



UM Bulk Seed Handling

**SEED RUNNER® Bulk Tender
MODEL 3955XL & 3955DXL**

Serial Number D60240100 & Higher

Part No. 2005347

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

When ordering parts or when requesting further information or assistance, always give the following information:

- Machine name
- Serial number

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 Number _____

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 Unverferth products, all specifications and information contained herein are subject to change without notice.

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FOR LED WORK LIGHT INFORMATION, PLEASE REFER TO YOUR LED WORK LIGHT MANUAL.
FOR ELECTRIC TARP INFORMATION, PLEASE REFER TO YOUR ELECTRIC TARP MANUAL.

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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.

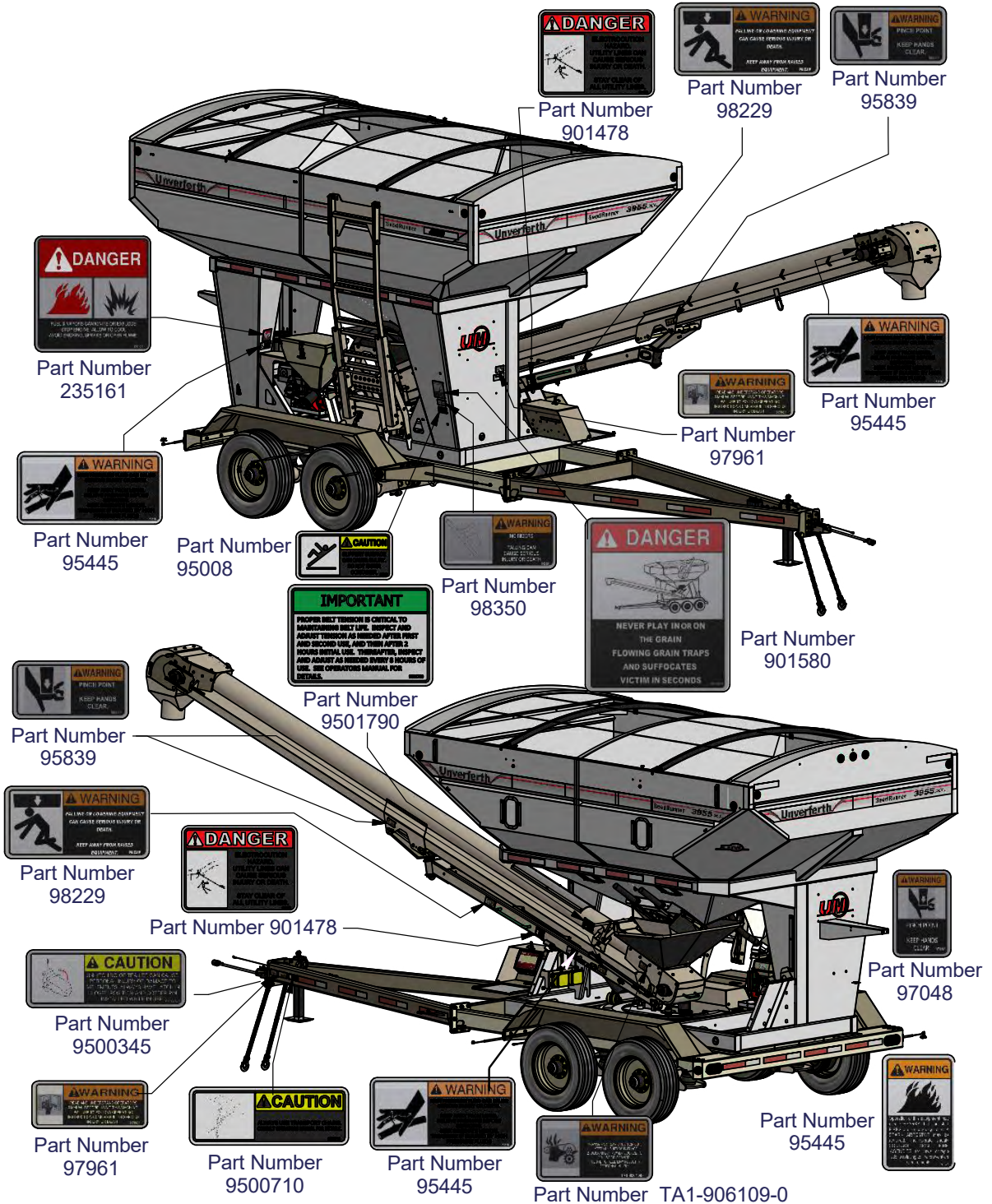


Is used for instruction on operating, adjusting, or servicing a machine.




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 keys before servicing the seed tender. 
- Avoid personal attire such as loose fitting clothing, shoestrings, drawstrings, pants cuffs, long hair, etc., that may become entangled in moving parts.
- Do not allow anyone to ride on the implement. Make sure everyone is clear before operating the machine or towing vehicle. 
- Never enter a seed tender containing grain. Flowing grain traps and suffocates victims in seconds.

Before Servicing or Operating

- Avoid working under an implement; however, if it becomes absolutely unavoidable, make sure the implement is safely blocked. 
- Ensure that all applicable safety decals are installed and legible.
- When working around the implement, be careful not to be cut by sharp edges.
- To prevent personal injury or death while servicing, always ensure that there are people who remain outside the Seed Tender to assist the person working inside, and that all safe workplace practices are followed. There is restricted mobility and limited exit paths when working inside the implement.
- Verify that all safety shields are in place and properly secured.
- 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.

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 Seed Tender unattended with engine running.
- Carbon monoxide can cause severe nausea, fainting or death. Do not operate engine in closed or confined area.
- Explosive fuel can cause fires and severe burns. Stop engine before filling fuel tank.
- Hot parts can cause severe burns. Do not touch engine while operating or just after stopping.
- Seed being transported may contain seed treatment. Read and follow all requirements for personal protective equipment and first aid as outlined on seed tags.
- Explosive gas from the battery can cause fires and serious acid burns. Charge the battery only in a well ventilated area. Keep sources of ignition away.

Before Transporting

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

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.
- Regulate speed to road conditions and maintain complete control.
- Do not transport unit with rear compartment full and front compartment empty. The unit may not be properly balanced, offsetting the trail ability of the implement.
- Slow down before making sharp turns to avoid tipping. Drive slowly over rough ground and side slopes.
- It is probable that this implement is taller, wider and longer than the towing vehicle. Become aware of and avoid all obstacles and hazards in the travel path of the equipment, such as power lines, ditches, etc.

Pressurized Oil

- Relieve the hydraulic system of all pressure before adjusting or servicing. See hydraulic power unit manual for procedure to relieve pressure.

- High-pressure fluids can penetrate the skin and cause serious injury or death. Leaks of high-pressure fluids may not be visible. Use cardboard or wood to detect leaks in the hydraulic system. Seek medical treatment immediately if injured by high-pressure fluids.

- Hydraulic system must be purged of air before operating to prevent serious injury or death.

- Do not bend or strike high-pressure lines. Do not install bent or damaged tubes or hoses.

- Repair all oil leaks. Leaks can cause fires, personal injury, and environmental damage.

- Route hoses and lines carefully to prevent premature failure due to kinking and rubbing against other parts. Make sure that all clamps, guards and shields are installed correctly.

- Check hydraulic hoses and tubes carefully. Replace components as necessary if any of the following conditions are found:
 - End fittings damaged, displaced, or leaking.
 - Outer covering chafed/cut or wire reinforcing exposed.
 - Outer covering ballooning locally.
 - Evidence of kinking or crushing of the flexible part of a hose.



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.



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Set Up

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FOR TORQUE INFORMATION, PLEASE REFER TO THE MAINTENANCE SECTION.
FOR LED WORK LIGHT INFORMATION, PLEASE REFER TO YOUR LED WORK LIGHT MANUAL.
FOR ELECTRIC TARP INFORMATION, PLEASE REFER TO YOUR ELECTRIC TARP MANUAL.

Pre-Delivery Checklist

After the Seed Runner tender has been completely assembled, use the following checklist and inspect the following items. 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.
- Check to make sure the lift assist tension bolt for the 8" conveyor has 1 5/8" measurement.
- 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.
- Confirm hubs have appropriate amount of oil.
- Paint all parts scratched in shipment.
- If applicable, charge the wireless remote control batteries.

Seed Runner Set Up

WARNING

- READ AND UNDERSTAND SAFETY RULES BEFORE OPERATING OR SERVICING THIS MACHINE. REVIEW THE SAFETY SECTION IN THIS MANUAL IF NECESSARY.
- TIPPING OR MOVEMENT OF THE MACHINE CAN CAUSE SERIOUS INJURY OR DEATH. BE SURE THE MACHINE IS SECURELY BLOCKED.
- ENTANGLEMENT WITH MOVING PARTS CAN CAUSE SERIOUS INJURY OR DEATH. USE EXTREME CARE WHEN INSPECTING AND ADJUSTING BELT TRACKING. AVOID PERSONAL ATTIRE SUCH AS LOOSE FITTING CLOTHING, SHOESTRINGS, DRAWSTRINGS, PANTS CUFFS, LONG HAIR, ETC., THAT MAY BECOME ENTANGLED IN MOVING PARTS.
- 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 6,500 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.

IMPORTANT

- *The procedures for assembling this Seed Runner tender are intended for two or more people.*

NOTE: Unverferth Manufacturing has designed the transport lighting and marking kit to meet United States federal law and ASABE standards at the time of manufacture. Machine modifications, including additional features or changes to the intended configurations, may require updates to the lighting and marking as well.

Compliance with all lighting and marking laws is the responsibility of the operator at the time of travel.

See federal regulation 49 CFR 562; available at www.govinfo.gov for US federal law requirements.

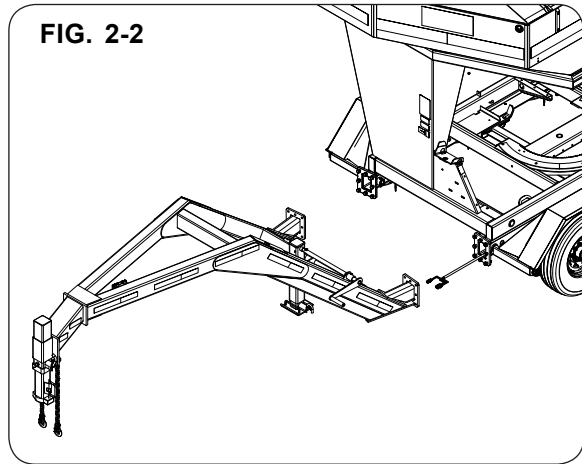
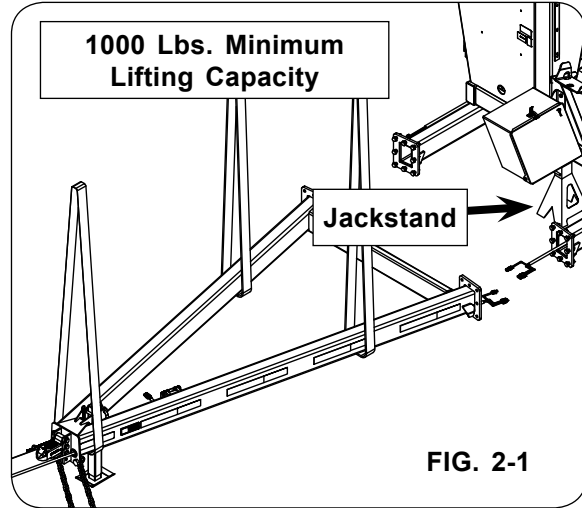
See your Unverferth dealer for additional brackets, reflectors, or lights to meet your requirements.

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

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

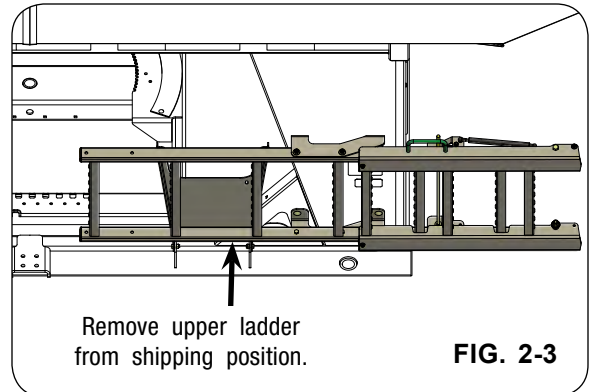
Assemble Hitch/Gooseneck to Undercarriage

1. If the Seed Runner tender was shipped with a hitch/gooseneck installed, torque 5/8"-11 UNC retaining hardware to 120-135 ft.-lbs. If the unit was shipped without a hitch/gooseneck installed, proceed to step 2.
2. Place jackstand rated for minimum 1000 lbs. capacity under front of undercarriage frame. Raise hitch using a safe lifting device with a minimum 1000 lbs. capacity, and place the hitch/gooseneck 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/gooseneck to undercarriage using 5/8"-11UNC x 2 1/4" capscrews (9390-125), 5/8" stainless steel flat washers (903108), and 5/8"-11UNC locknuts (9801). Torque 5/8"-11UNC hardware to 120-135 ft.-lbs.
5. Verify the functioning of the Seed Runner tender lighting. See Maintenance section for the schematic, if needed.

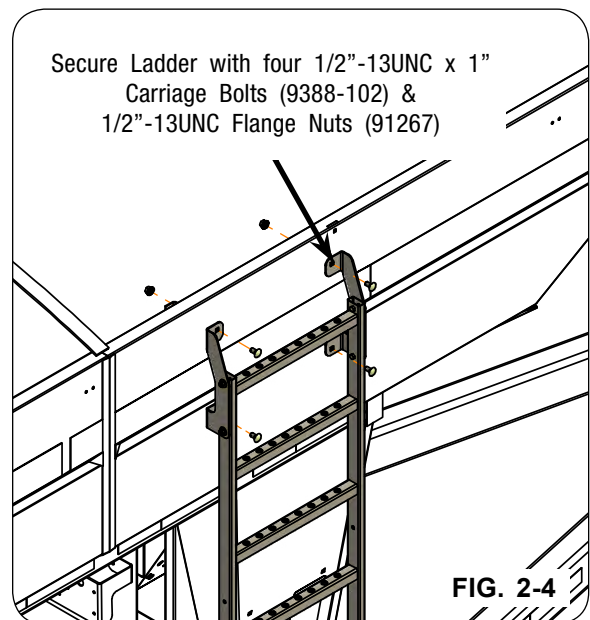


Ladder Installation

1. Remove ladder assembly from the shipping position on the rear of the right side Seed Runner box (FIG. 2-3). Discard nylon washers, and retain remaining hardware. It will be used to mount the ladder to the box.

