| 10   | 27258CG      | Bottom Shield                                | 1              |         |
|      | 900779       | Conveyor Belt                                | 1              |         |
| 11   | 9500087      | Belt Splice Pin For Clipper Style Splice     | -              |         |
|      | 9501506      | Belt Splice Kit                              | -              |         |
| 12   | 901044       | Serrated Flange Bolt 5/16"-18UNC x 1"        | 4              | Grade 5 |
| 13   | 901111       | Nylon Brush                                  | 1              |         |
| 14   | 901169       | Rubber Bumper                                | 2              |         |
| 15   | 901661       | Drive Pulley                                 |                |         |
| 15   | 800713       | Key  | <del> </del> 1 |         |
| 16   | 902340       | Rivet Nut 1/4"-20UNC                         | 8              |         |
| 17   | 91256        | Large Flange Screw 5/16"-18UNC x 3/4"        | 10             |         |
| 18   | 91257        | Large Flange Hex Nut 5/16"-18UNC             | 24             |         |
| 19   | 9388-024     | Carriage Bolt 5/16"-18UNC x 3/4"             | 4              | Grade 5 |
| 20   | 9500341      | Carriage Bolt 5/16"-18UNC x 1 3/4"           | 8              | Grade 5 |
| 21   | 9390-057     | Capscrew 3/8"-16UNC x 1 1/2"                 | 1              | Grade 5 |
| 22   | 9391-033     | Cotter Pin 5/32" Dia. x 1                    | 1              |         |
| 23   | 9394-004     | Hex Nut 5/16"-18UNC                          | 8              |         |
| 24   | 9394-006     | Hex Nut 3/8"-16UNC                           | 11             |         |
| 25   | 9404-019     | Lock Washer 5/16"                            | 8              |         |
| 26   | 97189        | Large Flange Hex Nut 1/4"-20UNC              | 22             |         |
| 27   | 97420        | Flange Screw 1/4"-20UNC x 3/4"               | 22             |         |
| 28   | 9800         | Locknut 1/2"-13UNC                           | 1              |         |
| 29   | 98229        | Decal, WARNING (Lower Equipment)             | 2              |         |
| 30   | 9928         | Locknut 3/8"-16UNC                           | 2              |         |
| 31   | 99860        | Spring                                       | 1              |         |
| 32   | TA0-903088-0 | Bearing w/Flange 1" I.D.                     | 4              |         |
| 33   | TA0-907104-0 | Capscrew 3/8"-16UNC x 1 3/4" (Full Threaded) | 1              | Grade 5 |
| 34   | TA1-906109-0 | Decal, WARNING (Moving Parts)                | 2              |         |
| 35   | 900152       | Foam Strip                                   | A/R            |         |

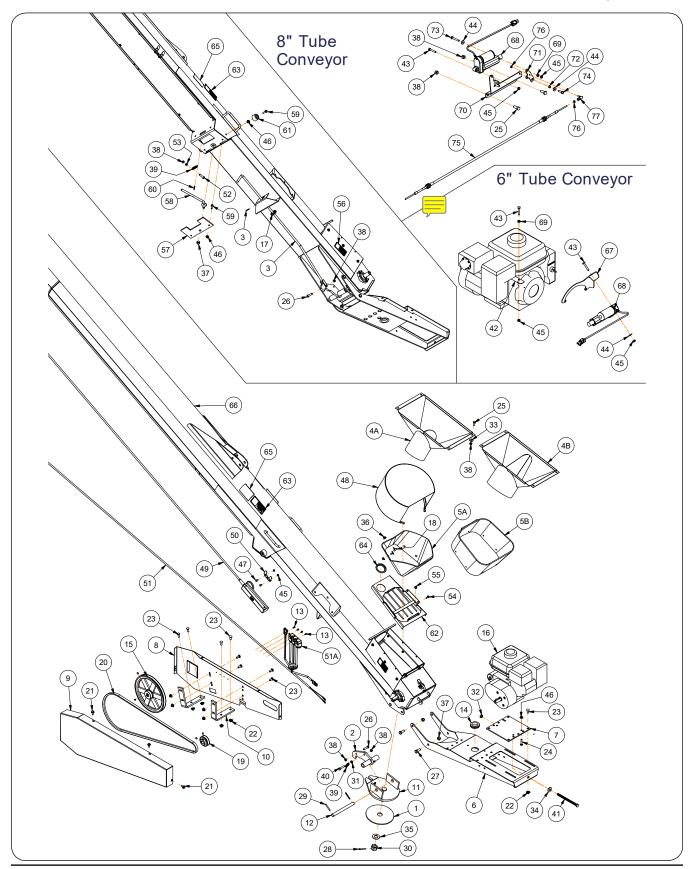
### **Idler End Components - For 8" Tube Conveyor**



### **Idler End Components - For 8" Tube Conveyor**

| ITEM | PART NO.     | DESCRIPTION                                  | QTY | NOTES   |
|------|--------------|--|-----|---------|
| 1    | 9500310      | Idler Cover                                  | 3   |         |
| 2    | 23912CG      | Adjustment Plate                             | 1   |         |
| 3    | 25258        | Seal   | 2   |         |
| 4    | 25262        | Brush Holder                                 | 1   |         |
| 5    | 26243        | Seal   | 1   |         |
| 6    | 26308        | Brush Holder                                 | 1   |         |
| 7    | 26484        | Lever Weldment w/ 1/2"-13UNC Threaded End    | 1   |         |
| 8    | 28249        | Rest Pad                                     | 1   |         |
| 9    | 28285CG      | Cover Weldment                               | 1   |         |
| 10   | 28295CG      | Clean Out Door Weldment                      | 1   |         |
| 11   | 901044       | Serrated Flange Bolt 5/16"-18UNC x 1"        | 4   | Grade 5 |
| 12   | 901169       | Rubber Bumper                                | 2   |         |
|      | 901287       | Conveyor Belt                                | 1   |         |
| 13   | 9500087      | Belt Splice Pin For Clipper Style Splice     | -   |         |
|      | TA4-100659-0 | In Field Splice Repair For Alligator Splice  | -   |         |
| 14   | 901814       | Nylon Brush                                  | 2   |         |
| 15   | 902340       | Rivet Nut 1/4"-20UNC                         | 8   |         |
| 10   | 902710       | Drive Pulley                                 | 1   |         |
| 16   | 800713       | Key  | -   |         |
| 17   | 91256        | Large Flange Screw 5/16"-18UNC x 3/4"        | 8   |         |
| 18   | 91257        | Large Flange Hex Nut 5/16"-18UNC             | 22  |         |
| 19   | 9388-024     | Carriage Bolt 5/16"-18UNC x 3/4"             | 4   | Grade 5 |
| 20   | 9500341      | Carriage Bolt 5/16"-18UNC x 1 3/4"           | 8   | Grade 5 |
| 21   | 28248CG      | Bottom Shield                                | 1   |         |
| 22   | 9390-057     | Capscrew 3/8"-16UNC x 1 1/2"                 | 1   | Grade 5 |
| 23   | 9391-033     | Cotter Pin 5/32" Dia. x 1"                   | 1   |         |
| 24   | 9394-004     | Hex Nut 5/16"-18UNC                          | 8   |         |
| 25   | 9394-006     | Hex Nut 3/8"-16UNC                           | 11  |         |
| 26   | 9404-019     | Lock Washer 5/16"                            | 8   |         |
| 27   | 97189        | Large Flange Hex Nut 1/4"-20UNC              | 27  |         |
| 28   | 97420        | Flange Screw 1/4"-20UNC x 3/4"               | 22  |         |
| 29   | 9800         | Locknut 1/2"-13UNC                           | 1   |         |
| 30   | 9928         | Locknut 3/8"-16UNC                           | 2   |         |
| 31   | 99860        | Spring                                       | 1   |         |
| 32   | TA0-903088-0 | Bearing w/Flange 1" I.D.                     | 4   |         |
| 33   | TA0-907104-0 | Capscrew 3/8"-16UNC x 1 3/4" (Full Threaded) | 1   | Grade 5 |
| 34   | TA1-906109-0 | Decal, WARNING (Moving Parts)                | 2   |         |
| 35   | 2001238CG    | Baffle 6" x 9 29/32"                         | 1   |         |
| 36   | 9006919      | Button Plug                                  | 1   |         |
| 37   | 9394-002     | Hex Nut 1/4"-20UNC                           | 4   | Grade 5 |
| 38   | 9404-017     | Lock Washer 1/4"                             | 4   |         |
| 39   | 9500652      | U-Bolt 1/4"-20UNC x 9/16"                    | 2   |         |
| 40   | 98229        | Decal, WARNING (Lower equipment              | 2   |         |
| 41   | 900152       | Tape/Black Foam Rubber                       | 1   |         |

### **Drive Assembly & Hopper Components**



### **Drive Assembly & Hopper Components**

#### Please visit www.unverferth.com/parts/ for the most current parts listing.

| ITEM | PART NO.  | DESCRIPTION                                | QTY | NOTES                                    |
|------|-----------|--|-----|--|
| 1    | 25882     | Poly Washer 7 3/4" Dia.                    | 1   |  |
| 2    | 26100CG   | Latch Weldment                             | 1   |  |
| 3    | 26103     | Lever Weldment                             | 1   |  |
| 4A   | 26440CG   | Chute Weldment 6" Dia.                     | 1   | For 6" Tube Conveyor                     |
| 4B   | 2009123CG | Chute Weldment 8" Dia.                     | 1   | For 8" Tube Conveyor                     |
| ΕΛ   | 26689     | Rubber Hopper (Shown)                      | 1   | For 6" Tube Conveyor                     |
| 5A   | 2001291   | Rubber Hopper                              | 1   | For 8" Tube Conveyor w/6" Chute Weldment |
| 5B   | 2009292   | Rubber Hopper                              | 1   | For 8" Tube Conveyor                     |
| 6    | 28375CG   | Engine Mount Weldment                      | 1   |  |
| 7    | 28377CG   | Adjustment Plate                           | 1   |  |
| 8    | 28378CG   | Shield Weldment                            | 1   |  |
| 9    | 28380CG   | Shield Weldment                            | 1   |  |
| 10   | 28382CG   | Bracket                                    | 2   |  |
| 11   | 28410CG   | Pivot Weldment                             | 1   |  |
| 12   | 28412     | Pin 3/4" Dia. x 8 1/4"                     | 1   |  |
| 13   | 9001396   | Pan Head Self Drilling Screw #10-16 x 1/2" | 5   |  |
| 14   | 900513    | Grommet / Rubber 2" Dia.                   | 2   |  |
| 4.5  | 901659    | Pulley/Sheave w/ Set Screws                | 1   |  |
| 15   | 9399-071  | Set Screws 5/16"-18UNC x 3/8"              | -   |  |
|      | 901673    | Honda Engine 4.8 Net HP Gas                | 4   | For 6" Tube Conveyor                     |
| 10   | 902720    | Honda Engine 8.5 Net HP Gas                | 1   | For 8" Tube Conveyor                     |
| 16   | 903057    | Key 7mm x 7mm                              | -   |  |
|      | 901333    | Ignition Key Replacement                   | -   |  |
| 17   | 901675    | Grommet / Rubber 1" Dia.                   | 1   |  |
| 18   | 902006    | Elevator Bolt 1/4"-20UNC x 3/4"            | 8   |  |
| 10   | 902059    | Pulley 2.95" Dia. w/ Set Screws            | 1   |  |
| 19   | 9399-071  | Set Screws 5/16"-18UNC x 3/8"              | -   |  |
| 20   | 902756    | V-Belt - 83" Outer Length                  | 1   |  |
| 21   | 91256     | Large Flange Screw 5/16"-18UNC x 3/4"      | 4   |  |
| 22   | 91263     | Large Flange Nut 3/8"-16UNC                | 12  |  |
| 23   | 9388-051  | Carriage Bolt 3/8"-16UNC x 1"              | 12  | Grade 5                                  |
| 24   | 9500341   | Carriage Bolt 5/16"-18UNC x 1 3/4"         | 4   | Grade 5                                  |
| 25   | 9390-055  | Capscrew 3/8"-16UNC x 1"                   | 4   | Grade 5                                  |
| 26   | 9390-057  | Capscrew 3/8"-16UNC x 1 1/2"               | 1   | Grade 5                                  |
| 27   | 9390-100  | Capscrew 1/2"-13UNC x 1 1/4"               | 4   | Grade 5                                  |
| 28   | 9391-035  | Cotter Pin 5/32" Dia. x 1 1/2"             | 1   |  |

