



KB Killbros Bulk Seed Handling

SeedVeyor® Bulk Box Carrier
Model 102

Part No. 2000829

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) side of the machine are determined by standing behind the machine and facing in the direction of travel.



Product Information

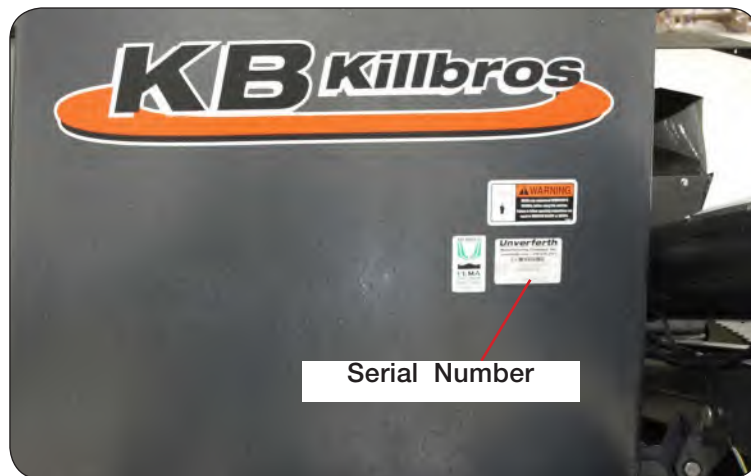
All products manufactured by Unverferth Mfg. Co., Inc. are warranted to be free from material and workmanship defects for one full year from time of consumer delivery. Your local dealer will gladly assist you with any warranty questions.

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.



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.



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

Safety Decals

⚠ WARNING

- REPLACE LOST, DAMAGED, PAINTED, OR UNREADABLE DECALS IMMEDIATELY. IF PARTS THAT HAVE DECALS ARE REPLACED, ALSO MAKE SURE TO INSTALL NEW DECALS. THESE DECALS INFORM AND REMIND THE OPERATOR WITH OPERATIONAL INFORMATION AND SAFETY MESSAGES.



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 key before servicing the SeedVeyor tender.



- Avoid personal attire such as loose fitting clothing, shoestrings, drawstrings, pants cuffs, long hair, etc., that may become entangled in moving parts.

- Never enter a Seed Tender containing grain. Flowing grain traps and suffocates victims in seconds.

- Do not allow anyone to ride on the implement. Make sure everyone is clear before operating machine or towing vehicle.



Before Servicing

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



- Ensure that all applicable safety decals are installed and legible.

- 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 work place practices are followed. There is restricted mobility and limited exit paths when working inside the implement.

- 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.

Before Operating

- Do not stand between the towing vehicle and implement during hitching.

- Always make certain everyone and everything is clear of the machine before beginning operation.

- Verify that all safety shields are in place and properly secured.

- 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 implement 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.

- Explosive gas from battery can cause fires and severe acid burns. Charge battery only in a well ventilated area. Keep sources of ignition away.

- Seed being transported may contain seed treatment. Read and follow all requirements for personal protective equipment and first aid as outlined on seed tags.

Before Transporting

- Secure transport chains to the towing vehicle before transporting. **DO NOT** transport without chains.

- Install transport locks before transporting.

- Check for proper functioning of all available transport lights. Make sure that all reflectors are clean and in place on machine.

During Transport

- Comply with all laws governing highway safety when moving machinery.

- Use transport lights as required by all 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 the implement should never exceed 20 mph. Do not exceed 10 mph during off-highway travel.

- 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.

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.



Notes

Section II Set Up

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FOR TORQUE INFORMATION, PLEASE REFER TO THE MAINTENANCE SECTION
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Pre-Delivery Checklist

After the SeedVeyor tender has been completely assembled, use the following checklist and inspect the implement. 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 ft.-lbs.
- 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.

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.

⚠ WARNING

- **READ AND UNDERSTAND SAFETY RULES BEFORE OPERATING OR SERVICING THIS MACHINE. REVIEW “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 DOORS ARE IN PLACE AND SECURELY FASTENED BEFORE OPERATING THE UNIT.**

- **KEEP HANDS CLEAR OF PINCH POINT AREAS.**

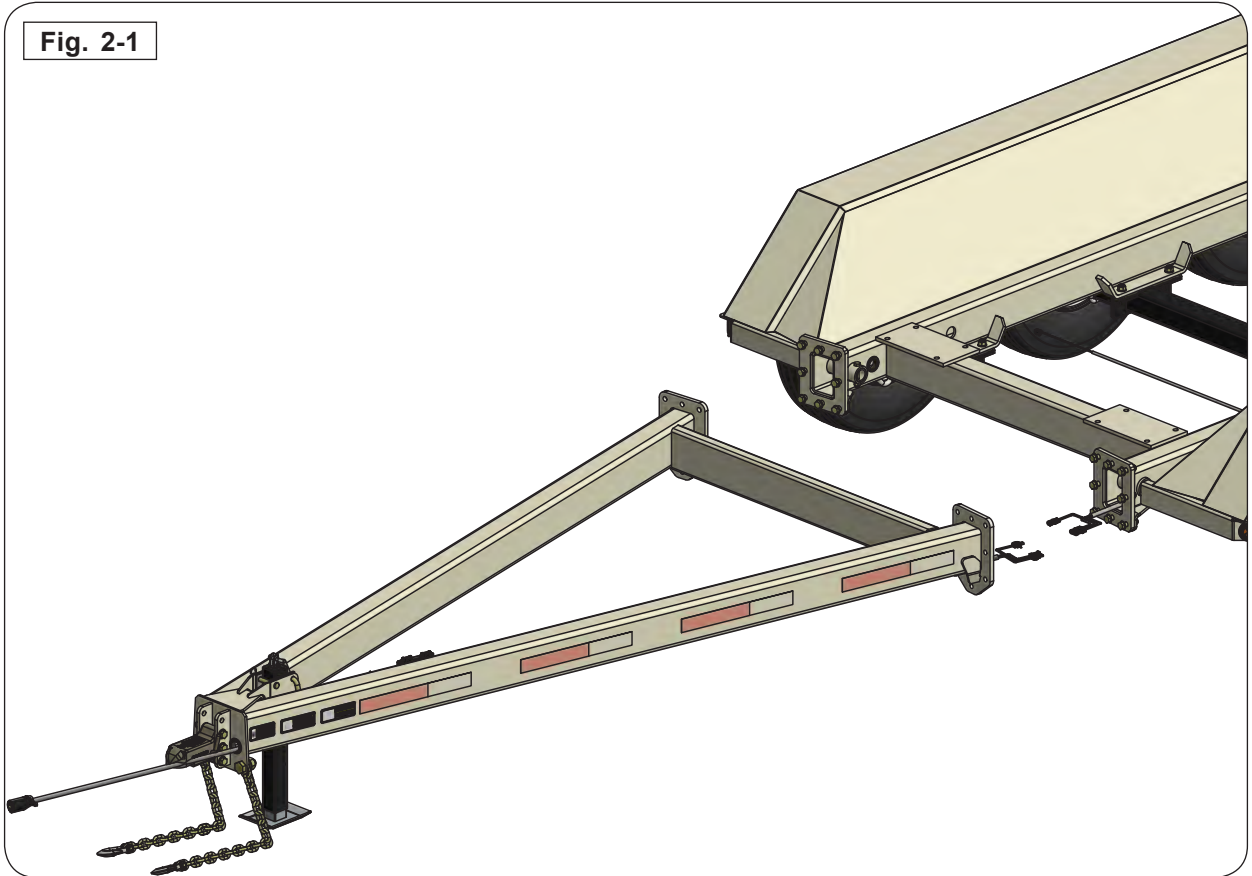
- **FALLING OBJECTS CAN CAUSE SERIOUS INJURY OR DEATH. DO NOT WORK UNDER THE MACHINE AT ANY TIME WHILE BEING HOISTED. BE SURE ALL LIFTING DEVICES AND SUPPORTS ARE RATED FOR THE LOADS BEING HOISTED. THESE ASSEMBLY INSTRUCTIONS WILL REQUIRE SAFE LIFTING DEVICES UP TO 1,000 LBS. SPECIFIC LOAD RATINGS FOR 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.**

Assemble Hitch to Undercarriage

1. If the seed tender was shipped with a hitch installed, torque 5/8"-11UNC retaining hardware to 120-135 ft.-lbs. If it was shipped without a hitch installed, proceed to step 2.
2. Place jackstand rated for minimum 1,000 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 in line with the undercarriage.
3. 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 to undercarriage using capscrews 5/8"-11UNC x 2 1/4" (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.
5. Verify the function of the seed tender lighting. See Maintenance section for the schematic, if needed.

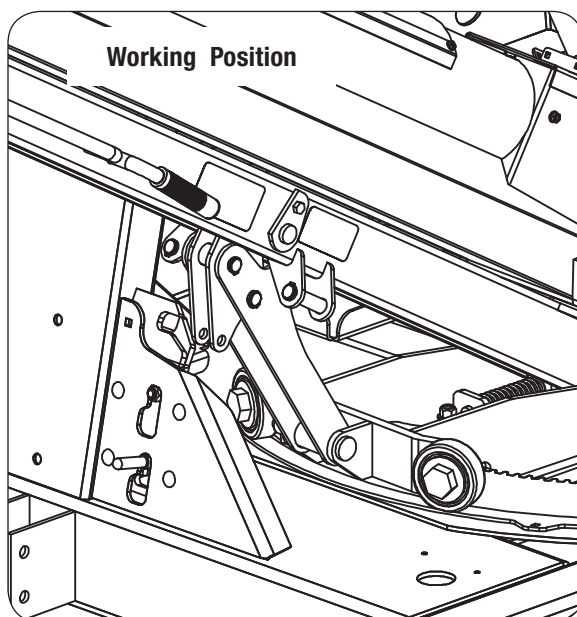
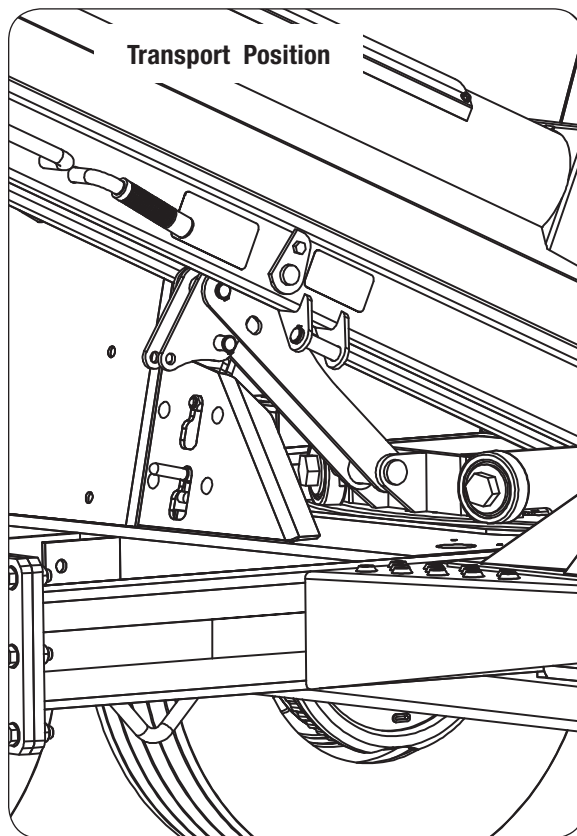
Fig. 2-1



Raising Conveyor/Auger into Working Position

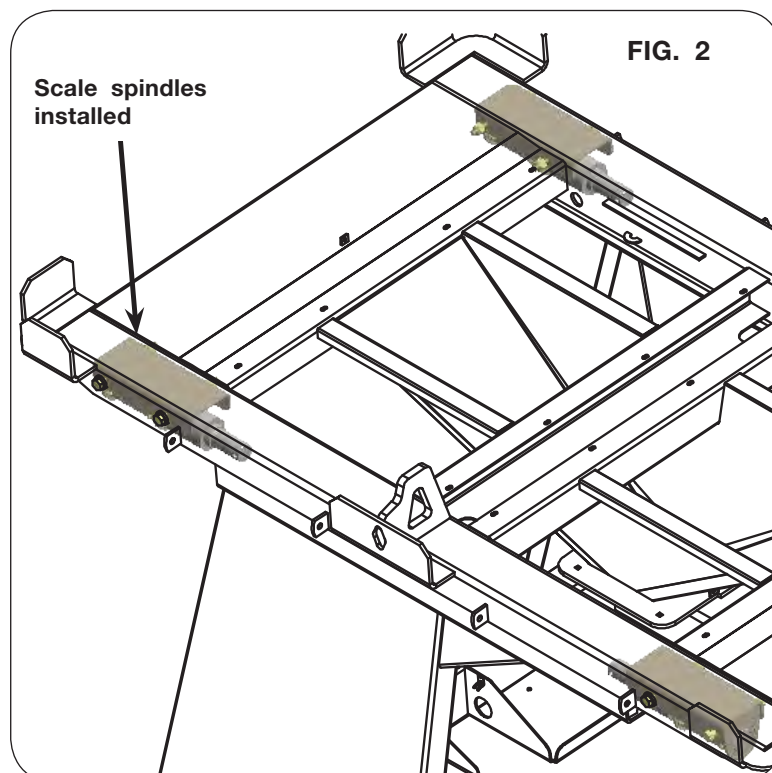
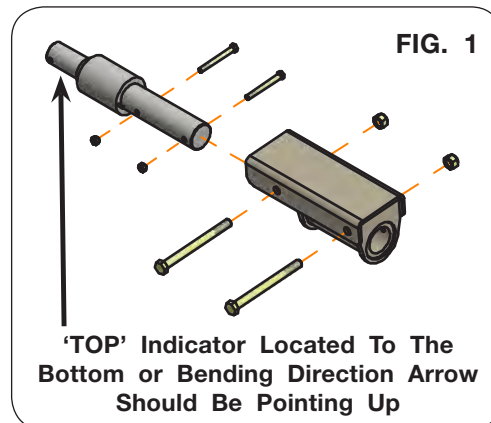
Unit is shipped with the conveyor or auger in the lowered position. If the unit is not equipped with the optional electric lift/lower, it will be necessary to raise the conveyor/auger to the upper fixed position.

1. Swing the conveyor/auger out from the transport position, and latch to prevent the conveyor/auger from swinging side-to-side.
2. Remove snap ring from the 3/4" pin and remove the pin.
3. Using a safe lifting device rated for 500 lbs., lift the end of the conveyor/auger until the holes line up.
4. Install the pin and snap ring to secure in place.
5. The transport latches need to be raised.
6. Remove the 3/8" bolts and flange nuts.
7. Move the latch assembly to the raised position.
8. Repeat so that both the front and rear latches are in the raised position.
9. Slotted holes are provided in the latch assembly. Align the latch with the pin on the conveyor/auger arm so the conveyor/auger swings in place easily.
10. Tighten and torque the 3/8" bolts and flange nuts to secure the latch assemblies in place.



Optional Scale Package (#2000621)

1. Assemble the weigh bars (902063) to the scale brackets using 3/8" bolts and locknuts. The weigh bars must be assembled so the 'TOP' indicator on the weigh bar is located to the bottom of the bracket or rotate the load cell so the "bending direction" decal on the end of the bar points up.
2. Using a safe lifting device rated for 1,000 lbs., support one side of the upper platform.
3. Remove the 5/8" bolts holding the stationary bracket in place.
4. Create four scale sub-assemblies by assembling the scale brackets with weigh bars (901173) making sure the 'TOP' indicator is located to the bottom of the bracket or rotate the load cell so the "bending direction" decal on the end of the bar points up, with 3/8"-16UNC x 3 1/2" capscrews (9390-065), and 3/8"-16UNC locknuts (9928).
5. Remove the stationary bracket.
6. Install the scale assemblies onto the unit in place of the stationary brackets as shown in Fig. 2. Reinstall the 5/8" bolts and locknuts, and tighten the bolts.
7. Repeat this process for all four corners.



Optional Scale Package (#2000621) (continued)

8. Remove the safe lifting device from the center plates on the upper platform.
9. Route the weigh bar cables along the inside edge of the box and fasten using the cable ties (9000106). Be certain cables will not get pinched or worn.
10. Assemble the scale enclosure to the front of the box using two 1/2"-13UNC x 1 1/2" capscrews (9390-101) and locknuts (9800). (Fig. 3)

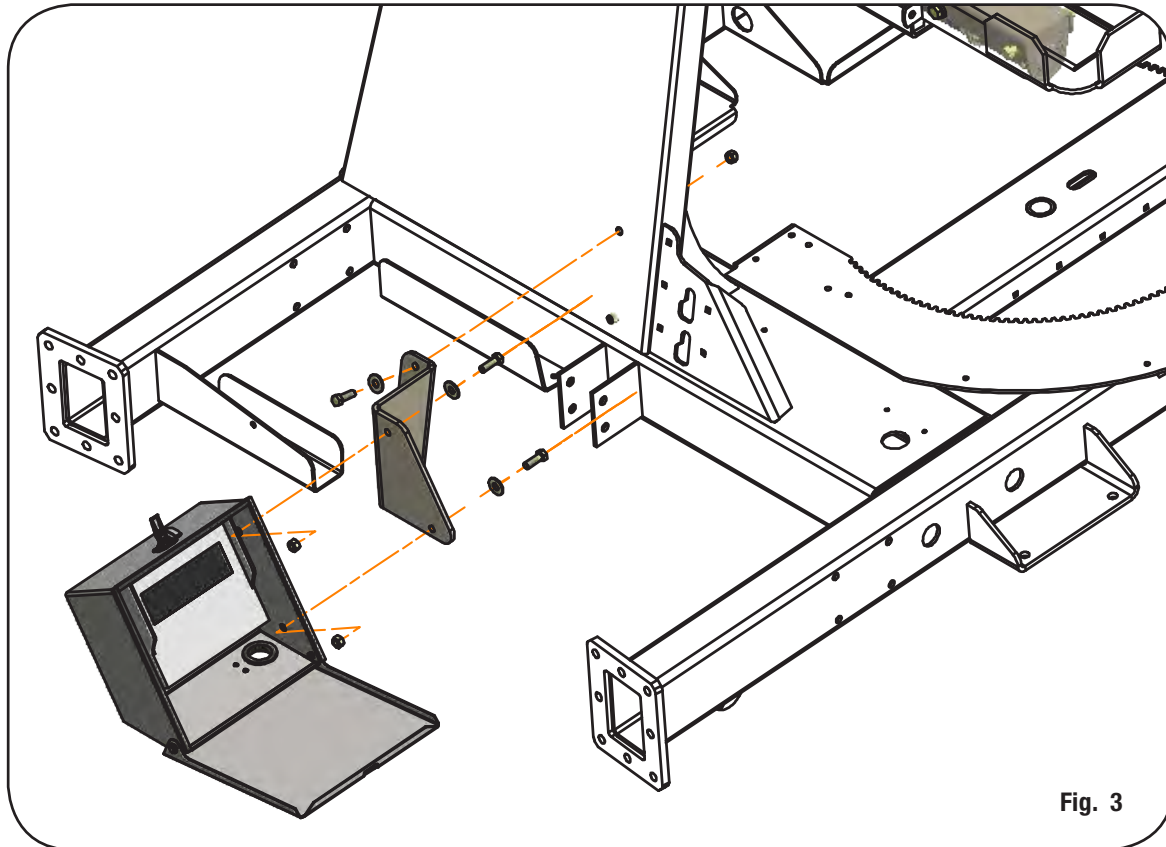
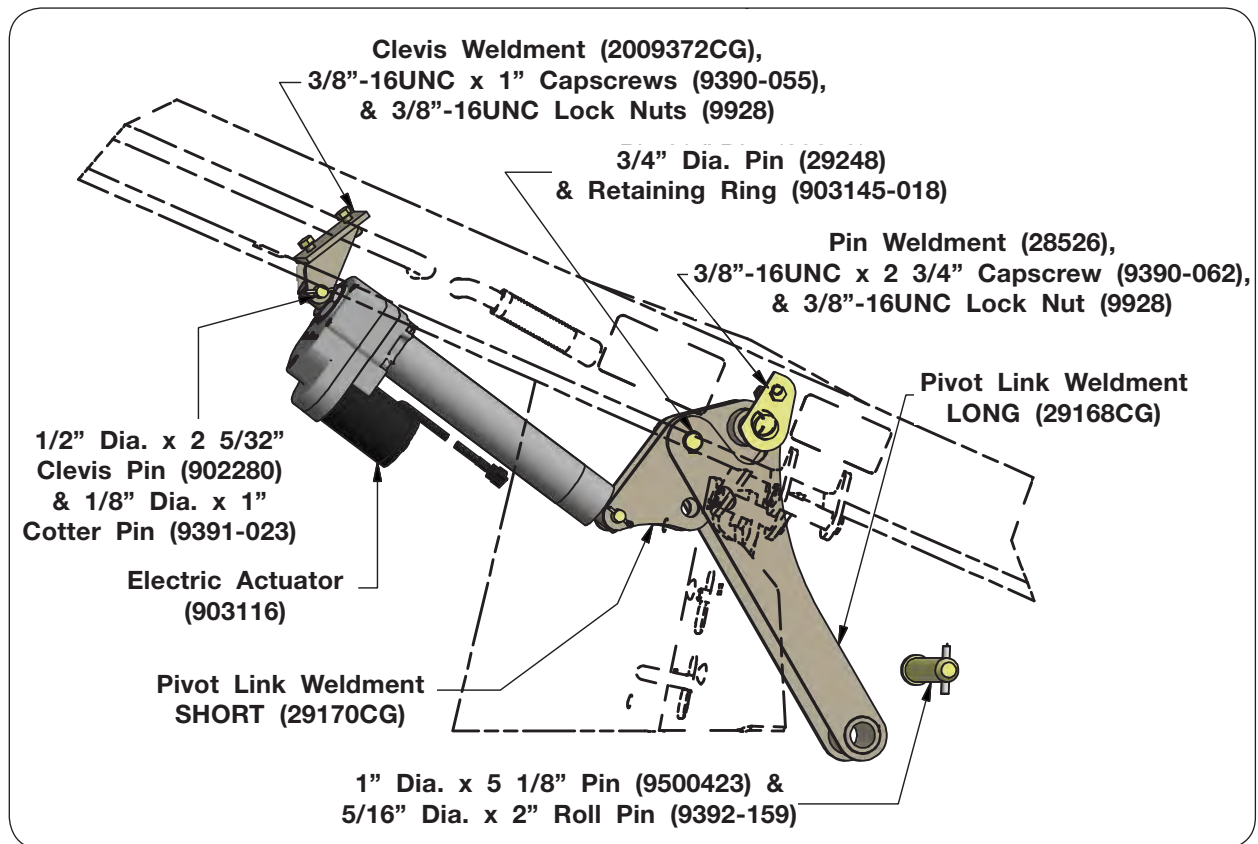


Fig. 3



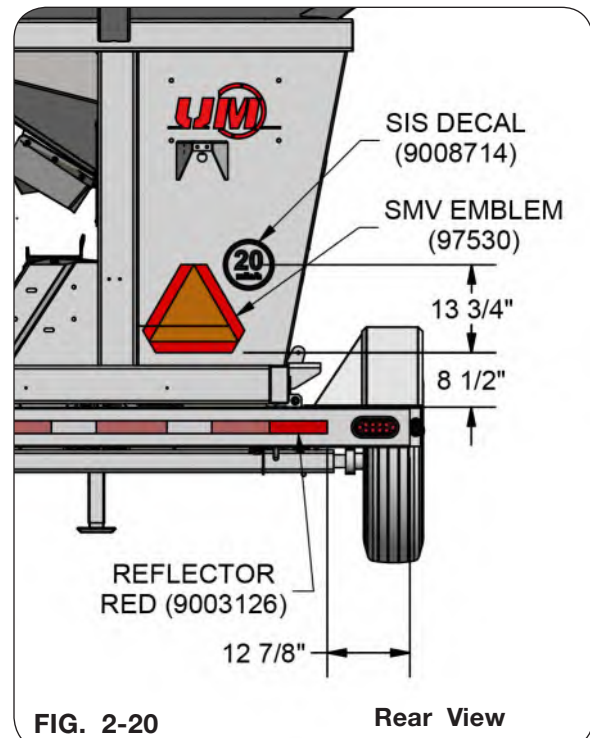
Optional Electric Raise/Lower for Conveyor/Auger

1. Attach the clevis weldment 2009372CG to the conveyor/auger arm using 3/8" bolts and locknuts.
2. Attach the electric actuator to the support arm and lift link using the clevis pins and cotter pins. Orient the actuator as shown.
3. Replace the current wire harness with the new harness supplied in the kit.
4. Route the harness to the electric actuator and make connections.