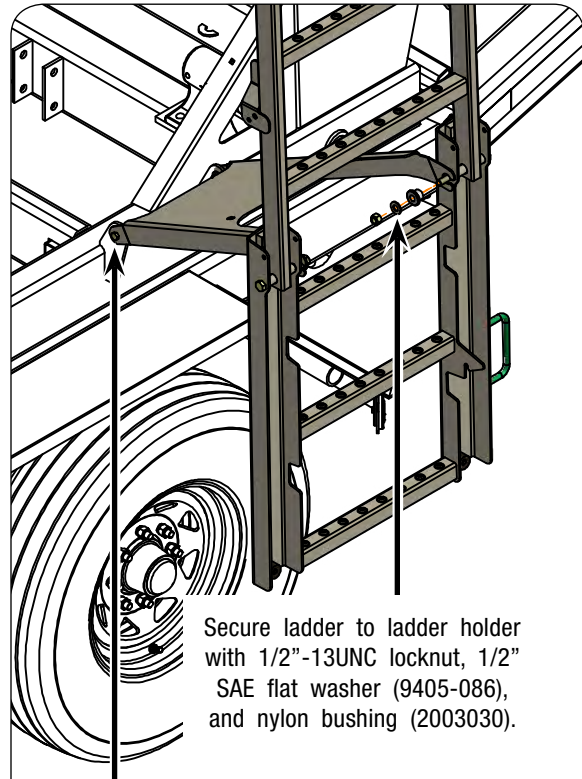


2. Remove mounting brackets and reinstall in appropriate position as shown figures below. Using a safe lifting device rated for 100 lbs., position and attach the upper ladder to the right side of the Seed Runner box, using the predrilled holes at the top. Secure in place using four 1/2"-13UNC x 1" carriage bolts (9388-102) and 1/2"-13UNC flange nuts (91267). (FIG. 2-4)



Ladder Installation (continued)

3. Slightly loosen the hardware connecting the ladder holder to the undercarriage.
4. Remove the 1/2"-13UNC locknut (9800), 1/2" SAE flat washer (9405-086), and nylon bushing (2003030) from ladder as shown in FIG. 2-5. Attach the ladder holder to the lower portion of the ladder with the previously removed 1/2"-13UNC locknut (9800), 1/2" SAE flat washer (9405-086), and nylon bushing (2003030).
5. Tighten the hardware loosened in step 3.



Secure ladder to ladder holder with 1/2"-13UNC locknut, 1/2" SAE flat washer (9405-086), and nylon bushing (2003030).

Loosen hardware and after attaching the lower portion of the ladder, retighten hardware.

FIG. 2-5

Deluxe Ladder Installation (Option)

1. Using a safe lifting device rated for 100 lbs. remove existing ladder from the right side of the Seed Runner box. Retain hardware to mount new deluxe ladder.
2. Using a safe lifting device rated for 150 lbs. position and attach the upper ladder to the right side of the Seed Runner box, using the predrilled holes at the top. Secure in place using four 1/2"-13UNC x 1" carriage bolts (9388-102) and 1/2"-13UNC flange nuts (91267) as shown in FIG. 2-6.

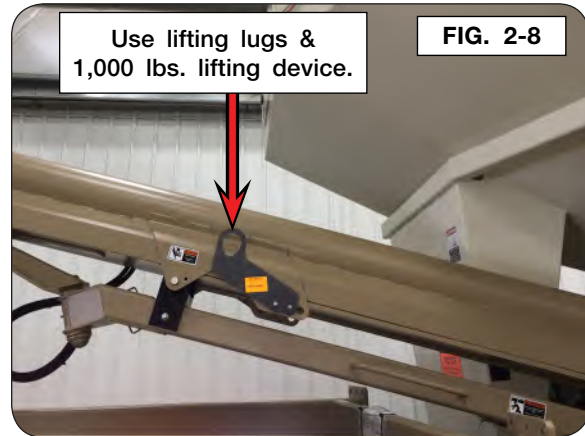


3. Remove the 3/8"-16UNC locknut (9928), 3/8" SAE flat washer (9405-074), and nylon bushing (2003029) and 3/8"-16UNC x 1 1/4" capscrews (9390-056) from ladder as shown in FIG. 2-7.
4. Attach the ladder to the box with the previously removed hardware.

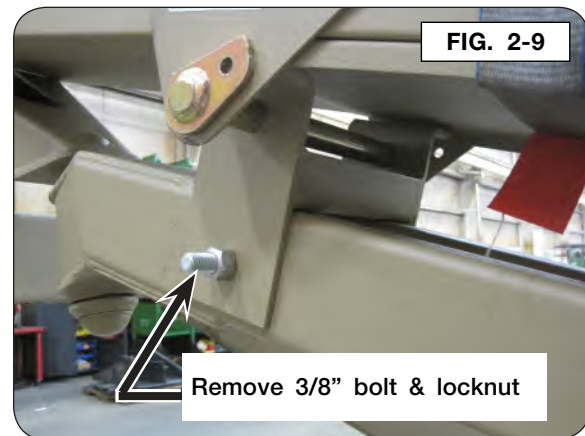


Moving Model 3955XL Conveyor (If Applicable) from Shipping to Operating Position

1. Lift conveyor using safe lifting device rated for a minimum of 1,000 lbs. After usage, remove lift lugs by removing 3/8" bolt and locknut from opposite side of lug, keep for later use. Discard lifting lug after removal.

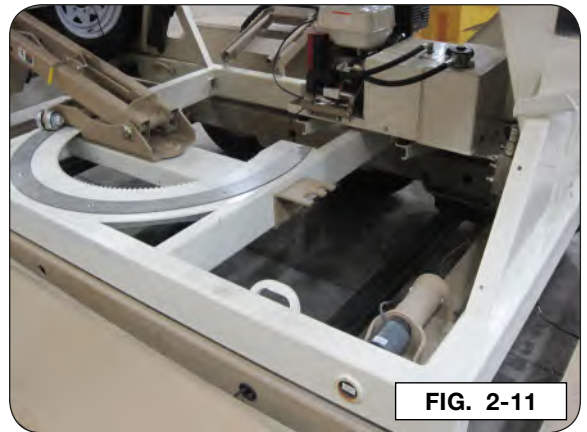


2. Remove 1" pin by removing 3/8" bolt and locknut.

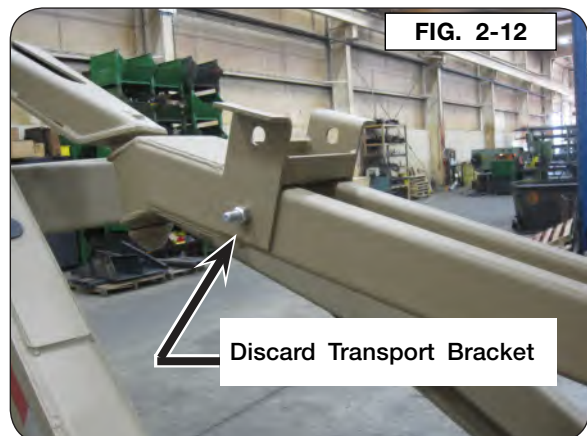


Moving Model 3955XL Conveyor (If Applicable) from Shipping to Operating Position (continued)

3. Gently slide conveyor towards the hopper end so that it unhooks from the lower transport latch.



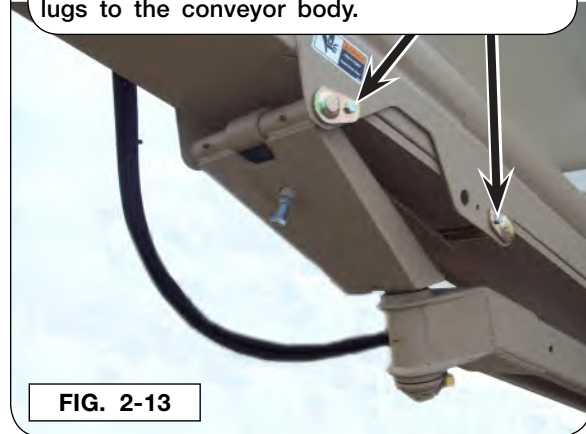
4. Hoist conveyor, remove and discard transport bracket and hardware.



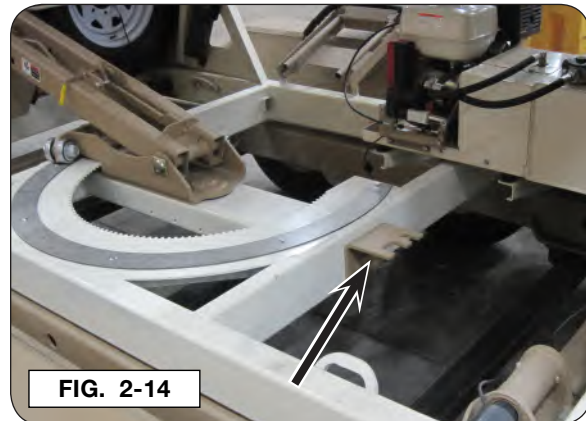
Moving Model 3955XL Conveyor (If Applicable) from Shipping to Operating Position (continued)

5. Using safe lifting device rated for a minimum of 1,000 lbs, move conveyor forward to operating position. Insert pin into working position and fasten using 3/8" bolt and locknut.

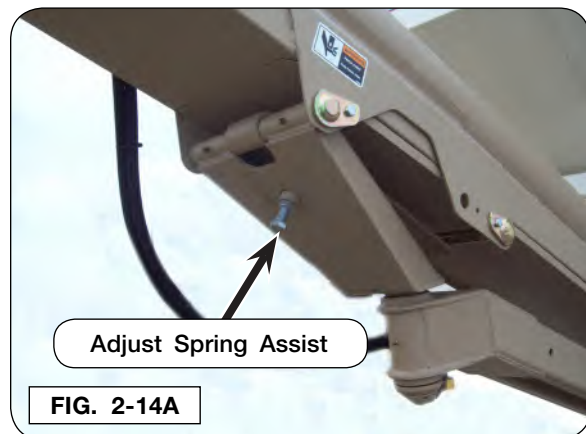
The retainer bolts that hold the two plated pins shown here are used to hold the lifting lugs to the conveyor body.



6. Hopper end of conveyor can be latched into normal operating position.
7. Remove and discard lower transport bracket and hardware.

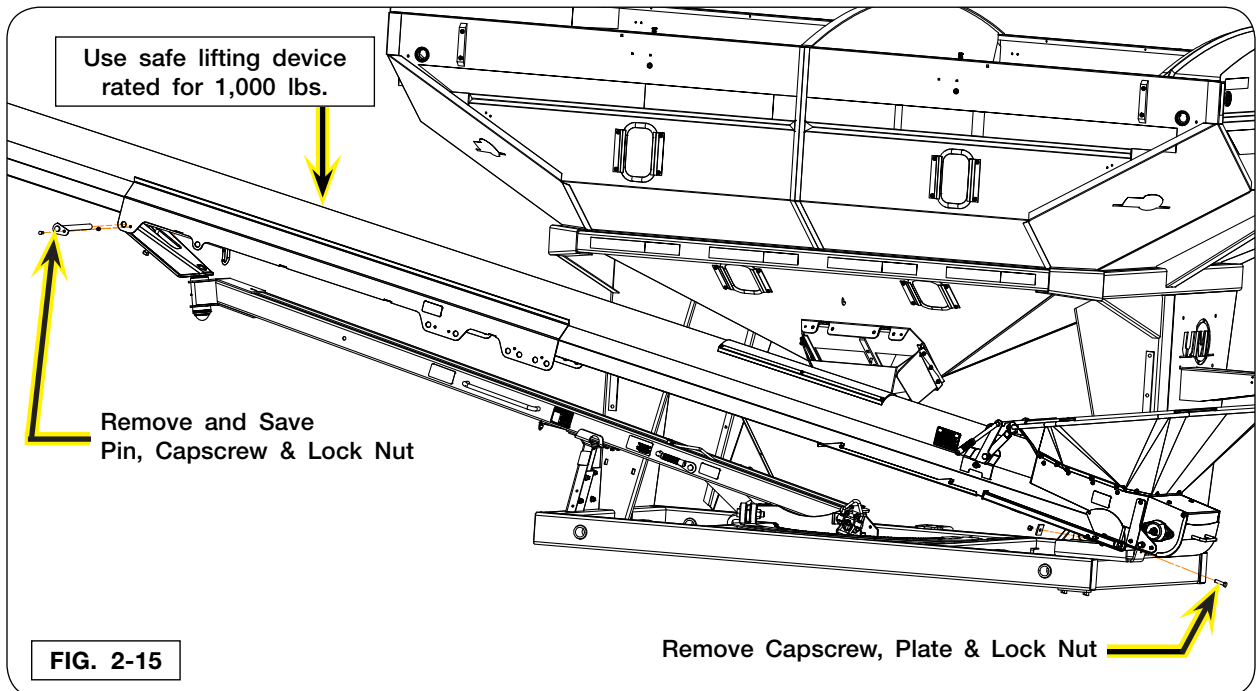


8. Adjust spring assist (FIG. 2-14A). Refer to OPERATION section "Adjustable Spring Assist".



Moving Model 3955DXL Conveyor (If Applicable) from Shipping to Operating Position

1. Using a safe lifting device rated at a minimum of 1,000 lbs., lift the conveyor.
2. Remove and save 1" dia. pin (25436), 3/8"-16UNC x 1" capscrew (9390-055) and 3/8"-16UNC lock nuts (9928) as shown in FIG. 2-15.