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### **Drive Assembly & Hopper Components** (continued)

### Please visit www.unverferth.com/parts/ for the most current parts listing.

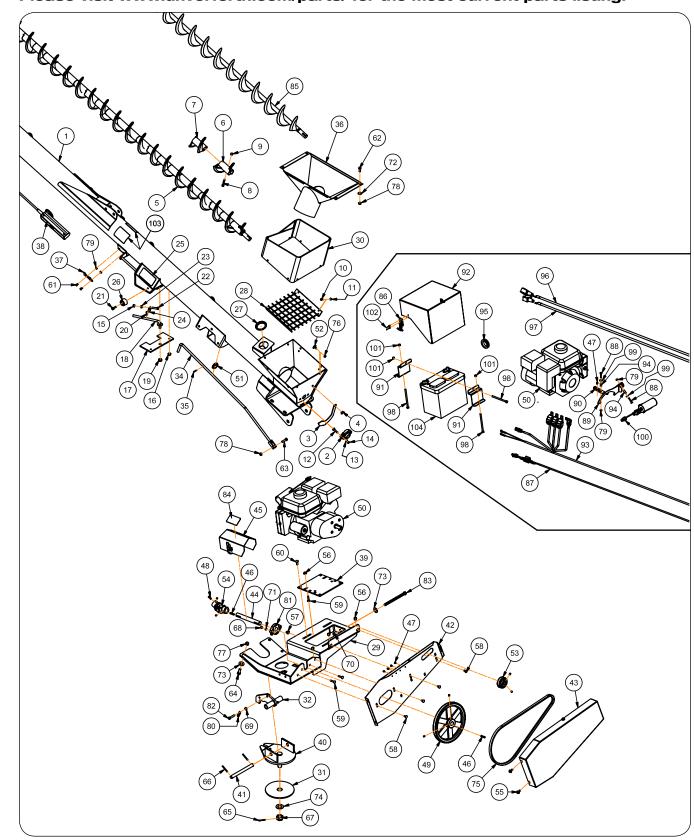
| ITEM | PART NO.     | DESCRIPTION                            | QTY | NOTES                               |
|------|--------------|--|-----|-------------------------------------|
| 29   | 9392-140     | Roll Pin 1/4" Dia. x 2"                | 2   |                                     |
| 30   | 9393-020     | Slotted Nut 1"-14UNS                   | 1   | Grade 2                             |
| 31   | 9394-006     | Hex Nut 3/8"-16UNC                     | 1   |                                     |
| 32   | 9395-010     | Hex Jam Nut 1/2"-13UNC                 | 1   |                                     |
| 33   | 9405-076     | Flat Washer 3/8" USS                   | 5   |                                     |
| 34   | 9405-088     | Flat Washer 1/2" USS                   | 1   |                                     |
| 35   | 9405-116     | Flat Washer 1" SAE                     | 1   |                                     |
| 36   | 97189        | Large Flange Hex Nut 1/4"-20UNC        | 8   |                                     |
| 37   | 9800         | Locknut 1/2"-13UNC                     | 4   |                                     |
| 38   | 9928         | Locknut 3/8"-16UNC                     | 6   |                                     |
| 39   | 99860        | Extension Spring 2 1/4" Long           | 1   |                                     |
| 40   | TA0-907104-0 | Capscrew 3/8"-16UNC x 1 3/4"           | 1   | Full Threaded - Grade 5             |
| 41   | TA0-907228-0 | Capscrew 1/2"-13UNC x 7 1/2"           | 1   | Full Threaded - Grade 5             |
| 42   | 26719CG      | Angle for Actuator Assembly (Shown)    | 1   | For 6" Tube Conveyor                |
| 43   | 9390-007     | Capscrew 1/4"-20UNC x 1 1/2" G5        | 2   | For 6" & 8" Tube Conveyor - Grade 5 |
| 43   | 9390-005     | Capscrew 1/4"-20UNC x 1" G5            |     | For 8" Tube Conveyor - Grade 5      |
| 44   | 9405-064     | Flat Washer 1/4" USS                   | 2   |                                     |
| 45   | 9936         | Locknut 1/4"-20UNC                     | 4   |                                     |
| 46   | 91257        | Flange Nut 5/16"-18UNC                 | 4   |                                     |
| 47   | 9390-001     | Capscrew 1/4"-20UNC x 1/2" G5          | 2   |                                     |
| 48   | 2000399      | Vinyl Cover / Hopper Cover             | 1   |                                     |
| 49   | 26734        | Switch Assembly 198"                   | 1   |                                     |
| 50   | 26505        | Switch Retainer                        | 1   |                                     |
| 51   | 28920        | Wire Harness                           | 1   | Includes Item 51A                   |
| 51A  | 97967        | Relay w/Mounting Tab                   | 3   |                                     |
| 52   | 9390-057     | Capscrew 3/8"-16UNC x 1 1/2" G5        | 1   |                                     |
| 53   | 9394-006     | Hex Nut 3/8"-16UNC                     | 1   |                                     |
| 54   | 97420        | Flange Screw 1/4"-20UNC x 3/4"         | 22  | Grade 5                             |
| 55   | 97189        | Large Flange Hex Nut 1/4"-20UNC        | 22  |                                     |
| 56   | TA1-906109-0 | Decal, WARNING (Moving part can crush) | 2   |                                     |
| 57   | 26485        | Rest Pad 4" x 8 3/4"                   | 1   |                                     |
| 58   | 26484        | Lever Weldment                         | 1   |                                     |
| 59   | 901044       | Flange Screw 5/16"-18UNC x 1"          | 4   | Grade 5                             |
| 60   | 9391-033     | Cotter Pin 5/32" Dia. x 1"             | 1   |                                     |
| 61   | 901169       | Rubber Bumper                          | 2   |                                     |

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### **Drive Assembly & Hopper Components** (continued)

| ITEM | PART NO.  | DESCRIPTION                                | QTY | NOTES                         |
|------|-----------|--|-----|-------------------------------|
| 62   | 26688CG   | Cover Weldment                             | 1   |                               |
| 63   | 98229     | Decal, WARNING (Falling or Lowering Equip) | 2   |                               |
| 64   | 9006919   | Button Plug 2 1/2"                         | 1   |                               |
| 65   | 901478    | Decal, DANGER (Electrocution)              | 2   |                               |
| 66   | 2005358CG | Conveyor Tube Service Weldment w/Decals    | 1   | For 6" Tube Conveyor          |
| 00   | 2005360CG | Conveyor Tube Service Weldment w/Decals    | I   | For 8" Tube Conveyor - 28250@ |
| 67   | 2008983CG | Throttle Bracket                           | 1   |                               |
| 68   | 9502339   | Actuator Assembly                          | 1   |                               |
| 69   | 9394-002  | Hex Nut 1/4"-20UNC                         | 1   |                               |
| 70   | 2007913CG | Bracket                                    | 2   |                               |
| 71   | 28714CG   | Throttle Link                              | 2   | For 8" Tube Conveyor          |
| 72   | 22018     | Bushing 3/8" Dia. x 9/32"                  | 2   | For 8" Tube Conveyor          |
| 73   | 9390-008  | Capscrew 1/4"-20UNC x 1 3/4" G5            | 2   |                               |
| 74   | 9390-004  | Capscrew 1/4"-20UNC x 7/8" G5              | 2   |                               |
| 75   | 901413    | Control Cable                              | 1   |                               |
| 76   | 9830-016  | Hex Nut #10-32UNF                          | 2   | Grade 2                       |
| 77   | 902368    | Quick Disconnect Ball Joint                | 1   |                               |

### **Auger Drive Assembly & Hopper Components**



### **Auger Drive Assembly & Hopper Components**

### Please visit www.unverferth.com/parts/ for the most current parts listing.

| ITE | М  | PART NO.     | DESCRIPTION                                | QTY | NOTES           |
|-----|----|--------------|--|-----|-----------------|
| 1   |    | 2005357CG    | Auger Weldment 6" x 18'                    | 1   |                 |
| 2   | 2  | TA0-903088-0 | Bearing w/Flange & Grease Zerk             | 1   |                 |
| 3   | 3  | 29374CG      | Cleanout Door                              | 1   |                 |
| 4   | ļ. | 9396-015     | Wing Nut 1/4"-20UNC                        | 1   |                 |
| 5   | 5  | 903225       | Plastic Flighting Assembly                 | 1   |                 |
|     | 6  | 901122       | Plastic Flighting Section w/Gussets        | 2   |                 |
|     | 7  | 900199       | Plastic Flighting Section                  | 49  |                 |
|     | 8  | 91484        | Capscrew 5/16"-18UNC x 2 1/4"              | 2   | Stainless Steel |
|     | 9  | 92929-007    | Elastic Stop Nut 5/16"-18UNC               | 2   | Stainless Steel |
| 1   | 0  | 9390-003     | Capscrew 1/4"-20UNC x 3/4"                 | 4   | Grade 5         |
| 1   | 1  | 9936         | Locknut 1/4"-20UNC                         | 4   |                 |
| 1:  | 2  | 9388-027     | Carriage Bolt 5/16"-18UNC x 1 1/2"         | 4   | Grade 5         |
| 1   | 3  | 9404-019     | Lock Washer 5/16"                          | 2   |                 |
| 1-  | 4  | 9394-004     | Hex Nut 5/16"-18UNC                        | 2   |                 |
| 1   | 5  | 9928         | Locknut 3/8"-16UNC                         | 6   |                 |
| 1   | 6  | 91257        | Flange Nut 5/16"-18UNC                     | 8   |                 |
| 1   | 7  | 26485        | Rest Pad 4" x 8 3/4"                       | 1   |                 |
| 1   | 8  | 26484        | Lever Weldment                             | 1   |                 |
| 1   | 9  | 9800         | Locknut 1/2"-13UNC                         | 4   |                 |
| 2   | 0  | 9391-033     | Cotter Pin 5/32" Dia. x 1"                 | 1   |                 |
| 2   | 1  | 901044       | Flange Screw 5/16"-18UNC x 1"              | 4   | Grade 5         |
| 2   | 2  | 9390-057     | Capscrew 3/8"-16UNC x 1 1/2"               | 1   | Grade 5         |
| 2   | 3  | 9394-006     | Hex Nut 3/8"-16UNC                         | 1   |                 |
| 2   | 4  | 99860        | Extension Spring 2 1/4" Long               | 1   |                 |
| 2   | 5  | 98229        | Decal, WARNING (Falling or Lowering Equip) | 2   |                 |
| 2   | 6  | 901169       | Rubber Bumper                              | 2   |                 |
| 2   | 7  | 9006919      | Button Plug 2 1/2"                         | 1   |                 |
| 2   | 8  | 2002263CG    | Grate Weldment                             | 1   |                 |
| 2   | 9  | 2001995CG    | Engine Mount Weldment                      | 1   |                 |
| 3   | 0  | 2002361      | Rubber Hopper                              | 1   |                 |
| 3   | 1  | 25882        | Poly Washer 7 3/4" Dia.                    | 1   |                 |
| 3   | 2  | 26100CG      | Latch Weldment                             | 1   |                 |
| 3   | 3  | 26103        | Lever Weldment                             | 1   |                 |
| 3   | 4  | 26101        | Leveler Bar w/Roll Pin                     | 1   |                 |
| [   | 35 | 9392-097     | Roll Pin 3/16" Dia. x 1"                   | 1   |                 |
| 3   | 6  | 26440CG      | Chute Weldment                             | 1   |                 |
| 3   | 7  | 26505        | Switch Retainer                            | 1   |                 |
| 3   | 8  | 26734        | Switch Assembly 198"                       | 1   |                 |
| 3   | 9  | 28377CG      | Adjustment Plate                           | 1   |                 |