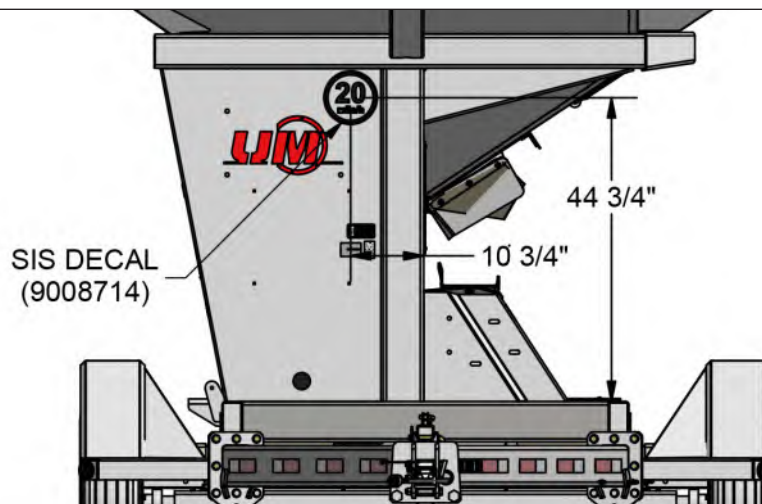
Optional AG Decal Package Placement

1. Center and attach the SMV Emblem (95730) to the rear of the unit 8 1/2" from the frame. (FIG. 2-20)
2. Attach the SIS decal (9008714) to the rear of the unit 13 3/4" from the bottom of the SMV Emblem (95730). (FIG. 2-20)
3. Attach the red reflector (9003126) 12 7/8" from the right-hand side of the bumper. (FIG. 2-20)



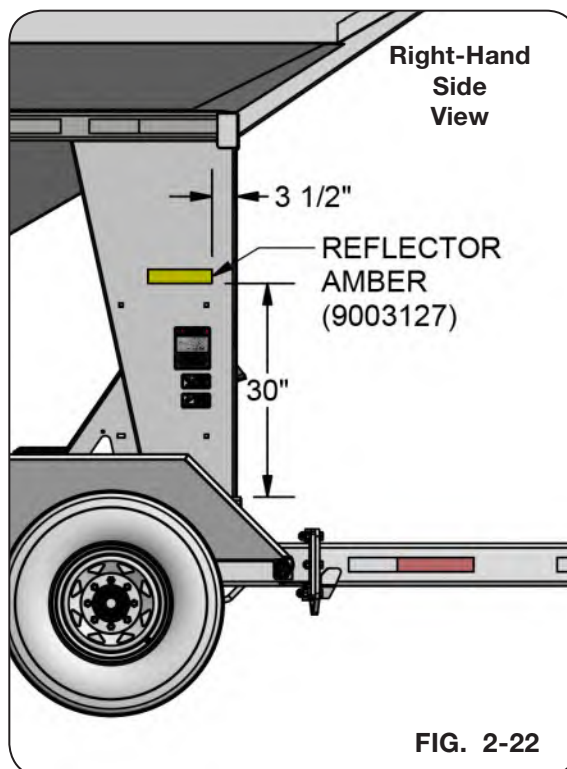
4. Attach the SIS decal (9008714) to the front of the unit 44 3/4" from the frame and 10 3/4" from the side of the panel as shown in FIG. 2-21.

Front View

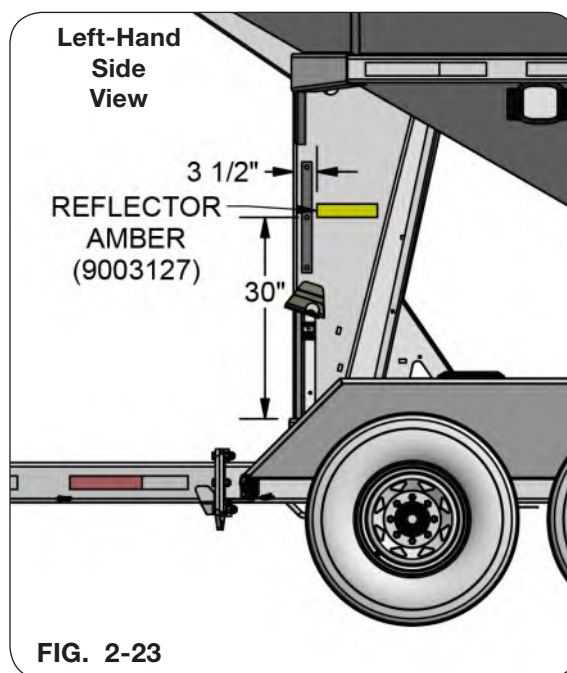


Optional AG Decal Package Placement (continued)

5. Place the amber reflector (9003127) 4" down on the frame on the right-hand side of the unit. (FIG. 2-22)



6. Place the amber reflector (9003127) 4" down on the frame on the left-hand side of the unit. (FIG. 2-23)



Notes

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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 transport 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 102

Gross Vehicle Weight Rating is 8,500 lbs.

Loaded tongue weight is 700 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 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.

CAUTION

- **IMPROPERLY TORQUED WHEEL NUTS/BOLTS CAN CAUSE A LOSS OF IMPLEMENT CONTROL AND MACHINE DAMAGE. WHEEL NUTS/BOLTS MUST BE CHECKED REGULARLY. 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

WARNING

- **DO NOT STAND BETWEEN THE IMPLEMENT AND THE TOWING VEHICLE WHEN HITCHING.**

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.

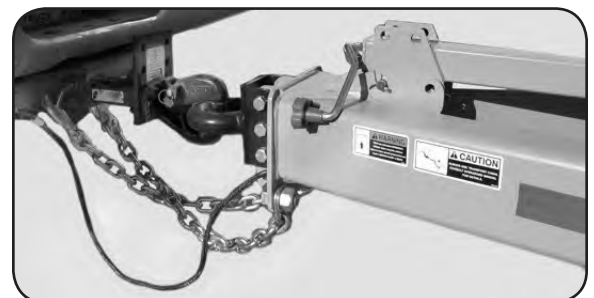
Transport Chains

CAUTION

- **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.



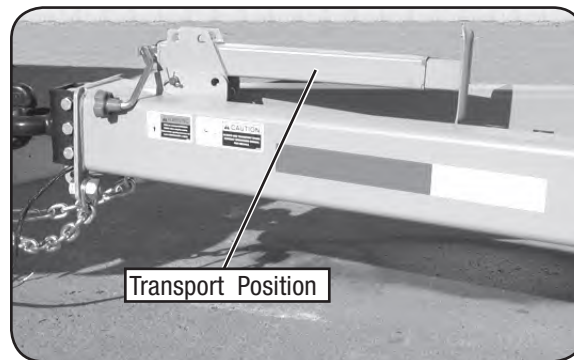
WARNING

- ALWAYS TRAVEL AT A SPEED THAT PERMITS COMPLETE CONTROL OF THE TOWING VEHICLE AND IMPLEMENT.
- USE ACCESSORY LIGHTING OR TRANSPORT LIGHTS AS REQUIRED BY ALL LAWS TO ADEQUATELY WARN OPERATORS OF OTHER VEHICLES.

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 carrier is higher than a typical undercarriage. Use extreme caution when making turns and entering/exiting fields.

Comply with all 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. 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.

Power Pak Warranty

For general maintenance and servicing of power pak unit.

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

US 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 HP GX160 UT2RXE2

Engine Operation

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.*

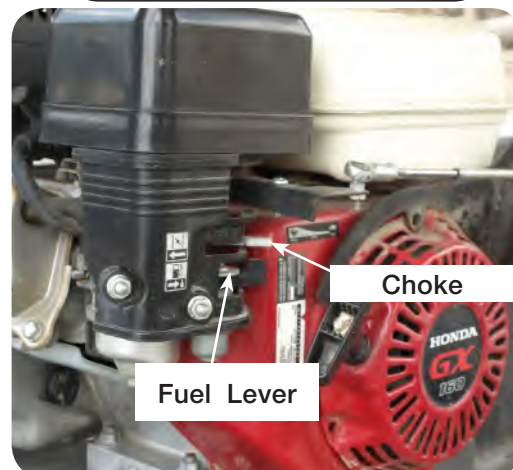
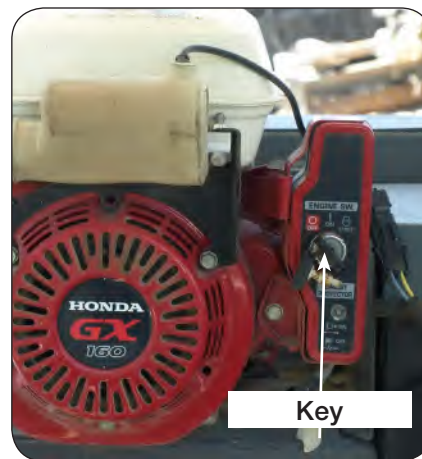
NOTE: Installation instructions for the spark arrestor can be found in the Honda engine manual.

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 Lowering Conveyor or Auger

If equipped with electric lift/lower, the conveyor/auger can be raised by first pivoting the conveyor/auger out of the transport position, and then actuating the raise/lower button on the wired switch.



Pivoting Conveyor or Auger Side-to-Side

Unlatch the locking arm by pressing down and sliding the latch into the unlocked position. Turn the pivot latch handle down and pull the conveyor/auger out away from the box to pivot.

IMPORTANT

- Do not raise the conveyor/auger arm until it has been moved out of the latch position.

Conveyor/auger pivot can be left to swing freely, or it can be latched in place at various points along the track.

CAUTION

- WHEN THE SEEDVEYOR TENDER IS PARKED ON AN INCLINE, THE CONVEYOR/AUGER MAY PIVOT AS SOON AS THE LATCH IS RELEASED. INADVERTANT MOVEMENT OF THE CONVEYOR/AUGER MAY CAUSE PERSONAL INJURY.



Filling Planter or Drill

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 button on the hand-held controller.

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) on the SeedVeyor 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/auger 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

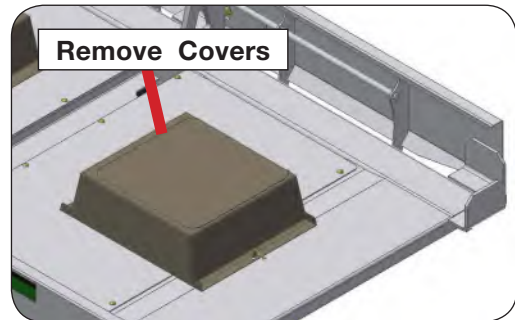
- *Do not let the telescoping spout rest in the bottom of the seed box. Seed will rapidly build up and plug the conveyor, resulting in potential damage to the belt.*

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.

Loading Boxes Onto SeedVeyor

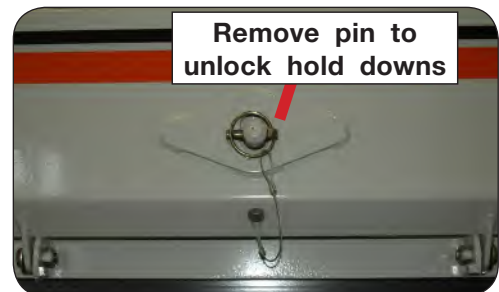
1. Remove covers from the SeedVeyor box chute by removing the pin holding the cover in place. Place the pin back into the bracket.



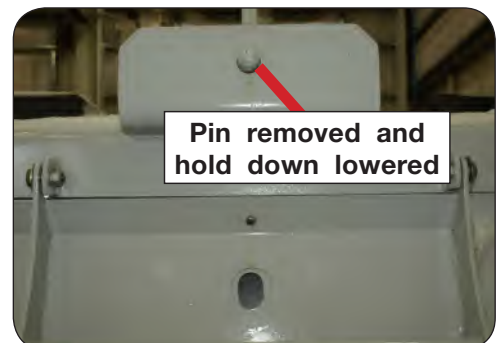
2. Locate covers in storage position in front of the front standard, securing with provided bungee cord.



3. Remove the pin on the box hold downs to unlock.



4. Lift boxes into position on platform.



5. With boxes in position, push all box hold downs into position and replace the pin to lock into place.

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

1. 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

1. 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.
3. 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 Setup menu and make needed changes.

1. Access the Setup 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 | Meaning |
|---------|--|
| HELLO | 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 SeedVeyor 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.

1. 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
3. 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.

Notes

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| Lubrication - Auger U-Joint..... | 4-2 |
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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 and 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.

IMPORTANT

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

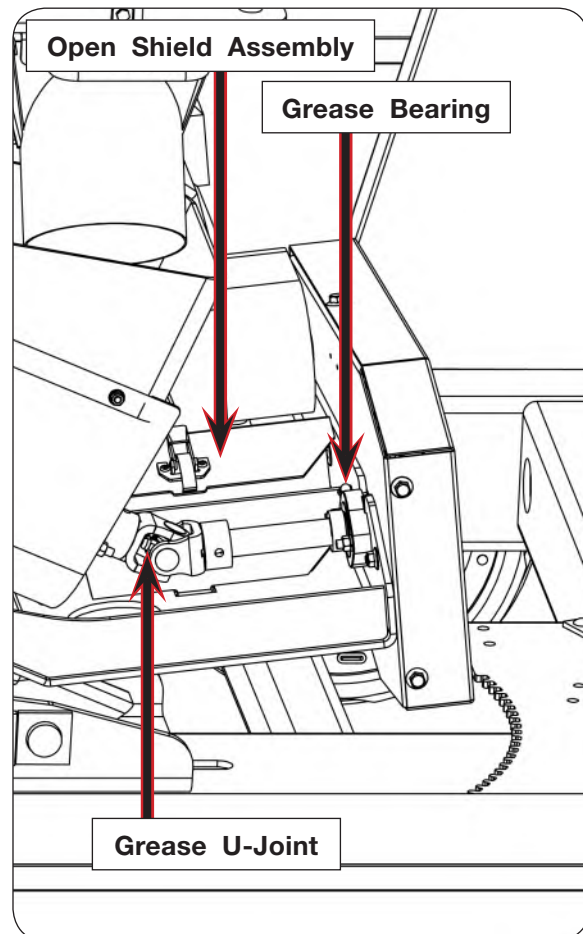
NOTE: Excessive lubrication of these bearings will result in premature failure.

Auger U-Joint

WARNING

- 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 UNIT.

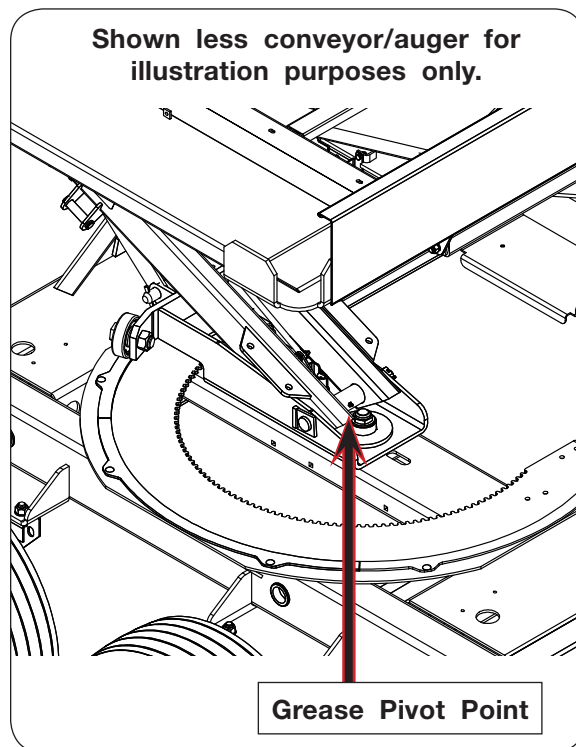
Lubricate the U-joint every 50 hours of operation and at the end of each season before storage.



Lubrication (continued)

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

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.

WARNING

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

Belt Tension

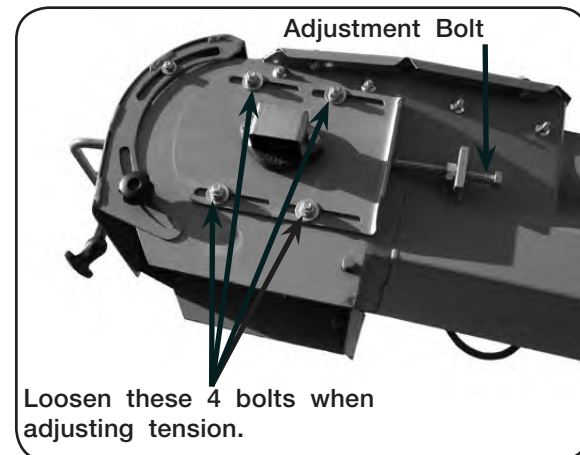
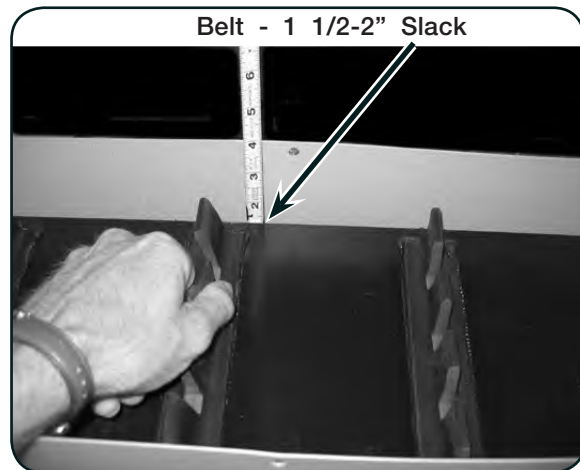
Belt tension is inspected by removing the lower cover panel from the conveyor, and gently pulling on the conveyor belt. The belt should have approximately 1 1/2" - 2" of slack at the center.

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)

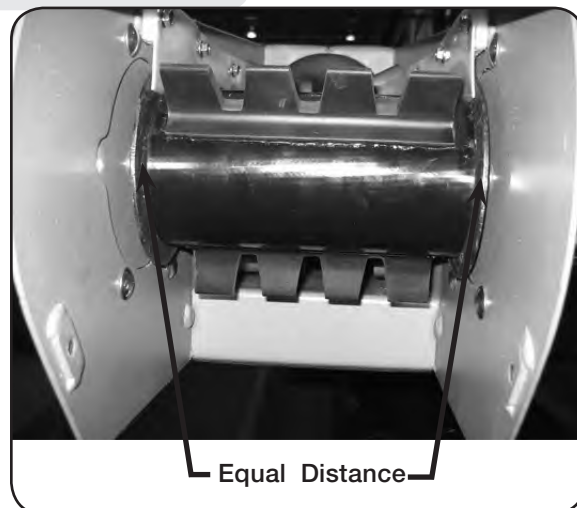
Belt Tracking

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 lift. 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.

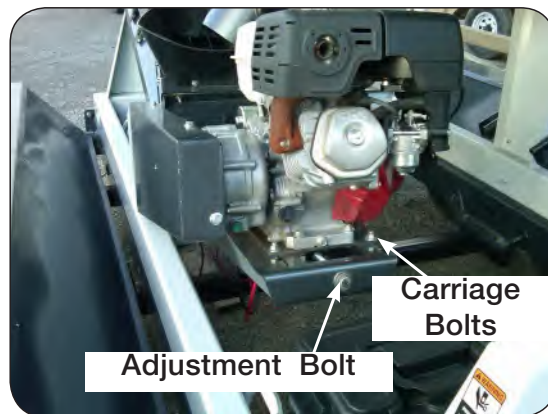
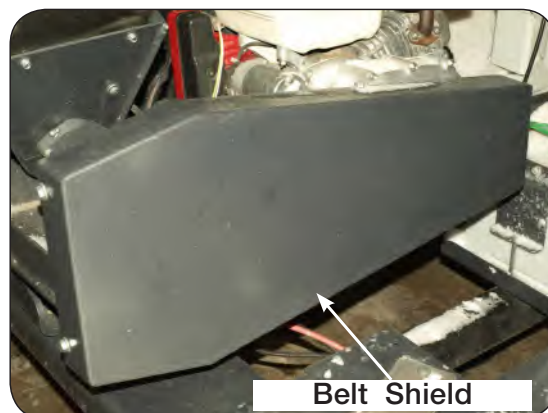
Adjust by loosening, **DO NOT REMOVE**, the four bolts on the side of the conveyor. Operate the conveyor at a slow speed, and tighten or loosen the adjustment bolt until the belt is running in the center of the pulley.

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



Adjusting Belt Tension

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.
6. 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.

⚠ 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).

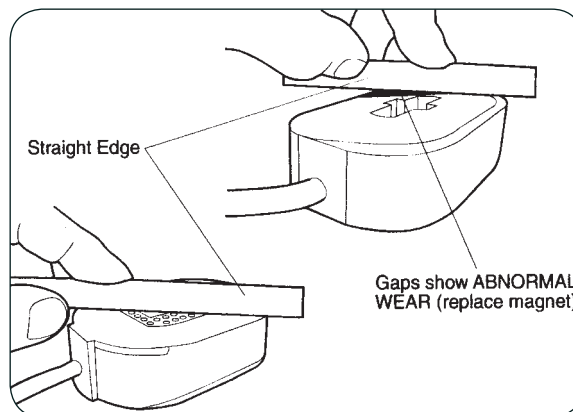
Brake Lubrication

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 refaced when replacing magnets. Magnets should also be replaced in pairs - both sides of an axle.

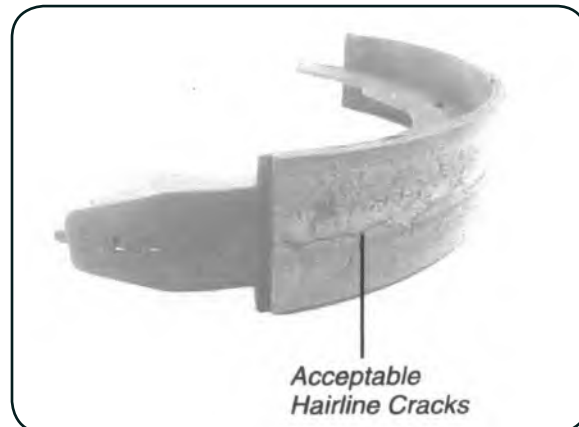


Brake Cleaning and Inspection (continued)

Shoes and Linings

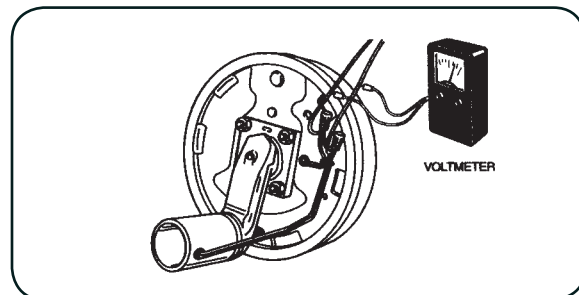
A simple visual inspection of your brake linings will tell if they are usable. Replacement is necessary if the lining is worn (to within 1/16" or less), contaminated with grease or oil, or abnormally scored or gouged. Hairline heat cracks are normal in bonded linings and should not be cause for concern. 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 into 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.

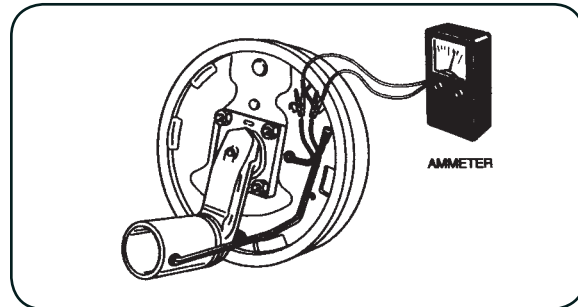
Make sure your ammeter has sufficient capacity and note polarity to prevent damaging your ammeter. If a resistor is used in the brake system, it must be set at zero or bypassed completely to obtain the maximum amperage reading. Individual amperage draw can be measured by inserting the ammeter in the 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 Size | Amps/Magnet | Two Brakes | Four Brakes | Six Brakes | Magnet 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 2¼ | 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 rebore 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 replaced 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 refacing 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.

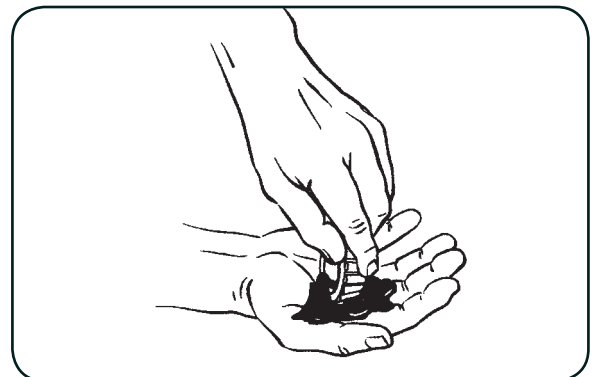
Bearing Inspection

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:

1. Place a quantity of grease into the palm of your hand.
2. 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 ammeters 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.