3. Remove 1/2"-13UNC x 2" capscrew (9390-103), plate (2006798) and 1/2"-13UNC lock nuts (9800) as shown in FIG. 2-15.

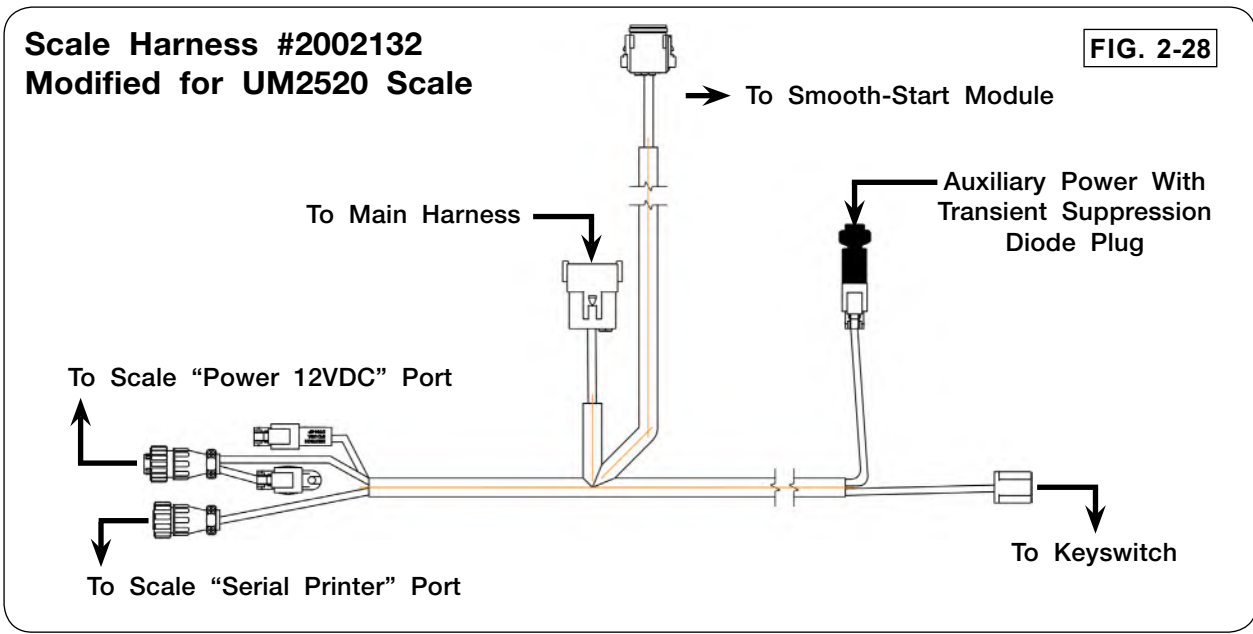
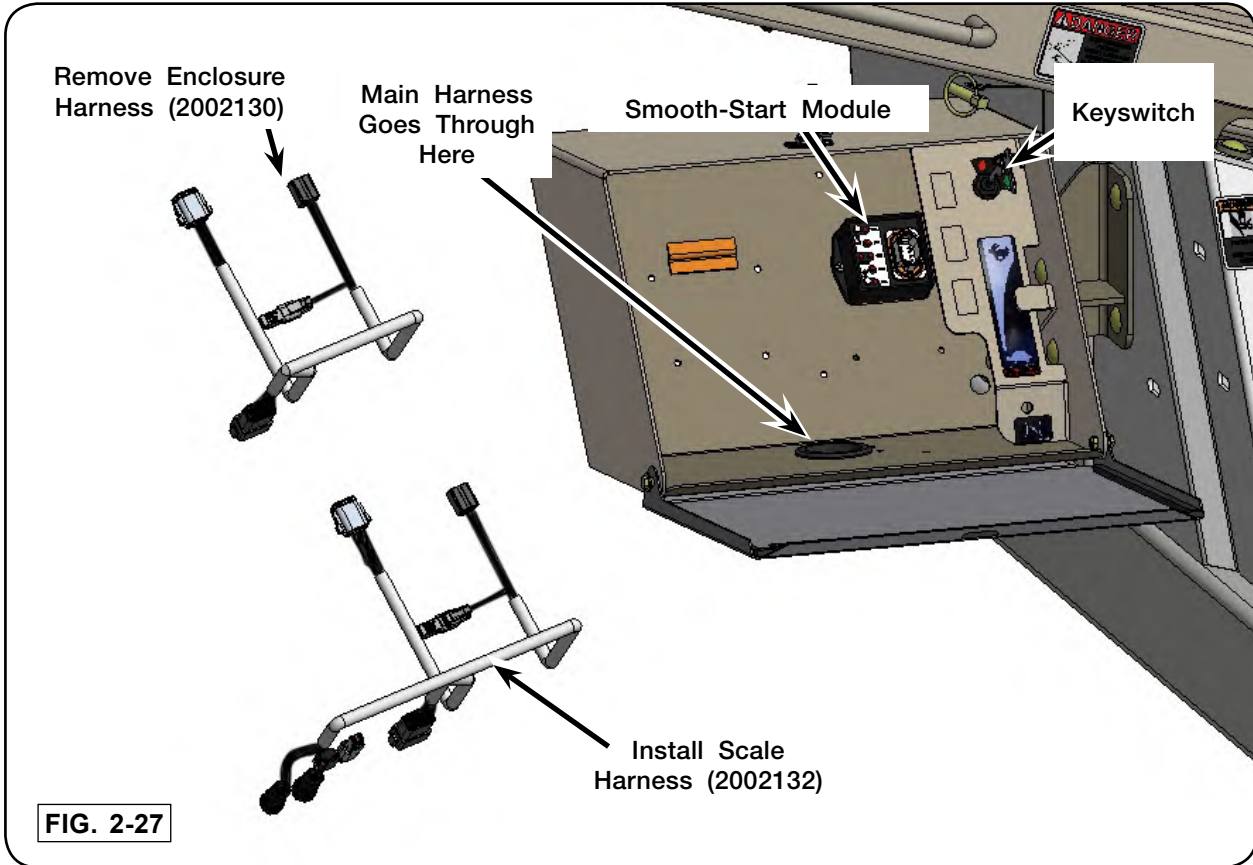
Hopper Cover Model 3955XL#9501361; Model 3955DXL #9503612

1. Install hopper cover.



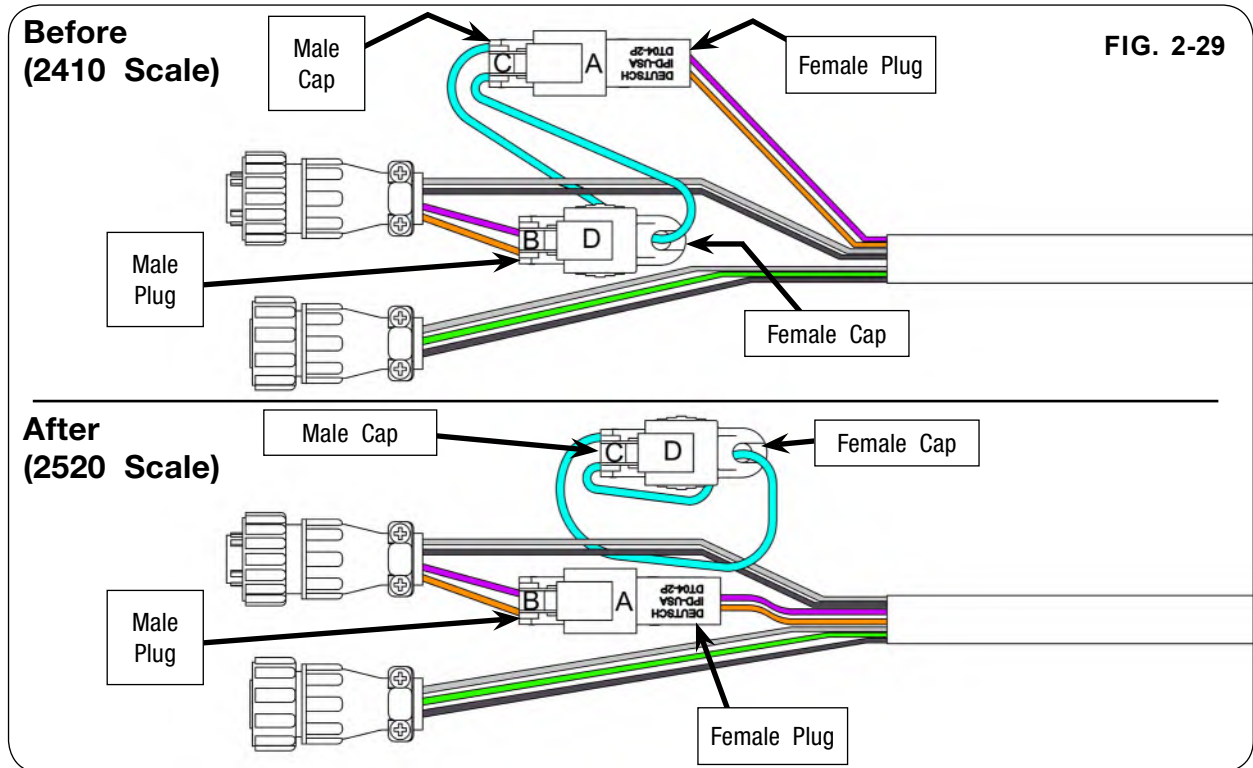
**UM2520 Scale Package (#2003617TS) (Option)
With Conveyor Auto Shut-Off**

1. Remove current enclosure harness (2002130) and replace with scale harness (2002132). Make connections to ignition switch, main control harness, and Smooth-Start module.

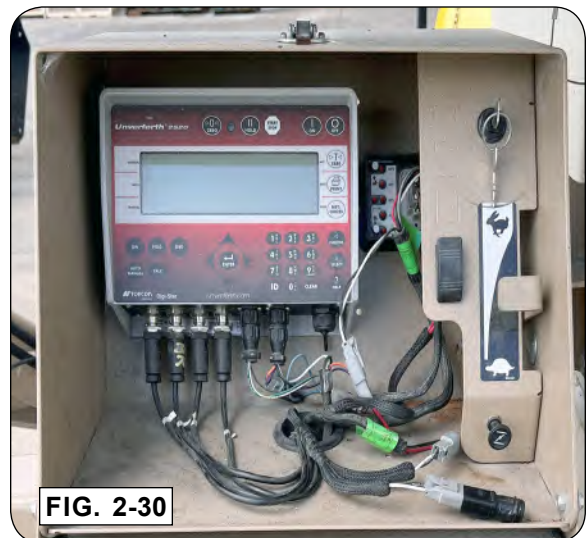


UM2520 Scale Package (#2003617TS) (Option) With Conveyor Auto Shut-Off (continued)

2. Convert the harness (2002132) to work with the 2520 scale. (FIG. 2-29)
 - A. Remove the female cap from the male plug.
 - B. Remove the male cap from the female plug.
 - C. Connect the female plug and male plug. Refer to FIG. 2-29.
 - D. Connect the female cap and male cap. Refer to FIG. 2-29.

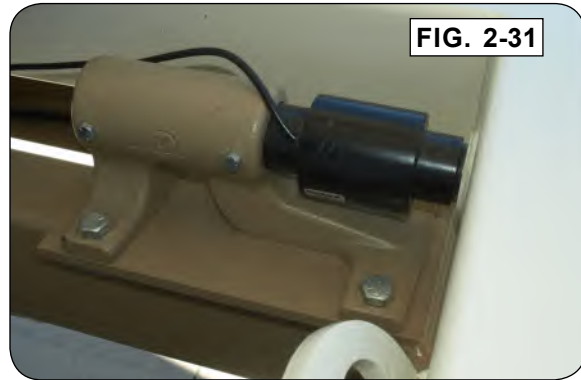


3. Assemble scale monitor inside enclosure using two 1/4"-20UNC x 3/4" capscrews (9390-003) and 1/4"-20UNC locknuts (9936).
4. Connect harness to the bottom of the scale. FIG. 2-30



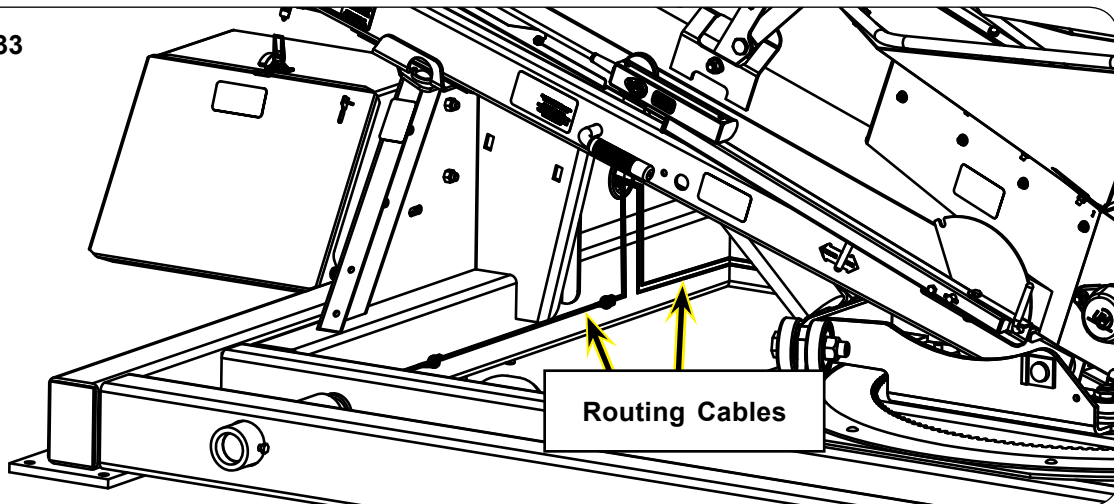
UM2520 Scale Package (#2003617TS) (Option) With Conveyor Auto Shut-Off (continued)

- Remove two hold down brackets from one side of the box. Assemble weigh bar (901173) into scale bracket (29477TS) using two 3/8"-16UNC x 3 1/2" capscrews (9390-065) and 3/8"-16UNC top locknuts (9928). The weigh bars must be assembled so the arrow on the backside of the weigh bar is pointing down. The serial number decal on the weigh bar should be on the bottom side and the bending direction decal should be pointing towards the ground (FIG. 2-32). Using a safe lifting device with minimum 6,500 lb. lift capacity, carefully lift one side of box approximately 1". Slide weigh bar into bushing on inside of box. Fasten bracket down to undercarriage using the four 5/8"-11UNC x 1 3/4" capscrews (9390-123) and 5/8"-11UNC top locknuts (9801). Repeat this process for all four corners of the box.



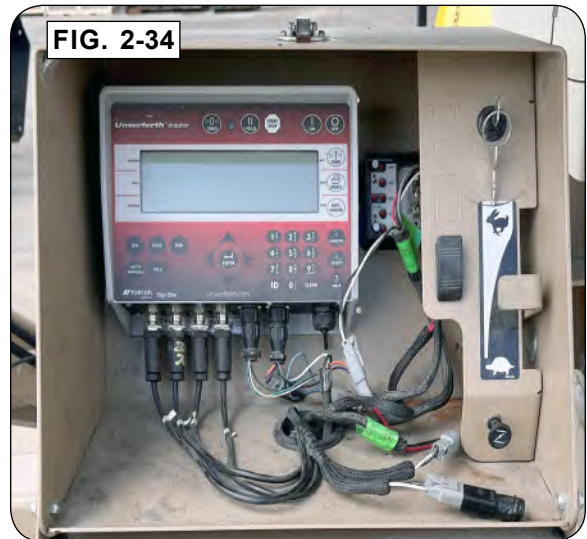
- Route weigh bar cables along inside edge of box and fasten using the cable ties (9000106). Be certain cables will not get pinched or worn. FIG. 2-33

FIG. 2-33



UM2520 Scale Package (#2003617TS) (Option) With Conveyor Auto Shut-Off (continued)

7. Route cables from weigh bars into opening at bottom of enclosure and connect to the scale indicator (902034) ports. FIG. 2-34



Scale Platform (Option) for Units Less Undercarriage (#25898TS)

Lift Seed Runner box using safe lifting devices rated for minimum 6,500 lbs. lift capacity at all four corners of the box.

Lift one side of the box off of ground so it will just clear the ground and block-up the corners to allow for the installation of the scale platform. Repeat the process on the opposite side of the box.

Scale Platform (Option) for Units Less Undercarriage (#25898TS) (continued)

Slide the weigh bars (901173) into the bushing on the inside of the Seed Runner as shown below.



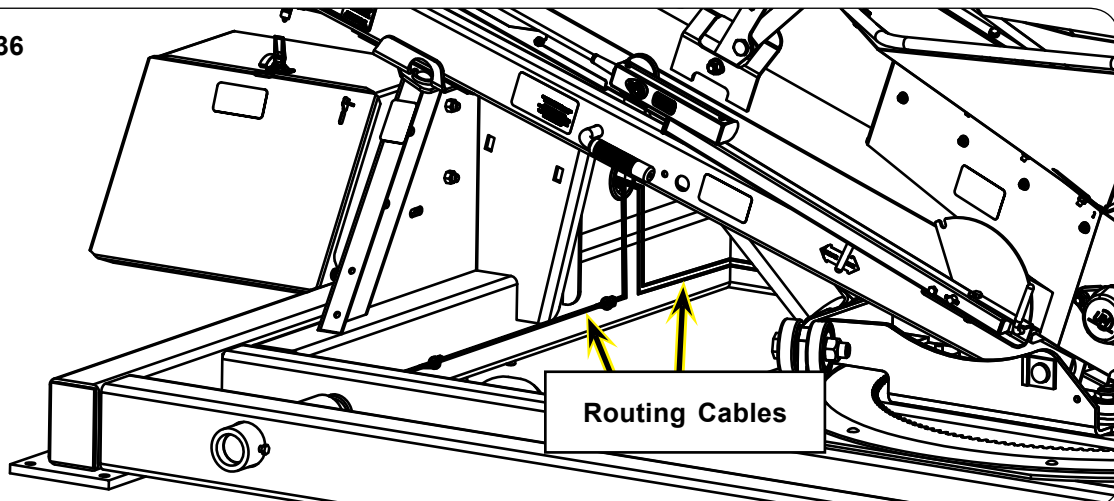
Arrange the scale base weldments (#25746TS) around the Seed Runner. Secure the scale base weldments together with eight 5/8"-11UNC x 2" capscrews (9390-124) and 5/8"-11UNC locknuts (9801).