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### **Auger Drive Assembly & Hopper Components** (continued)

### Please visit www.unverferth.com/parts/ for the most current parts listing.

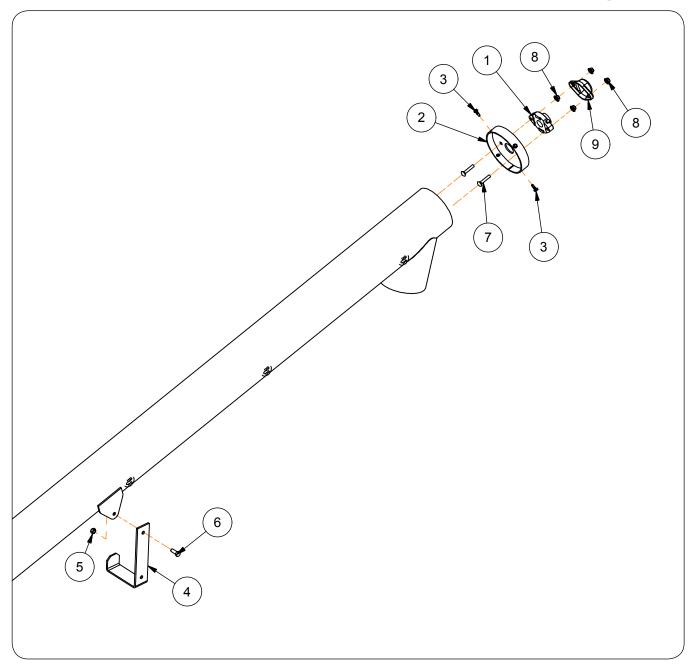
| ITEM | PART NO. | DESCRIPTION                                | QTY | NOTES   |
|------|----------|--|-----|---------|
| 40   | 28410CG  | Pivot Weldment                             | 1   |         |
| 41   | 28412    | Pin 3/4" Dia. x 8 1/4"                     | 1   |         |
| 42   | 29157CG  | Shield Weldment                            | 1   |         |
| 43   | 29160CG  | Shield Weldment                            | 1   |         |
| 44   | 29294    | Shaft w/ 1/4" Keyway Both Ends             | 1   |         |
| 45   | 29378CG  | Shield Assembly                            | 1   |         |
| 46   | 800713   | Keystock 1/4" x 1/4" x 1 1/2"              | 1   |         |
| 47   | 9001396  | Pan Head Self Drilling Screw #10-16 x 1/2" | 5   |         |
| 48   | 9001501  | Keystock 1/4" x 1/4" x 1"                  | 1   |         |
| 40   | 901659   | Pulley/Sheave w/ Set Screws                | 1   |         |
| 49   | 9399-071 | Set Screws 5/16"-18UNC x 3/8"              | -   |         |
| F0   | 901673   | Honda Engine 4.8 Net HP Gas, 9.9 Cu. In.   | 1   |         |
| 50   | 903057   | Key 7mm x 7mm                              | -   |         |
| 51   | 901675   | Grommet / Rubber 1" Dia.                   | 1   |         |
| 52   | 902006   | Elevator Bolt 1/4"-20UNC x 3/4"            | 8   |         |
| F0   | 902059   | Pulley 2.95" Dia. w/ Set Screws            | 1   |         |
| 53   | 9399-071 | Set Screws 5/16"-18UNC x 3/8"              | -   |         |
| F.4  | 903165   | U-Joint w/Setscrews                        | 1   |         |
| 54   | 9399-070 | Set Screws 5/16"-18UNC x 3/4"              | -   |         |
| 55   | 91256    | Large Flange Screw 5/16"-18UNC x 3/4"      | 4   |         |
| 56   | 91257    | Flange Nut 5/16"-18UNC                     | 4   |         |
| 57   | 91263    | Large Flange Nut 3/8"-16UNC                | 12  |         |
| 58   | 9388-024 | Carriage Bolt 5/16"-18UNC x 3/4"           | 4   | Grade 5 |
| 59   | 9500341  | Carriage Bolt 5/16"-18UNC x 1 3/4"         | 2   | Grade 5 |
| 60   | 9388-051 | Carriage Bolt 3/8"-16UNC x 1"              | 12  | Grade 5 |
| 61   | 9390-001 | Capscrew 1/4"-20UNC x 1/2"                 | 2   | Grade 5 |
| 62   | 9390-055 | Capscrew 3/8"-16UNC x 1"                   | 4   | Grade 5 |
| 63   | 9390-057 | Capscrew 3/8"-16UNC x 1 1/2"               | 1   | Grade 5 |
| 64   | 9390-101 | Capscrew 1/2"-13UNC x 1 1/2"               | 4   | Grade 5 |
| 65   | 9391-035 | Cotter Pin 5/32" Dia. x 1 1/2"             | 1   |         |
| 66   | 9392-140 | Roll Pin 1/4" Dia. x 2"                    | 2   |         |
| 67   | 9393-020 | Slotted Nut 1"-14UNS                       | 1   | Grade 2 |
| 68   | 9394-004 | Hex Nut 5/16"-18UNC                        | 2   |         |
| 69   | 9394-006 | Hex Nut 3/8"-16UNC                         | 1   |         |
| 70   | 9395-010 | Hex Jam Nut 1/2"-13UNC                     | 1   |         |
| 71   | 9404-019 | Lock Washer 5/16"                          | 2   |         |
| 72   | 9405-076 | Flat Washer 3/8" USS                       | 4   |         |

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# **Auger Drive Assembly & Hopper Components** (continued)

| ITEM | PART NO.     | DESCRIPTION   | QTY | NOTES                   |
|------|--------------|---|-----|-------------------------|
| 73   | 9405-088     | Flat Washer 1/2" USS  | 5   |                         |
| 74   | 9405-116     | Flat Washer 1" SAE  | 1   |                         |
| 75   | 9500986      | V-Belt  | 1   |                         |
| 76   | 97189        | Large Flange Hex Nut 1/4"-20UNC                             | 8   |                         |
| 77   | 9800         | Locknut 1/2"-13UNC  | 4   |                         |
| 78   | 9928         | Locknut 3/8"-16UNC  | 6   |                         |
| 79   | 9936         | Locknut 1/4"-20UNC  | 4   |                         |
| 80   | 99860        | Extension Spring 2 1/4" Long                                | 1   |                         |
| 81   | TA0-903088-0 | Bearing w/Flange  | 1   |                         |
| 82   | TA0-907104-0 | Capscrew 3/8"-16UNC x 1 3/4"                                | 1   | Full Threaded - Grade 5 |
| 83   | TA0-907228-0 | Capscrew 1/2"-13UNC x 7 1/2"                                | 1   | Full Threaded - Grade 5 |
| 84   | TA1-906109-0 | Decal, WARNING (Moving part can crush)                      | 2   |                         |
| 85   | 2002755B     | Steel Flighting Weldment                                    | 1   |                         |
| 86   | 104988       | Draw Latch  | 2   |                         |
| 87   | 29410        | Charging Harness  | 1   |                         |
| 88   | 9390-008     | Capscrew 1/4"-20UNC x 1 3/4"                                | 2   |                         |
| 89   | 2008983CG    | Throttle Actuator Bracket (Shown)                           | 1   |                         |
| 90   | 26719CG      | Angle for Actuator Assembly (Shown)                         | 1   |                         |
| 91   | 28418B       | Bracket   | 2   |                         |
| 92   | 28419CG      | Battery Cover   | 1   |                         |
| 02   | 28920        | Wire Harness  | 1   | Includes Relay          |
| 93   | 97967        | Relay/Change Over 12VDC 50AMP                               | AR  |                         |
| 94   | 28968        | Bushing/Tube 3/8" Dia. x 15/16" (Shown)                     | 2   |                         |
| 95   | 900513       | Grommet / Rubber 2" Dia.                                    | 2   |                         |
| 96   | 902873       | Battery Cable (Red)   | 1   |                         |
| 97   | 902874       | Battery Cable (Black)                                       | 1   |                         |
| 98   | 9390-045     | Capscrew 5/16"-18UNC x 5 1/2"                               | 3   |                         |
| 99   | 9405-064     | Flat Washer 1/4" USS  | 2   |                         |
| 100  | 9502339      | Actuator Assembly 12 VDC                                    | 1   |                         |
| 101  | 9807         | Locknut 5/16"-18UNC   | 3   |                         |
| 102  | TA0-908394-0 | Pop Rivet   | 4   |                         |
| 103  | 901478       | Decal, DANGER (Electrocution)                               | 2   |                         |
| 104  | N/A          | Battery / 12V Marine Top Post<br>(Purchase Battery Locally) | 1   |                         |