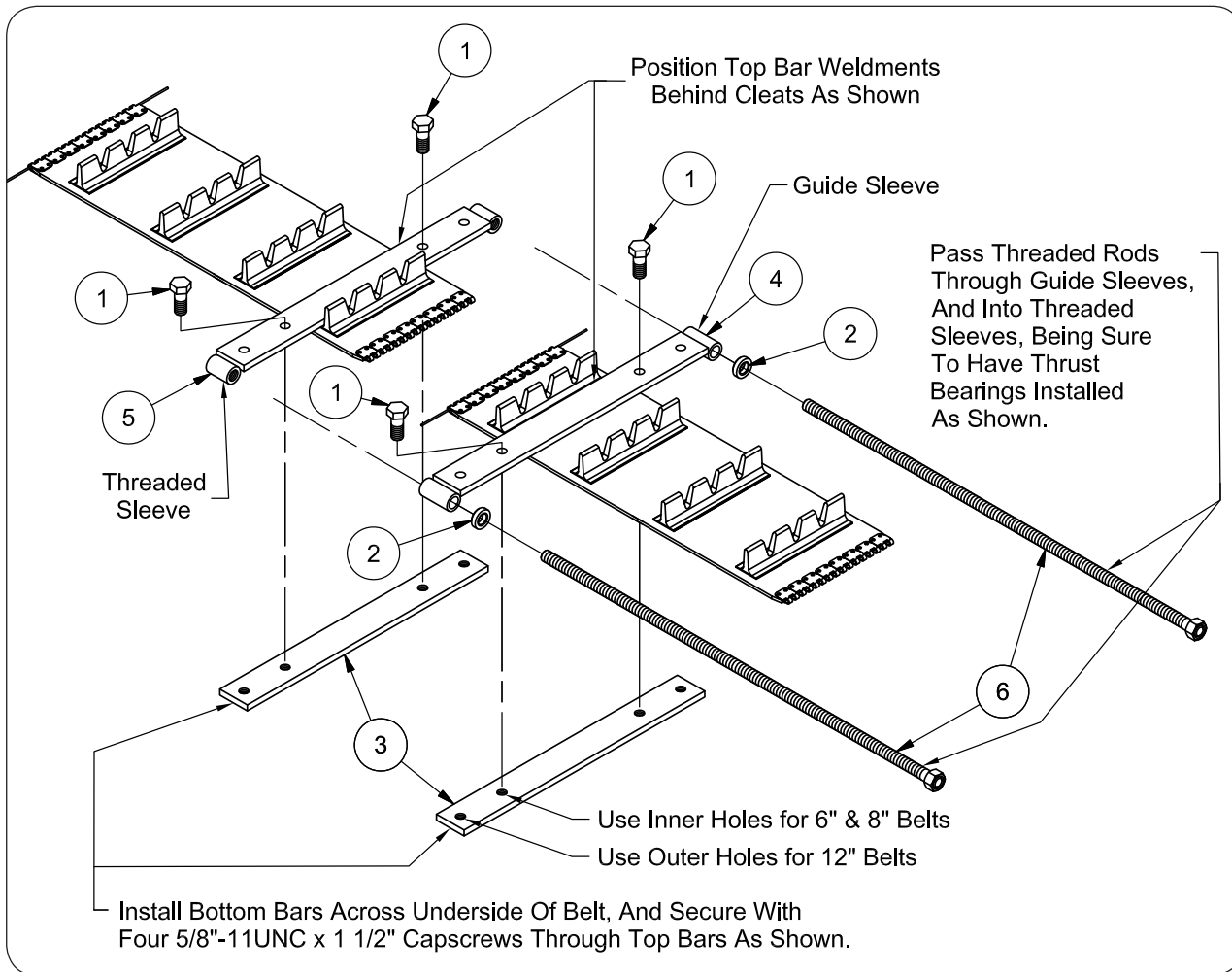
CAUTION

- **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

Belt Stretcher (Optional)

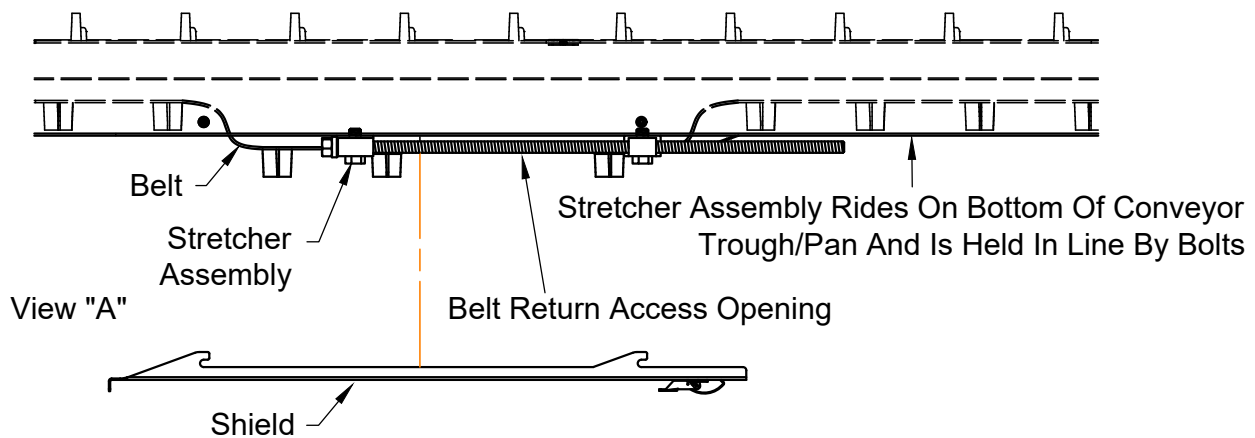
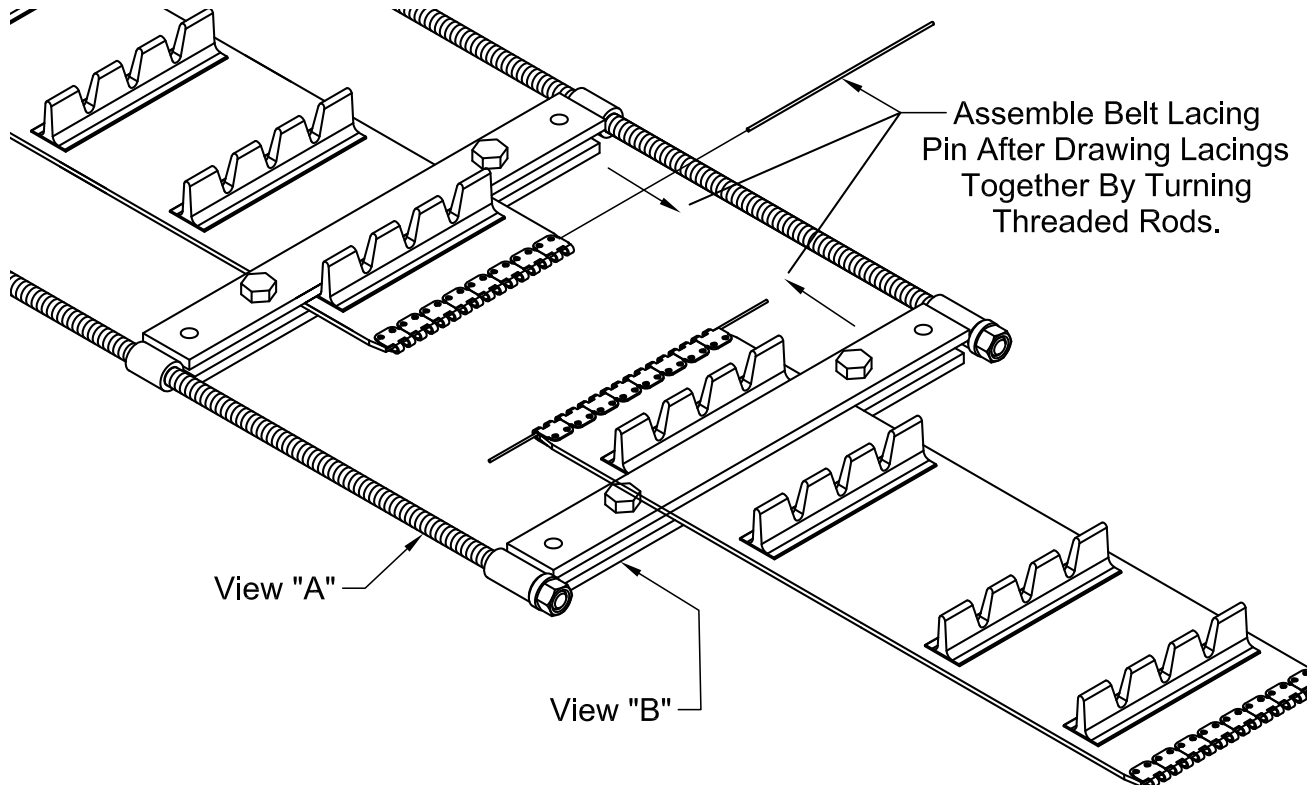


| ITEM | PART NO. | QTY | DESCRIPTION |
|------|--------------|-----|---|
| | TA4-114400-0 | 1 | BELT INSTALLATION TOOL |
| 1 | 9390-122 | 4 | CAPSCREW, 5/8-11UNC x 1 1/2 LG. GRADE 5 |
| 2 | TA0-903118-0 | 2 | BEARING, BALL THRUST, 5/8" I.D. |
| 3 | TA1-114401-0 | 2 | BOTTOM BAR |
| 4 | TA2-114404-0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

Belt Stretcher (Optional) (Continued)

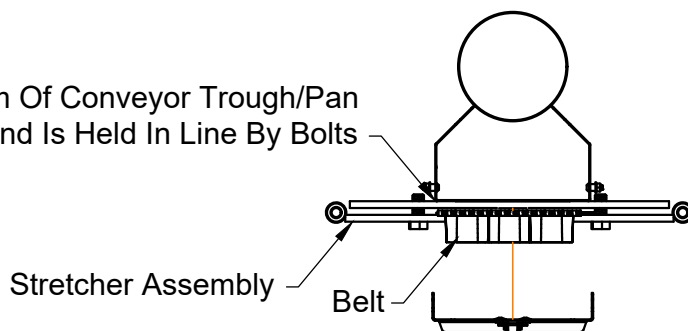
Stretcher Assembled to Belt

FOR ILLUSTRATION ONLY



View "B"

Stretcher Assembly Rides On Bottom Of Conveyor Trough/Pan And Is Held In Line By Bolts



Wheels & Tires

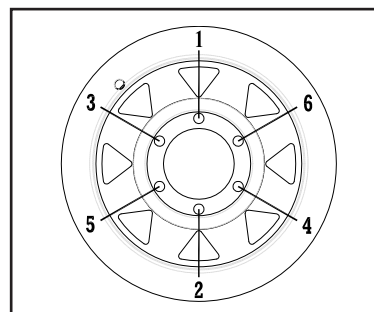
Wheel Torque Requirements

CAUTION

- 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 |
| 1/2-20 (UNF) | 75 FT.-LBS. |



| | |
|--------------------|---------------|
| Nut/Bolt Location: | |
| 1/2-20 (UNF) | Single Wheels |

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)

Wheels & Tires (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:

Greenball

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

Carlisle

www.carlisletire.com
Phone 800-260-7959
Fax 800-352-0075

Torque Chart

Capscrews - Grade 5

NOTE: 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.

| SIZE | FOOT POUNDS | NEWTON 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.

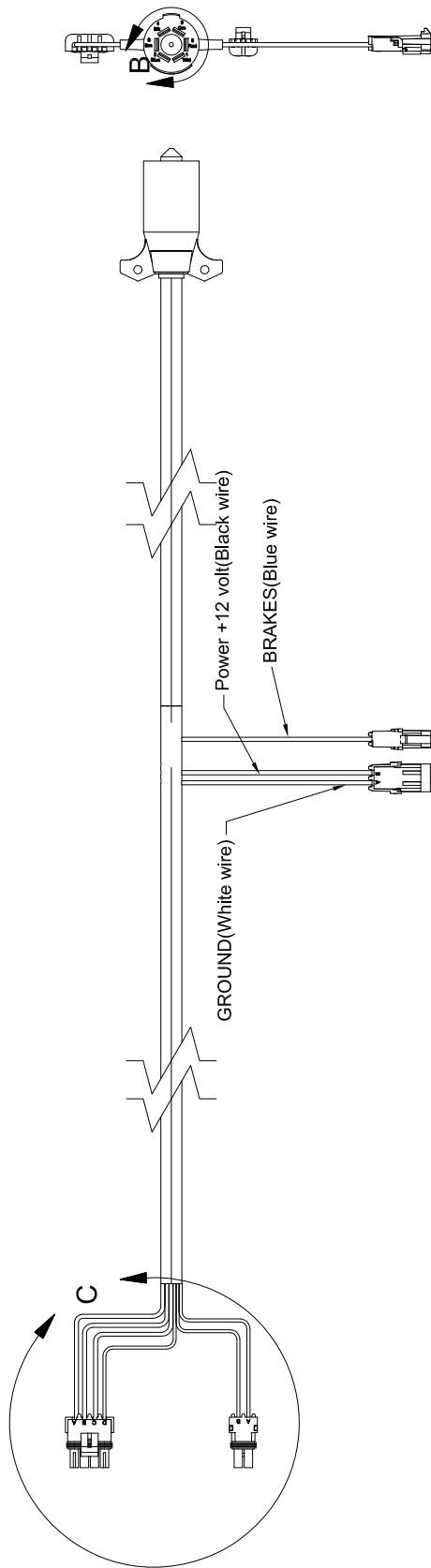
Repaint any chipped or scraped areas and store inside away from livestock.

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

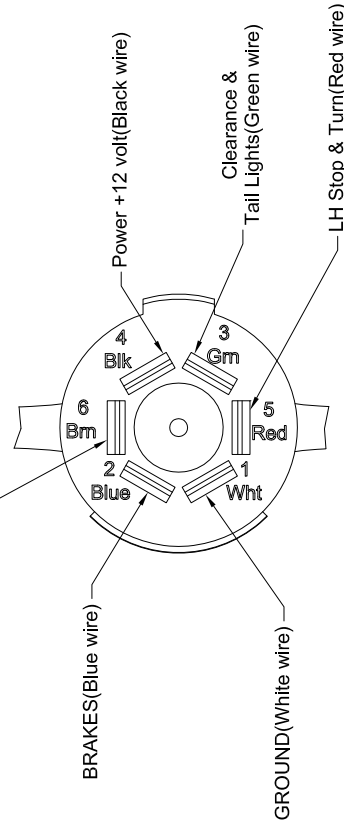
Troubleshooting

| PROBABLE CAUSE | CORRECTION |
|--|---|
| UNDERCARRIAGE SWAYING, 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 and remove excess material (make sure swivel spout is clear) |
| Engine running too slow | Increase the throttle speed |
| Conveyor belt slipping | Increase the belt tension - See Adjusting Belt Tension in the Maintenance section |
| Drive belt slipping | Increase the tension on the drive belt - See Adjusting Drive Belt Tension |
| AUGER WILL NOT TURN OVER OR DEVELOP PROPER SPEED OR 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 Adjusting Drive Belt Tension |
| BELT EDGES SHOWING EXCESSIVE WEAR | |
| Belt tracking incorrect | Adjust tracking as detailed in Maintenance section |
| Poly seals on intake and/or discharge end worn. | Replace poly seals |

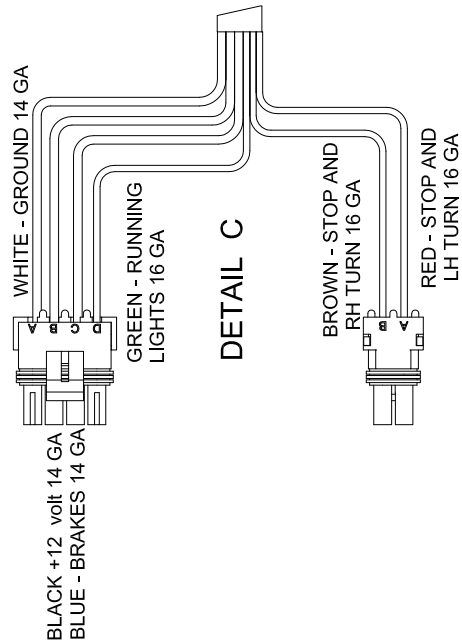
Front Undercarriage Electrical Schematic #25045



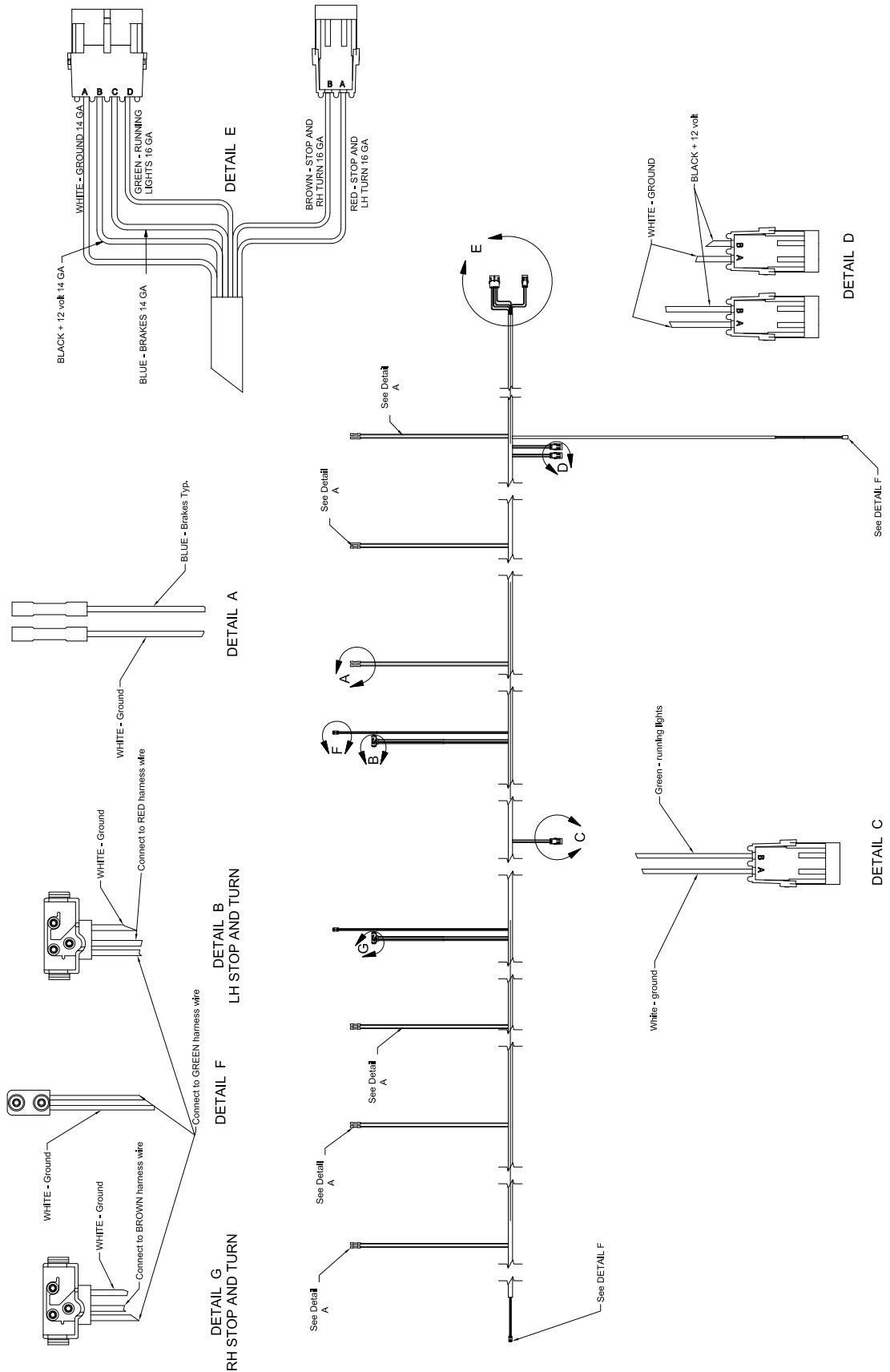
LOOKING AT INSERTION END OF CONNECTOR.



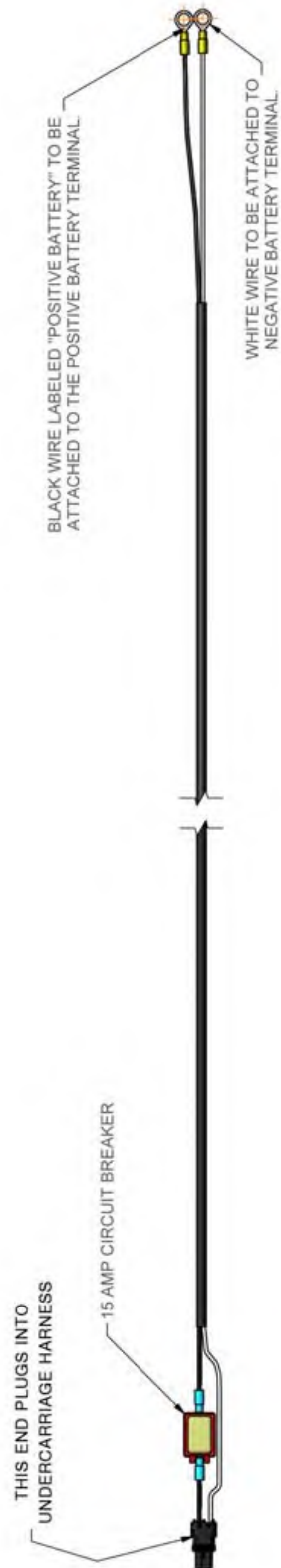
DETAIL B



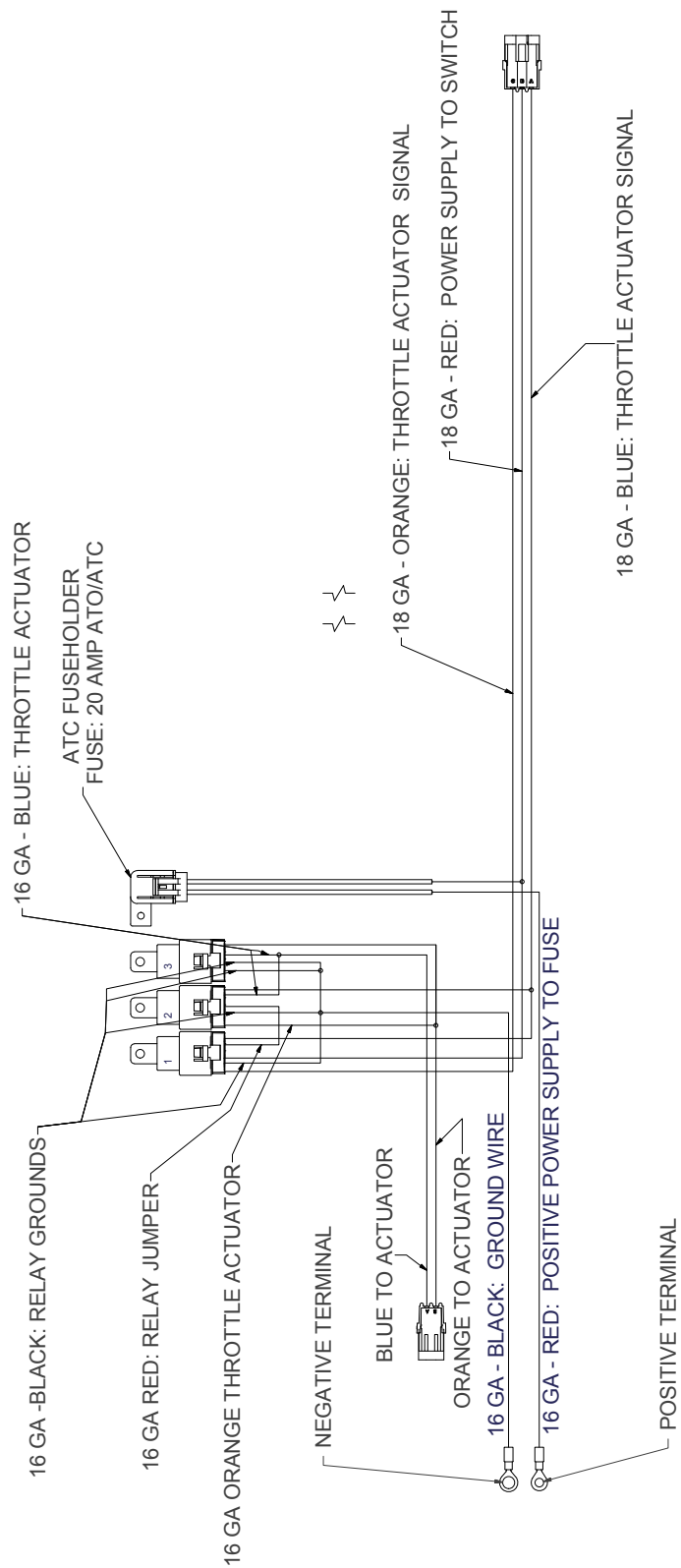
Undercarriage Lighting & Brake Electrical Schematic #25046