Secure the weigh bars to the scale base weldments using two 3/8"-16UNC x 3 1/2" capscrews (9390-065) and 3/8"-16UNC top locknuts (9928). The weigh bars must be assembled so the arrow on the backside of the weigh bar is pointing down. Repeat this process for all four corners of the box.

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

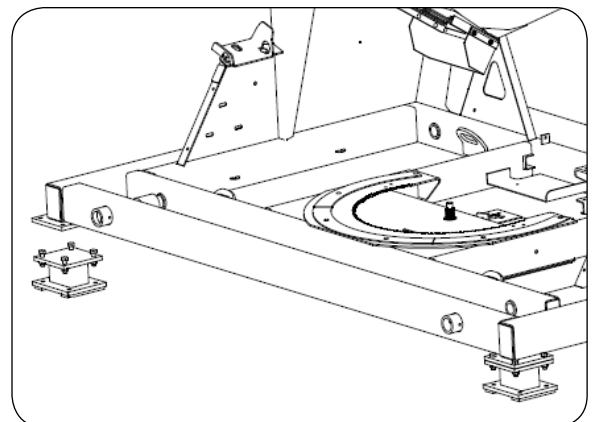
Route cables from weigh bars into opening at bottom of enclosure and connect to the scale indicator (902485) ports. Connect power cord (2002132) to indicator, and fasten indicator into enclosure using two 1/4" x 3/4" bolts (9390-003) and lock nuts (9928).

FIG. 2-36



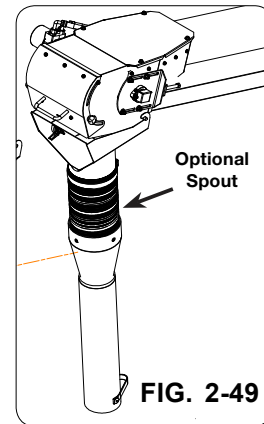
Scale Platform Riser Pads (Option) for Units Less Undercarriage (#2000945TS)

1. Park the empty Seed Runner tender on a firm, level surface. Block the wheels on the machine to keep it from moving. Set the towing vehicle's parking brake, shut-off the engine, and remove the ignition key.
2. Using a safe lifting device rated for 7,000 lbs., lift the front of the box.
3. Attach the riser pads to the bottom of the frame, using the appropriate hardware provided.
4. Lower the front of the unit.
5. Using a safe lifting device rated for 7,000 lbs., lift the rear of the box.
6. Attach the riser pads to the bottom of the frame, using the appropriate hardware provided.
7. Lower the rear of the unit.
8. Secure the riser pads to the truck/trailer frame.



3-Stage 8" Telescopic Downspout (Option) For 8" Conveyor (#29782)

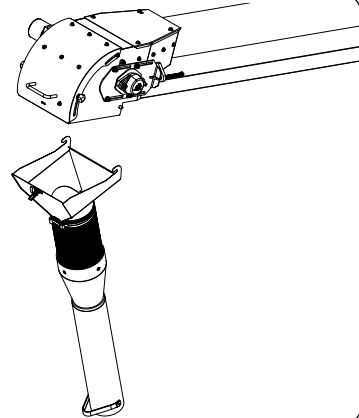
1. Park the empty Seed Runner on a firm, level surface. Block the wheels on the machine to keep it from moving. Set the towing vehicle's parking brake. Lower the conveyor to approximately 4-5 feet off the ground, shut off the engine and remove the ignition key.
2. Remove the standard flex spout.
3. Attach the new telescopic downspout.



2-Stage 8" Telescopic Downspout For 8" Conveyor (#25532)

1. Lower the conveyor to approximately 4-5 feet off the ground.
2. Remove the clamp and standard flex spout from the conveyor.
3. Attach the new 8" diameter 2-stage telescopic downspout with the previously removed clamp.

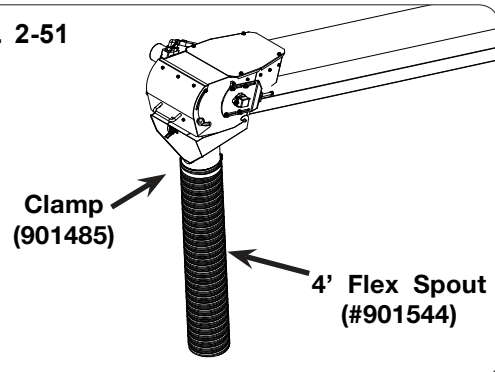
FIG. 2-50



4' Flex Spout for 8" Conveyor (#901544)

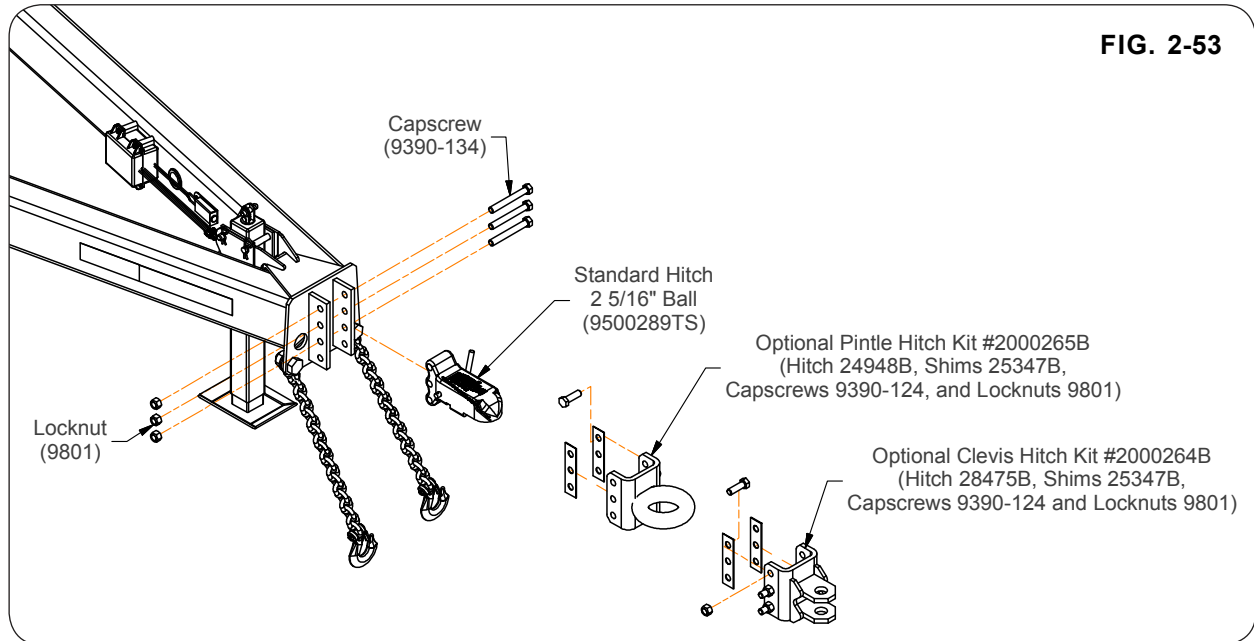
1. Park the empty Seed Runner on a firm, level surface. Block the wheels on the machine to keep it from moving. Set the towing vehicle's parking brake. Lower the conveyor to approximately 4-5 feet off the ground, shut off the engine and remove the ignition key.
2. Remove the T-bolt clamp ring (901485) and spout from the conveyor.
3. Slip the 4' flex spout over the conveyor tube end and tighten with T-bolt clamp ring (901485).

FIG. 2-51



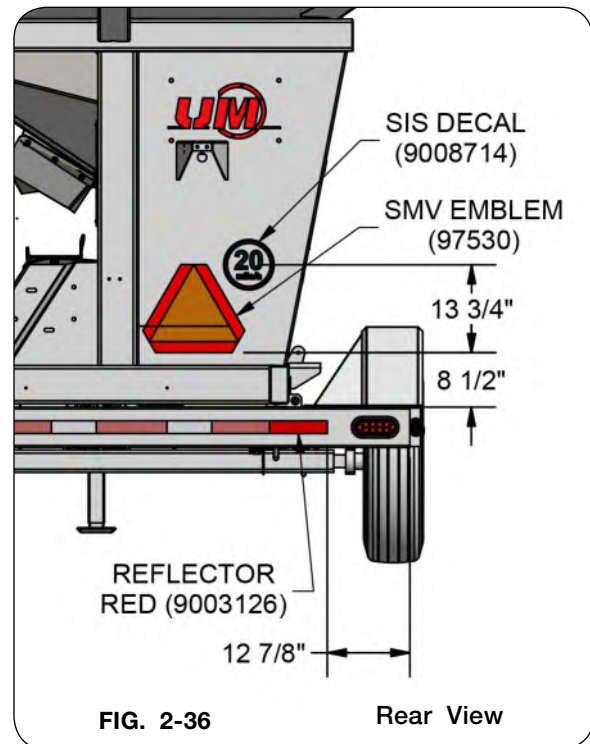
Hitches (Option) Pintle Hitch (#24948B) & Clevis Hitch (#28475B)

1. Remove the hardware, shims, and hitch.
2. Attach optional hitch using the hardware and shims removed in step #1. Torque hardware according to the torque chart in the Maintenance section.

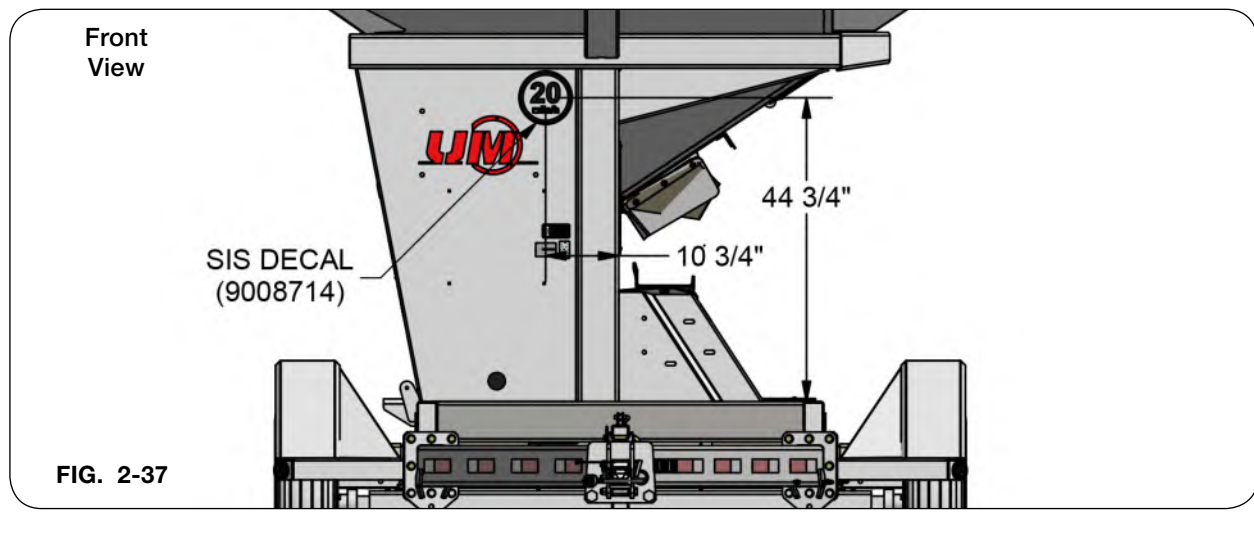


AG Decal Package, Decal Placement

1. Center and attach the SMV Emblem (95730) to the rear of the unit 8 1/2" from the frame. (FIG. 2-36)
2. Attach the SIS decal (9008714) to the rear of the unit 13 3/4" from the bottom of the SMV Emblem (95730). (FIG. 2-36)
3. Attach the red reflector (9003126) 12 7/8" from the right-hand side of the bumper. (FIG. 2-36)

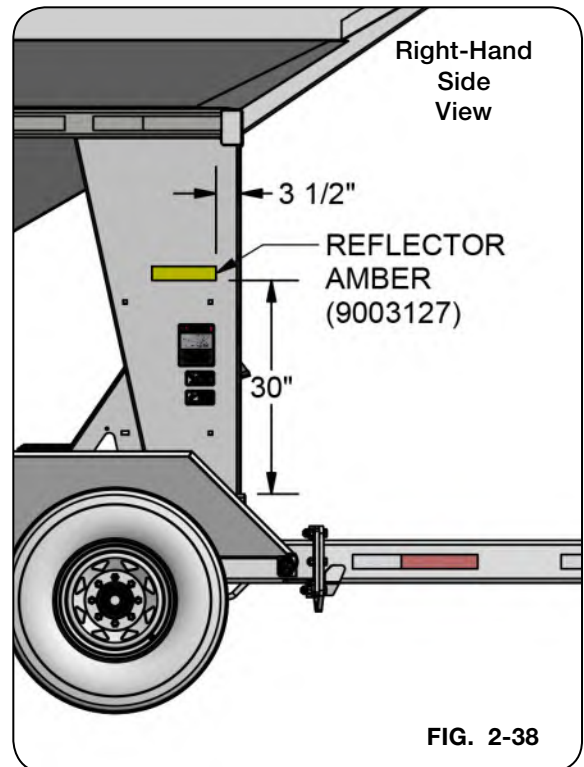


4. Attach the SIS decal (9008714) to the front of the unit 44 3/4" from the frame and 10 3/4" from the side of the panel as shown in FIG. 2-37.

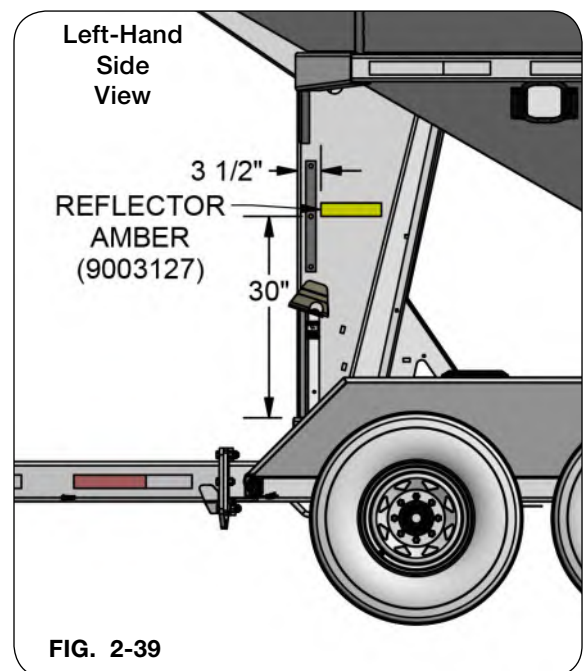


AG Decal Package, Decal Placement (continued)

5. Place the amber reflector (9003127) 30" from the frame and 3 1/2" from the front on the right-hand side of the unit. (FIG. 2-38)



6. Place the amber reflector (9003127) 30" from the frame and 3 1/2" from the front on the left-hand side of the unit. (FIG. 2-39)



Notes

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Operation

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FOR LED WORK LIGHT INFORMATION, PLEASE REFER TO YOUR LED WORK LIGHT MANUAL.
FOR ELECTRIC TARP INFORMATION, PLEASE REFER TO YOUR ELECTRIC TARP MANUAL.