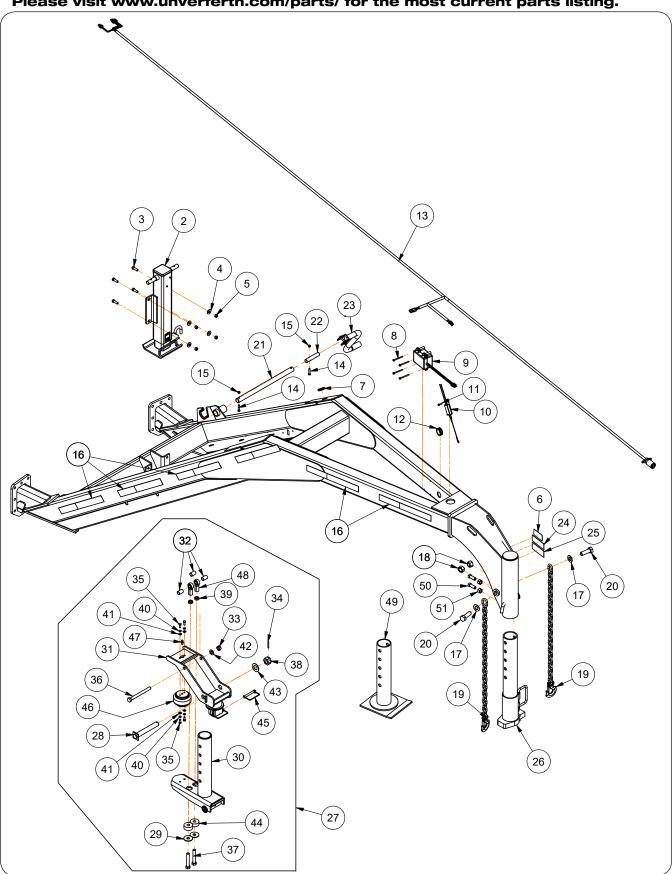
## **Auger Discharge End Components**



### **Auger Discharge End Components**

| ITEM | PART NO.     | DESCRIPTION                        | NOTES   |
|------|--------------|------------------------------------|---------|
| 1    | TA0-903088-0 | Bearing w/Flange 1" I.D.           |         |
| 2    | 29405CG      | End Cap                            |         |
| 3    | 9473         | Self-Drilling Screw 1/4-14 x 3/4"  |         |
| 4    | 24414CG      | Spout Bracket                      |         |
| 5    | 9928         | Locknut 3/8"-16UNC                 |         |
| 6    | 9390-055     | Capscrew 3/8"-16UNC x 1"           | Grade 5 |
| 7    | 9500341      | Carriage Bolt 5/16"-18UNC x 1 3/4" | Grade 5 |
| 8    | 91257        | Large Flange Nut 5/16"-18UNC       |         |
| 9    | 9500310      | Bearing Cover                      |         |

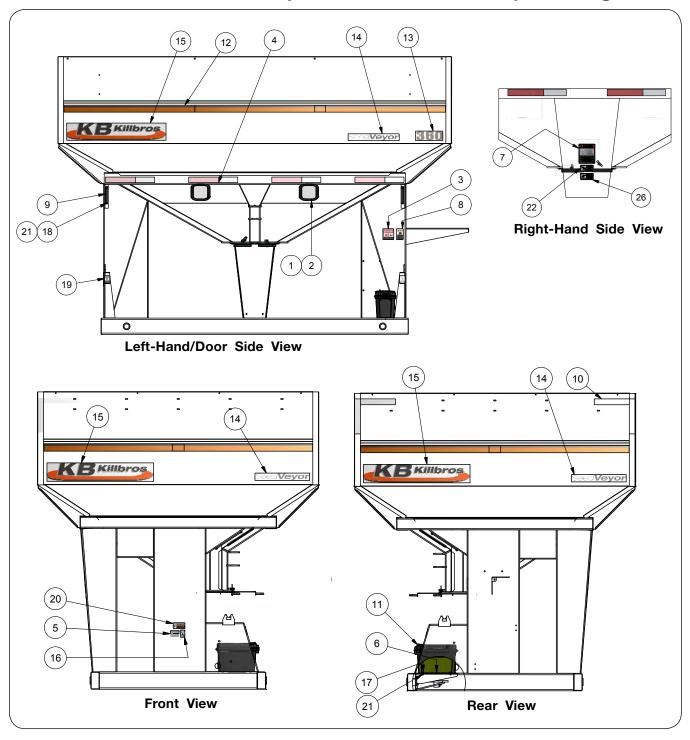
### **Gooseneck Hitch Components (Option)**



### **Gooseneck Hitch Components (Option)**

| ITEM | PART NO.             | DESCRIPTION  | QTY    | NOTES                        |
|------|----------------------|--|--------|------------------------------|
|      | 2010230CG            | Gooseneck Hitch Assembly                                       | -      | Includes Items 2-25          |
| 2    | 107905B              | Jack Weldment  | 1      |                              |
| 3    | 9390-101             | Capscrew 1/2"-13UNC x 1 1/2"                                   | 4      | Grade 5                      |
| 4    | 9405-088             | Flat Washer 1/2"   | 4      |                              |
| 5    | 9800                 | Locknut 1/2"-13UNC   | 4      |                              |
| 6    | 97961                | Decal, WARNING (Read and Understand)                           | 1      |                              |
| 7    | 97422                | Plug/Rubber  | 1      |                              |
| 8    | 902238               | Flange Bolt 1/4"-20UNC x 3"                                    | 4      |                              |
| 9    |                      | Duck Avery Coultable 9 Dettern w/Charren 9 Dev                 | 4      | Refer to "Electric Breakaway |
| 10   |                      | Break Away Switch & Battery w/Charger & Box                    | 1      | Components" in PARTS Section |
| 11   | 9512                 | Screw/Self-Drilling 1/4-14 x 1"                                | 1      |                              |
| 12   | 98487                | Grommet/Rubber   | 1      |                              |
| 13   | 27829                | Wiring Harness Front   | 1      |                              |
| 14   | 9390-058             | Capscrew 3/8"-16UNC x 1 3/4"                                   | 2      | Grade 5                      |
| 15   | 9928                 | Locknut 3/8"-16UNC   | 3      |                              |
| 16   | 25003                | Conspicuity Marking / Reflectors                               | 12     |                              |
| 17   | 9405-116             | Flat Washer 1"   | 4      |                              |
| 18   | 9663                 | Locknut 1"-8UNC  | 2      |                              |
| 19   | 98792                | Chain w/Hook & C-Link Assembly                                 | 2      |                              |
| 20   | 91299-187            | Capscrew 1"-8UNC x 3"  | 2      | Grade 8                      |
| 21   | 2001095B             | Extension Tube   | 1      |                              |
| 22   | 2001097B             | Bar 1" Dia. x 5"   | 1      |                              |
| 23   | 9500583              | Jack Handle  | 1      |                              |
| 24   | 9500953              | Decal, CAUTION (Always Use Transport Chain)                    | 1      |                              |
| 25   | 9500952              | Decal, CAUTION (Unhitching of Trailer can cause)               | 1      |                              |
| 26   | 2003304B             | Gooseneck Hitch - Drilled                                      | -      |                              |
| 27   | 2009544B             | Cushion Gooseneck Hitch Assembly (Option)                      | -      | Includes Items 28-48         |
| 28   | 2009330              | Pin Weldment 1 1/4" Dia. x 8 1/2"                              | 1      |                              |
| 29   | 2009331              | Washer 2.5" Dia.   | 2      |                              |
| 30   | 2009615B             | Receiver Weldment  | 1      |                              |
| 31   | 2009641B             | Coupler Weldment   | 1      |                              |
| 32   | 2009812              | Tube/Spacer 1" OD x .782" ID x 1 1/2                           | 3      |                              |
| 33   | 9008442              | Lock Nut/Center, 3/4"-10UNC                                    | 1      |                              |
| 34   | 91144-165            | Spiral Pin 1/4" Dia. x 1 7/8"                                  | 1<br>4 |                              |
|      | 9390-055             | Capacrew, 3/8"-16UNC x 1" G5                                   |        |                              |
| 36   | 9390-161<br>9390-378 | Capscrew, 3/4"-10UNC x 8" G5  Capscrew, 3/4"-16UNF x 4 1/2" G5 | 2      |                              |
| 38   | 9390-376             | Slotted Nut, 1 1/4"-7UNC                                       | 1      |                              |
| 39   | 9395-025             | Hex Jam Nut, 3/4"-16UNF  | 2      |                              |
| 40   | 9404-021             | Lock Washer, 3/8"  | 4      | 1                            |
| 41   | 9405-074             | Flat Washer, 3/8" SAE  | 4      | 1                            |
| 42   | 9405-104             | Flat Washer, 3/4" SAE  | 1      |                              |
| 43   | 9405-128             | Flat Washer, 1 1/4" SAE  | 1      |                              |
| 44   | 9502921              | Urethane Spring 2 1/2" Dia.                                    | 2      |                              |
| 45   | 9503022              | Lynch Pin 1/2" Dia. x 3 3/4"                                   | 1      |                              |
| 46   | 9503203              | Air Bag  | 1      |                              |
| 47   | 9503223              | Tank Valve   | 1      |                              |
| 48   | 9503225              | Ball Joint 3/4" ID Rod End                                     | 2      |                              |
| 49   | 2003321B             | Gooseneck Round Fifth Wheel Hitch Adaptor (Option)             | -      |                              |
| 50   | 97875                | Set Screw, 3/4"-10UNC x 2" Square Head                         | 2      |                              |
| 51   | 9394-016             | Hex Nut, 3/4"-10UNC  | 2      |                              |
|      | 0001010              | 1  |        | ļ.                           |