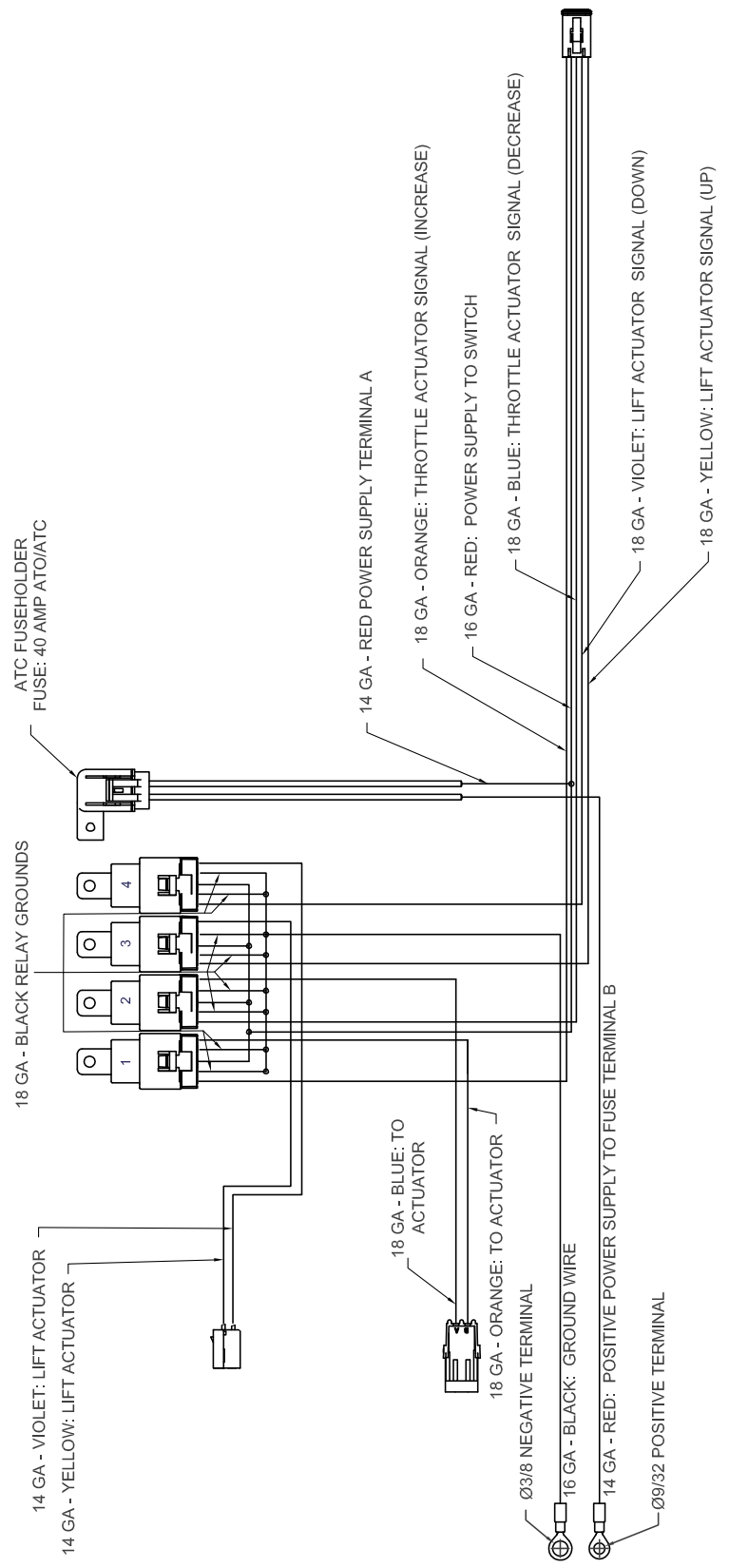
Charge From Truck Electrical Schematic — #29410



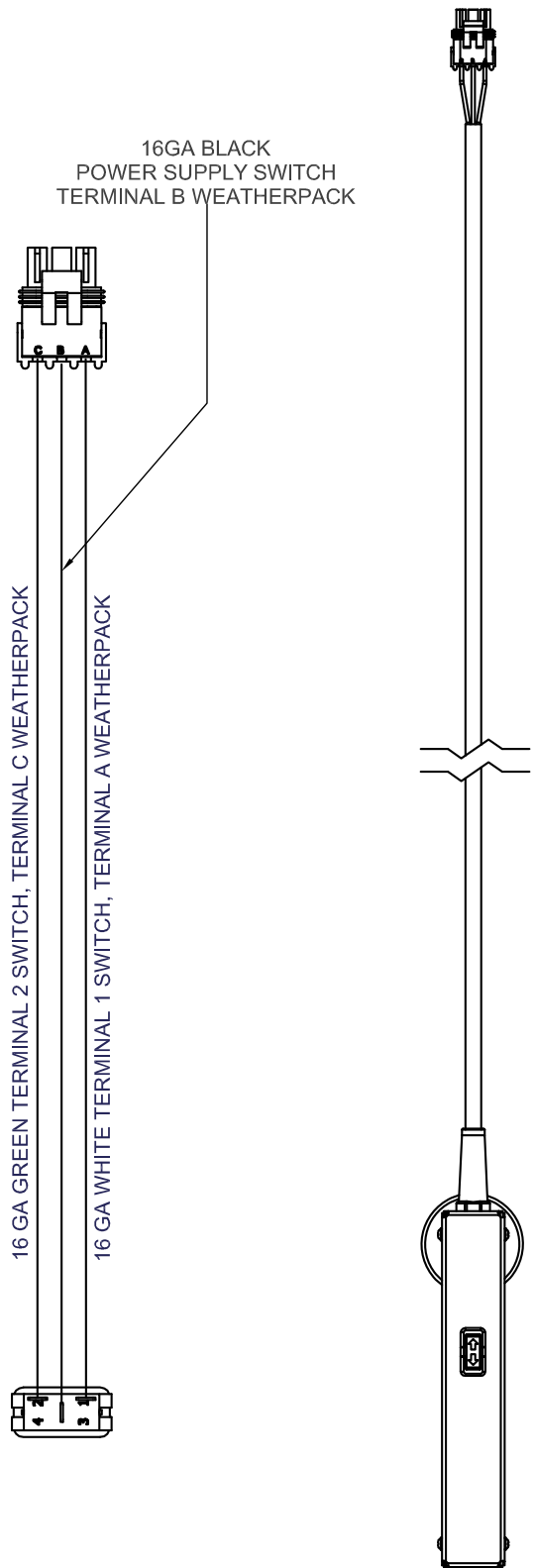
Conveyor/Auger Control Electrical Schematic — #28920



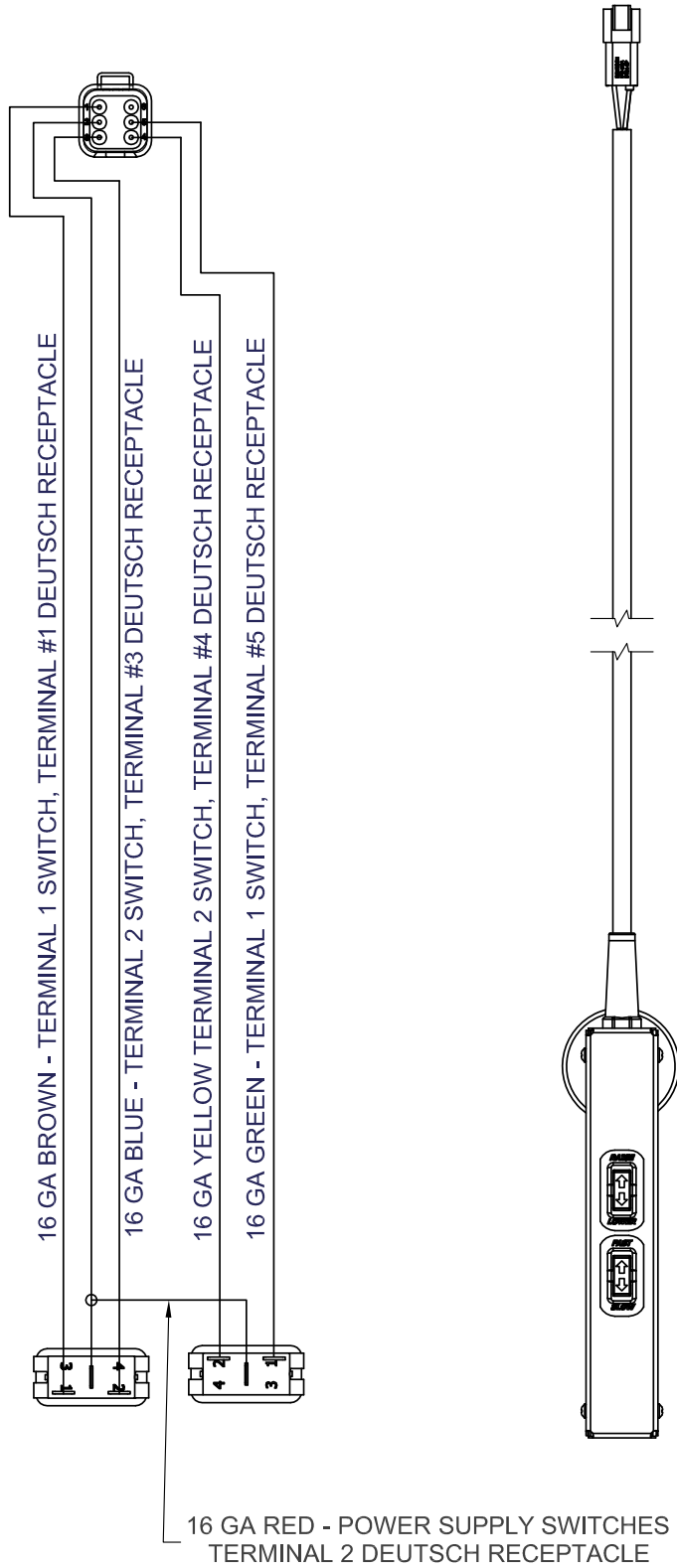
Conveyor/Auger Control Electrical Schematic — #2000588
For Electric Conveyor/Auger Lift Package



Switch Electrical Schematic — #26734



**Switch Electrical Schematic — #2000617
For Electric Conveyor/Auger Lift Package**



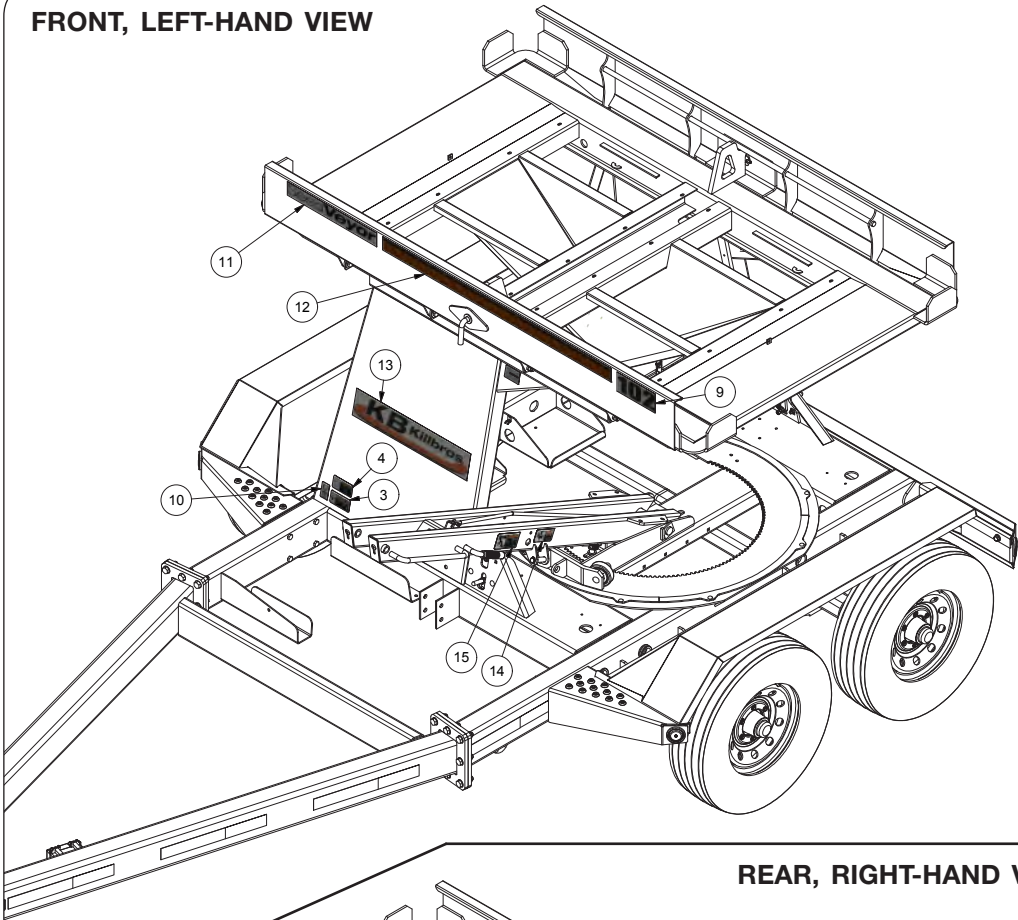
Section V Parts

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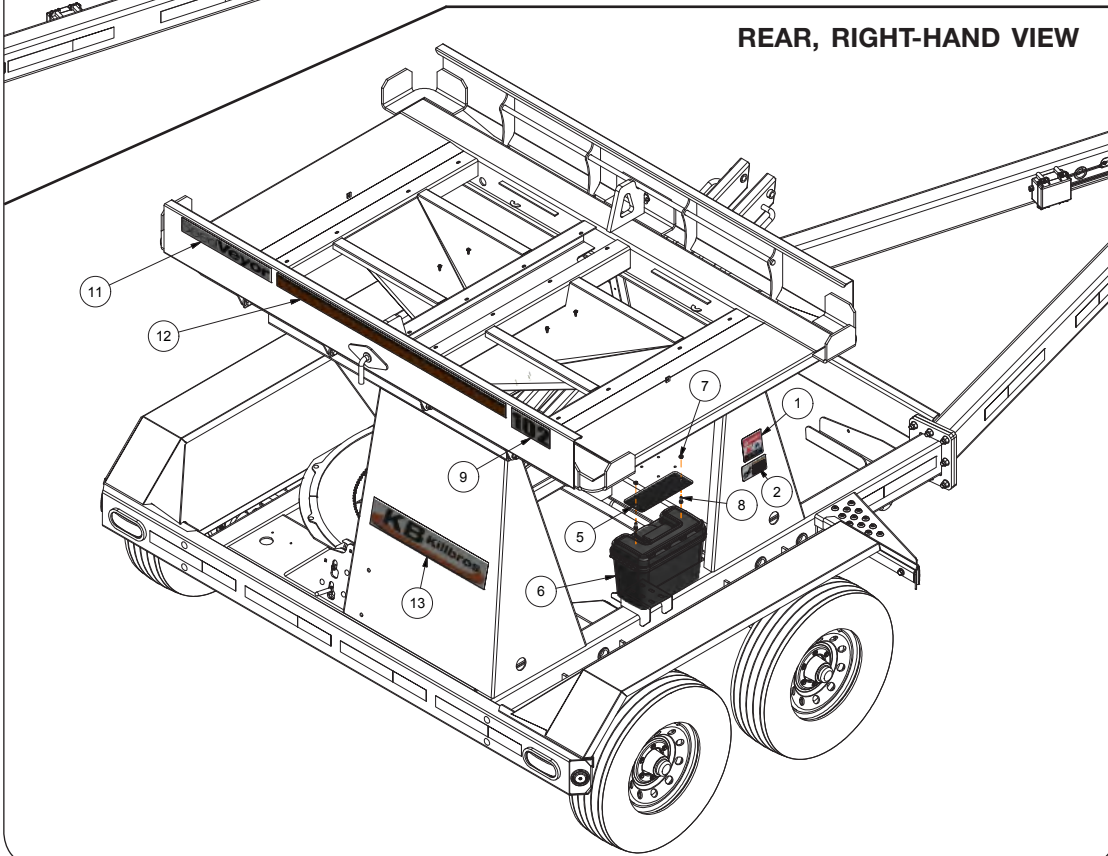
Decals & Touch-Up Paint

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

FRONT, LEFT-HAND VIEW



REAR, RIGHT-HAND VIEW



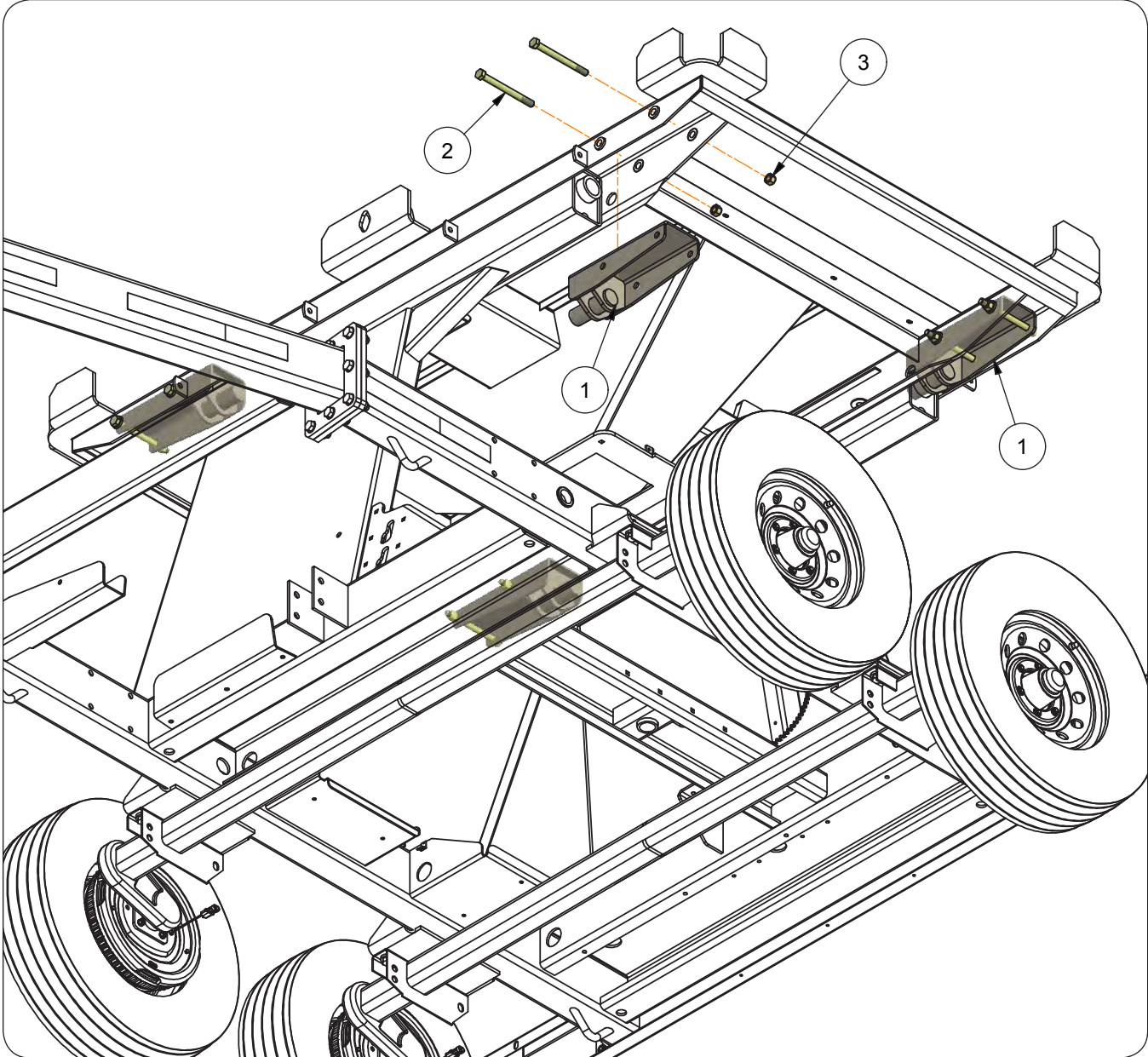
Decals & Touch-Up Paint

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

| ITEM | PART NO. | DESCRIPTION | QTY | NOTES |
|------|----------|--------------------------------------|-----|-----------|
| 1 | 235161 | Decal, DANGER "Flammable" | 1 | |
| 2 | 95445 | Decal, WARNING "High-Pressure Fluid" | 1 | |
| 3 | 97961 | Decal, WARNING "Read and Understand" | 1 | |
| 4 | 98350 | Decal, WARNING "No Riders" | 1 | |
| 5 | 27741B | Tool Box Strap | 1 | |
| 6 | 902456 | Tool Box | 1 | |
| 7 | 9807 | Locknut 5/16-18UNC | 2 | |
| 8 | 9390-028 | Capscrew 5/16-18UNC x 3/4 | 2 | Grade 5 |
| 9 | 9500464 | Decal, Model 102 | 2 | |
| 10 | 91605 | Decal, FEMA | 1 | |
| 11 | 902983 | Decal, SeedVeyor | 2 | |
| 12 | 902980 | Decal Stripe | 2 | |
| 13 | 9500590 | Decal KILLBROS | 2 | |
| 14 | 95839 | Decal, WARNING "Pinch Point" | 1 | |
| 15 | 98229 | Decal, WARNING "Lower Equipment" | 1 | |
| 16 | 93705 | Clear Silicone Caulk | - | NOT SHOWN |
| 17 | 9500271 | Spray Can - Charcoal Grey | - | NOT SHOWN |
| 18 | 902996 | Spray Can - Dove Grey | - | NOT SHOWN |

Stationary Bracket Components

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



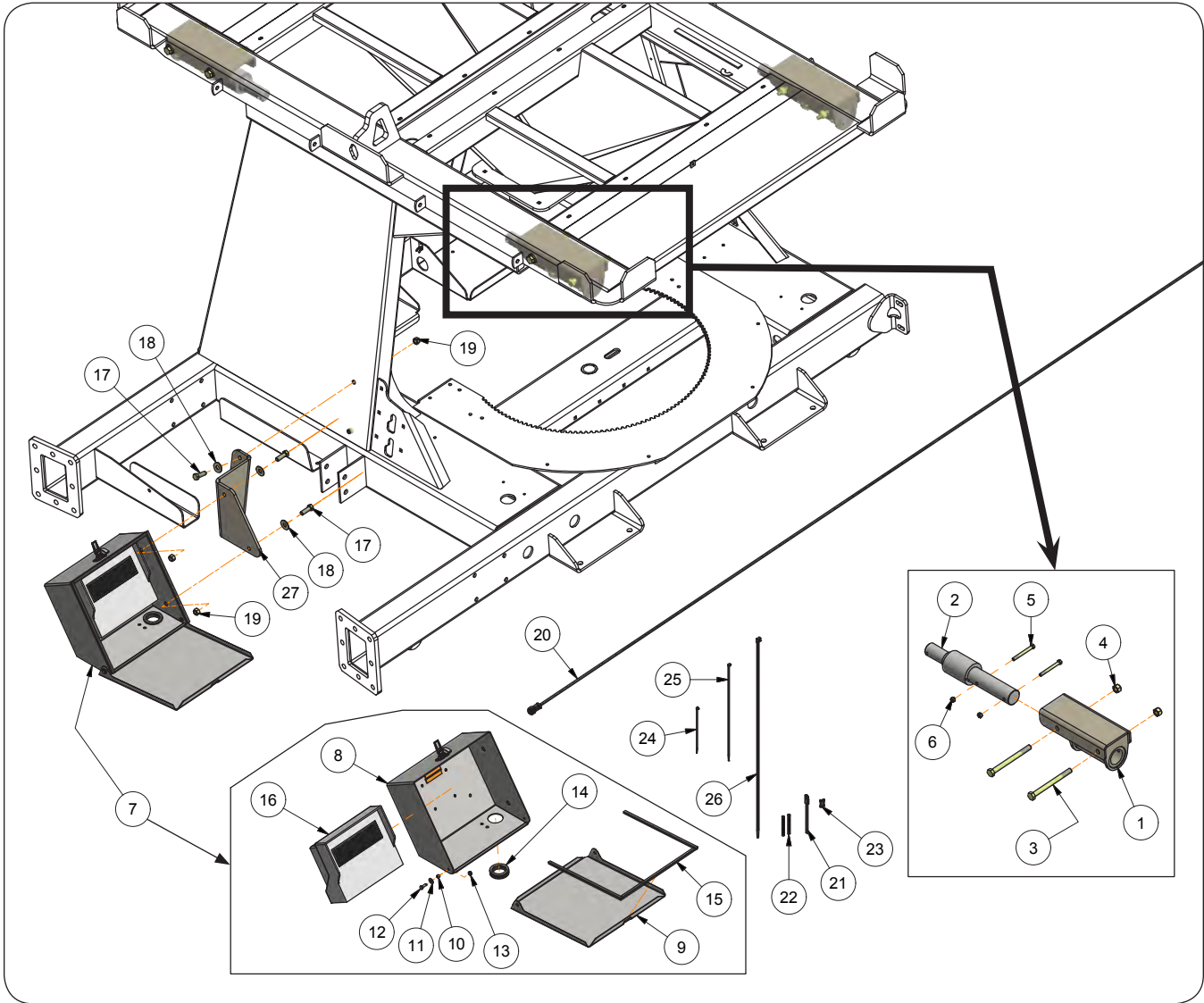
Stationary Bracket Components

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

| ITEM | PART NO. | DESCRIPTION | QTY | NOTES |
|------|----------|------------------------|-----|---------|
| 1 | 29070CG | Stationary Bracket | 4 | |
| 2 | 9390-138 | Capscrew 5/8-11UNC x 7 | 8 | Grade 5 |
| 3 | 9801 | Locknut 5/8-11UNC | 8 | |