Preparing Towing Vehicle

NOTE: Unverferth Manufacturing has designed the transport lighting and marking kit to meet United States federal law and ASABE standards at the time of manufacture. Machine modifications, including additional features or changes to the intended configurations, may require updates to the lighting and marking as well.

Compliance with all lighting and marking laws is the responsibility of the operator at the time of travel.

See federal regulation 49 CFR 562; available at www.govinfo.gov for US federal law requirements.

See your Unverferth dealer for additional brackets, reflectors, or lights to meet your requirements.

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

Vehicle must be equipped with proper electric undercarriage braking components and mating electrical connector. If towing vehicle is not equipped with the proper components, see towing vehicle manufacturer, or respective dealer for proper setup. Check vehicle and undercarriage brakes and transport lights. Make sure they are in proper working order.

IMPORTANT

- *This implement is equipped with LED lights. The towing vehicle may require a flasher upgrade for lights to function properly. For flasher upgrade, please see towing vehicle manufacturer for assistance.*

Do not exceed 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 Seed Runner tender are:

Model 3955XL/3955DXL

- Gross Vehicle Weight Rating is 25,000 lbs.
- Loaded tongue weight is 1000 lbs.

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

Towing vehicle hitch – ball or 5th wheel, must be heavy enough to carry the load of the Seed Runner tender.

Preparing Implement

Hydraulic System

Check routing of all hydraulic hoses. Hoses should not be kinked, twisted, or rubbing against sharp edges.

Check hoses and fittings for hydraulic leaks. Tighten and/or repair or replace as required. Refer to “Torque Chart” in MAINTENANCE section.

Lubrication

Lubricate the implement as outlined in the Maintenance section of this manual.

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

Tires/Wheels

CAUTION

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

Check tire pressures and maintain at recommended values listed in the MAINTENANCE section of this manual. Check wheel nuts/bolts torque as specified in the MAINTENANCE section.

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 to Towing Vehicle

WARNING

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

The Seed Runner undercarriage is designed to be connected to a towing vehicle utilizing either the pintle hitch, a 2 5/16" ball hitch or, if equipped with the clevis hitch, a 1" hitch pin. An optional 2 5/16" gooseneck hitch is also available.

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 jack to set undercarriage down on hitch. Latch coupler so the connection is secure. Pivot jack to transport position and pin in place. If using the optional gooseneck hitch, back the towing vehicle up to the gooseneck and couple/latch the units together. Raise the jack weldment into transport position.

Connect electrical plug from undercarriage to towing vehicle. Check 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 undercarriage brake breakaway cable to towing vehicle. Do not connect this directly to 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

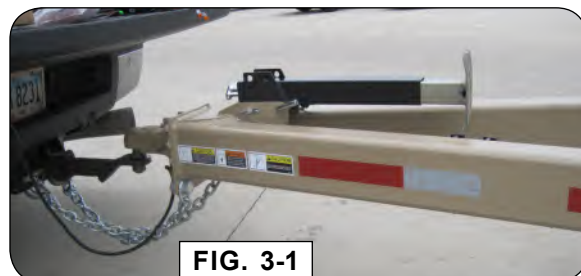
- **ALWAYS USE TRANSPORT CHAINS WHEN TRANSPORTING IMPLEMENTS. FAILURE TO USE TRANSPORT CHAINS COULD CAUSE PERSONAL INJURY OR DAMAGE IF IMPLEMENT BECOMES DISENGAGED.**

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

Cross chains when connecting as shown in photo.

IMPORTANT

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



Transporting

DANGER

- ELECTROCUTION WILL CAUSE SERIOUS INJURY OR DEATH. THE SEED RUNNER IS NOT INSULATED. KEEP AWAY FROM ALL ELECTRICAL LINES AND DEVICES. ELECTROCUTION CAN OCCUR WITHOUT DIRECT CONTACT.



WARNING

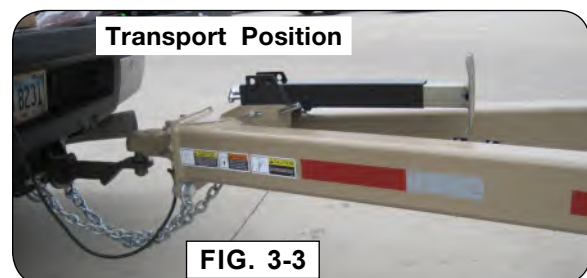
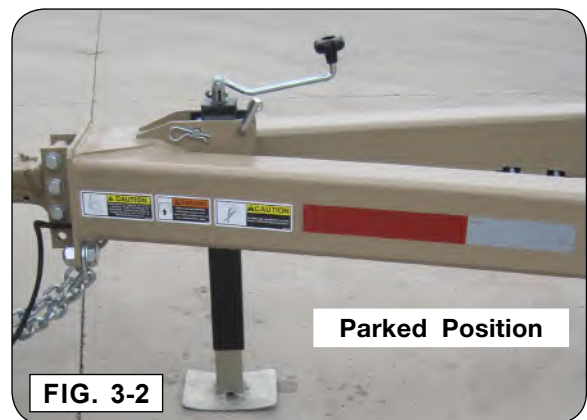
- THE REAR HOPPER OF THE SEED TENDER BOX SHOULD ALWAYS BE EMPTIED FIRST. THIS WILL MAINTAIN WEIGHT ON THE HITCH OF THE TOWING VEHICLE. EMPTYING THE FRONT HOPPER FIRST WITH THE REAR HOPPER FULL COULD RESULT IN NEGATIVE TONGUE WEIGHT ON THE UNDERCARRIAGE AND REDUCED CONTROL OF THE UNDERCARRIAGE WHEN TOWING.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

CAUTION

- USE APPROVED ACCESSORY LIGHTS AND REFLECTORS WHEN TRANSPORTING AT NIGHT, DURING PERIODS OF POOR VISIBILITY AND AS REQUIRED BY ALL LAWS.

IMPORTANT

- Before Seed Runner unit is transported, be sure the jack stand is in the 'Transport Position'.
- Conveyor must be latched in the unloading position. The pivoting arm must be latched in the transport position with klik pin installed before moving Seed Runner tender. Refer to photo on following page.



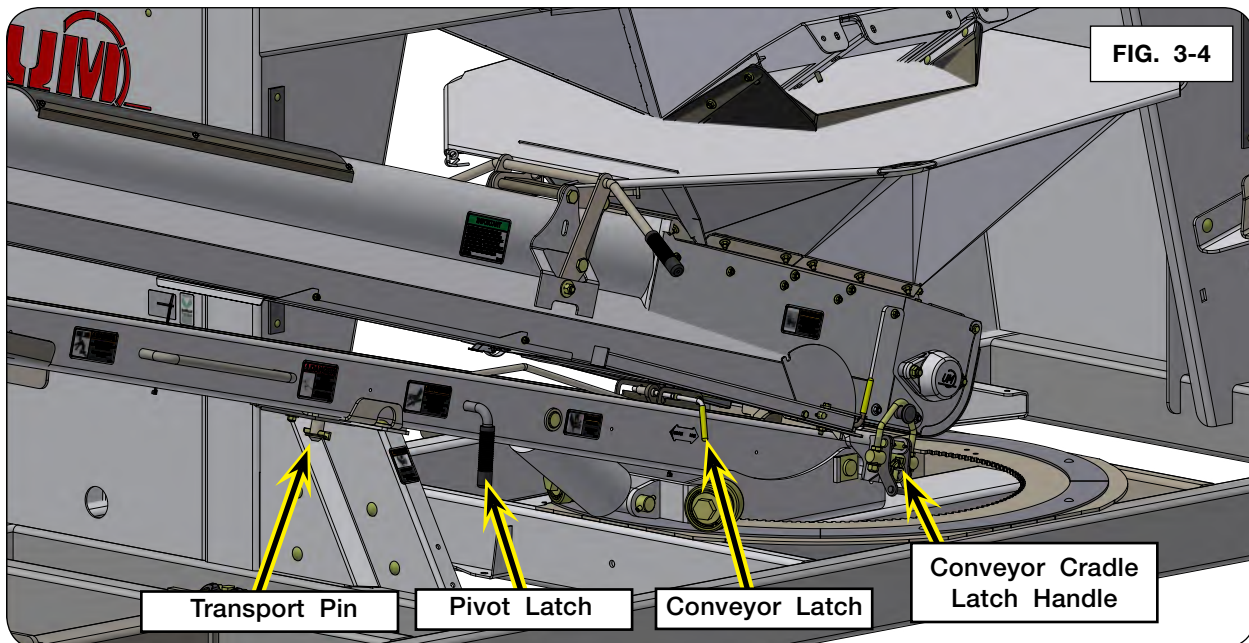
Transporting (continued)

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

The center of gravity on the seed tender box 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 reflectors and lights are in place and clearly visible to approaching traffic.



Hydraulic Power Unit

WARNING

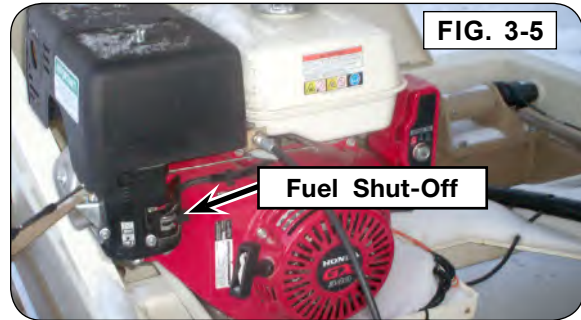
- **EXPLOSIVE FUEL CAN CAUSE FIRES AND SEVERE BURNS. STOP ENGINE BEFORE FILLING FUEL TANK.**
- **CARBON MONOXIDE CAN CAUSE SEVERE NAUSEA, FAINTING OR DEATH. DO NOT OPERATE ENGINE IN A CLOSED OR CONFINED AREA.**
- **HOT PARTS CAN CAUSE SEVERE BURNS. DO NOT TOUCH ENGINE WHILE OPERATING TO PREVENT SERIOUS INJURY OR DEATH.**
- **EXPLOSIVE GAS FROM BATTERY CAN CAUSE FIRES AND SEVERE ACID BURNS. CHARGE BATTERY ONLY IN A WELL VENTILATED AREA. KEEP SOURCES OF IGNITION AWAY.**
- **HYDRAULIC SYSTEM MUST BE PURGED OF AIR BEFORE OPERATING TO PREVENT SERIOUS INJURY OR DEATH.**
- **HIGH-PRESSURE FLUIDS CAN PENETRATE THE SKIN AND CAUSE SERIOUS INJURY OR DEATH. LEAKS OF HIGH-PRESSURE FLUIDS MAY NOT BE VISIBLE. USE CARDBOARD OR WOOD TO DETECT LEAKS IN THE HYDRAULIC SYSTEM. SEEK MEDICAL TREATMENT IMMEDIATELY IF INJURED BY HIGH-PRESSURE FLUIDS.**
- **RELIEVE HYDRAULIC SYSTEM OF ALL PRESSURE BEFORE ADJUSTING OR SERVICING. SEE “RELIEVING HYDRAULIC PRESSURE” IN THE MAINTENANCE SECTION OF THIS MANUAL.**
- **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.**



Hydraulic Power Unit (continued)

IMPORTANT

- Make certain hoses are all connected, and everyone is clear of conveyor before starting engine.
- Conveyor must be turned off before starting engine. Starting engine with conveyor turned on will result in hard starting, or failure to start.
- Do not use ether or other starting aids to start the engine. Damage to the engine will occur.
- Use only clean fuel. Contaminates in the fuel may cause damage to the engine or loss of performance.
- When engine is not in use, turn fuel lever to the <OFF> position. Leaving the fuel valve on could cause carburetor flooding, fuel in crankcase, or fuel leakage. See FIG. 3-5.



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

Before Starting Engine

Inspect that all fittings and hardware are in place and secure. Check for any potential hydraulic leaks. Check fluid levels in engine and sight gauge on reservoir. Be sure all valves are switched to neutral position.

Determine which conveyor control system is being used.

NOTE: Specific starting procedures are located in the specific wireless operators manuals.



Wired
Two-Function
Switch



3-Function
Remote



6-Function
Remote

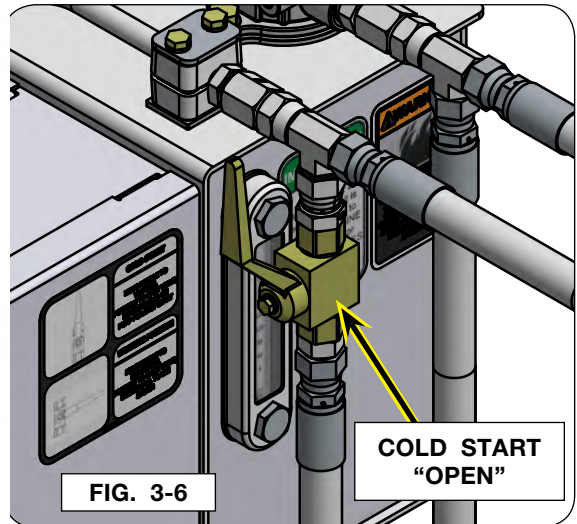
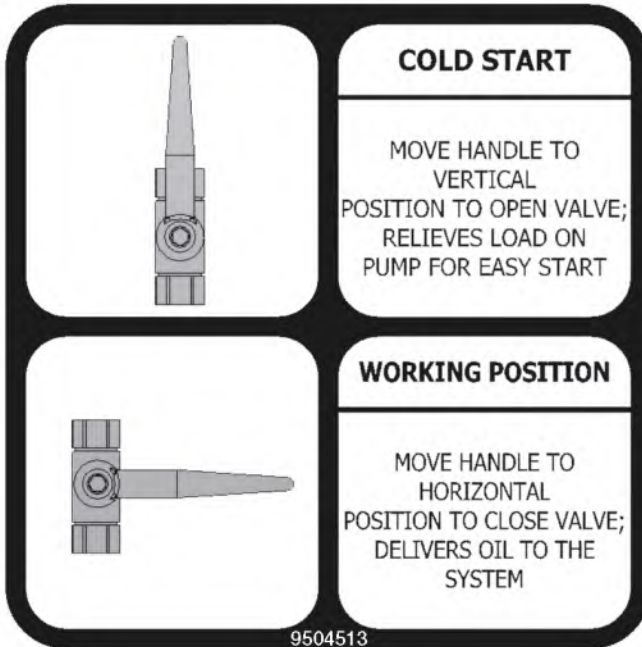


7-Function
Remote

Hydraulic Power Unit (continued)

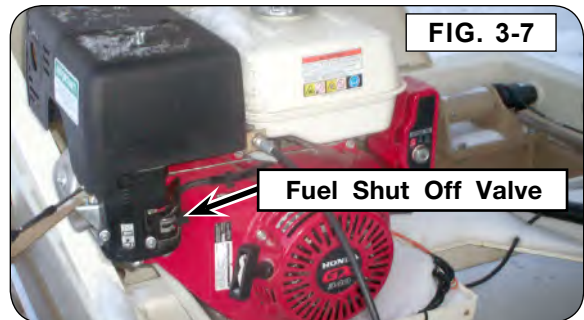
Cold Start Ball Valve

Cold start ball valve is used to aid the starting of the engine and during cold weather performance. Ball valve will also be used when replacing the filter (see MAINTENANCE section).