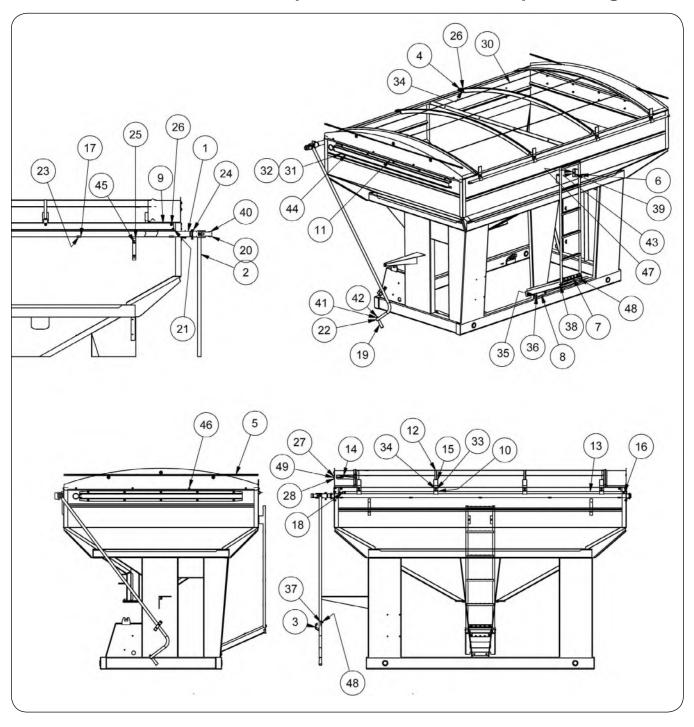
### Windows, Decals, & Touch-Up Paint



### Windows, Decals, & Touch-Up Paint

| ITEM | PART NO. | DESCRIPTION                                | QTY | NOTES     |
|------|----------|--|-----|-----------|
|      | 102608   | Window                                     | 2   |           |
| 1    | 2002566B | Window Bracket                             | 4   |           |
|      | 97189    | Hex Nut/Large Flange 1/4"-20UNC            | 8   |           |
| 2    | 102693   | Weather-strip                              | 2   |           |
| 3    | 235161   | Decal, DANGER (Flammable)                  | 1   |           |
| 4    | 25003    | Conspicuity Marking (11" Red / 7" White)   | 8   |           |
| 5    | N/A      | Serial # Decal                             | 1   |           |
| 6    | 27741B   | Strap                                      | 1   |           |
| 7    | 901580   | Decal, DANGER (Never Play In/On the Grain) | 1   |           |
| 8    | 902026   | Decal, WARNING (Sparks)                    | 1   |           |
| 9    | 902172   | UHMW Strip                                 | 2   |           |
| 10   | 902362   | Conspicuity Marking (12" White)            | 4   |           |
| 11   | 902456   | Tool Box / Manual Holder                   | 1   |           |
| 12   | 902980   | Decal, Stripe                              | 10  |           |
| 13   | 902981   | Decal, Model 260                           | 0   |           |
| 13   | 902982   | Decal, Model 360                           | 2   |           |
| 14   | 902983   | Decal, KB SeedVeyor                        | 4   |           |
| 15   | 902984   | Decal, Killbros Logo                       | 4   |           |
| 16   | 91605    | Decal, FEMA                                | 1   |           |
| 17   | 9390-028 | Capscrew 5/16"-18UNC x 3/4"                | 2   |           |
| 18   | 9390-030 | Capscrew 5/16"-18UNC x 1"                  | 4   |           |
| 19   | 97048    | Decal, WARNING (Pinch Point)               | 2   |           |
| 20   | 97961    | Decal, WARNING (Read & Understand)         | 1   |           |
| 21   | 9807     | Locknut 5/16"-18UNC                        | 6   |           |
| 22   | 98350    | Decal, WARNING (No Riders)                 | 1   |           |
| 23   | 93705    | Clear Silicone Caulk                       | A/R | NOT SHOWN |
| 24   | 9500271  | Spray Can - Charcoal Grey                  | A/R | NOT SHOWN |
| 25   | 902996   | Spray Can - Dove Grey                      | A/R | NOT SHOWN |
| 26   | 95008    | Decal, CAUTION (Slippery Surface)          | 1   |           |

### **Tarp & Ladder Components - Model 260**



### **Tarp & Ladder Components - Model 260**

### Please visit www.unverferth.com/parts/ for the most current parts listing.

| ITEM | PART NO. | DESCRIPTION                                | QTY. | NOTES |
|------|----------|--|------|-------|
| 1    | 2000184  | Roll Tube Weldment                         | 1    |       |
| 1    | 9500278  | Plug 2" (Not Shown)                        | 1    |       |
| 2    | 221748   | Tarp Handle Weldment                       | 1    |       |
| 3    | 221770B  | Handle Retainer Weldment                   | 1    |       |
| 4    | 251122B  | Sideboard Bracket                          | 2    |       |
| 5    | 25847    | Trim-Lok                                   | 2    |       |
| 6    | 26490CG  | Ladder Weldment                            | 1    |       |
| 7    | 26495CG  | Ladder - Lower Extension                   | 1    |       |
| 8    | 26496CG  | Plate - Ladder Holder                      | 1    |       |
| 9    | 26520    | Latch Plate 139"                           | 1    |       |
| 10   | 266689B  | Tarp Short Stop Plate                      | 4    |       |
| 11   | 27194DG  | Tarp End Cap                               | 2    |       |
| 12   | 27195B   | Tarp Bow Weldment                          | 2    |       |
| 13   | 27203    | Fixed Tube - 140"                          | 1    |       |
| 14   | 281712B  | Bracket & U-Nut Assembly                   | 3    |       |
| 15   | 9003078  | Plastic Cap                                | 4    |       |
| 16   | 9003378  | Pop Rivet 3/16"                            | 2    |       |
| 17   | 9004949  | U-Clamp                                    | 5    |       |
| 18   | 9004968  | Plug 1"                                    | 2    |       |
| 19   | 9004969  | Handle                                     | 1    |       |
| 20   | 9004977  | U-Joint                                    | 1    |       |
| 21   | 9005088  | Plastic Plug 1 1/8"                        | 2    |       |
| 22   | 9005089  | Plug 1 1/4"                                | 1    |       |
| 23   | 9005197  | Pan Head Self-Drilling Screw #10-16 x 3/4" | 5    |       |
| 24   | 9005305  | Lynch Pin 3/8" Dia. x 3"                   | 1    |       |
| 25   | 901185   | Poly Tarp Deflector                        | 2    |       |
| 26   | 9005312  | Truss Head Machine Screw 3/8"-16UNC x 1"   | 6    |       |
| 27   | 9005688  | Lock Washer External Tooth 3/8"            | 3    |       |
| 28   | 9005696  | Washer 3/8"                                | 3    |       |
| 20   | 901992   | Tarp (Not Shown)                           | 1    |       |
| 29   | 9005581  | Tarp Repair Kit                            | -    |       |
| 30   | 902876   | Cable Assembly 124" Long                   | 3    |       |
| 31   | 91256    | Large Flange Screw 5/16"-18UNC x 3/4"      | 20   |       |
| 32   | 91257    | Large Flange Hex Nut 5/16"-18UNC           | 20   |       |

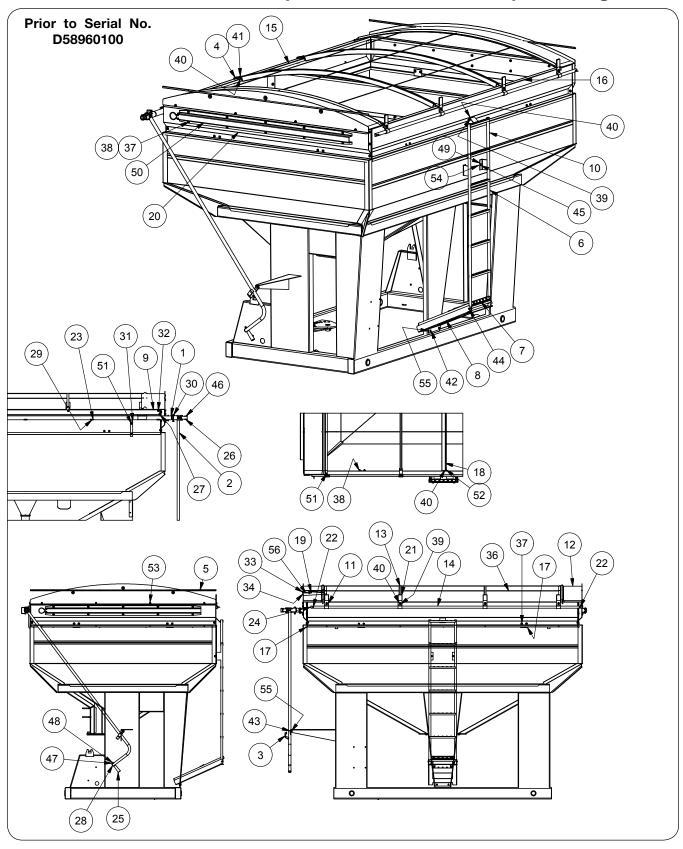
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### Tarp & Ladder Components - Model 260 (continued)

| ITEM | PART NO.     | DESCRIPTION                                   | QTY | NOTES                   |
|------|--------------|---|-----|-------------------------|
| 33   | 91262        | Large Flange Screw 3/8"-16UNC x 1"            | 4   |                         |
| 34   | 91263        | Large Flange Hex Nut 3/8"-16UNC               | 10  |                         |
| 35   | 9936         | Locknut 1/4"-20UNC                            | 1   |                         |
| 36   | 9390-003     | Capscrew 1/4"-20UNC x 3/4"                    | 1   | Grade 5                 |
| 37   | 9390-055     | Capscrew 3/8"-16UNC x 1"                      | 3   | Grade 5                 |
| 38   | 9390-058     | Capscrew 3/8"-16UNC x 1 3/4"                  | 2   | Grade 5                 |
| 39   | 9390-099     | Capscrew 1/2"-13UNC x 1"                      | 2   | Grade 5                 |
| 40   | 9392-180     | Roll Pin 3/8" Dia. x 2"                       | 1   |                         |
| 41   | 9398-012     | Elastic Stop Nut 3/8"-16UNC                   | 1   |                         |
| 42   | 903172-450   | Pan Head Phillips Screw 3/8"-16UNC x 4 1/2"   | 1   |                         |
| 43   | 9405-088     | Flat Washer 1/2" USS                          | 2   |                         |
| 44   | 9500020      | Tarp Roll Return 80 1/2" w/Nylon Slide Boards | 2   |                         |
| 44   | 9501550      | Cable Assembly for Roll Return                | -   |                         |
| 45   | 9512         | Self-Drilling Screw 1/4"-14 x 1"              | 8   |                         |
| 46   | 96972        | Self-Drilling Screw 3/8"-16UNC x 1"           | 16  |                         |
| 47   | 9800         | Locknut 1/2"-13UNC                            | 2   |                         |
| 48   | 9928         | Locknut 3/8"-16UNC                            | 5   |                         |
| 49   | TA0-907131-0 | Capscrew 3/8"-16UNC x 4 1/2"                  | 3   | Full Threaded - Grade 5 |

## Notes

### **Tarp & Ladder Components - Model 360**



### **Tarp & Ladder Components - Model 360**

#### Please visit www.unverferth.com/parts/ for the most current parts listing.

| ITEM | PART NO. | DESCRIPTION                                | QTY | NOTES |
|------|----------|--|-----|-------|
| _    | 2000184  | Roll Tube Weldment                         | 1   |       |
| 1    | 9500278  | Plug 2" (Not Shown)                        | 1   |       |
| 2    | 221748   | Tarp Handle Weldment                       | 1   |       |
| 3    | 221770B  | Handle Retainer Weldment                   | 1   |       |
| 4    | 251122B  | Sideboard Bracket                          | 2   |       |
| 5    | 25847    | Trim-Lok                                   | 2   |       |
| 6    | 27152CG  | Ladder Weldment                            | 1   |       |
| 7    | 26495CG  | Ladder - Lower Extension                   | 1   |       |
| 8    | 26496CG  | Plate - Ladder Holder                      | 1   |       |
| 9    | 26520    | Latch Plate 139"                           | 1   |       |
| 10   | 26524CG  | Ladder Extension Weldment                  | 1   |       |
| 11   | 266689B  | Tarp Short Stop Plate                      | 4   |       |
| 12   | 27194DG  | Tarp End Cap                               | 2   |       |
| 13   | 27195B   | Tarp Bow Weldment                          | 2   |       |
| 14   | 27203    | Fixed Tube - 140"                          | 1   |       |
| 15   | 27240DG  | Board Weldment Left-Hand                   | 1   |       |
| 16   | 27242DG  | Board Weldment Right-Hand                  | 1   |       |
| 17   | 27243DG  | Hook Plate                                 | 8   |       |
| 18   | 27246DG  | Center Divider                             | 1   |       |
| 19   | 281712B  | Bracket & U-Nut Assembly                   | 3   |       |
| 20   | 29048DG  | Board Front & Rear                         | 2   |       |
| 21   | 9003078  | Plastic Cap                                | 4   |       |
| 22   | 9003378  | Pop Rivet 3/16"                            | 2   |       |
| 23   | 9004949  | U-Clamp                                    | 5   |       |
| 24   | 9004968  | Plug 1"                                    | 2   |       |
| 25   | 9004969  | Handle                                     | 1   |       |
| 26   | 9004977  | U-Joint                                    | 1   |       |
| 27   | 9005088  | Plastic Plug 1 1/8"                        | 2   |       |
| 28   | 9005089  | Plug 1 1/4"                                | 1   |       |
| 29   | 9005197  | Pan Head Self-Drilling Screw #10-16 x 3/4" | 5   |       |
| 30   | 9005305  | Lynch Pin 3/8" Dia. x 3"                   | 1   |       |
| 31   | 9005307  | Poly Tarp Deflector                        | 2   |       |
| 32   | 9005312  | Truss Head Machine Screw 3/8"-16UNC x 1"   | 6   |       |
| 33   | 9005688  | Lock Washer External Tooth 3/8"            | 3   |       |
| 34   | 9005696  | Washer 3/8"                                | 3   |       |
| 25   | 901992   | Tarp (Not Shown)                           | 1   |       |
| 35   | 9005581  | Tarp Repair Kit                            | -   |       |