Scale Components

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



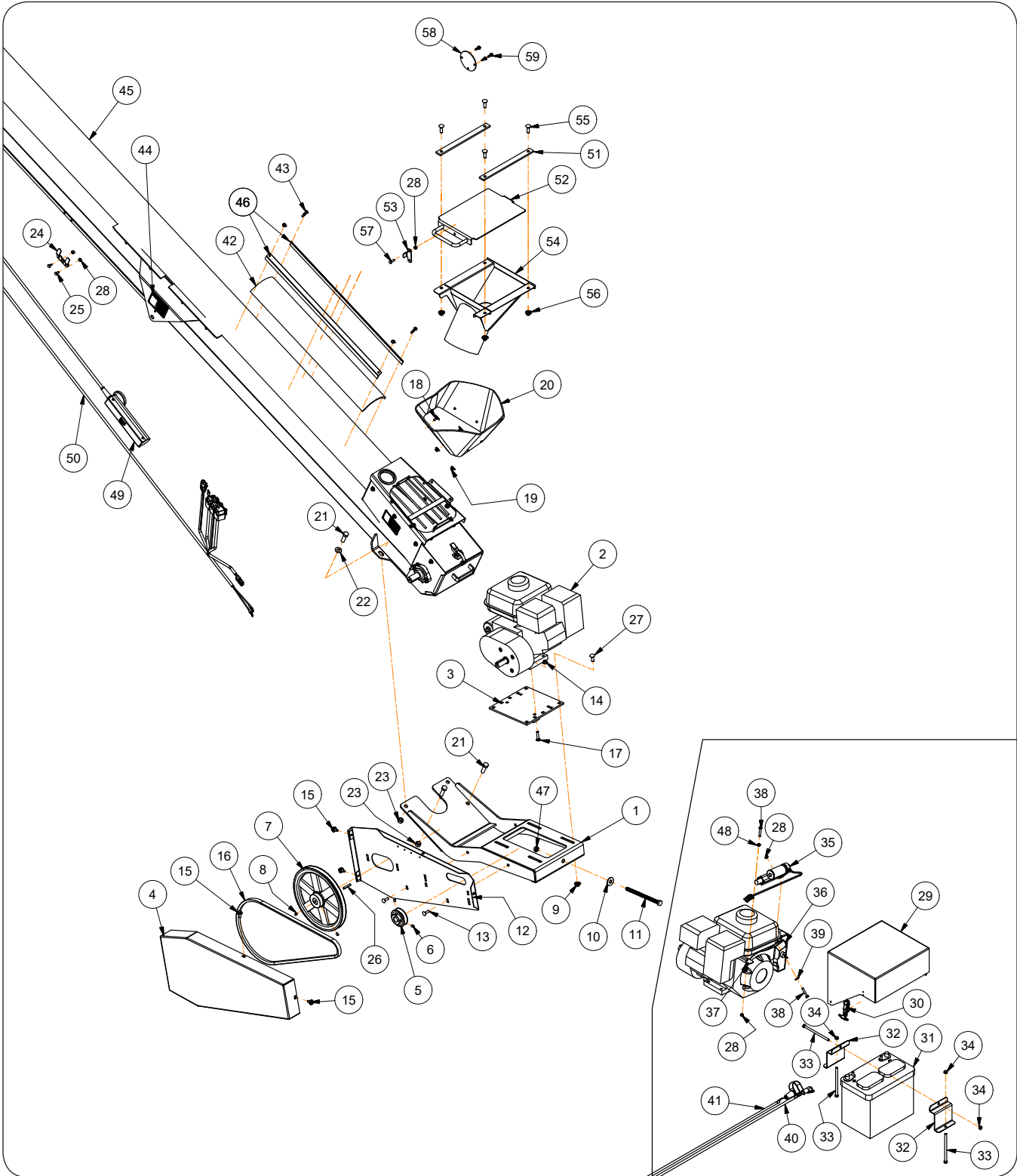
Scale Components

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

| ITEM | PART NO. | DESCRIPTION | QTY | NOTES |
|------|----------|--------------------------------------|-----|---------------------|
| 1 | 29065CG | Scale Bracket Weldment | 4 | |
| 2 | 902063 | Weigh Bar - 2 1/8" Dia. w/ 21' Cable | 4 | |
| 3 | 9390-138 | Capscrew 5/8-11UNC x 7 | 16 | Grade 5 |
| 4 | 9801 | Locknut 5/8-11UNC | 16 | |
| 5 | 9390-065 | Capscrew 3/8-16UNC x 3 1/2 | 16 | Grade 5 |
| 6 | 9928 | Locknut 3/8-16UNC | 16 | |
| 7 | 28945CG | Scale Enclosure Assembly | 1 | Includes items 8-16 |
| 8 | 28944CG | Scale Enclosure Weldment | 1 | |
| 9 | 28943CG | Scale Enclosure Cover | 1 | |
| 10 | 22018 | Bushing | 2 | |
| 11 | 9405-064 | Flat Washer 1/4" USS | 2 | |
| 12 | 9390-003 | Capscrew 1/4-20UNC x 3/4 | 4 | Grade 5 |
| 13 | 9936 | Locknut 1/4-20UNC | 4 | |
| 14 | 900513 | Grommet/Rubber 2" Dia. | 1 | |
| 15 | 25062 | Foam Strip | 3 | |
| 16 | 902062 | Scale Indicator - Model 640XL | 1 | |
| 17 | 9390-101 | Capscrew 1/2-13UNC x 1 1/2 | 2 | Grade 5 |
| 18 | 9405-088 | Flat Washer 1/2" USS | 2 | |
| 19 | 9800 | Locknut 1/2-13UNC | 2 | |
| 20 | 902087 | Scale Power Cord | 1 | |
| 21 | 21903 | Connector | 1 | |
| 22 | 26554 | Heat Shrink Tube | 2 | |
| 23 | 91023 | Butt Connector | 2 | |
| 24 | 9000106 | Cable Tie 6" | 16 | |
| 25 | 9000107 | Calbe Tie 15 1/2" | 6 | |
| 26 | 94038 | Cable Tie 32" | 2 | |
| 27 | 29267CG | Scale Bracket | 1 | |

Conveyor Drive Assembly & Hopper Components

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



Conveyor Drive Assembly & Hopper Components

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

| ITEM | PART NO. | DESCRIPTION | QTY | NOTES |
|------|--------------|--|-----|---------------|
| 1 | 29150CG | Engine Mount Weldment | 1 | |
| 2 | 901673 | Honda Engine 4.8 Net HP Gas, 9.9 Cu. In. | 1 | |
| | 901333 | Key/Ignition Replacement | - | |
| | 903057 | Key on Output Shaft | - | |
| 3 | 28377CG | Adjustment Plate | 1 | |
| 4 | 29160CG | Shield Weldment | 1 | |
| 5 | 902059 | Pulley 2.95 Dia. w/ Set Screws | 1 | |
| 6 | 9399-071 | Set Screws 5/16-18UNC x 3/8 | 2 | |
| 7 | 901659 | Pulley/Sheave w/ Set Screws | 1 | |
| 8 | 9399-071 | Set Screws 5/16-18UNC x 3/8 | 2 | |
| 9 | 91263 | Large Flange Nut 3/8-16UNC | 4 | |
| 10 | 9405-088 | Flat Washer 1/2" USS | 2 | |
| 11 | TA0-907228-0 | Capscrew 1/2-13UNC x 7 1/2 | 1 | Full Threaded |
| 12 | 29157CG | Shield Weldment | 1 | |
| 13 | 9388-025 | Carriage Bolt 5/16-18UNC x 1 | 4 | |
| 14 | 91257 | Flange Nut 5/16-18UNC | 4 | |
| 15 | 91256 | Large Flange Screw 5/16-18UNC x 3/4 | 4 | |
| 16 | 903115 | V-Belt - 58" Outer Length | 1 | |
| 17 | 9500341 | Carriage Bolt 5/16"-18UNC x 1 3/4" | 4 | Full Threaded |
| 18 | 902006 | Elevator Bolt 1/4"-20UNC x 3/4" | 8 | |
| 19 | 97189 | Large Flange Hex Nut 1/4-20UNC | 8 | |
| 20 | 26689 | Rubber Hopper | 1 | |
| 21 | 9390-102 | Capscrew 1/2-13UNC x 1 3/4 | 4 | |
| 22 | 9405-086 | Flat Washer 1/2 SAE | 2 | |
| 23 | 9800 | Locknut 1/2-13UNC | 4 | |
| 24 | 26505 | Switch Retainer | 1 | |
| 25 | 9390-001 | Capscrew 1/4-20UNC x 1/2 | 2 | Grade 5 |
| 26 | 800713 | Key 1/4 x 1/4 x 1 1/2 | 1 | |
| 27 | 9388-053 | Carriage Bolt 3/8-16UNC x 1 1/2 | 4 | Grade 5 |
| 28 | 9936 | Locknut 1/4-20UNC | 5 | |
| 29 | 28419CG | Battery Cover | 1 | |
| 30 | 104988 | Draw Latch | 2 | |
| 31 | 902775 | Battery 12V | 1 | |
| 32 | 28418B | Battery Bracket | 2 | |
| 33 | 9390-045 | Capscrew 5/16-18UNC x 5 1/2 | 3 | Grade 5 |

(Continued on next page)

Conveyor Drive Assembly & Hopper Components (continued)

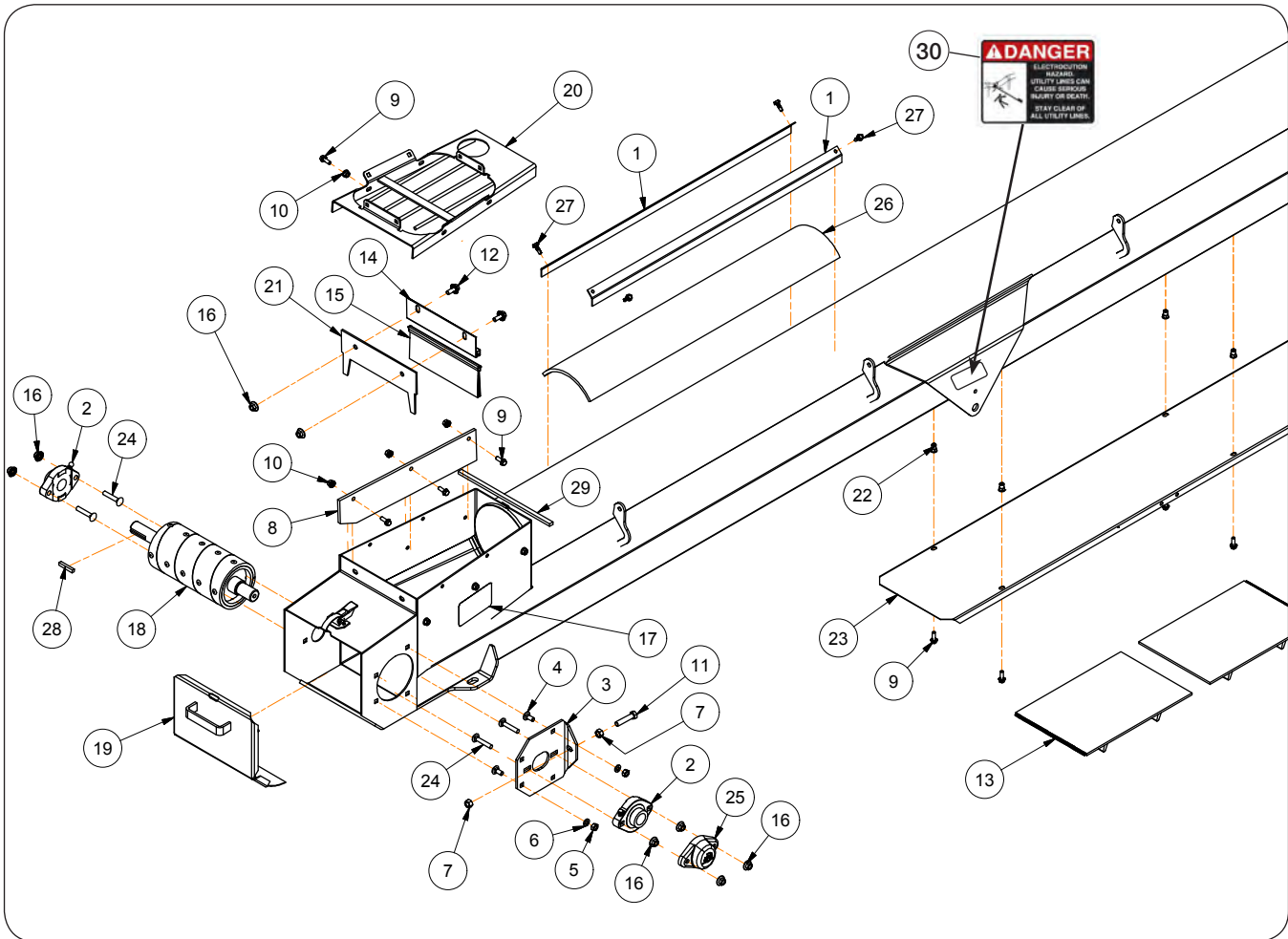
Please visit www.unverferth.com/parts/ for the most current parts listing.

| ITEM | PART NO. | DESCRIPTION | QTY | NOTES |
|------|-----------|---|-----|---------|
| 34 | 9807 | Locknut 5/16-18UNC | 3 | |
| 35 | 2008982 | Actuator Replacement Kit | 1 | |
| 36 | 2008983CG | Throttle Bracket | 1 | |
| 37 | 26719CG | Angle for Actuator Assembly For 6" Tube Conveyor | 1 | |
| 38 | 9390-007 | Capscrew 1/4"-20UNC x 1 1/2" G5 | 2 | |
| | 9390-008 | Capscrew 1/4"-20UNC x 1 3/4" G5 | 1 | |
| 39 | 9405-064 | Flat Washer 1/4" USS | 1 | |
| 40 | 9500551 | Battery Cable (Red) | 1 | |
| 41 | 9500552 | Battery Cable (Black) | 1 | |
| 42 | 27925 | Wear Guard | 1 | |
| 43 | 9512 | Self-Drilling Screw 1/4-14 x 1 | 4 | |
| 44 | 901478 | Decal, DANGER "Electrocution" | 2 | |
| 45 | 2005359CG | Conveyor Tube 6" x 18' with Decals | | |
| 46 | N/A | Plate | 2 | |
| 47 | 9395-010 | Hex Jam Nut 1/2"-13UNC | 1 | |
| 48 | 9394-002 | Hex Nut 1/4"-20UNC | 1 | |
| 49 | 26734 | Switch Assembly 198" | 1 | |
| 50 | 28920 | Wire Harness | 1 | |
| 51 | 29261CG | Bar 11 1/2" Long | 2 | |
| 52 | 29078CG | Door Weldment | 1 | |
| 53 | 25977B | Latch Plate | 1 | |
| 54 | 29255CG | Chute Weldment | 1 | |
| 55 | 9388-052 | Carriage Bolt 3/8-16UNC x 1 1/4 | 4 | Grade 5 |
| 56 | 91263 | Large Flange Nut 3/8-16UNC | 4 | |
| 57 | 9390-003 | Capscrew 1/4-20UNC x 3/4 | 1 | Grade 5 |
| 58 | 2001622DG | Cover Plate | 1 | |
| 59 | 9473 | Self-Drilling Screw 1/4-14 x 3/4 | 3 | |

Notes

Conveyor Idler End Components

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



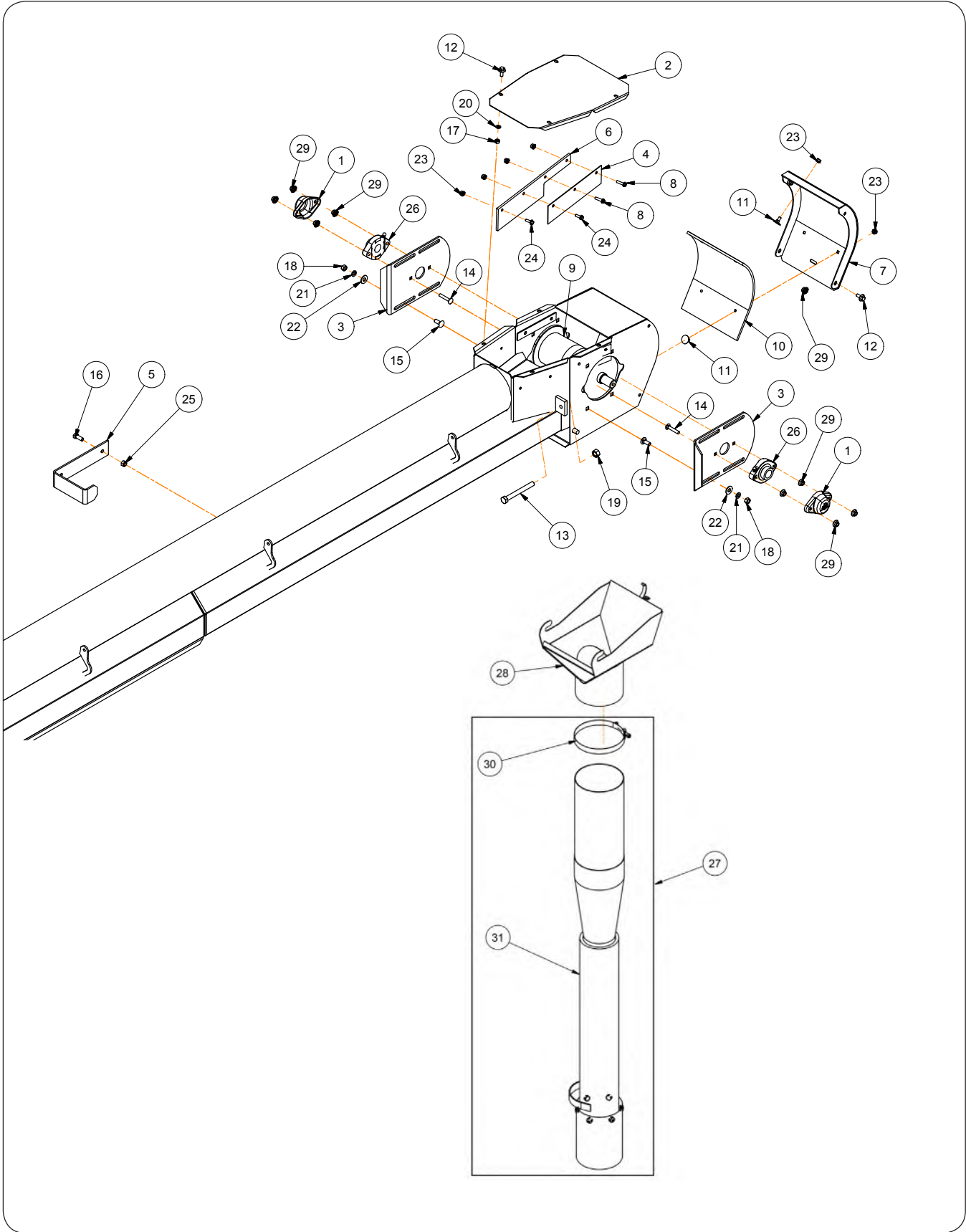
Conveyor Idler End Components

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

| ITEM | PART NO. | DESCRIPTION | QTY | NOTES |
|------|--------------|--|-----|-------------------------|
| | 2005359CG | Conveyor Tube 6" x 18' with Decals | - | |
| 1 | N/A | Plate/Strap | 2 | |
| 2 | TA0-903088-0 | Bearing w/Flange 1" I.D. | 2 | |
| 3 | 23912CG | Adjustment Plate | 1 | |
| 4 | 9388-024 | Carriage Bolt 5/16-18UNC x 3/4 | 4 | Grade 5 |
| 5 | 9394-004 | Hex Nut 5/16-18UNC | 4 | |
| 6 | 9404-019 | Lock Washer 5/16 | 4 | |
| 7 | 9394-006 | Hex Nut 3/8-16UNC | 2 | |
| 8 | 24756 | Poly Strip | 1 | |
| 9 | 97420 | Flange Screw 1/4-20UNC x 3/4 | 13 | |
| 10 | 97189 | Large Flange Hex Nut 1/4-20UNC | 3 | |
| 11 | TA0-907104-0 | Capscrew 3/8-16UNC x 1 3/4 | 1 | Grade 5 - Full Threaded |
| 12 | 91256 | Large Flange Screw 5/16-18UNC x 3/4 | 2 | |
| 13 | 900779 | Conveyor Belt | 1 | |
| | 9500087 | Belt Splice Pin For Clipper Style Splice | - | |
| | 9501506 | Belt Splice Kit 8" | - | |
| 14 | 24964 | Brush Holder | 1 | |
| 15 | 901111 | Nylon Brush | 1 | |
| 16 | 91257 | Large Flange Hex Nut 5/16-18UNC | 2 | |
| 17 | TA1-906109-0 | Decal, WARNING (Moving Parts...) | 2 | |
| 18 | 901661 | Drive Pulley | 1 | |
| | 800713 | Key 1/4 x 1/4 x 1 1/2 | 1 | |
| 19 | 26002CG | Cleanout Door Weldment | 1 | |
| 20 | 26688CG | Cover Weldment | 1 | |
| 21 | 26865 | Seal | 1 | |
| 22 | 902340 | Rivet Nut 1/4-20UNC | 10 | |
| 23 | 2010579CG | Bottom Shield | 1 | |
| 24 | 9500341 | Carriage Bolt 5/16-18UNC x 1 3/4 | 4 | Grade 5 |
| 25 | 9500310 | Idler Cover | 2 | |
| 26 | 27925 | Wear Guard | 1 | |
| 27 | 9473 | Self-Drilling Screw 1/4-14 x 3/4 | 4 | |
| 28 | 800713 | Key 1/4 x 1/4 x 1 1/2 | 1 | |
| 29 | 900152 | Foam Strip | 1 | |
| 30 | 901478 | Decal, DANGER "Electrocution" | 2 | |