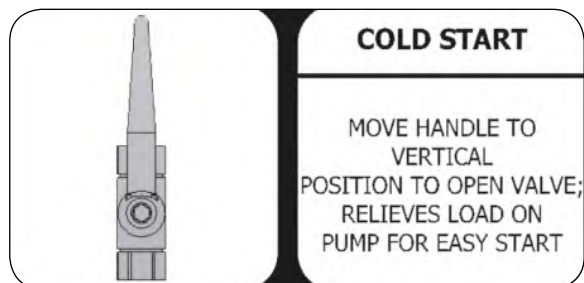


Starting Engine

1. Turn fuel shut off valve to <ON> position.

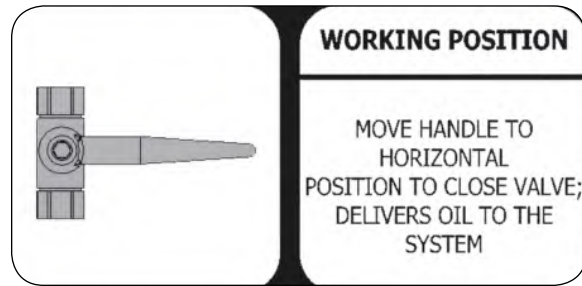
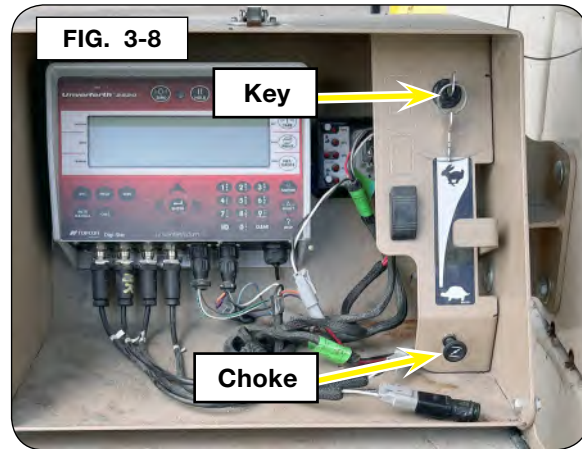


2. Place cold start ball valve to OPEN (handle vertical) COLD START position.



Hydraulic Power Unit (continued)

3. Apply choke. (FIG. 3-8)
4. **Wired Two-Function Switch and Three-Function Remote Systems:**
Turn key to start engine. (FIG. 3-8)
- 6 & 7 Function Remote:**
See remote manuals for operating instructions.
5. Once running, turn choke off and increase throttle speed.
6. Run the engine until the engine and hydraulic system have sufficiently warmed, then change cold start ball valve to CLOSED (handle horizontal) **WORKING POSITION**.



The key switch replaces the standard engine's switch which is no longer functional.

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

NOTE: If hydraulic leaks become apparent, turn engine <OFF> immediately and take appropriate actions.

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

Hydraulic Power Unit (continued)

Adjusting Hydraulic Pressure Relief Valve

- A. The Seed Runner tender has an adjustable relief valve on the direction control valve which can be adjusted for optimum operation (conveyor belt and raise/lower). It is pre-set at the factory to by-pass the system once the hydraulic fluid pressure exceeds 1800 psi. This is the optimum setting for the tender. Adjusting the relief to higher settings may give unsatisfactory results.

WARNING

- **FAILURE TO REPLACE THE CAP ON THE RELIEF VALVE BEFORE STARTING THE ENGINE WILL CAUSE OIL TO ESCAPE FROM THE RELIEF VALVE CARTRIDGE.**
- **HIGH-PRESSURE FLUIDS CAN PENETRATE THE SKIN AND CAUSE SERIOUS INJURY OR DEATH. LEAKS OF HIGH-PRESSURE FLUIDS MAY NOT BE VISIBLE. USE CARDBOARD OR WOOD TO DETECT LEAKS IN THE HYDRAULIC SYSTEM. SEEK MEDICAL TREATMENT IMMEDIATELY IF INJURED BY HIGH-PRESSURE FLUIDS.**



IMPORTANT

- *This Seed Runner tender can be adjusted to provide system pressures from 1,000 PSI up to 2500 PSI. When adjusting the relief to allow the system to exceed 1800 PSI, the engine will tend to bog down due to the load and in high load applications, may cause the engine to stall.*

Hydraulic Power Unit (continued)

IMPORTANT

- *It will be necessary to install a pressure gauge into the hydraulic system to accurately adjust the relief valve.*

- B. Remove the cap from the relief valve on the directional control valve with an allen wrench (FIG. 3-9).

NOTE: Do not start engine with cap removed.

- C. **To increase the pressure**, insert allen wrench into pressure adjusting screw and turn the wrench clockwise.
To decrease the pressure, insert allen wrench into pressure adjusting screw and turn the wrench counter-clockwise. (FIG. 3-10)

- D. Replace the cap on the relief valve and tighten (FIG. 3-11).

- E. Start engine, fully raise the conveyor then read the system pressure while the conveyor raise control is engaged. Repeat steps B through D until the desired relief pressure is achieved.

FIG. 3-9

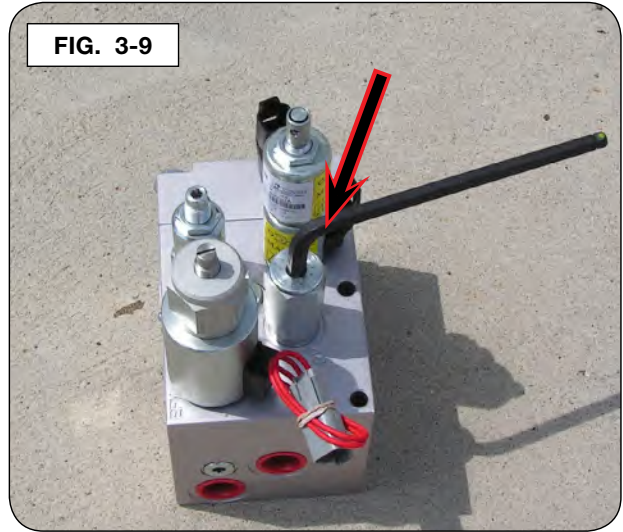


FIG. 3-10

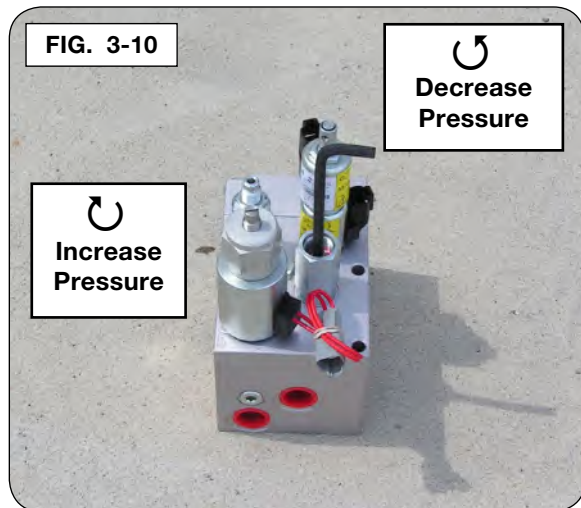
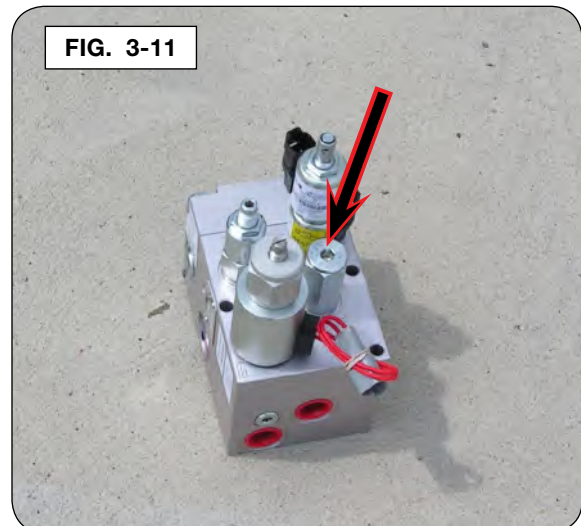


FIG. 3-11



Conveyor Belt Electronic Speed Control if Equipped

The smooth-start module speed control is simply two push buttons, one to increase the conveyor speed and one to decrease the conveyor speed. Each time a button is pressed the conveyor speed changes by 10%. The speed can be varied from 20% to 100%. The speed is shown by a series of LEDs, the LEDs indicate 10% steps by flashing and 20% increments by being on continuous.



Conveyor Belt Manual Speed Control Valve

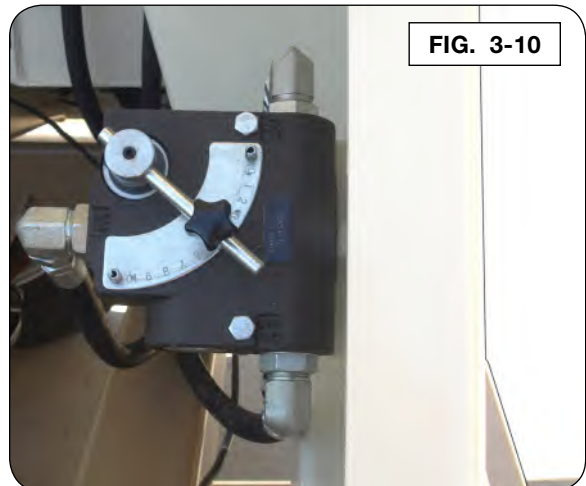
Speed of conveyor belt is controlled independently from engine speed by using the flow control valve mounted on rear standard. Slower conveyor belt speed is needed for certain types of seed. (Ex. - peanuts)

How To Set Speed Control Valve

1. Increase engine speed to full throttle.
2. Adjust flow control valve until belt is running at desired speed, snug threaded knob to lock adjusting lever in position.

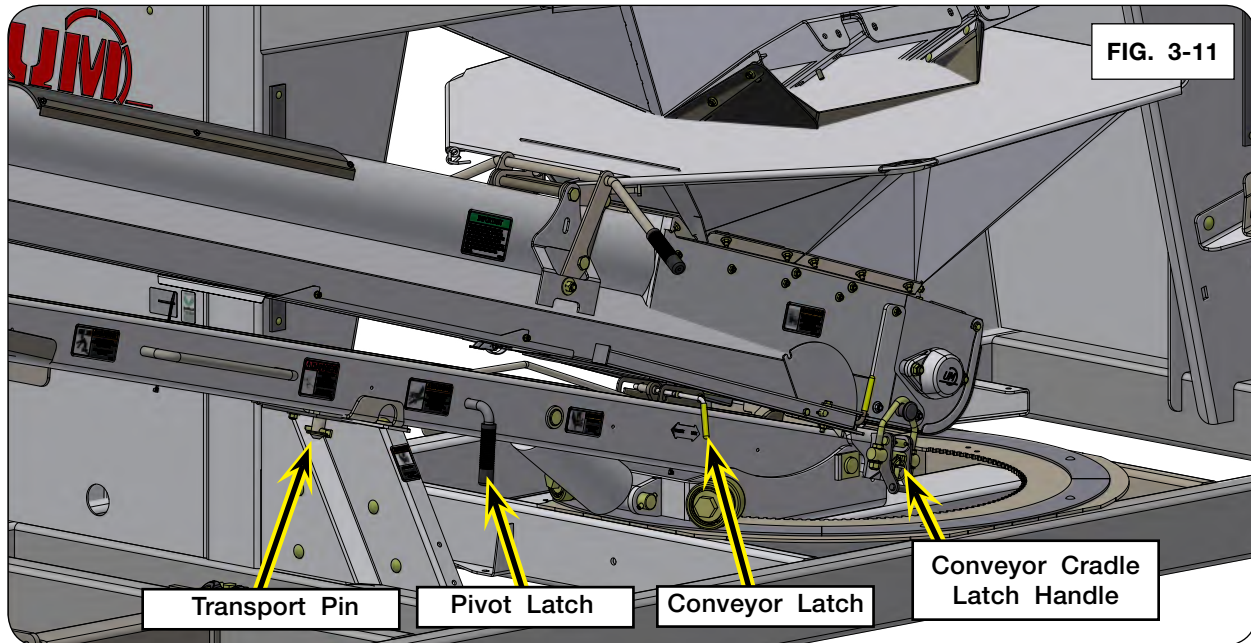
How To Adjust Speed Control Valve

Loosen threaded knob and move adjustment lever to lower number for a slower speed or a higher number for a faster speed.



Pivoting Conveyor Side-To-Side

Remove klik pin from pivot transport lock. Start engine on hydraulic power unit and increase throttle speed. Operate hydraulic valve to raise conveyor so that it clears transport cradle. Turn lever to release pivot latch, and swing conveyor out to desired position.



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



CAUTION

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

Raising and Lowering Conveyor

Conveyor height is adjusted by an electric switch either on the wired pendant, or the remote control. This switch activates the solenoid on the spool valve to raise or lower the conveyor.

IMPORTANT

- Always remove klik pin from pivot transport lock before raising conveyor.

Activate switch to raise or lower conveyor to desired height. A check valve in the system requires hydraulic pressure for both raising and lowering the conveyor.

Filling Planter or Drill

Position the Seed Runner tender next to planter so conveyor discharge will be over planter box. Start engine on hydraulic power unit and increase throttle speed. Raise conveyor to desired discharge height, and pivot to location over planter. Place spout over planter box. Open door(s) on seed tender box to begin flow of seed. Turn on conveyor by pressing conveyor on/off switch.

Fill box to desired level and turn conveyor off. Repeat process until each box/hopper is filled by pressing conveyor on/off button again. Adjusting engine speed on the hydraulic power unit will regulate conveyor speed. Shut the doors so that the conveyor is empty when filling the last box.

IMPORTANT

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

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

NOTE: When using to fill individual planter boxes, the cover plate must be installed over conveyor intake grate. This will slow grain flow to an acceptable level for ease of use. Failure to do so will result in over-filling conveyor and potential damage to seed or conveyor.