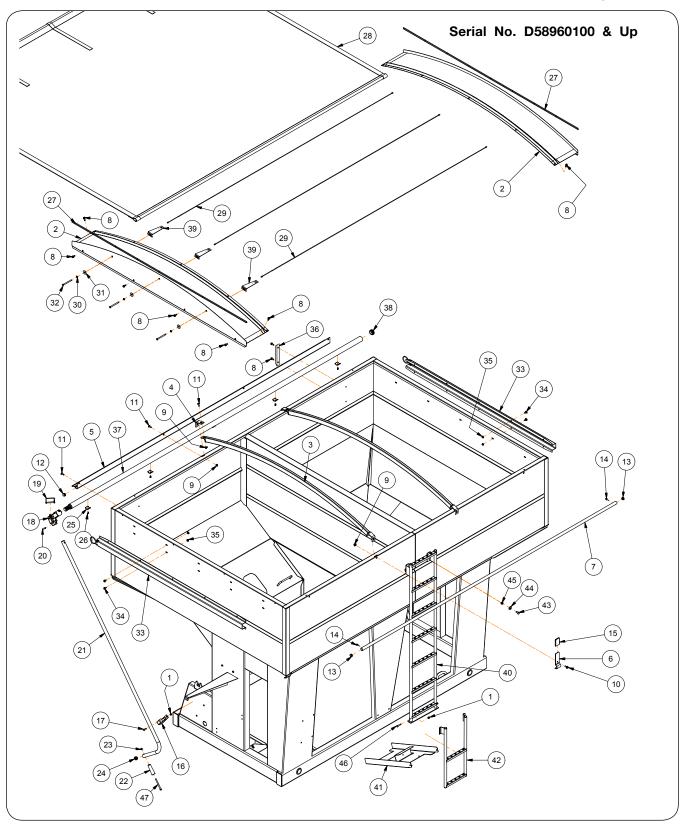
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## Tarp & Ladder Components - Model 360 (continued)

| ITEM | PART NO.     | DESCRIPTION                                   | QTY | NOTES                   |
|------|--------------|---|-----|-------------------------|
| 36   | 902876       | Cable Assembly 124" Long                      | 3   |                         |
| 37   | 91256        | Large Flange Screw 5/16"-18UNC x 3/4"         | 20  |                         |
| 38   | 91257        | Large Flange Hex Nut 5/16"-18UNC              | 20  |                         |
| 39   | 91262        | Large Flange Screw 3/8"-16UNC x 1"            | 4   |                         |
| 40   | 91263        | Large Flange Hex Nut 3/8"-16UNC               | 10  |                         |
| 41   | 9388-051     | Carriage Bolt 3/8"-16UNC x 1"                 | 2   | Grade 5                 |
| 42   | 9390-053     | Capscrew 3/8"-16UNC x 3/4"                    | 2   | Grade 5                 |
| 43   | 9390-055     | Capscrew 3/8"-16UNC x 1"                      | 3   | Grade 5                 |
| 44   | 9390-058     | Capscrew 3/8"-16UNC x 1 3/4"                  | 2   | Grade 5                 |
| 45   | 9390-099     | Capscrew 1/2"-13UNC x 1"                      | 2   | Grade 5                 |
| 46   | 9392-180     | Roll Pin 3/8" Dia. x 2"                       | 1   |                         |
| 47   | 9398-012     | Elastic Stop Nut 3/8"-16UNC                   | 1   |                         |
| 48   | 903172-450   | Pan Head Phillips Screw 3/8"-16UNC x 4 1/2"   | 1   |                         |
| 49   | 9405-088     | Flat Washer 1/2" USS                          | 2   |                         |
| F0   | 9500020      | Tarp Roll Return 80 1/2" w/Nylon Slide Boards | 2   |                         |
| 50   | 9501550      | Cable Assembly for Roll Return                | -   |                         |
| 51   | 9512         | Self-Drilling Screw 1/4"-14 x 1"              | 8   |                         |
| 52   | 95585        | Large Flange Screw 3/8"-16UNC x 3/4"          | 22  |                         |
| 53   | 96972        | Self-Drilling Screw 3/8"-16UNC x 1"           | 16  |                         |
| 54   | 9800         | Locknut 1/2"-13UNC                            | 2   |                         |
| 55   | 9928         | Locknut 3/8"-16UNC                            | 5   |                         |
| 56   | TA0-907131-0 | Capscrew 3/8"-16UNC x 4 1/2"                  | 3   | Full Threaded - Grade 5 |

## Notes

### **Tarp & Ladder Components - Model 360**



### **Tarp & Ladder Components - Model 360**

#### Please visit www.unverferth.com/parts/ for the most current parts listing.

| ITEM | PART NO.     | DESCRIPTION                                 | QTY | NOTES   |
|------|--------------|---|-----|---------|
| 1    | 9928         | Locknut 3/8"-16UNC                          | 5   |         |
| 2    | 27194DG      | Tarp End Cap                                | 2   |         |
| 3    | 27195B       | Tarp Bow Weldment                           | 2   |         |
| 4    | 251122B      | Sideboard Bracket                           | 2   |         |
| 5    | 26520        | Latch Plate 139"                            | 1   |         |
| 6    | 266689B      | Tarp Short Stop Plate                       | 4   |         |
| 7    | 27203        | Fixed Tube - 140"                           | 1   |         |
| 8    | 96972        | Self-Drilling Screw 3/8"-16UNC x 1"         | 16  |         |
| 9    | 91263        | Large Flange Hex Nut 3/8"-16UNC             | 10  |         |
| 10   | 91262        | Large Flange Screw 3/8"-16UNC x 1"          | 4   |         |
| 11   | 9005312      | Truss Head Machine Screw 3/8"-16UNC x 1"    | 6   |         |
| 12   | 9005088      | Plastic Plug 1 1/8"                         | 2   |         |
| 13   | 9004968      | Plug 1"                                     | 2   |         |
| 14   | 9003378      | Pop Rivet 3/16"                             | 2   |         |
| 15   | 9003078      | Plastic Cap                                 | 4   |         |
| 16   | 221770B      | Handle Retainer Weldment                    | 1   |         |
| 17   | 9390-055     | Capscrew 3/8"-16UNC x 1"                    | 1   | Grade 5 |
| 18   | 9004977      | U-Joint                                     | 1   |         |
| 19   | 9005305      | Lynch Pin 3/8" Dia. x 3"                    | 1   |         |
| 20   | 9392-180     | Roll Pin 3/8" Dia. x 2"                     | 1   |         |
| 21   | 221748       | Tarp Handle Weldment                        | 1   |         |
| 22   | 9004969      | Handle                                      | 1   |         |
| 23   | 9398-012     | Elastic Stop Nut 3/8"-16UNC                 | 1   |         |
| 24   | 9005089      | Plug 1 1/4"                                 | 1   |         |
| 25   | 9004949      | U-Clamp                                     | 5   |         |
| 26   | 9005197      | Pan Head Self-Drilling Screw #10-16 x 3/4"  | 5   |         |
| 27   | 25847        | Trim-Lok                                    | 2   |         |
| 00   | 901992       | Tarp  | 1   |         |
| 28   | 9005581      | Tarp Repair Kit                             | -   |         |
| 29   | 902876       | Cable Assembly 124" Long                    | 3   |         |
| 30   | 9005688      | Lock Washer - External Tooth 3/8"           | 3   |         |
| 31   | 9005696      | Washer 3/8"                                 | 3   |         |
| 32   | TA0-907131-0 | Capscrew 3/8"-16UNC x 4 1/2 (Full Threaded) | 3   | Grade 5 |

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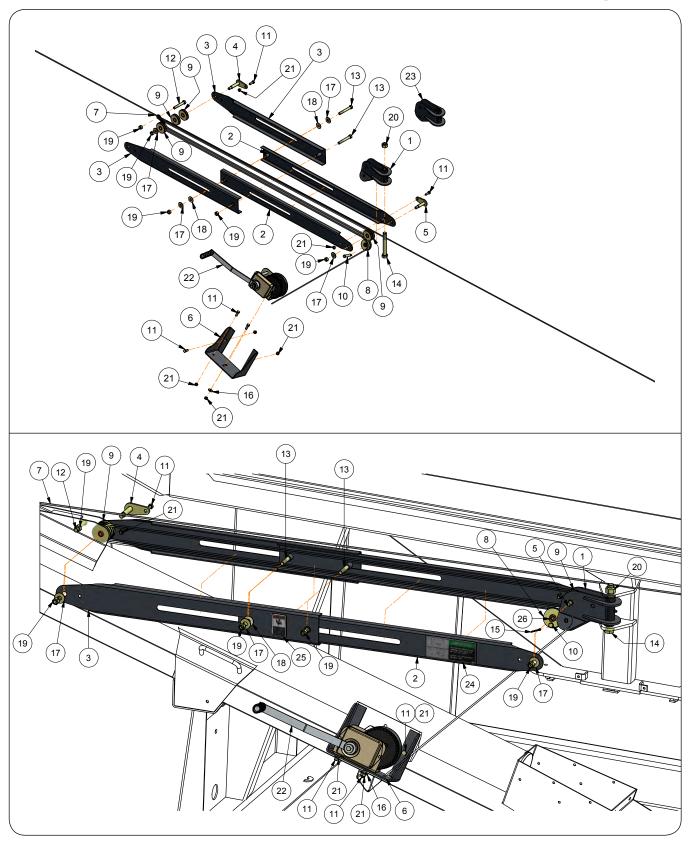
### Tarp & Ladder Components - Model 360 (continued)

| ITEM | PART NO.   | DESCRIPTION                                   | QTY | NOTES   |
|------|------------|---|-----|---------|
| 22   | 9500020    | Tarp Roll Return 80 1/2" w/Nylon Slide Boards | 2   |         |
| 33   | 9501550    | Cable Assembly for Roll Return                | -   |         |
| 34   | 91256      | Large Flange Screw 5/16"-18UNC x 3/4"         | 20  |         |
| 35   | 91257      | Large Flange Hex Nut 5/16"-18UNC              | 20  |         |
| 36   | 901185     | Poly Strip/Tarp Deflector                     | 2   |         |
| 37   | 2000184    | Roll Tube Weldment                            | 1   |         |
| 38   | 9500278    | Plug 2"`                                      | 1   |         |
| 39   | 281712B    | Tarp Bracket & U-Nut Assembly                 | 3   |         |
| 40   | 27152CG    | Ladder Weldment                               | 1   |         |
| 41   | 26496CG    | Plate - Ladder Holder                         | 1   |         |
| 42   | 26495CG    | Ladder - Lower Extension                      | 1   |         |
| 43   | 9390-099   | Capscrew 1/2"-13UNC x 1"                      | 2   | Grade 5 |
| 44   | 9405-088   | Flat Washer 1/2" USS                          | 2   |         |
| 45   | 9800       | Locknut 1/2"-13UNC                            | 2   |         |
| 46   | 9390-058   | Capscrew 3/8"-16UNC x 1 3/4"                  | 2   | Grade 5 |
| 47   | 903172-450 | Pan Head Phillips Screw 3/8"-16UNC x 4 1/2"   | 1   |         |