Conveyor Discharge End Components

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



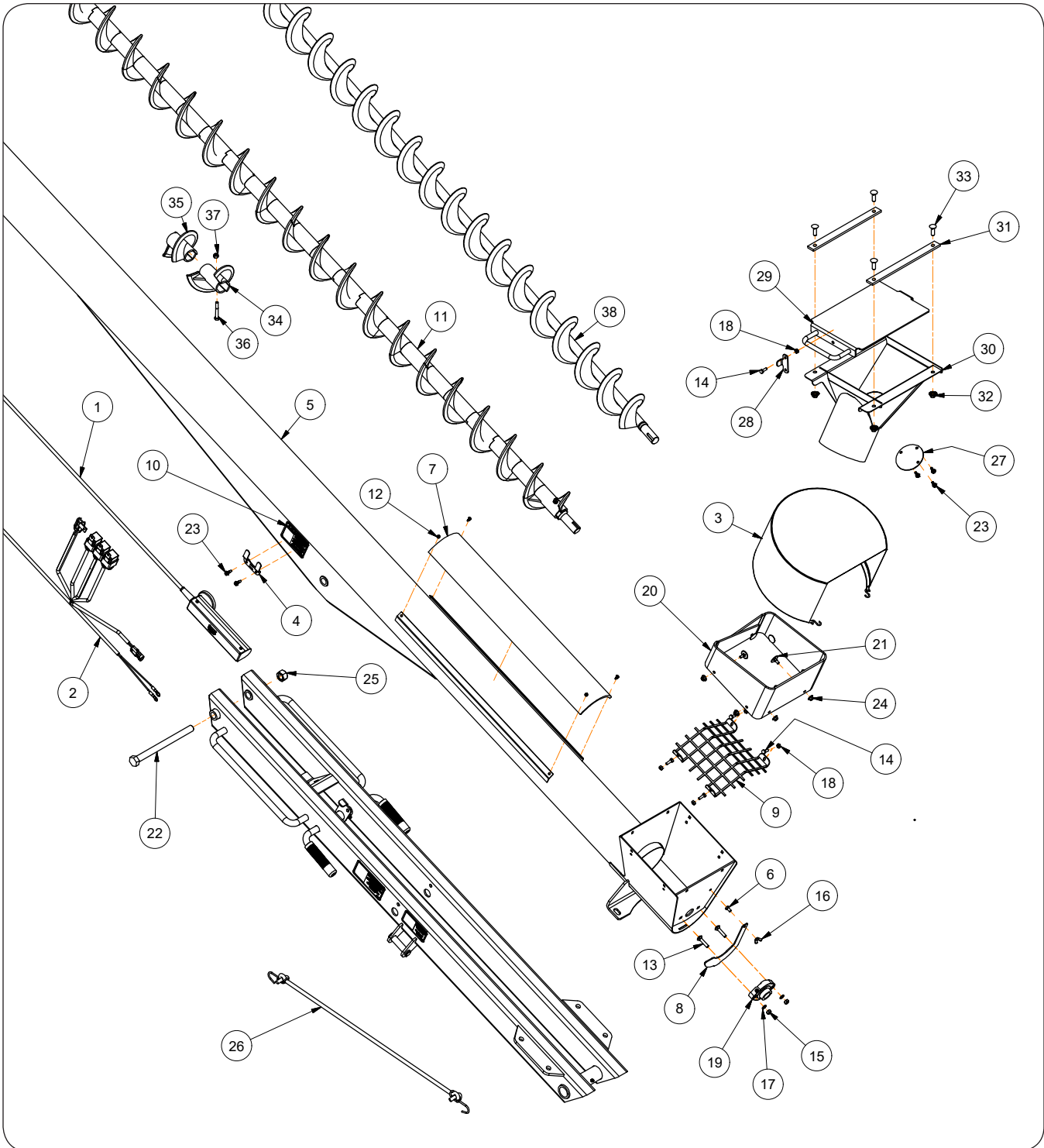
Conveyor Discharge End Components

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

| 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 | 2 | Grade 5-Full Threaded |
| 14 | 9500341 | Carriage Bolt 5/16-18UNC x 1 3/4 | 4 | Grade 5-Full Threaded |
| 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 | 10 | |
| 30 | 98060 | Camp/T-Bolt | 1 | |
| 31 | 27629 | Telescopic Spout 60" Long | 1 | |

Auger Drive Assembly & Hopper Components

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



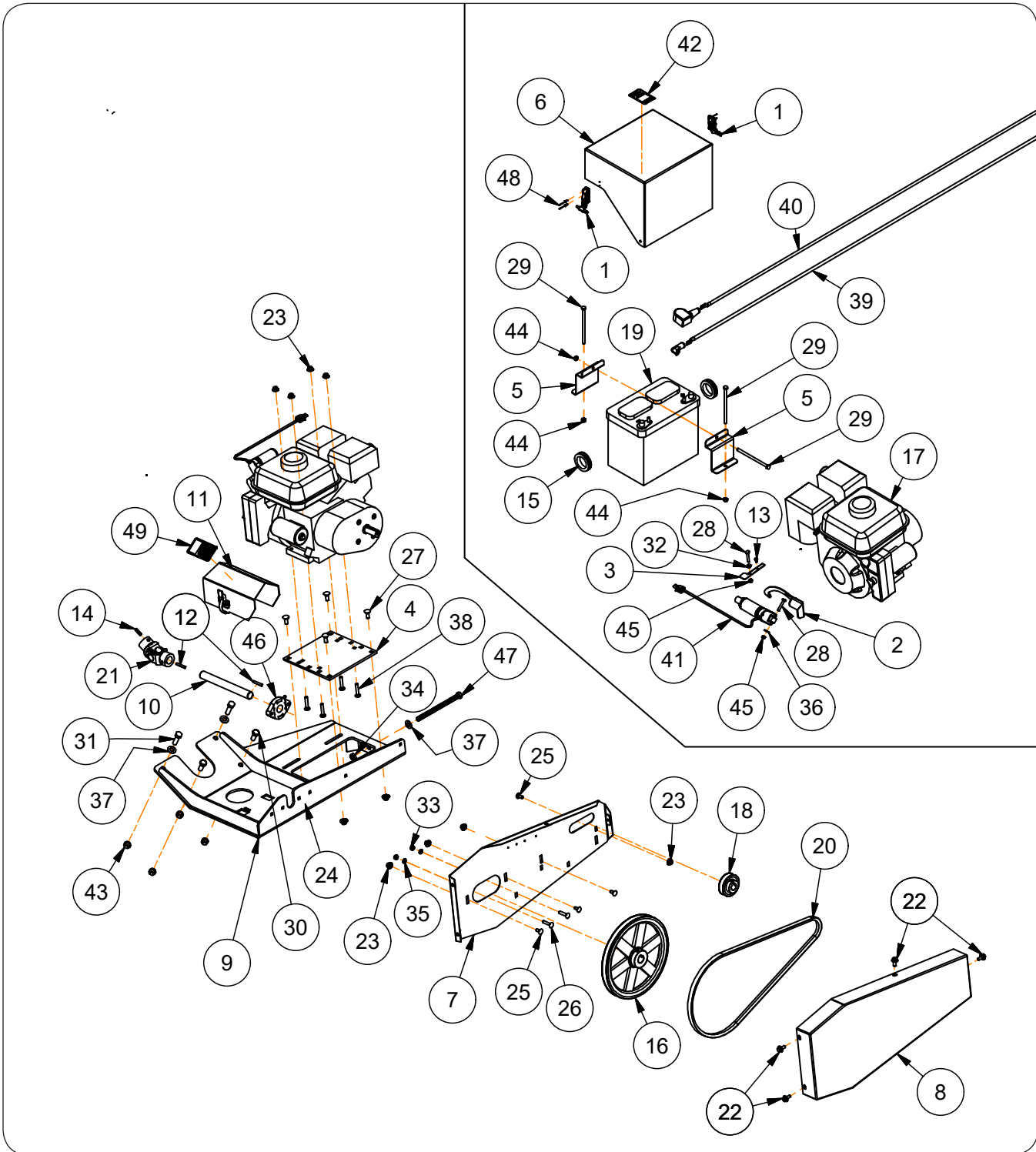
Auger Drive Assembly & Hopper Components

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

| ITEM | PART NO. | DESCRIPTION | QTY | NOTES |
|------|--------------|---|-----|-------|
| 1 | 26734 | Switch Assembly 198" | 1 | |
| 2 | 28920 | Wire Harness | 1 | |
| 3 | 2000399 | Vinyl Cover | 1 | |
| 4 | 26505 | Switch Retainer | 1 | |
| 5 | 2005356CG | Auger Tube 6" x 18' with Decals | - | |
| 6 | 9390-001 | Capscrew 1/4-20UNC x 1/2 | 1 | |
| 7 | 27925 | Wear Guard | 1 | |
| 8 | 29374CG | Cleanout Door | 1 | |
| 9 | 29393CG | Grate Weldment | 1 | |
| 10 | 901478 | Decal, DANGER "Electrocution" | 2 | |
| 11 | 903225 | Plastic Flight Assembly | 1 | |
| 12 | 91005 | Self-Tapping Screw #10-24 x 3/8 | 4 | |
| 13 | 9388-027 | Carriage Bolt 5/16"-18UNC x 1 1/2" G5 | | |
| 14 | 9390-003 | Capscrew 1/4"-20UNC x 3/4" G5 | 1 | |
| 15 | 9394-004 | Hex Nut 5/16-18UNC | 2 | |
| 16 | 9396-015 | Wing Nut 1/4-20UNC | 1 | |
| 17 | 9404-019 | Lock Washer 5/16" | 2 | |
| 18 | 9936 | Locknut 1/4-20UNC | 3 | |
| 19 | TA0-903088-0 | Bearing w/Flange 1" ID | 2 | |
| 20 | 29936 | Rubber Hopper | 1 | |
| 21 | 902006 | Elevator Bolt 1/4"-20UNC x 3/4" | 8 | |
| 22 | 9390-687 | Capscrew 3/4"-10UNC x 9 1/2" | 1 | |
| 23 | 9473 | Self-Drilling Screw 1/4-14 x 3/4" | 2 | |
| 24 | 97189 | Large Flange Hex Nut 1/4"-20UNC | 8 | |
| 25 | 9802 | Locknut 3/4"-10UNC | 1 | |
| 26 | 105220 | Universal Tarp Strap | 1 | |
| 27 | 2001622DG | Plate =Dove Grey= | 1 | |
| 28 | 25977B | Latch Plate | 1 | |
| 29 | 29078CG | Door Weldment | 1 | |
| 30 | 29255CG | Chute Weldment | 1 | |
| 31 | 29261CG | Bar 11 1/2" Long | 2 | |
| 32 | 91263 | Large Flange Nut 3/8-16UNC | 4 | |
| 33 | 9388-052 | Carriage Bolt 3/8-16UNC x 1 1/4 | 10 | |
| 34 | 901122 | Flight Section w/Gusset | 2 | |
| 35 | 900199 | Flight Section | 49 | |
| 36 | 91484 | Capscrew 5/16-18UNC x 2 1/4 (Stainless Steel) | 2 | |
| 37 | 92929-007 | Elastic Stop Nut 5/16-18UNC (Stainless Steel) | 2 | |
| 38 | 2002755B | Steel Flighting Weldment | 1 | |

U-Joint, Pulley, Engine, & Battery Components

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



| ITEM | PART NO. | DESCRIPTION | QTY | NOTES |
|------|-----------|-----------------------------|-----|-------|
| 1 | 104988 | Draw Latch | 2 | |
| 2 | 2008983CG | Throttle Bracket | 1 | |
| 3 | 26719CG | Angle for Actuator Assembly | 1 | |

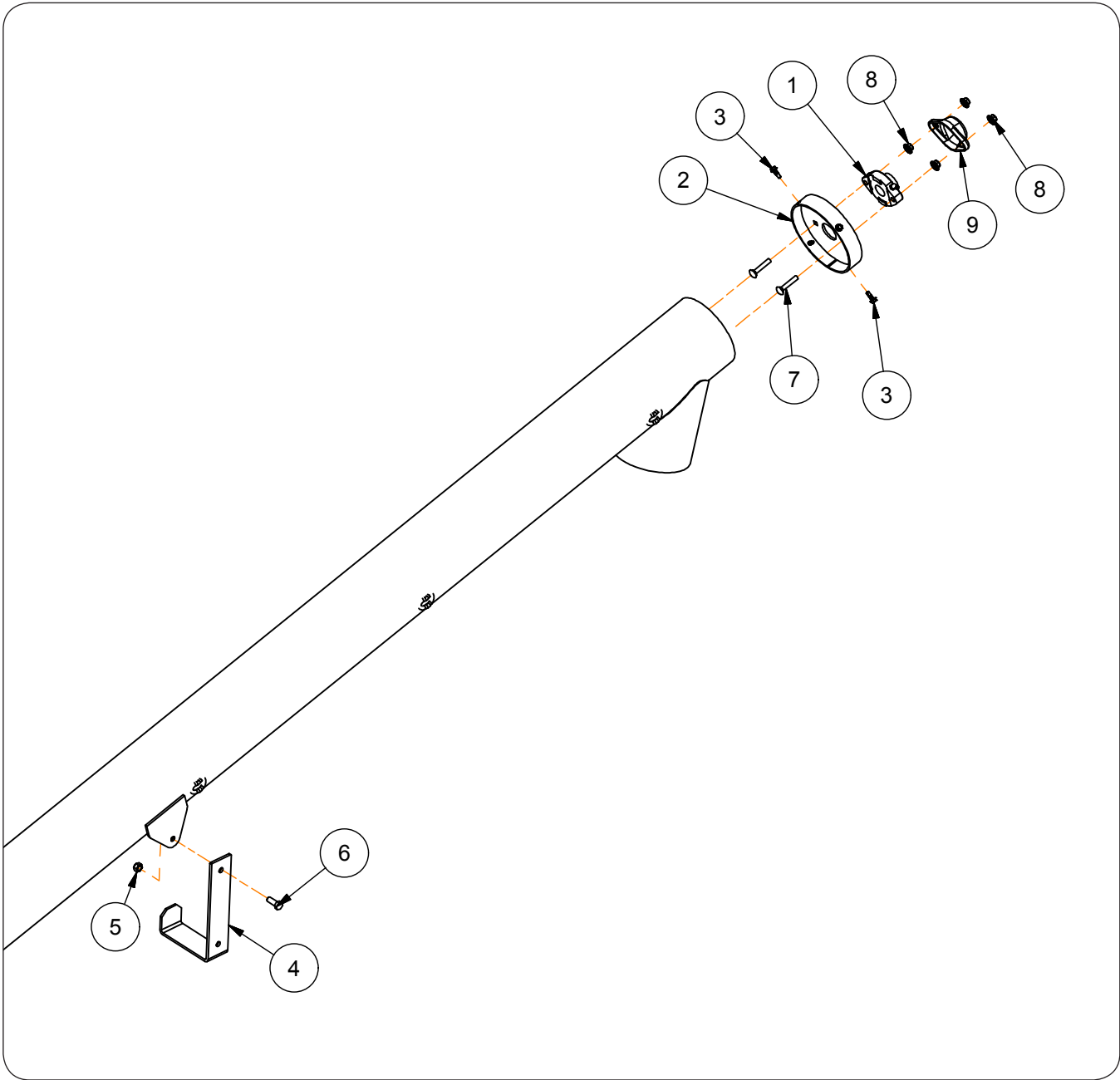
U-Joint, Pulley, Engine, & Battery Components

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

| ITEM | PART NO. | DESCRIPTION | QTY | NOTES |
|------|--------------|--|-----|-------|
| 4 | 28377CG | Adjustment Plate | 1 | |
| 5 | 28418B | Battery Bracket | 2 | |
| 6 | 28419CG | Battery Cover | 1 | |
| 7 | 29157CG | Shield Weldment | 1 | |
| 8 | 29160CG | Outer Shield Weldment | 1 | |
| 9 | 29275CG | Engine Mount Weldment | 1 | |
| 10 | 29294 | Shaft - Keyed | 1 | |
| 11 | 29378CG | Shield Assembly | 1 | |
| 12 | 800713 | Key 1/4 x 1/4 x 1 1/2 | 2 | |
| 13 | 9001396 | Self Drilling Screw #10-16 x 1/2" | 1 | |
| 14 | 9001501 | Key 1/4" x 1/4" x 1" | 1 | |
| 15 | 900513 | Grommet 1 3/4" ID | 2 | |
| 16 | 901659 | Pulley/Sheave w/ Set Screws | 1 | |
| 17 | 901673 | Honda Engine 4.8 Net HP Gas, 9.9 Cu. In. | 1 | |
| | 901333 | key/Ignition Replacement | | |
| 18 | 902059 | Pulley 2.95 Dia. w/ Set Screws | 1 | |
| 19 | 902775 | Battery 12V | 1 | |
| 20 | 903115 | Belt | 1 | |
| 21 | 903165 | U-Joint | 1 | |
| 22 | 91256 | Large Flange Screw 5/16-18UNC x 3/4 | 4 | |
| 23 | 91257 | Flange Nut 5/16-18UNC | 8 | |
| 24 | 91263 | Large Flange Nut 3/8-16UNC | 4 | |
| 25 | 9388-024 | Carriage Bolt 5/16-18UNC x 3/4 | 4 | |
| 26 | 9388-027 | Carriage Bolt 5/16-18UNC x 1 1/2 | 2 | |
| 27 | 9388-051 | Carriage Bolt 3/8-16UNC x 1 | 4 | |
| 28 | 9390-007 | Capscrew 1/4-20UNC x 1 1/2 | 2 | |
| | 9390-008 | Capscrew 1/4-20UNC x 1 3/4 | 1 | |
| 29 | 9390-045 | Capscrew 5/16-18UNC x 5 1/2 | 3 | |
| 30 | 9390-100 | Capscrew 1/2-13UNC x 1 1/4 | 2 | |
| 31 | 9390-102 | Capscrew 1/2-13UNC x 1 3/4 | 2 | |
| 32 | 9394-002 | Hex Nut 1/4"-20UNC | 1 | |
| 33 | 9394-004 | Hex Nut 5/16-18UNC | 2 | |
| 34 | 9395-010 | Hex Jam Nut 1/2-13UNC | 1 | |
| 35 | 9404-019 | Lock Washer 5/16" | 2 | |
| 36 | 9405-064 | Flat Washer 1/4" USS | 1 | |
| 37 | 9405-086 | Flat Washer 1/2 SAE | 3 | |
| 38 | 9500341 | Carriage Bolt 5/16-18UNC x 1 3/4 Full Threaded | 4 | |
| 39 | 9500551 | Battery Cable (Red) | 1 | |
| 40 | 9500552 | Battery Cable (Black) | 1 | |
| 41 | 2008982 | Actuator Replacement Kit | 1 | |
| 42 | 97048 | Decal, WARNING "Pinch Point" | 1 | |
| 43 | 9800 | Locknut 1/2-13UNC | 4 | |
| 44 | 9807 | Locknut 5/16-18UNC | 3 | |
| 45 | 9936 | Locknut 1/4-20UNC | 3 | |
| 46 | TA0-903088-0 | Bearing w/Flange 1" ID | 2 | |
| 47 | TA0-907228-0 | Capscrew 1/2-13UNC x 7 1/2 (Full Threaded) | 1 | |
| 48 | TA0-908394-0 | Pop Rivets | 4 | |
| 49 | TA1-906109-0 | Decal, WARNING "Moving Parts" | 1 | |

Auger Discharge End Components

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



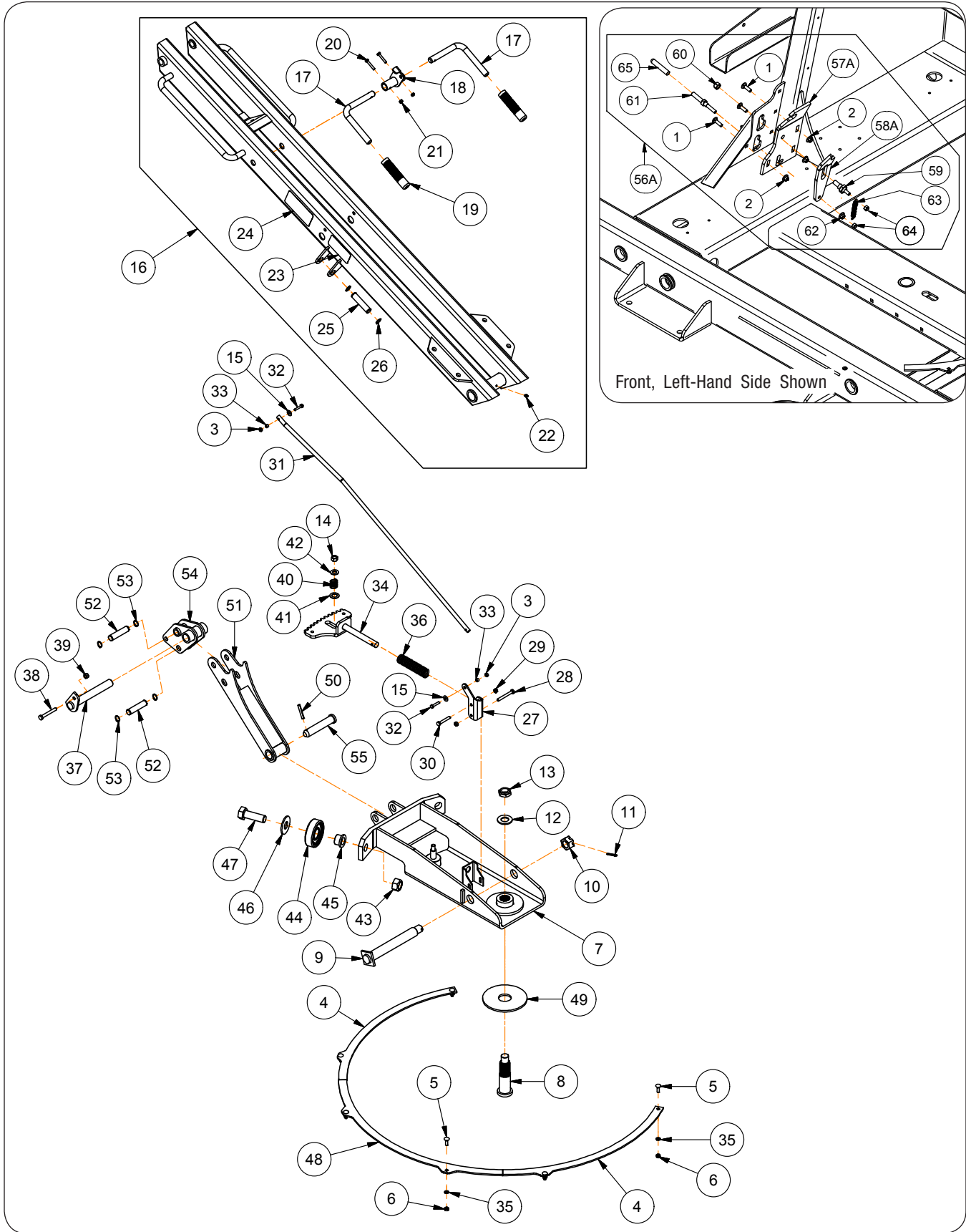
Auger Discharge End Components

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

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

Pivot Arm Components

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



Pivot Arm Components

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

| ITEM | PART NO. | DESCRIPTION | QTY | NOTES |
|------|------------|----------------------------------|-----|------------------------------|
| 1 | 9388-052 | Carriage Bolt 3/8-16UNC x 1 1/4 | 6 | Grade 5 |
| 2 | 91263 | Flange Nut 3/8-16UNC | 6 | |
| 3 | 9936 | Locknut 1/4-20UNC | 2 | |
| 4 | 24863 | Plate/Segment | 2 | |
| 5 | 9388-025 | Carriage Bolt 5/16-18UNC x 1 | 6 | Grade 5 |
| 6 | 9394-004 | Hex Nut 5/16-18UNC | 6 | |
| 7 | 29032CG | Pivot Weldment | 1 | |
| 8 | 29968 | Splined Shaft 2" Dia. | 1 | |
| 9 | 27512 | Pin Weldment | 1 | |
| 10 | 9393-020 | Slotted Nut 1-14UNS | 1 | |
| 11 | 9391-035 | Cotter Pin 5/32" Dia. x 1 1/2 | 1 | |
| 12 | 9405-116 | Flat Washer 1" | 1 | |
| 13 | 96976-040 | Thin Locknut 1-14UNS | 1 | |
| 14 | 9800 | Locknut 1/2-13UNC | 9 | |
| 15 | 9405-064 | Flat Washer 1/4 USS | 2 | |
| 16 | 29486CG | Arm Assembly w/Decals | 1 | Includes Items 17 through 26 |
| 17 | 24023CG | Handle | 2 | |
| 18 | 29178CG | Cam Weldment | 1 | |
| 19 | 92928 | Hand Grip 3/4" ID | 2 | |
| 20 | 9390-007 | Capscrew 1/4-20UNC x 1 1/2 | 2 | |
| 21 | 9936 | Locknut 1/4-20UNC | 2 | |
| 22 | 91160 | Grease Zerk | 1 | |
| 23 | 95839 | Decal, WARNING (Pinch Point) | 2 | |
| 24 | 98229 | Decal, WARNING (Lower Equipment) | 2 | |
| 25 | 29248 | Pin 3/4" Dia. | 2 | |
| 26 | 903145-018 | Retaining Ring 3/4" Nom. | 4 | |
| 27 | 29179CG | Bracket | 1 | |
| 28 | 9390-037 | Capscrew 5/16-18UNC x 2 3/4 | 1 | Grade 5 |
| 29 | 9807 | Locknut 5/16-18UNC | 2 | |
| 30 | 9390-034 | Capscrew 5/16-18UNC x 2 | 1 | |
| 31 | 29180CG | Push Rod | 1 | |
| 32 | 9390-006 | Capscrew 1/4-20UNC x 1 1/4 | 2 | Grade 5 |
| 33 | 22018 | Bushing 3/8" OD | 2 | |
| 34 | 28453CG | Latch Weldment | 1 | |
| 35 | 9404-019 | Lock Washer 5/16" | 6 | |
| 36 | 902616 | Spring 5" Long | 1 | |
| 37 | 28526 | Pin Weldment 1" Dia. | 1 | |
| 38 | 9390-062 | Capscrew 3/8-16UNC x 2 3/4 | 1 | Grade 5 |
| 39 | 9928 | Locknut 3/8-16UNC | 1 | |
| 40 | 902602 | Spring 1" Long | 1 | |