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

⚠ WARNING

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

Filling From Another Wagon or Bulk Container (Self-Filling)

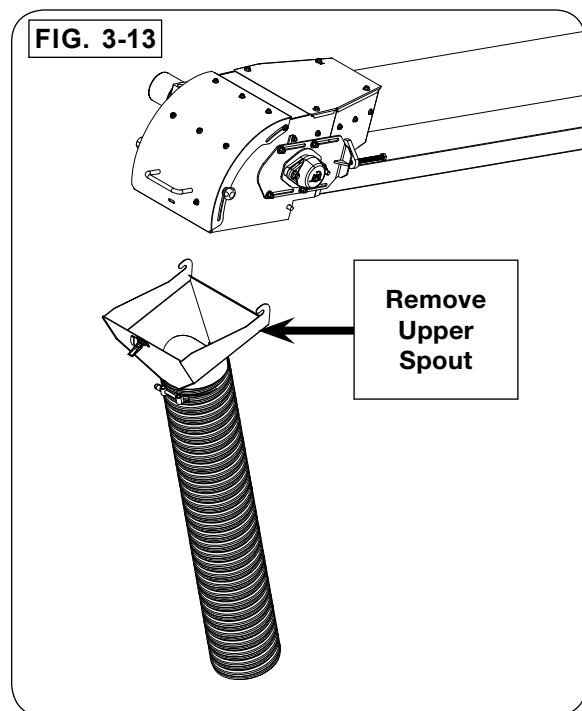
⚠ WARNING

- THE SEED RUNNER MUST BE HOOKED TO THE TOWING VEHICLE WHEN BEING FILLED AND THE BRAKES ON THE TOWING VEHICLE MUST BE SET.
- THE FRONT HOPPER OF THE SEED TENDER BOX SHOULD BE FILLED FIRST. THIS WILL MAINTAIN WEIGHT ON THE HITCH OF THE TOWING VEHICLE. FILLING THE REAR HOPPER FIRST WITH THE FRONT HOPPER EMPTY COULD RESULT IN NEGATIVE TONGUE WEIGHT ON THE UNDERCARRIAGE AND REDUCED CONTROL OF THE UNDERCARRIAGE WHEN TOWING.

1. Pivot conveyor out of transport position to about a 45 degree angle from the tongue and lower completely. (FIG. 3-12)

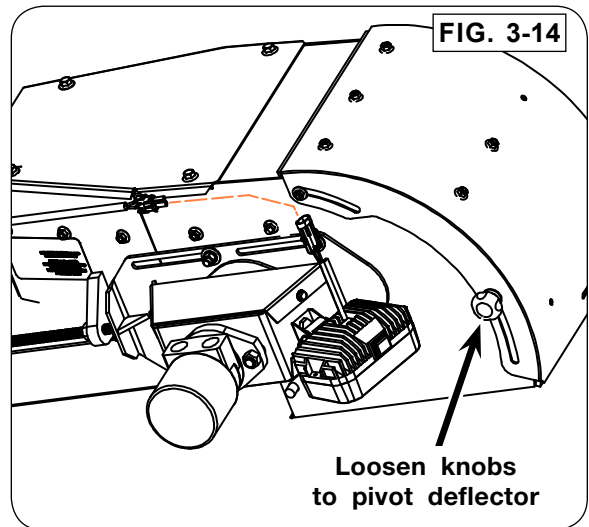


2. Remove upper spout from conveyor by releasing latch and sliding spout off of conveyor. (FIG. 3-13)



Filling From Another Wagon or Bulk Container (Self-Filling) (continued)

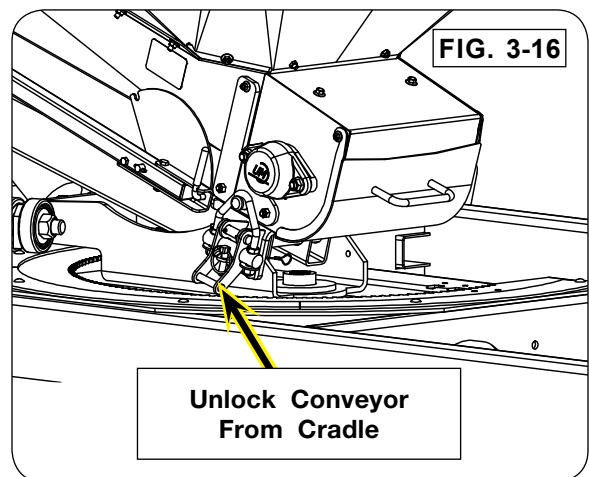
3. Loosen the two knobs on the side of the deflector, pivot deflector up, and tighten knobs to hold deflector in place. (FIG. 3-14)



4. Raise conveyor about half way up and position it at a 45 degree angle from the box. (FIG. 3-15)



5. Unlatch conveyor from lower cradle. (FIG. 3-16)

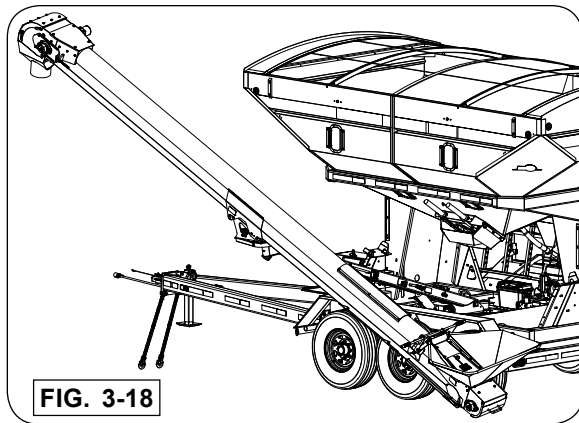


Filling From Another Wagon or Bulk Container (Self-Filling) (continued)

6. Lower flexible hopper by sliding lever back.



7. Pull hopper end of conveyor out from under the seed tender box.



Filling From Another Wagon or Bulk Container (Self-Filling) (continued)

8. Position conveyor so that the discharge end is located over the seed tender box and the hopper is on the ground or on the stand away from the box.

IMPORTANT

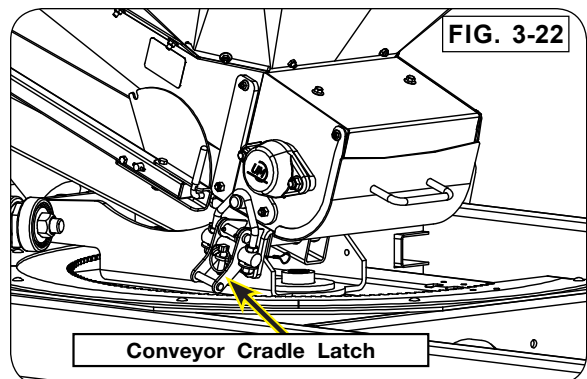
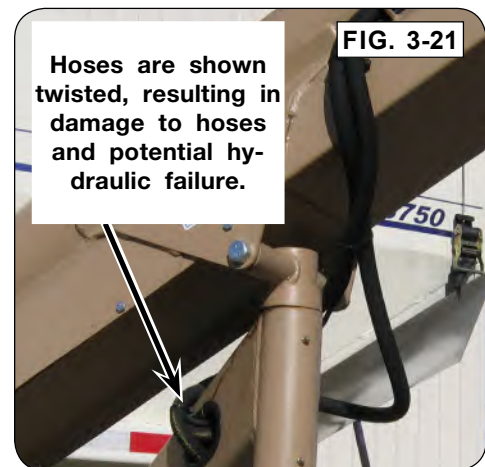
- Whenever possible, use the stand on the bottom of the conveyor to keep the hopper off the ground. Maximum conveyor performance and easier access to discharge point on bulk seed containers will result.
9. Raise flexible hopper by sliding lever to the upright position. Locate wagon or bulk seed container over conveyor hopper and operate conveyor to fill seed tender box.
 10. When finished loading seed into the seed tender, move wagon or bulk seed container away from conveyor. Pivot conveyor hopper back under the seed tender box, and latch in place. Conveyor should be placed back in the transport position and secured with the klik pin.

IMPORTANT

- When pivoting conveyor, be certain to pivot back in the direction it originally came from. Do not pivot conveyor round and around. Doing so will twist hydraulic hoses at pivot point resulting in damage to hoses and potential hydraulic failure.

IMPORTANT

- Conveyor must always be latched in cradle except when self-filling seed tender box.



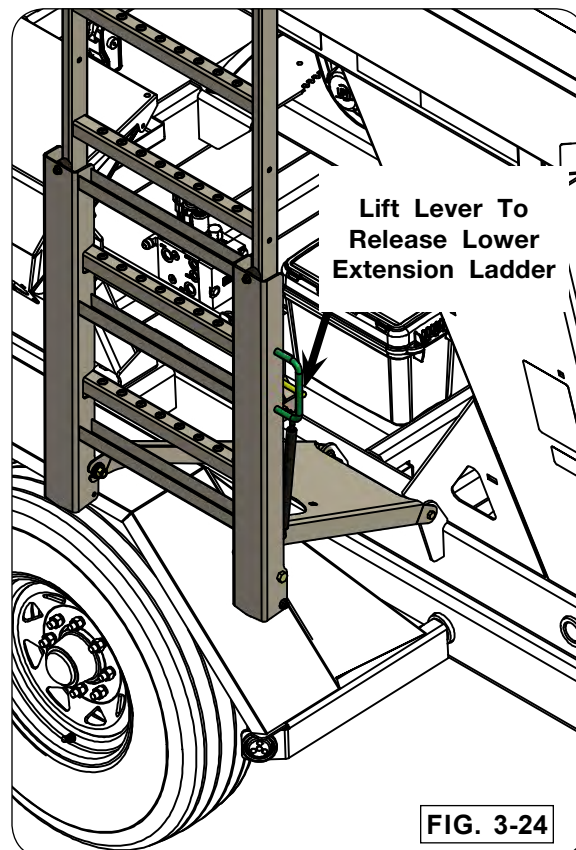
Spring Assist Adjustment

Conveyor support arm is equipped with a spring assist to ease operation in Self-Filling. This spring assist is adjustable by increasing or decreasing the tension on the spring. To adjust, loosen jam nut, and turn nut in to increase spring force, and out to reduce spring force. Always lock jam nut after adjustment.



Ladder

1. To use ladder, lift lever shown in FIG. 3-24 to release the lower extension ladder from transport position.
2. When not using ladder be sure to raise lower extension ladder and latch into the transport position.



Deluxe Ladder (Option)

1. To use ladder, lift lever shown in FIG. 3-25 to release the lower extension ladder from transport position.
2. When not using ladder be sure to raise lower extension ladder and latch into the transport position.



Tarp

IMPORTANT

- Do not release tension from ratchets once they are set. They should only be released if removing tarp from box.
1. To operate tarp, remove retaining pin from crank holder. With both hands, carefully remove crank from the holder. Extend crank handle assembly to a comfortable operating position at back of box. Roll tarp entirely to the open or closed position. Proceed by placing crank in holder and reinsert pins.
 2. Always use adequate caution when operating tarp.
 3. Make sure nobody is on or near the tarping system while operating tarp.
 4. Always use both hands with feet on a solid surface while operating the tarp.
 5. Do not exert extreme force to roll tarp open or closed. If tarp is covered with grain or snow, it must be removed before operating.
 6. End caps must be free from grain that may be piled on them.
 7. Tarp should be fully closed when in transport.
 8. Insert snap pins whenever removing or placing crank in holders.
 9. Periodic preventive maintenance should be practiced to maintain the tarp's ability to function and prolong its life. Inspect tarp and hardware often for abrasions or loosened bolts that may need to be adjusted and/or repaired. Check cables for wear and adjust tension whenever needed. Make all appropriate repairs or adjustments immediately before serious damage occurs.



3-Function Wireless Remote Control Pkg #2010447TS (Option)

See manual #2010519 for complete operating procedures.



6-Function Wireless Remote Control Pkg #2010448TS (Option)

See manual #2010520 for complete operating procedures.



7-Function Wireless Remote Control Pkg #2010449TS (Option)

See manual #2010521 for complete setup instructions and parts listing.



Override Box Options

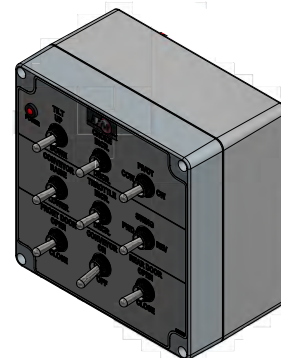
For units equipped with an Override Box, refer to remote override box instructions for installation and usage.



**Override Box
2 & 3 Function
(2009341)**



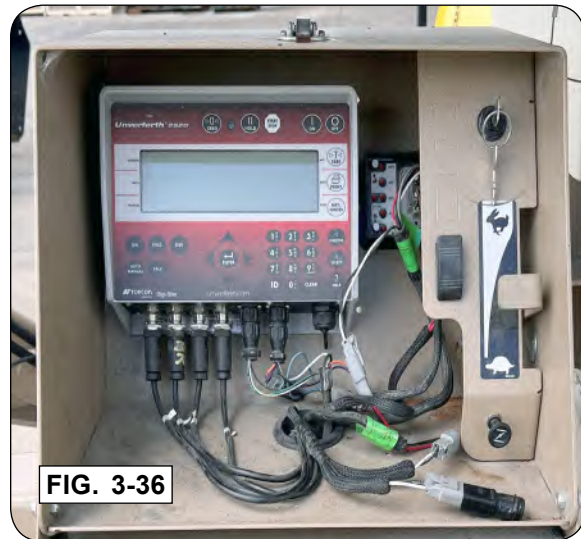
**Override Box
6 Function
(2009333)**



**Override Box
7 Function
(2010504)**

Auto-Shutoff Feature for UM2520 Scale ONLY (Option)

1. Turn on the UM2520 Electronic Scale. The scale only allows increments of 10 lbs. Enter the desired amount of product to be dispensed, then press [Enter].
2. The scale will flash “PRESET”. Use either the corded control or the radio remote to turn on the conveyor. Once the conveyor has dispensed the programmed amount of product it will automatically turn off.
3. To dispense the preset amount again press the conveyor control button once to automatically reset the indicator to the previously programmed unload weight. Press the button again turning the conveyor on. This cycle can be repeated as many times as necessary.



NOTE: If the conveyor is shut off in the middle of a weighing cycle it will stop the preset function and the scales will return to normal manual operation.

Rather than adjusting the preset weight, the indicator can be programmed to shut off earlier by a prescribed weight. Enter the Output Tolerance setting using either DAN code 442 or 6305. Then add the extra weight (10 lbs in this example) to the current tolerance value.

Making the change to the output tolerance instead of the preset weight means the user does not have to remember to take the determined weight out of the preset weight everytime. I think we should either add an optional step to do this or replace the current step 11 with this.

UM2520 Auto-Shutoff Calibration (Option)

IMPORTANT

- *External force applied to conveyor during “Auto Conveyor Shut-off” mode will cause scale to miss the target weight. Position the conveyor in the optimum location prior to unloading.*

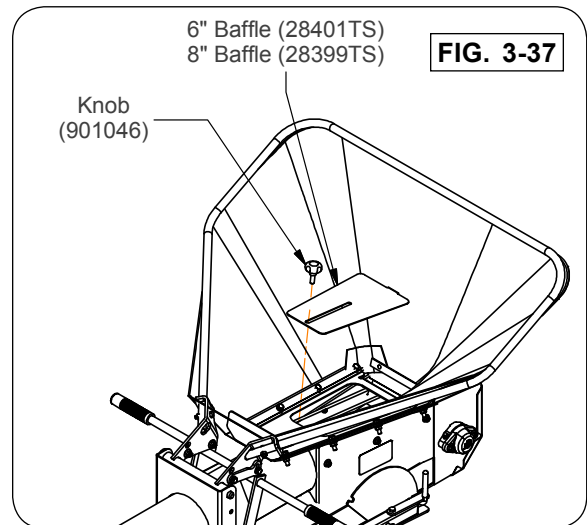
Note: These calibration steps are to quantify the amount of grain in the downspout when the conveyor turns off.

Filling Individual Planter Boxes

1. Install the baffle supplied on conveyor.

NOTE: Failure to use the intake baffle could overload the belt, causing seed and/or belt damage.