# SeedVeyor 260/360 — Parts

## Notes

## **Manual Winch Components**

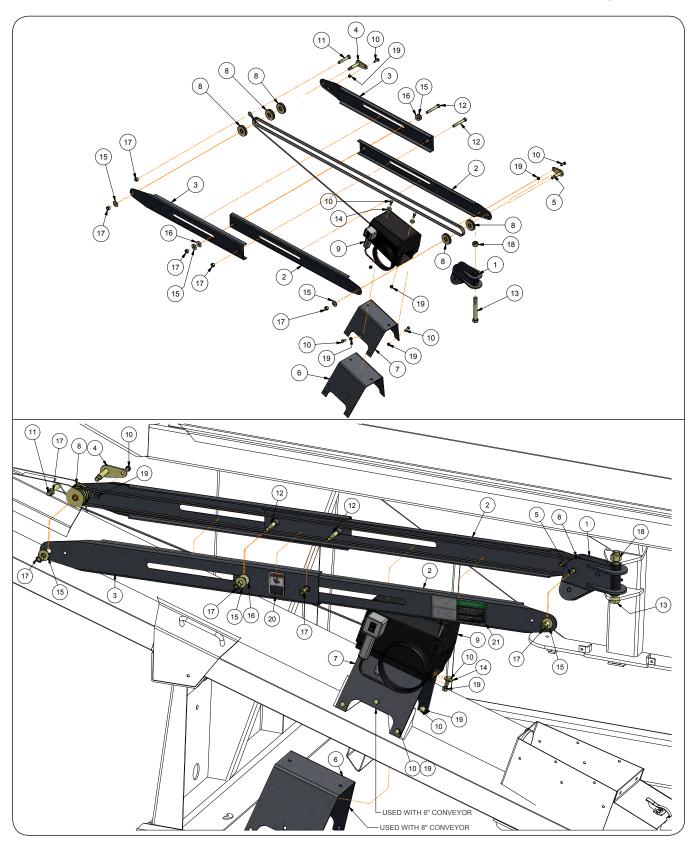


# SeedVeyor 260/360 — Parts

## **Manual Winch Components**

| ITEM | PART NO.     | DESCRIPTION   | QTY | NOTES   |
|------|--------------|---|-----|---------|
| 1    | 28308CG      | Pivot Weldment  | 1   |         |
| 2    | 28310CG      | Channel Weldment  | 2   |         |
| 3    | 28312CG      | Channel Weldment  | 2   |         |
| 4    | 28323        | Pin Weldment  | 1   |         |
| 5    | 28324        | Pin Weldment  | 1   |         |
| 6    | 28329CG      | Winch Holder Bracket  | 1   |         |
| 7    | 28424        | Winch Cable 405" Long   | 1   |         |
| 8    | 29675        | Pulley  | 1   |         |
| 9    | 29676        | Pulley  | 5   |         |
| 10   | 902280       | Clevis Pin 1/2" Dia. x 2 5/32"                                  | 1   |         |
| 11   | 9390-055     | Capscrew 3/8"-16UNC x 1"  | 6   | Grade 5 |
| 12   | 9390-107     | Capscrew 1/2"-13UNC x 3"  | 1   | Grade 5 |
| 13   | 9390-109     | Capscrew 1/2"-13UNC x 3 1/2"                                    | 2   | Grade 5 |
| 14   | 9390-157     | Capscrew 3/4"-10UNC x 6"  | 1   | Grade 5 |
| 15   | 9391-023     | Cotter Pin 1/8" Dia. x 1"                                       | 1   |         |
| 16   | 9405-076     | Flat Washer 3/8" USS  | 1   |         |
| 17   | 9405-088     | Flat Washer 1/2" USS  | 4   |         |
| 18   | 95236        | Nylon Flat Washer   | 2   |         |
| 19   | 9800         | Locknut 1/2"-13UNC  | 5   |         |
| 20   | 9802         | Locknut 3/4"-10UNC  | 1   |         |
| 21   | 9928         | Locknut 3/8"-16UNC  | 6   |         |
| 22   | TA0-904904-0 | Brake Winch   | 1   |         |
| 23   | 2000501CG    | Optional Pivot Weldment (for transporting conveyor to the rear) | -   |         |
| 24   | 9501338      | Decal, IMPORTANT (Cable Tension)                                | 2   |         |
| 25   | 97048        | Decal, WARNING (Pinch Point)                                    | 2   |         |
| 26   | 281369       | Bushing 3/4" OD   | 2   |         |

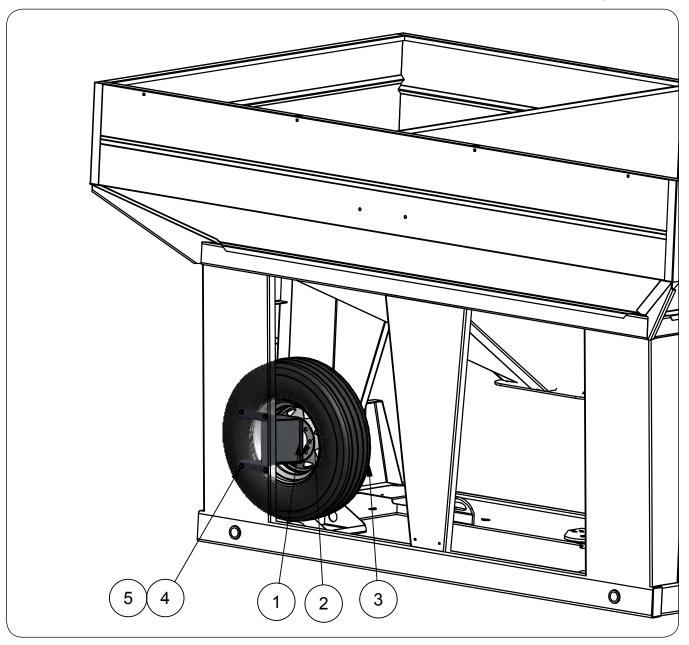
## **Electric Winch Components (Optional)**



## **Electric Winch Components (Optional)**

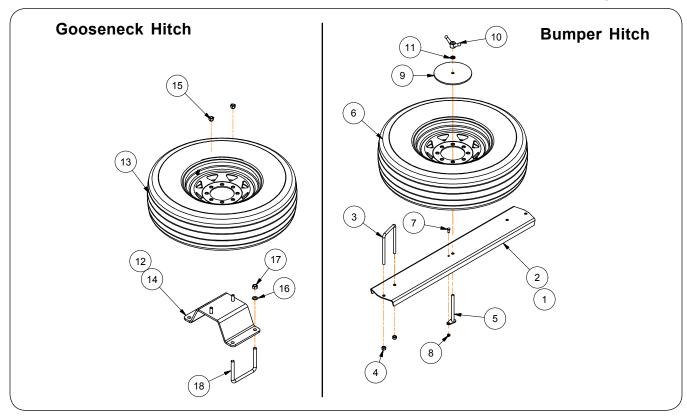
| ITEM | PART NO. | DESCRIPTION   | QTY. | NOTES                              |
|------|----------|---|------|------------------------------------|
|      | 28474    | Electric Winch Kit  | -    | Includes Items 6, 7, 9, 10, 14, 19 |
| 1    | 28308CG  | Pivot Weldment  | 1    |                                    |
| 2    | 28310CG  | Channel Weldment  | 2    |                                    |
| 3    | 28312CG  | Channel Weldment  | 2    |                                    |
| 4    | 28323    | Pin Weldment  | 1    |                                    |
| 5    | 28324    | Pin Weldment  | 1    |                                    |
| 6    | 28334CG  | Winch Bracket   | 1    | For 8" Tube Conveyor               |
| 7    | 28335CG  | Winch Bracket   | 1    | For 6" Tube Conveyor               |
| 8    | 29676    | Pulley  | 5    |                                    |
|      | 902171   | Electric Winch w/Brake                                      | 1    | Includes Switch Assembly           |
| 9    | 9500396  | Switch Assembly For Electric Winch/<br>Rocker Switch w/Cord | -    |                                    |
| 10   | 9390-055 | Capscrew 3/8"-16UNC x 1"                                    | 8    | Grade 5                            |
| 11   | 9390-107 | Capscrew 1/2"-13UNC x 3"                                    | 1    | Grade 5                            |
| 12   | 9390-109 | Capscrew 1/2"-13UNC x 3 1/2"                                | 2    | Grade 5                            |
| 13   | 9390-157 | Capscrew 3/4"-10UNC x 6"                                    | 1    | Grade 5                            |
| 14   | 9405-076 | Flat Washer 3/8" USS  | 2    |                                    |
| 15   | 9405-088 | Flat Washer 1/2" USS  | 4    |                                    |
| 16   | 95236    | Nylon Flat Washer   | 2    |                                    |
| 17   | 9800     | Locknut 1/2"-13UNC  | 5    |                                    |
| 18   | 9802     | Locknut 3/4"-10UNC  | 1    |                                    |
| 19   | 9928     | Locknut 3/8"-16UNC  | 8    |                                    |
| 20   | 97048    | Decal, WARNING (Pinch Point)                                | 2    |                                    |
| 21   | 9501338  | Decal, IMPORTANT (Cable Tension)                            | 2    |                                    |

## **Optional Spare Tire**



| ITEM | PART NO. | DESCRIPTION                        | QTY. | NOTES |
|------|----------|------------------------------------|------|-------|
|      | 28963    | Spare Tire Kit w/Tire              | -    |       |
| 1    | 28960CG  | Spare Tire Bracket Weldment        | 1    |       |
| 2    | 901669   | Tapered Nut 9/16"-18UNC            | 2    |       |
| 3    | 902702   | Wheel/Tire 6 x 16 - ST235/85R16    | 1    |       |
| 4    | 91262    | Large Flange Screw 3/8"-16UNC x 1" | 4    |       |
| 5    | 91263    | Large Flange Nut 3/8"-16UNC        | 4    |       |