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Pivot Arm Components (continued)

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

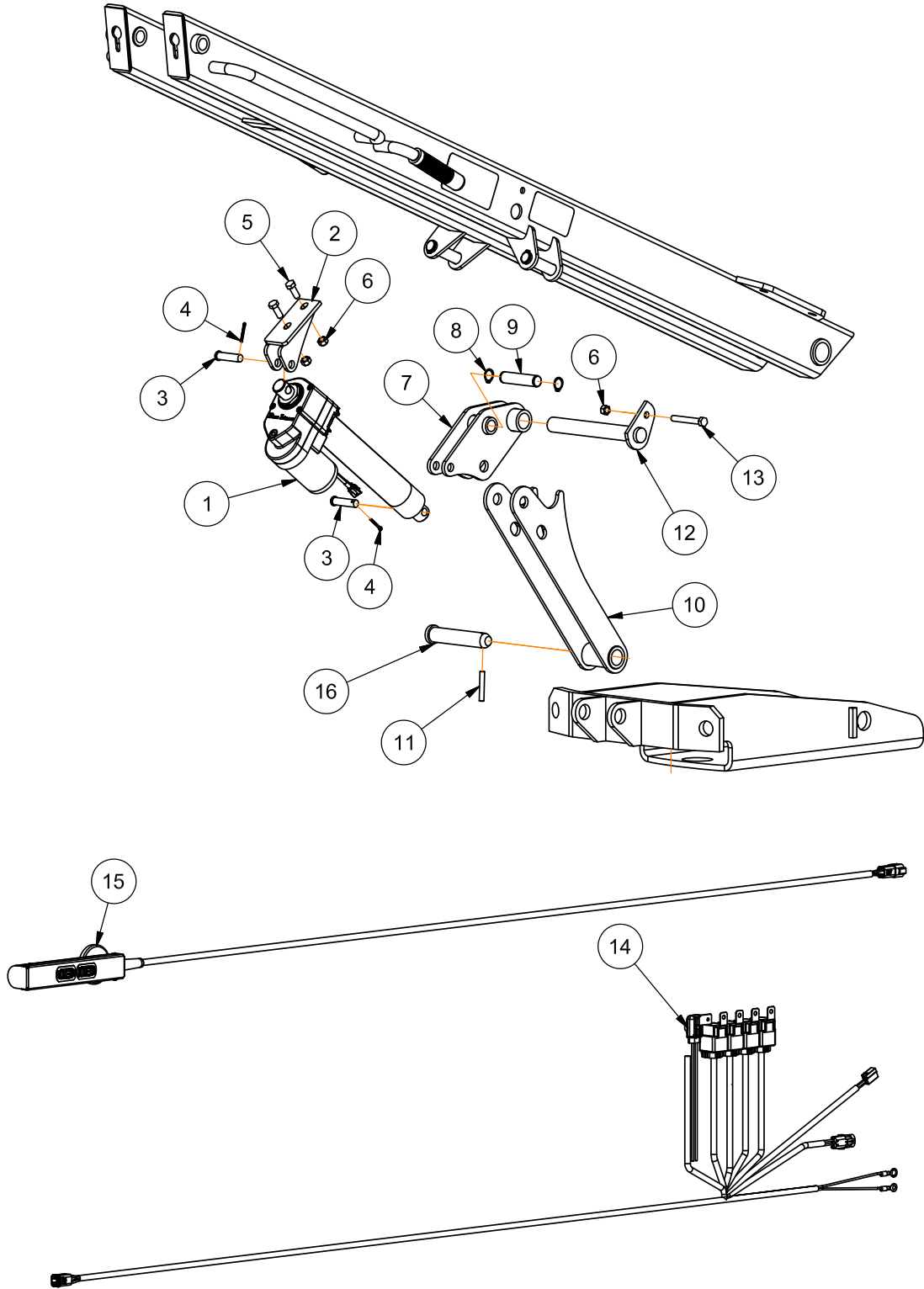
| ITEM | PART NO. | DESCRIPTION | QTY | NOTES |
|------|------------|------------------------------|-----|-------------------------|
| 41 | 9500091 | Nylon Washer | 1 | |
| 42 | 9405-086 | Flat Washer 1/2" SAE | 1 | |
| 43 | 9663 | Top Locknut 1-8"UNC | 2 | |
| 44 | 2000189 | Bearing Assembly | 2 | |
| 45 | 23951 | Bushing | 2 | |
| 46 | 9405-118 | Flat Washer 1" USS | 2 | |
| 47 | 9390-187 | Capscrew 1-8UNC x 3 | 2 | Grade 5 |
| 48 | 2001301 | Plate/Segment | 1 | |
| 49 | 901186 | Poly Washer | 1 | |
| 50 | 9392-159 | Roll Pin 5/16" Dia. x 2 | 2 | |
| 51 | 29168CG | Pivot Link Weldment (Long) | 1 | |
| 52 | 27922 | Pin 3/4" Dia. x 3 1/4 | 2 | |
| 53 | 903145-018 | Retaining Ring-External 3/4" | 4 | |
| 54 | 29170CG | Pivot Link Weldment (Short) | 1 | |
| 55 | 9500423 | Pin 1" Dia. x 5 1/8 | 1 | |
| 56A | 29220CG | Latch Assembly LH | 1 | Includes 57A through 65 |
| 56B | 29221CG | Latch Assembly RH | 1 | Includes 57B through 65 |
| 57A | 29200CG | Latch Plate LH | 1 | |
| 57B | 29201CG | Latch Plate RH | 1 | |
| 58A | 29217CG | Inside Plate LH | 1 | |
| 58B | 29218CG | Inside Plate RH | 1 | |
| 59 | 29209 | Double Threaded Pin | 2 | |
| 60 | 29219 | Latch Pin | 2 | |
| 61 | 91263 | Flange Nut 3/8-16UNC | 2 | |
| 62 | 9800 | Locknut 1/2-13UNC | 2 | |
| 63 | 903141 | Extension Spring | 2 | |
| 64 | 9928 | Locknut 3/8-16UNC | 4 | |
| 65 | 902603 | Hand Grip | 2 | |

Notes

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Electric Conveyor Lift Package #2000623

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



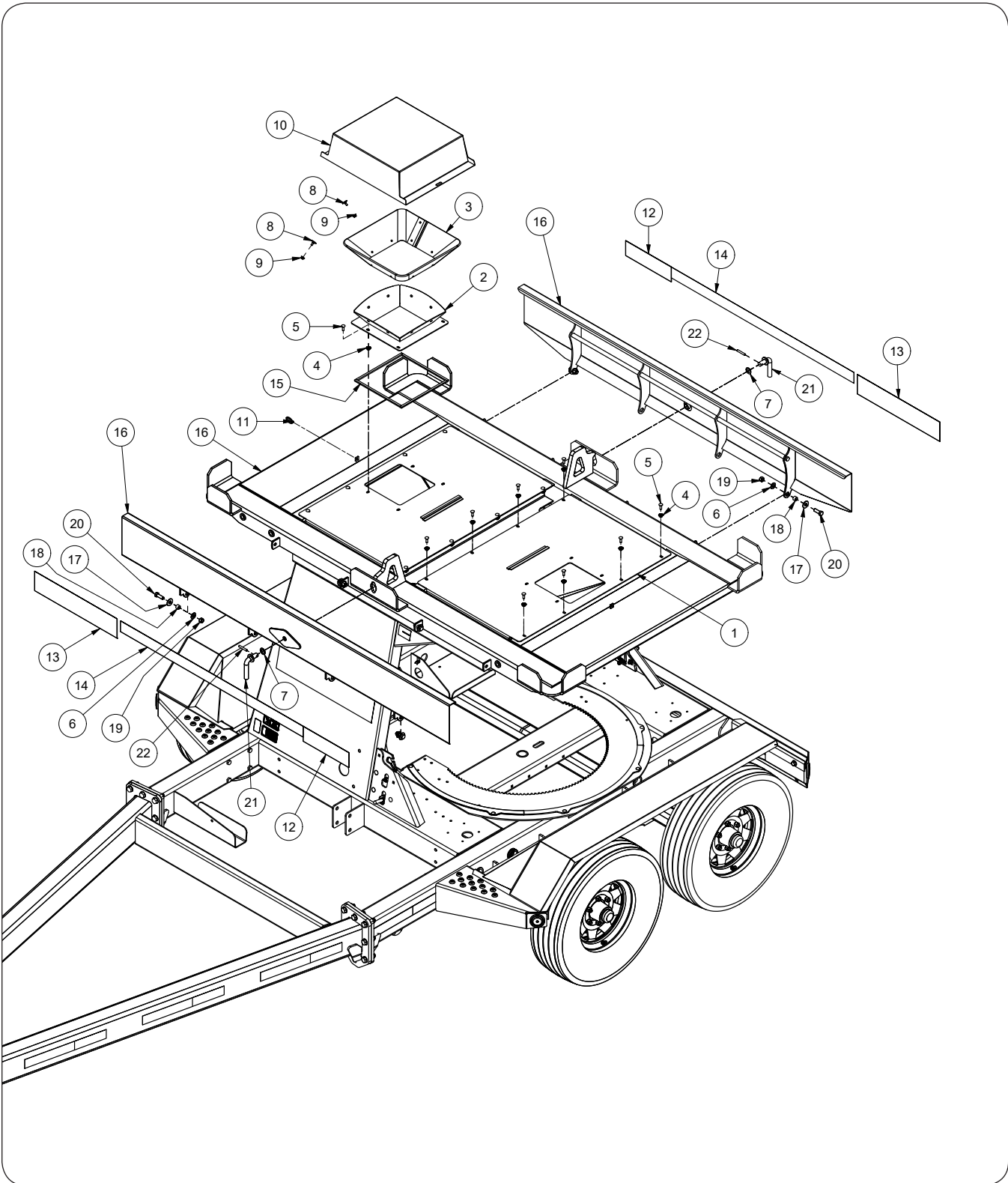
Electric Conveyor Lift Package #2000623

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

| ITEM | PART NO. | DESCRIPTION | QTY. | NOTES |
|------|------------|--------------------------------|------|---------|
| 1 | 903116 | Electric Actuator | 1 | |
| 2 | 2009372CG | Clevis Weldment | 1 | |
| 3 | 902280 | Clevis Pin 1/2" Dia. x 2 5/32 | 2 | |
| 4 | 9391-023 | Cotter Pin 1/8" Dia. x 1 | 2 | |
| 5 | 9390-055 | Capscrew 3/8-16UNC x 1 | 2 | Grade 5 |
| 6 | 9928 | Locknut 3/8-16UNC | 3 | |
| 7 | 29170CG | Pivot Link Weldment Short | 1 | |
| 8 | 903145-018 | Retaining Ring - External 3/4" | 2 | |
| 9 | 29248 | Pin 3/4" Dia. x 3 1/4 | 1 | |
| 10 | 29168CG | Pivot Link Weldment Long | 1 | |
| 11 | 9392-159 | Roll Pin 5/16" Dia. x 2 | 1 | |
| 12 | 28526 | Pin Weldment | 1 | |
| 13 | 9390-062 | Capscrew 3/8-16UNC x 2 3/4 | 1 | Grade 5 |
| 14 | 2000588 | 2-Function Wire Harness | 1 | |
| 15 | 2000617 | Switch Assembly | 1 | |
| 16 | 9500423 | Pin 1" Dia. x 5 1/8 | 1 | |

Platform Components

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



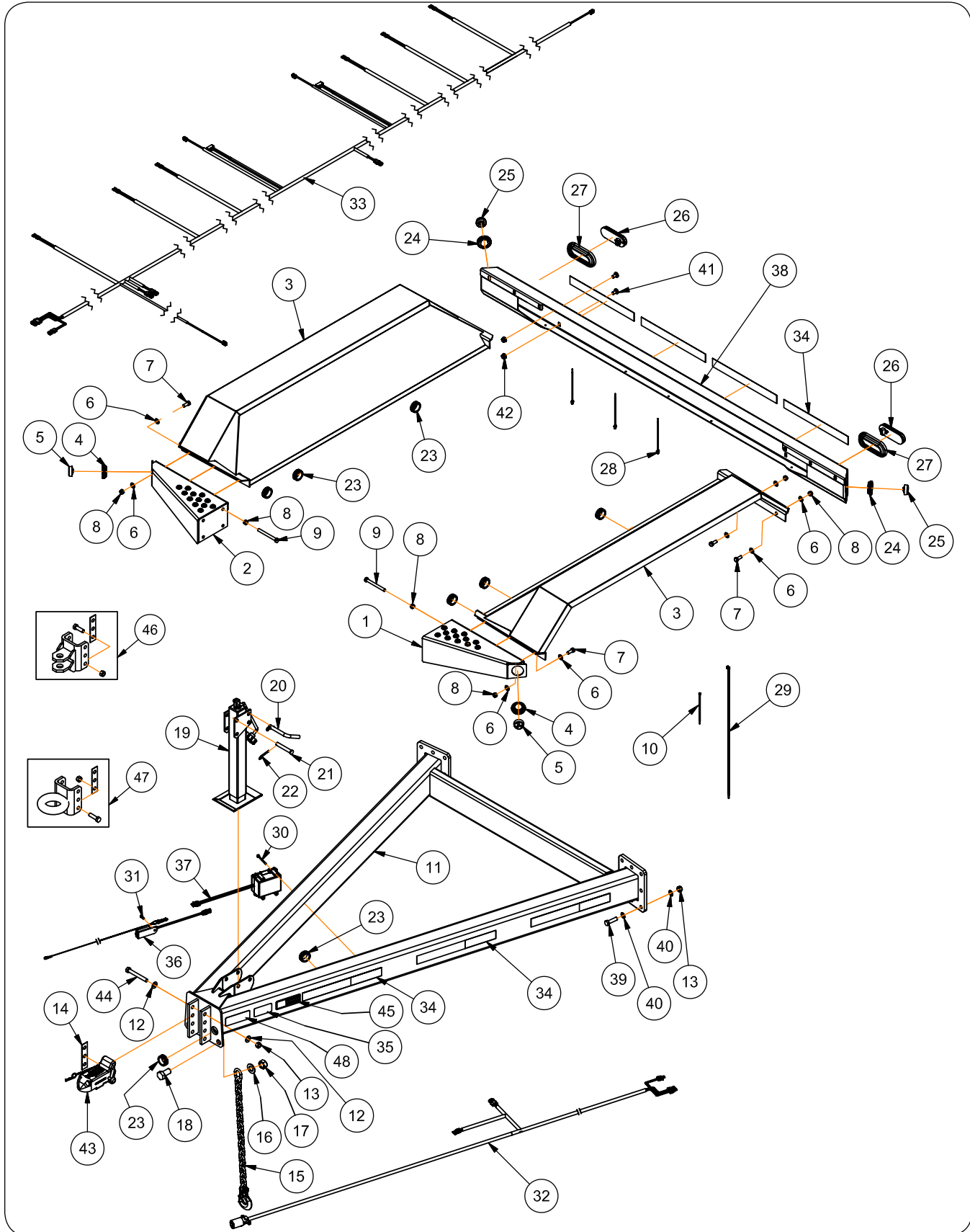
Platform Components

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

| ITEM | PART NO. | DESCRIPTION | QTY | NOTES |
|------|-----------|-------------------------------------|-----|---------|
| 1 | 2010229DG | Platform Cover =Dove Grey= | 2 | |
| 2 | 27825DG | Hopper Weldment =Dove Grey= | 2 | |
| 3 | 27826 | Rubber Hopper | 2 | |
| 4 | 91257 | Large Flange Hex Nut 5/16"-18UNC | 24 | |
| 5 | 9388-025 | Carriage Bolt 5/16"-18UNC x 1" | 24 | Grade 5 |
| 6 | 903108 | Flat Washer, 5/8" (Stainless Steel) | 2 | |
| 7 | 9500091 | Nylon Washer, 3/4" | 4 | |
| 8 | 902006 | Elevator Bolt 1/4"-20UNC x 3/4" | 18 | |
| 9 | 97189 | Large Flange Hex Nut 1/4"-20UNC | 18 | |
| 10 | 27827CG | Hopper Cover =Charcoal Grey= | 2 | |
| 11 | 9093 | Klik Pin 3/16" Dia. | 2 | |
| 12 | 9500464 | Decal, Model 102 | 2 | |
| 13 | 902983 | Decal, SeedVeyor | 2 | |
| 14 | 902980 | Decal Stripe | 2 | |
| 15 | 900152 | Foam Rubber | 1 | |
| 16 | 29030DG | Side Panel Weldment =Dove Grey= | 2 | |
| 17 | 9405-088 | Flat Washer 1/2" USS | 8 | |
| 18 | 24550 | Bushing 1/2" Long | 8 | |
| 19 | 9800 | Locknut 1/2"-13UNC | 8 | |
| 20 | 9390-101 | Capscrew 1/2"-13UNC x 1 1/2" | 8 | Grade 5 |
| 21 | 2001336 | Pin Weldment | 2 | |
| 22 | 91144-186 | Spiral Pin 5/16" Dia. x 2" | 2 | |

Undercarriage, Hitch & Fender Components

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



Undercarriage, Hitch & Fender Components

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

| ITEM | PART NO. | DESCRIPTION | QTY | NOTES |
|------|-----------|--|-----|---------|
| 1 | 29237CG | Fender Step/Mount LH | 1 | |
| 2 | 29238CG | Fender Step/Mount RH | 1 | |
| 3 | 29240CG | Fender Weldment | 2 | |
| 4 | 900956 | Grommet | 8 | |
| 5 | 900954 | Light/Amber (Round) | 2 | |
| 6 | 9405-086 | Flat Washer 1/2" SAE | 22 | |
| 7 | 9390-100 | Capscrew 1/2-13UNC x 1 1/4 | 14 | Grade 5 |
| 8 | 9800 | Locknut 1/2-13UNC | 16 | |
| 9 | 9390-113 | Capscrew 1/2-13UNC x 5 | 8 | |
| 10 | 9000106 | Cable Tie 6" Long | A/R | |
| 11 | 28280CG | Hitch Assembly | 1 | |
| 12 | 9405-098 | Flat Washer 5/8" SAE | 6 | |
| 13 | 9801 | Locknut 5/8-11UNC | 27 | |
| 14 | 25347B | Shim | 2 | |
| 15 | 98792 | Chain w/Hook & C-Link Asy | 2 | |
| 16 | 9405-116 | Flat Washer 1" SAE | 2 | |
| 17 | 9663 | Locknut 1-8UNC | 2 | |
| 18 | 91299-183 | Capscrew 1-8UNC x 2 | 2 | Grade 8 |
| 19 | 902326 | Jack Stand Weldment 8000# | 1 | |
| 20 | 84979 | Bent Pin 5/8" Dia. | 1 | |
| 21 | 9805 | Clevis Pin 5/8" Dia. x 4 | 1 | |
| 22 | 9806 | Hairpin Cotter .148" Dia. x 2.687 | 1 | |
| 23 | 98487 | Grommet 1 3/4" Dia. | 8 | |
| 24 | 900956 | Grommet | 2 | |
| 25 | 900955 | Light/Red (Round) | 2 | |
| 26 | 97180 | Light/Red (Oval) | 2 | |
| 27 | 97182 | Grommet | 2 | |
| 28 | 99599 | Cable Tie 8.39" Long | A/R | |
| 29 | 94038 | Cable Ties 32" Long | A/R | |
| 30 | 902238 | Flange Bolt 1/4-20UNC x 3 (Grade 5) | 4 | |
| 31 | 9512 | Screw/Self Drill 1/4-14 x 1 | 2 | |
| 32 | 25045 | Front Wiring Harness 165" | 1 | |
| 33 | 25046 | Rear Wiring Harness 352" | 1 | |
| 34 | 25003 | Conspicuity Marking 18" | 10 | |
| 35 | 97961 | Decal WARNING (Read & Understand Manual) | 1 | |

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Undercarriage, Hitch & Fender Components (continued)

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

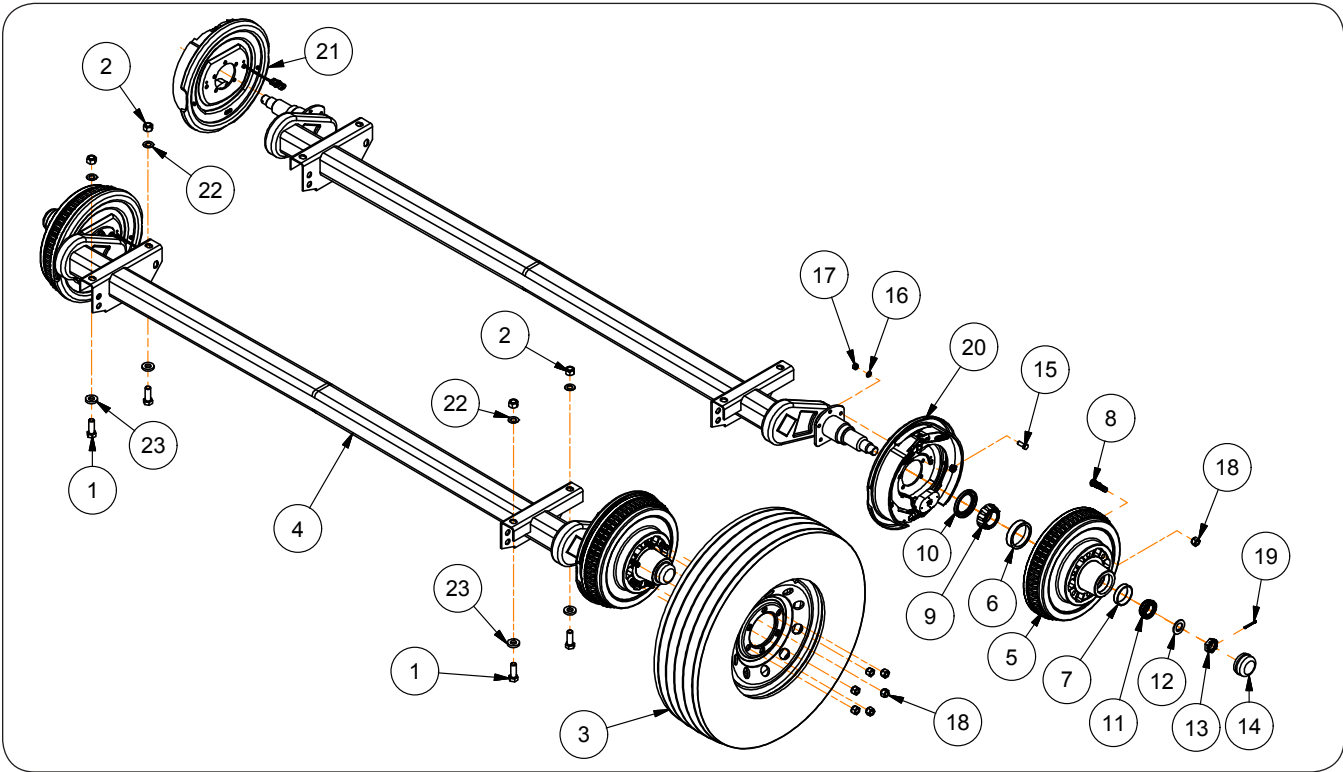
| TEM | PART NO. | DESCRIPTION | QTY | NOTES |
|-----|-----------|---------------------------------------|-----|---------|
| 36 | 900786 | Breakaway Electric Switch Complete | 1 | |
| 37 | 902764 | Battery w/Charger & Box | 1 | |
| 38 | 29230CG | Light Bar Weldment | 1 | |
| 39 | 9390-125 | Capscrew 5/8-11UNC x 2 1/4 | 16 | Grade 5 |
| 40 | 903108 | Flat Washer 5/8" (Stainless Steel) | 40 | |
| 41 | 9388-102 | Capscrew 1/2-13UNC x 1 | 4 | Grade 5 |
| 42 | 91267 | Flange Nut 1/2-13UNC | 4 | |
| 43 | 2000357CG | Ball Hitch Kit with Mounting Hardware | 1 | |
| 44 | 9390-134 | Capscrew 5/8-11UNC x 5 | 3 | Grade 5 |
| 45 | 9500710 | Decal CAUTION (Transport Chains) | 1 | |
| 46 | 2000264B | Optional Clevis Hitch Kit | - | |
| 47 | 2000265B | Optional Pintle Hitch Kit | - | |
| 48 | 9500345 | Decal, CAUTION (Towing...) | 1 | |

Notes

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Axle & Wheel Components

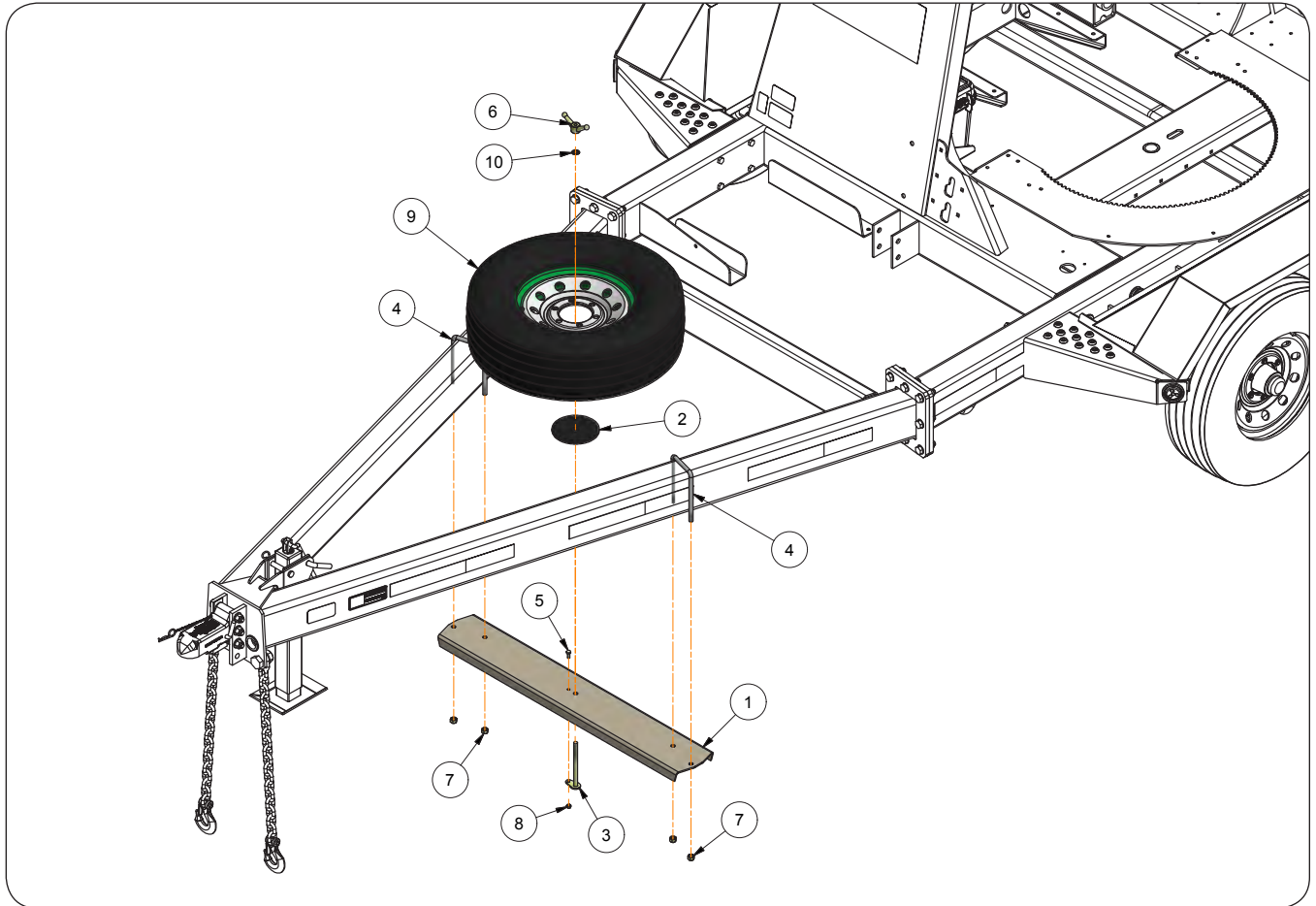
Please visit www.unverferth.com/parts/ for the most current parts listing.



| ITEM | PART NO. | DESCRIPTION | QTY | NOTES |
|------|----------|---------------------------------------|-----|-----------------------------|
| 1 | 9390-123 | Capscrew 5/8-11UNC x 1 3/4 | 8 | Grade 5 |
| 2 | 9801 | Locknut 5/8-11UNC | 8 | |
| 3 | 98115 | Wheel/Tire | 4 | |
| 4 | 903052B | Torsion Axle Assembly w/Brakes | 2 | Includes Items 5 through 21 |
| 5 | 900767B | Hub 6 Bolt Sub Assy with Cups & Studs | 4 | Includes Items 6 through 8 |
| 6 | 91812 | Bearing Cup (25520) | 4 | |
| 7 | 91813 | Bearing Cup (15245) | 4 | |
| 8 | 97346 | Stud Bolt 1/2-20UNF x 2 (Grade 8) | 24 | |
| 9 | 91822 | Bearing Cone (25580) | 4 | |
| 10 | 97342 | Seal 2 1/4 ID x 3.376 OD | 4 | |
| 11 | 91823 | Bearing Cone (15123) | 4 | |
| 12 | 97343 | Washer/Key 1.032 ID | 4 | |
| 13 | 97344 | Slotted Jam Nut 1-14UNS | 4 | |
| 14 | 97345 | Hub Cap | 4 | |
| 15 | 9390-055 | Capscrew 3/8-16UNC x 1 | 16 | Grade 5 |
| 16 | 9404-021 | Lock Washer 3/8" | 16 | |
| 17 | 9394-006 | Hex Nut 3/8-16UNC | 16 | |
| 18 | 91875 | Tapered Nut 1/2-20UNF | 24 | |
| 19 | 9391-035 | Cotter pin 5/32" Dia x 1 1/2 | 4 | |
| 20 | 97348 | Electric Brake Cluster, LH | 2 | |
| 21 | 97349 | Electric Brake Cluster, RH | 2 | |
| 22 | 903108 | Flat Washer 5/8" (Stainless Steel) | 8 | |
| 23 | 9746 | Flat Washer 5/8" | 8 | |

Spare Tire Kit Components

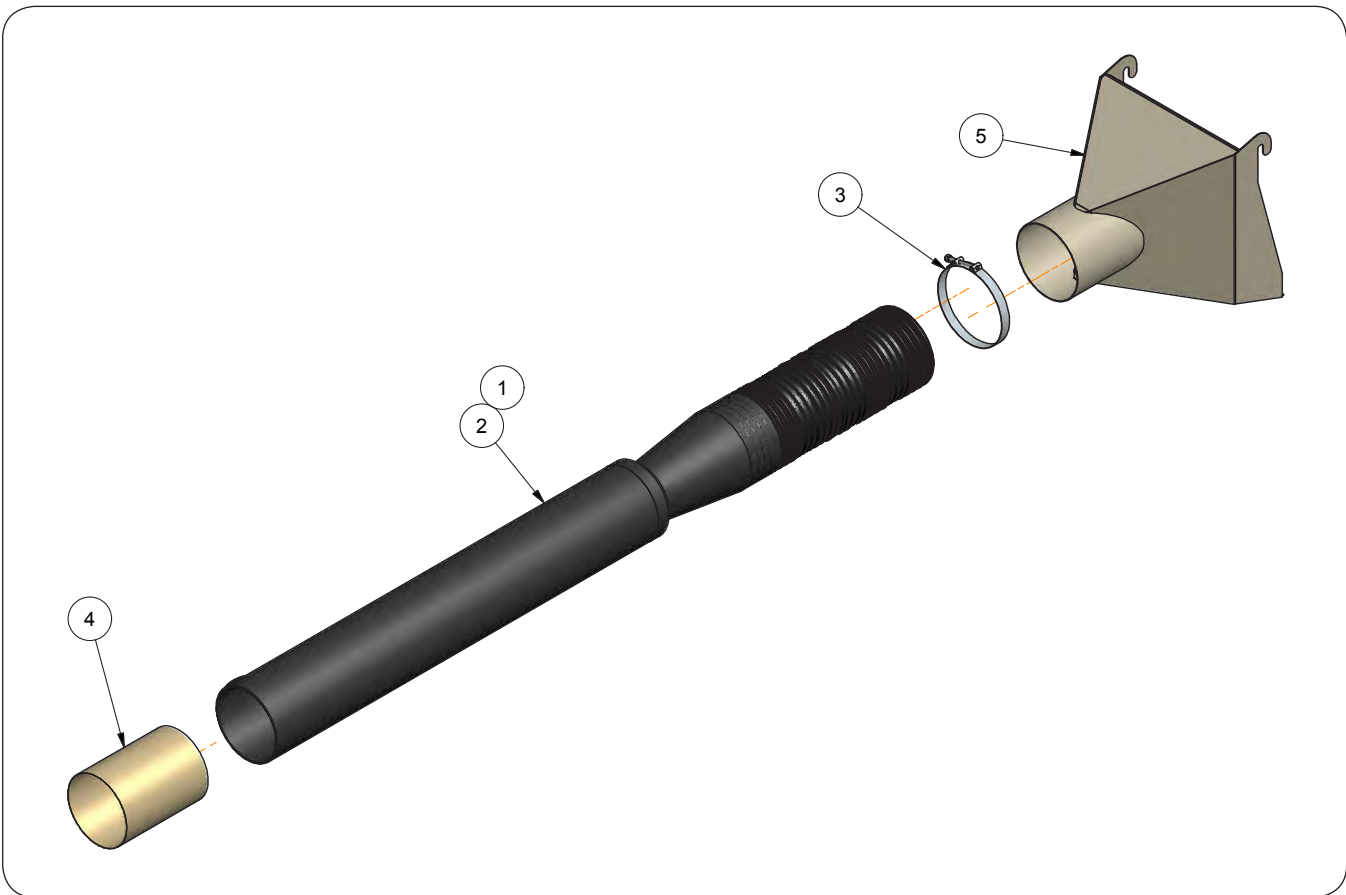
Please visit www.unverferth.com/parts/ for the most current parts listing.



| ITEM | PART NO. | DESCRIPTION | QTY | NOTES |
|------|----------|--|-----|-----------------------------|
| | 2000622B | Spare Tire Kit | - | Includes Items 1 through 10 |
| 1 | 29736B | Mounting Plate | 1 | |
| 2 | 29744B | Washer | 1 | |
| 3 | 29751 | Pin Weldment 1/2" Dia. x 6 5/8 | 1 | |
| 4 | 91323 | U-Bolt 1/2-13UNC x 7 1/8 | 2 | |
| 5 | 9390-028 | Capscrew 5/16-18UNC x 3/4 | 1 | Grade 5 |
| 6 | 9500475 | Handle Wing Nut 1/2-13UNC | 1 | |
| 7 | 9800 | Locknut 1/2-13UNC | 4 | |
| 8 | 9807 | Locknut 5/16-18UNC | 1 | |
| 9 | 98115 | Tire & Wheel Assembly (6 x 15) | 1 | TL225/75D15 |
| 10 | TA500470 | Lock Washer - External Tooth 1/2" I.D. | 1 | |

Telescopic Spout 2-Stage

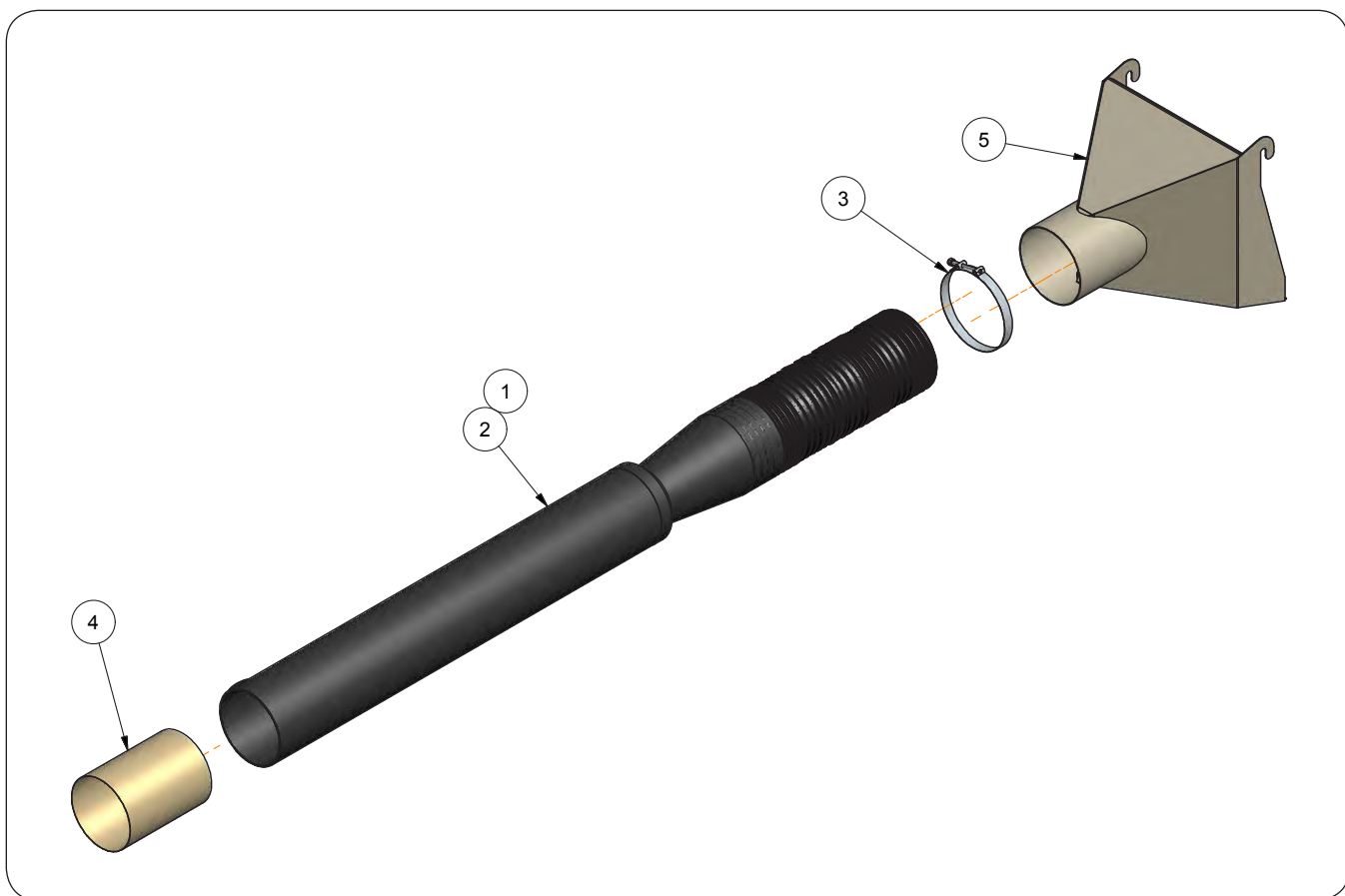
Please visit www.unverferth.com/parts/ for the most current parts listing.



| ITEM | PART NO. | DESCRIPTION | NOTES |
|------|----------|---|----------------------|
| 1 | 27629 | 6" Conveyor Telescopic Spout (71" Extended; 51 1/2 Collapsed) | Includes Items 2 & 4 |
| 2 | 95870 | Telescopic Spout | |
| 3 | 98060 | Clamp/T-Bolt | |
| 4 | 22577 | Sock Spout Extension | |
| 5 | 26585CG | Spout Weldment | |

Telescopic Spout 3-Stage

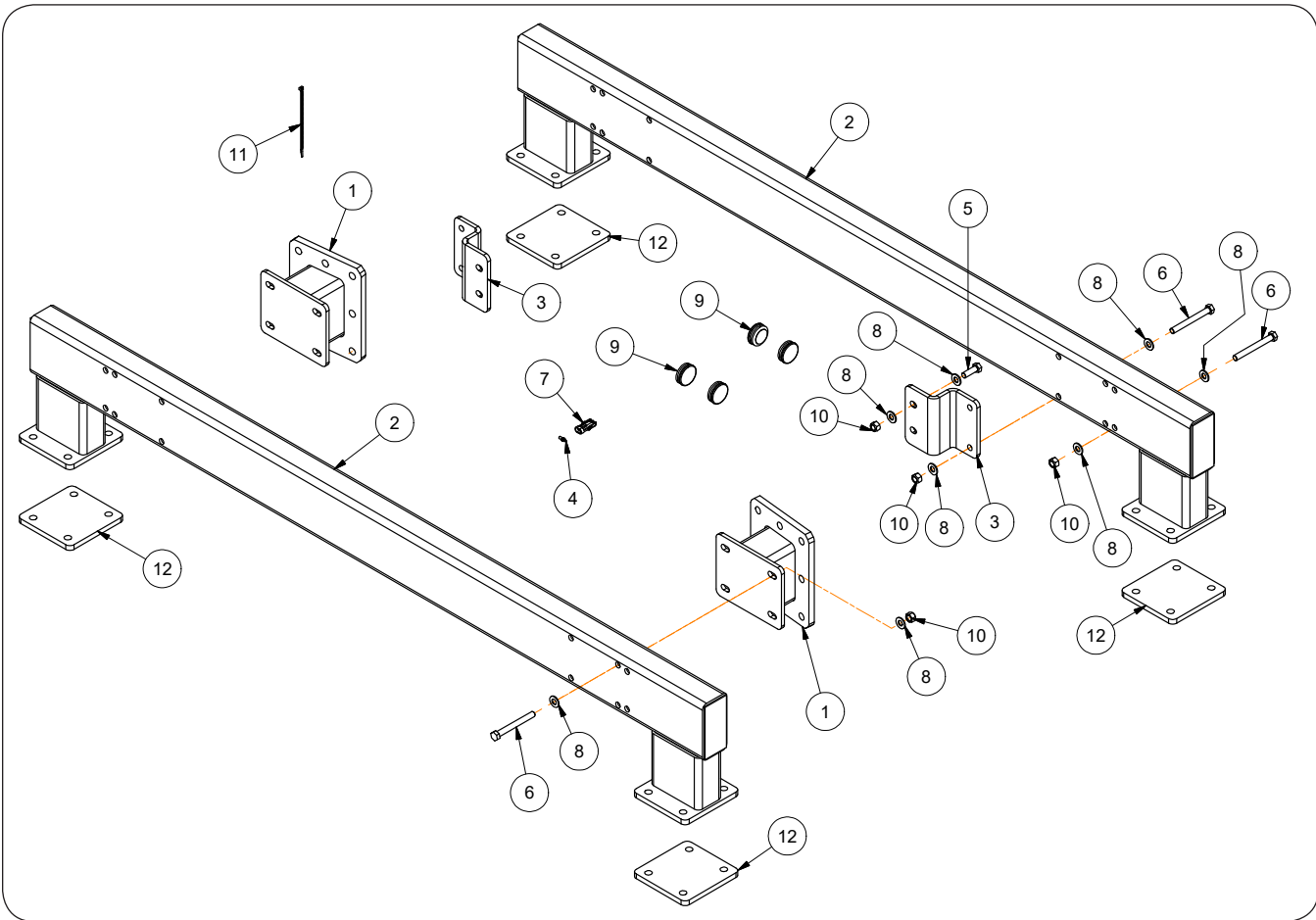
Please visit www.unverferth.com/parts/ for the most current parts listing.



| ITEM | PART NO. | DESCRIPTION | NOTES |
|------|----------|--|------------------------|
| 1 | 22578 | 6" Conveyor Telescopic Spout 6'-10' ONLY | Includes Items 2, 3, 4 |
| 2 | 96855 | Telescopic Spout | |
| 3 | 98060 | Clamp/T-Bolt | |
| 4 | 22577 | Sock Spout Extension | |
| 5 | 26585CG | Spout Weldment | |

Platform for Units Less Undercarriage Kit #2003134CG

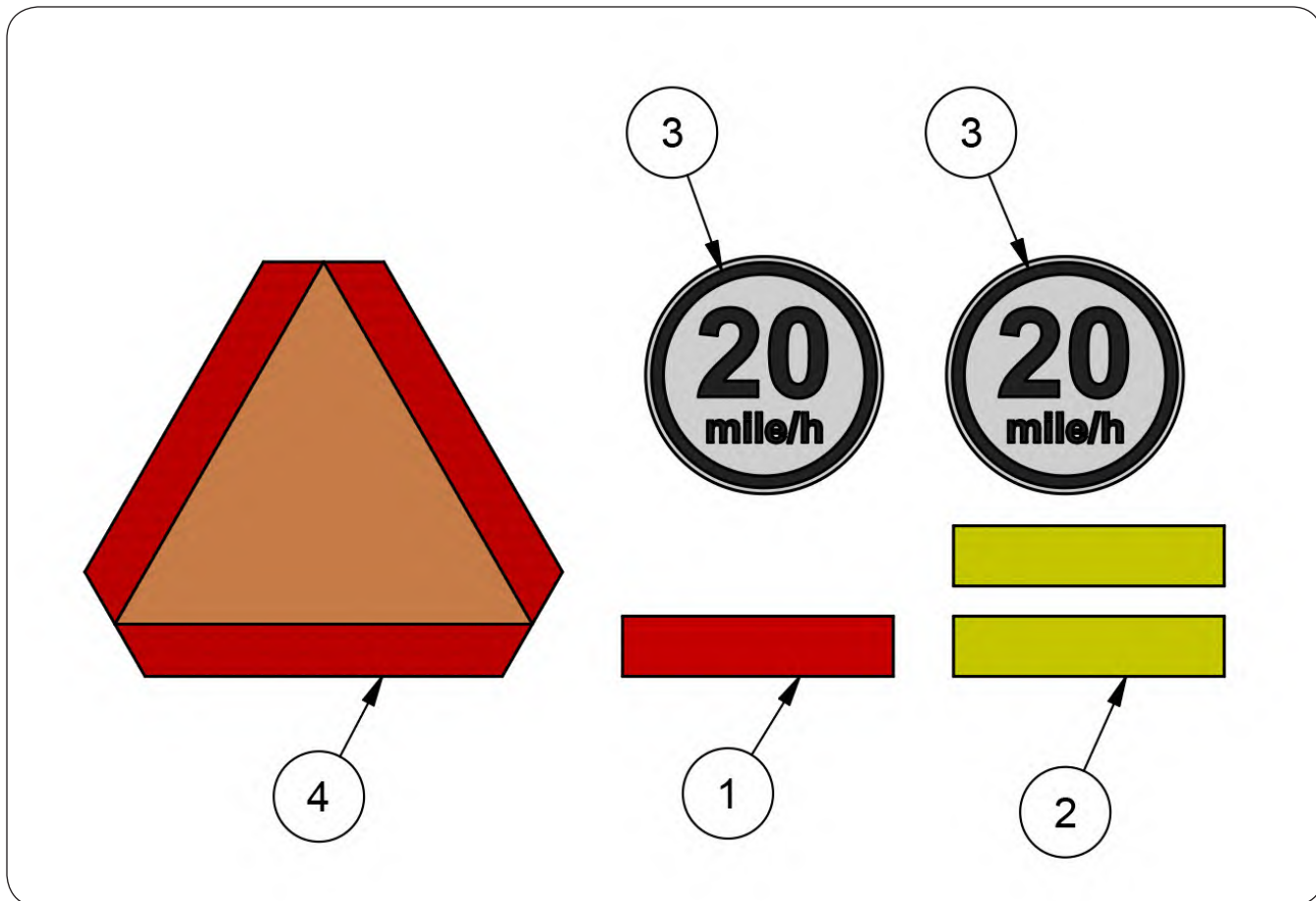
Please visit www.unverferth.com/parts/ for the most current parts listing.



| ITEM | PART NO. | DESCRIPTION | QTY | NOTES |
|------|-----------|---|-----|-------|
| 1 | 2003078CG | Adapter Bracket Weldment =Charcoal Grey= | 2 | |
| 2 | 2003079CG | Stand Weldment =Charcoal Grey= | 2 | |
| 3 | 2003126CG | S-Bracket =Charcoal Grey= | 2 | |
| 4 | 901710 | Cavity Plug (Green) | 2 | |
| 5 | 9390-101 | Capscrew 1/2-13UNC x 1 1/2 (Grade 5) | 4 | |
| 6 | 9390-112 | Capscrew 1/2-13UNC x 4 1/2 (Grade 5) | 16 | |
| 7 | 98004 | Connector Assembly Shroud 2-Male Contacts | 1 | |
| 8 | 9405-086 | Flat Washer 1/2" SAE | 40 | |
| 9 | 9501151 | Round Plug | 12 | |
| 10 | 9800 | Locknut 1/2-13UNC | 20 | |
| 11 | 9000106 | Cable Tie 7 1/2" Long | 1 | |
| 12 | 2003075B | Backer Plate | 4 | |

AG Decal Package (Optional) - SMV, SIS Decals, & Reflectors

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



| ITEM | PART NO. | DESCRIPTION | QTY. | NOTES |
|------|----------|-------------------------|------|-------|
| | 2010513 | AG Decal Package Option | | |
| 1 | 9003126 | Reflector, RED | 1 | |
| 2 | 9003127 | Reflector, AMBER | 2 | |
| 3 | 9008714 | Decal, Rear SIS 20MPH | 2 | |
| 4 | 97530 | Decal, SMV Emblem | 1 | |



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