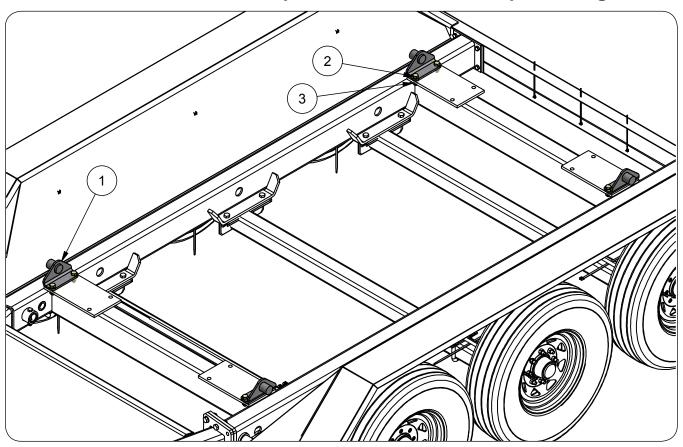
## **Optional Spare Tire**



| ITEM | PART NO. | DESCRIPTION                               | QTY | NOTES                        |
|------|----------|---|-----|------------------------------|
| 1    | 2000939B | Spare Tire Assembly for Bumper Pull Hitch | 1   | Includes Items 2 through 11  |
| 2    | 29736B   | Spare Tire Plate                          | 1   |                              |
| 3    | 91323    | U-bolt 1/2"-13UNC x 7 1/8"                | 2   |                              |
| 4    | 9800     | Locknut 1/2"-13UNC                        | 4   |                              |
| 5    | 29751    | Pin Weldment 1/2" Dia. x 6 5/8"           | 1   |                              |
| 6    | 902702   | Wheel/Tire 6x16 / ST235/85R16             | 1   | Load Range E                 |
| 7    | 9390-028 | Capscrew 5/16"-18UNC x 3/4"               | 1   | Grade 5                      |
| 8    | 9807     | Locknut 5/16"-18UNC                       | 1   |                              |
| 9    | 2001047B | Washer                                    | 1   |                              |
| 10   | 9500475  | Handle Nut 1/2"-13UNC                     | 1   |                              |
| 11   | TA500470 | External Star Washer                      | 1   |                              |
| 12   | 2000940B | Spare Tire Assembly For Gooseneck Hitch   | 1   | Includes Items 13 through 18 |
| 13   | 902702   | Wheel/Tire 6x16 ST235/85R16               | 1   | Load Range E                 |
| 14   | 2001045B | Bracket Weldment                          | 1   |                              |
| 15   | 901669   | Tapered Nut 9/16"-18UNC                   | 2   |                              |
| 16   | 903108   | Flat Washer 5/8" USS                      | 4   |                              |
| 17   | 9801     | Locknut 5/8"-11UNC                        | 4   |                              |
| 18   | 93419    | U-Bolt 5/8"-11UNC x 5 1/4"                | 2   |                              |

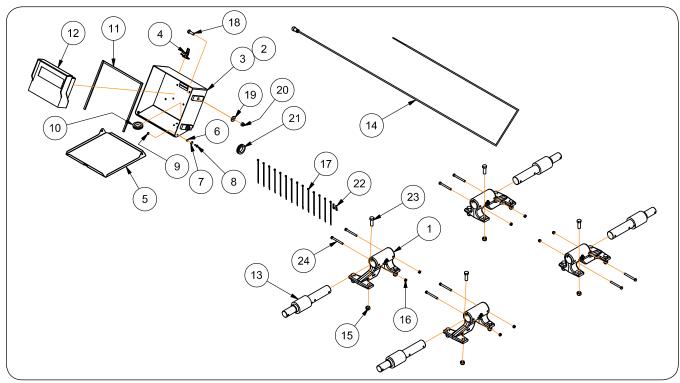
# SeedVeyor 260/360 — Parts

## **Non-Scale Components**



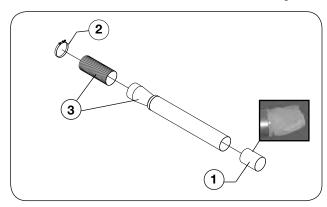
| ITEM | PART NO. | DESCRIPTION                  | QTY. | NOTES |
|------|----------|------------------------------|------|-------|
|      | 27644CG  | Non-Scale Bundle             | 1    |       |
| 1    | 24931CG  | Bracket Weldment             | 4    |       |
| 2    | 9390-123 | Capscrew 5/8"-11UNC x 1 3/4" | 8    |       |
| 3    | 9801     | Locknut 5/8"-11UNC           | 8    |       |

## **Scale Components (Optional)**

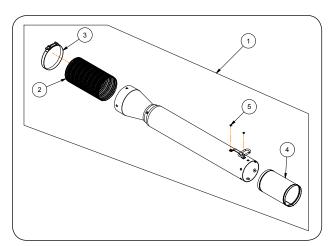


| ITEM PART NO. DESCRIPTI |          | DESCRIPTION                  | QTY | NOTES   |
|-------------------------|----------|------------------------------|-----|---------|
|                         | 26858    | Scale Components             | -   |         |
| 1                       | 29477CG  | Scale Bracket                | 4   |         |
| 2                       | 28945CG  | Scale Enclosure w/Monitor    | 1   |         |
| 3                       | 28944CG  | Scale Enclosure Weldment     | 1   |         |
| 4                       | 9220     | Draw Latch                   | 1   |         |
| 5                       | 28943CG  | Cover                        | 1   |         |
| 6                       | 22018    | Bushing                      | 2   |         |
| 7                       | 9405-064 | Flat Washer 1/4" USS         | 2   |         |
| 8                       | 9390-003 | Capscrew 1/4"-20UNC x 3/4 "  | 2   | Grade 5 |
| 9                       | 9936     | Locknut 1/4"-20UNC           | 2   |         |
| 10                      | 900513   | Rubber Grommet 2" Dia.       | 1   |         |
| 11                      | 900152   | Foam Strip                   | 3   |         |
| 12                      | 902062   | Scale Indicator              | 1   |         |
| 13                      | 902063   | Load Cell                    | 4   |         |
| 14                      | 902087   | Power Cord                   | 1   |         |
| 15                      | 9801     | Locknut 5/8"-11UNC           | 8   |         |
| 16                      | 9928     | Locknut 3/8"-16UNC           | 8   |         |
| 17                      | 9000106  | Cable Tie                    | 14  |         |
| 18                      | 9390-103 | Capscrew 1/2"-13UNC x 2"     | 2   | Grade 5 |
| 19                      | 9405-088 | Flat Washer 1/2" USS         | 2   |         |
| 20                      | 9800     | Locknut 1/2"-13UNC           | 2   |         |
| 21                      | 900513   | Rubber Grommet 2" Dia.       | 1   |         |
| 22                      | 901907   | Ring Terminal 5/16"          | 2   |         |
| 23                      | 9390-124 | Capscrew 5/8"-11UNC x 2"     | 16  |         |
| 24                      | 9390-066 | Capscrew 3/8"-16UNC x 3 3/4" | 8   |         |

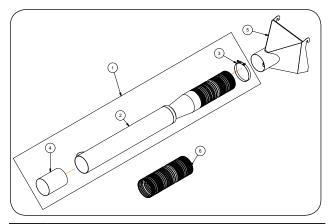
## **Optional Telescopic Spout Components**



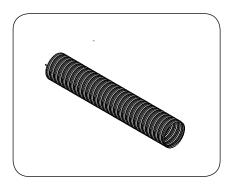
|      | Optional 6" 3-Stage Telescopic Spout for 6" Conveyor |  |     |  |  |  |
|------|--|--|-----|--|--|--|
| ITEM | PART NO.   | DESCRIPTION  | QTY |  |  |  |
|      | 22578  | 3-Stage 6" Telescopic Spout<br>Assembly (6' to 10' w/Sock) | 1   |  |  |  |
| 1    | 22577  | Sock 5 3/8" Dia. x 8" Long                                 | 1   |  |  |  |
| 2    | 98060  | Clamp 6" Dia.  | 1   |  |  |  |
| 3    | 96855  | Telescopic Spout   | 1   |  |  |  |



| Optional 8" 3-Stage Telescopic Spout<br>for 8" Conveyor |          |   |     |  |
|---|----------|---|-----|--|
| TEM   | PART NO. | DESCRIPTION   | QTY |  |
| 1   | 29782CG  | 3-Stage 8" Telescopic Spout<br>Asy (6 1/2' to 11' w/Sock)<br>(Includes Items 2 through 5) | 1   |  |
| 2   | 25752    | Flexible Spout  | 1   |  |
| 3   | 9500171  | Hose Clamp  | 1   |  |
| 4   | 9500173  | Vinyl Sock  | 1   |  |
| 5   | 9500175  | Drive Rivet 3/16D x 1/4   | 17  |  |

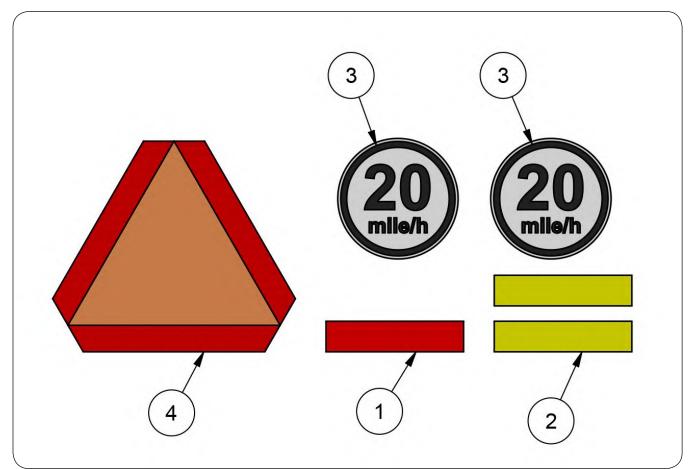


| Optional 6" 3-Stage Telescopic Spout for 8" Conveyor |          |   |     |  |  |
|--|----------|---|-----|--|--|
| ITEM   | PART NO. | DESCRIPTION                                 | QTY |  |  |
|  | 28515    | Telescopic Spout 6'-10' Bundle              |     |  |  |
| 1  | 22578    | 6" Conveyor Telescopic Spout<br>6'-10' ONLY | 1   |  |  |
| 2  | 96855    | Telescopic Spout                            | 1   |  |  |
| 3  | 98060    | Clamp/T-Bolt                                | 1   |  |  |
| 4  | 22577    | Sock Spout Extension                        | 1   |  |  |
| 5  | 26290CG  | Spout Weldment                              | 1   |  |  |
| 6  | 21759    | Flexible Spout 6" OD x 18"                  | 1   |  |  |



| Optional 4' Flexible Spouts |           |                              |  |  |  |  |
|-----------------------------|-----------|------------------------------|--|--|--|--|
| ITEM PART DESCRIPTION       |           |                              |  |  |  |  |
|                             | TAAU14170 | Flex Spout 6" I.D. x 4' Long |  |  |  |  |
|                             | 901544    | Flex Spout 8" I.D. x 4' Long |  |  |  |  |

## AG Package # 2010513 (Option) - SMV, SIS Decals, & Reflectors



| ITEM | PART NO. | DESCRIPTION           | QTY. | NOTES |
|------|----------|-----------------------|------|-------|
| 1    | 9003126  | Reflector, RED        | 1    |       |
| 2    | 9003127  | Reflector, AMBER      | 2    |       |
| 3    | 9008714  | Decal, Rear SIS 20MPH | 2    |       |
| 4    | 97530    | Decal, SMV Emblem     | 1    |       |