2. Turn on the UM2520 Electronic Scale Indicator. Enter the desired amount of seed to be unloaded (Example: 60 lbs.), then press “ENTER”.
3. The scale will flash “PRESET”. With the Seed Runner engine running, press the hand-held control button to turn on the conveyor.
4. Increase the throttle so the engine is at a desired constant speed that will be used during normal operation.
5. Open the flow door(s) of the Seed Runner to a desired amount that will be used during normal operation.
6. Once the conveyor turns off, record the number displayed on the indicator (Example: 0, 10, 20, etc.).
7. To verify the unload amount, perform the procedure again. Press the conveyor control button to automatically reset the indicator to the previously programmed unload weight. Press the conveyor control button again to restart the conveyor.
8. Record the number displayed on the indicator (Example: 0,10, 20, etc.).
9. Repeat steps #5 and #6 approximately 6 more times. Record the displayed number after each cycle.
10. If the indicator displays a “0”, the preset weight does not need to be adjusted.
11. If the indicator displays, for example, a “10” that means 10 lbs. extra were unloaded.
 - a. Adjust the preset weight to compensate for the extra 10 lbs. that were unloaded.
 - b. Enter the new preset weight 10 lbs. lower than the desired amount.



-OR-

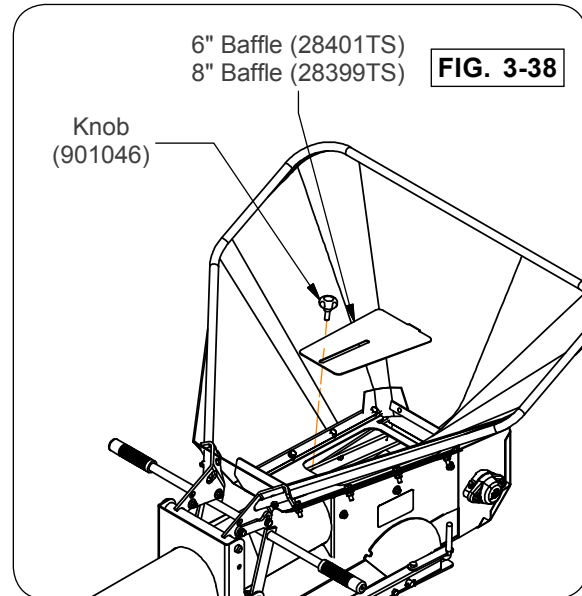
The indicator can be programmed to shut off earlier by a prescribed weight. Enter the Output Tolerance setting using either DAN code 442 or 6305, then add the extra weight (10 lbs in this example) to the current tolerance value.

12. When the conveyor auto shut-off is calibrated, refer to the operator's manual for normal operation.

UM2520 Auto-Shutoff Calibration (Option) (continued)

Filling a Central Fill System or Larger Quantity

1. The conveyor intake baffle does not need to be installed for a 6" conveyor and it should be removed on an 8" conveyor for maximum seed flow.
2. Turn on the UM2520 Electronic Scale Indicator. Enter the desired amount of seed to be unloaded (Example: 300 lbs.), then press "ENTER".
3. The scale will flash "PRESET". With the Seed Runner engine running, turn on the conveyor.
4. Increase the throttle so the engine is at a desired constant speed that will be used during normal operation.
5. Open the flow door(s) of the Seed Runner to a desired amount that will be used during normal operation.
6. Once the conveyor turns off, record the number displayed on the indicator (Example: 50, 60, etc.).
7. To verify the unload amount, perform the procedure again. Press the conveyor control button to reset the indicator. Press the conveyor control button again to restart the conveyor.
8. Record the number displayed on the indicator (Example: 50, 60, etc.).
9. Repeat steps #5 and #6 approximately 6 more times. Record the displayed number after each cycle.
10. If the indicator displays a "0", the preset weight does not need to be adjusted.
11. If the indicator displays, for example, a "50" that means 50 lbs. extra were unloaded.
 - a. Adjust the preset weight to compensate for the extra 50 lbs. that were unloaded.
 - b. Enter the new preset weight 50 lbs. lower than the desired amount.



-OR-

The indicator can be programmed to shut off earlier by a prescribed weight. Enter the Output Tolerance setting using either DAN code 442 or 6305, then add the extra weight (50 lbs in this example) to the current tolerance value.

12. When the conveyor auto shut-off is calibrated, refer to the operator's manual for normal operation.

Work Light Kit #2004450 (Option)

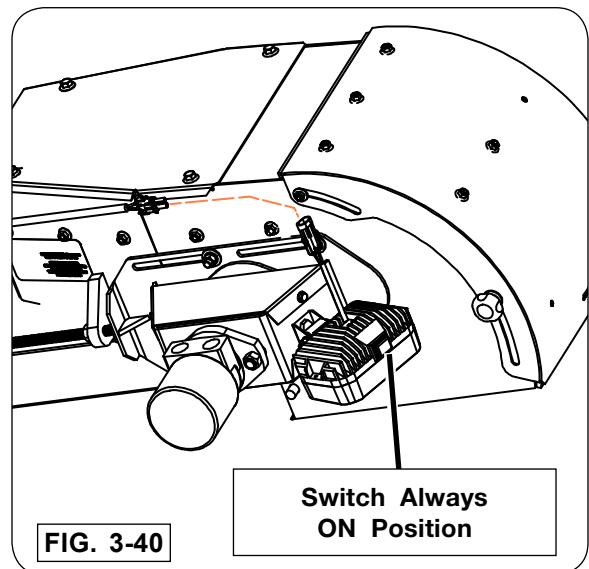
Turning light on/off:

NOTE: Rocker switch in the enclosure box must also be on to turn the work lights on.

1. Turn light on/off using the switch on the light or by turning the key on or off. Aim light to best illuminate work area.

IMPORTANT

- *When not using light for long periods of time, make sure light is turned off. If left on, battery may be drained.*

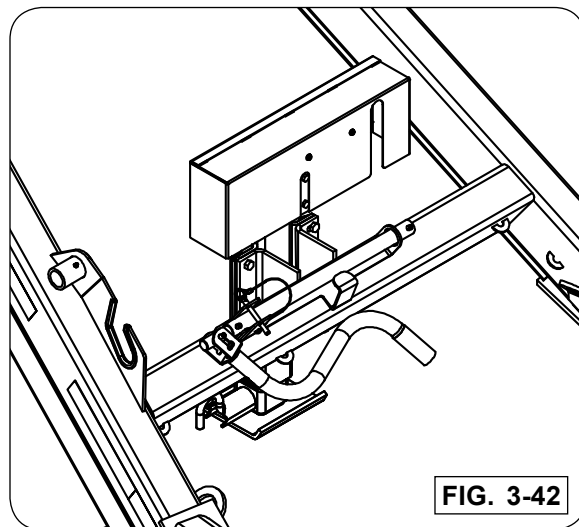


Hydraulic Jack (Option)

See hydraulic jack for bumper hitch manual #2005832 for complete operating procedures.



See hydraulic jack for gooseneck hitch manual #2004726 for complete operating procedures.



Optional Gooseneck Cushion Hitch Height/Air Pressure Adjustment

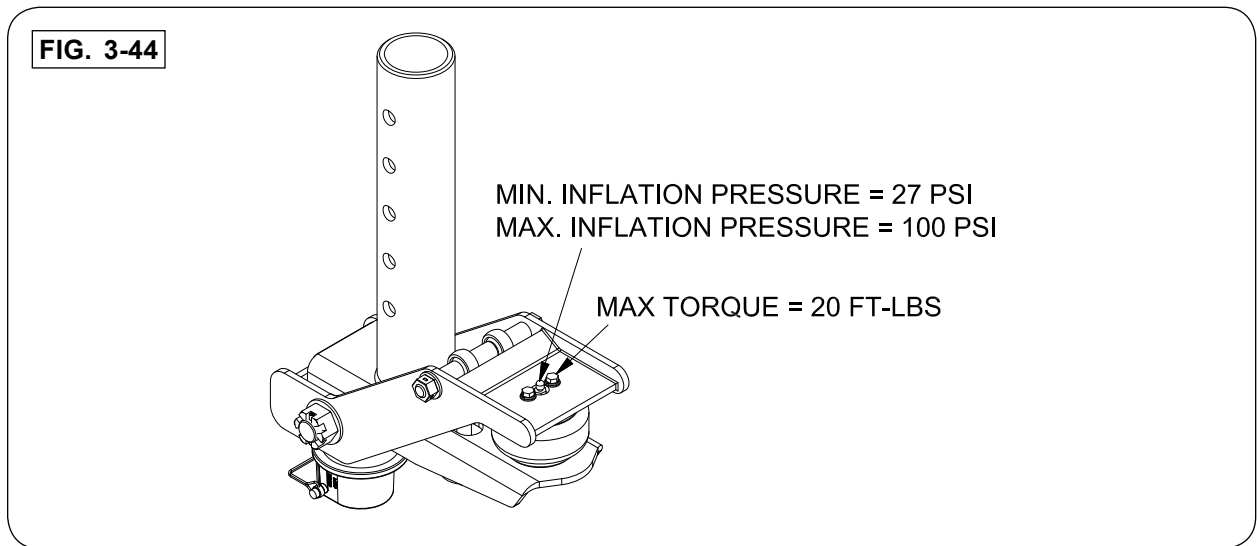
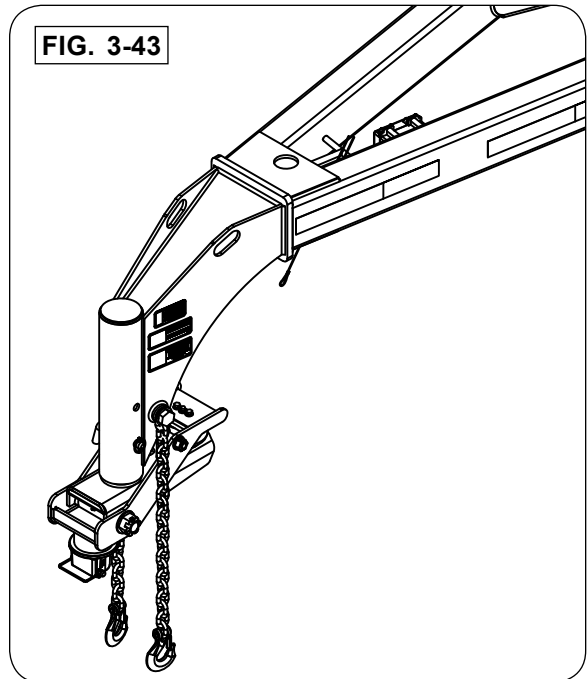
Make sure seed tender is running level when loaded.

Adjust the air pressure as needed to get the desired ride quality for customers setup.

Min. Inflation Pressure = 27 PSI

Max. Inflation Pressure = 100 PSI

NOTE: Do not over tighten the air bag retaining hardware.



Notes

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Maintenance

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Lubrication

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

Conveyor Bearings

Lubricate these bearings every 8 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 conveyor bearings, as damage to bearing seal could occur.
- These bearings are shipped from our manufacturer full of grease. It is possible they will not take grease on a new machine.

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

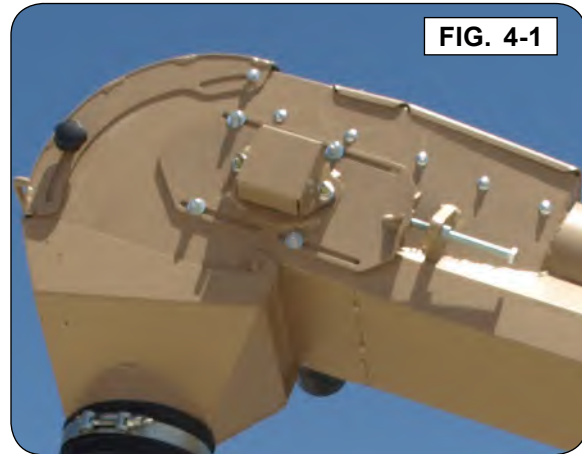


FIG. 4-1

Pivot Points

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



FIG. 4-2



FIG. 4-3

Hydraulic Power Unit

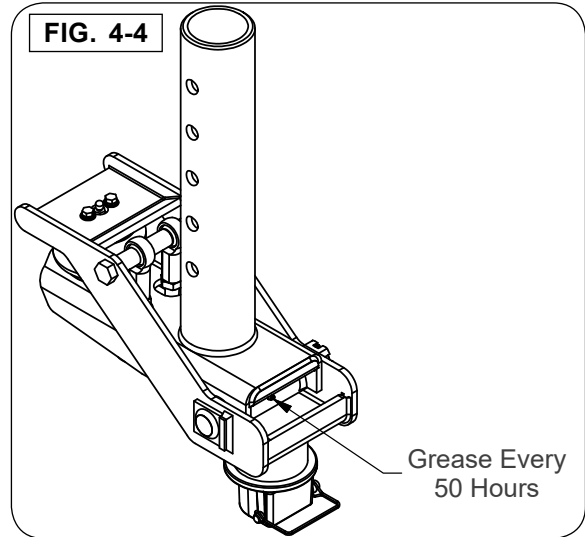
Inspect hydraulic oil level in reservoir daily. The level should be 1 to 1 1/2" from the top of the sight gauge. Add the appropriate amount of hydraulic oil as needed. Most farm tractor type hydraulic oils are acceptable. **DO NOT** use Automatic Transmission Fluid! **DO NOT** mix different oils when topping off the tank.

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

Lubrication (continued)

Gooseneck Cushion Hitch

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



Gooseneck Cushion Hitch Torque and Air Pressure

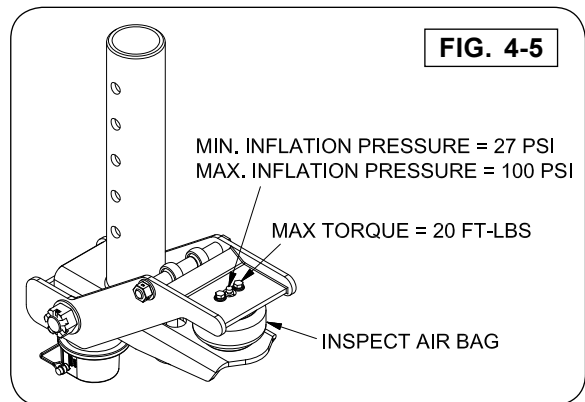
Check air bag pressure.

Min. Inflation Pressure = 27 PSI

Max. Inflation Pressure = 100 PSI

Torque the air bag retaining hardware to 20 Ft.Lbs.

Inspect air bag for rips, tears, and leaks.



Hydraulic System

Refer to parts section for hydraulic component detail listing.

When properly assembled and maintained, the hydraulic system of the seed tender requires little maintenance.

Replacing Hoses/Fittings/Cylinders:

1. Use replacement hoses, fittings, and cylinders from your Unverferth Manufacturing dealer which are rated for 3000 psi.
2. Do not use hoses, fittings and cylinders that have pipe threads.
3. Do not use Teflon tape or thread sealant on JIC or O-ring fittings. Tighten fittings according to “Torque Chart” in this section.
4. When replacing hoses, always allow sufficient slack to permit hoses to move through the full range of motion of the cylinders.
5. Always purge the hydraulic system after servicing.

Purge Hydraulic System

WARNING

- RELIEVE HYDRAULIC SYSTEM OF ALL PRESSURE BEFORE ADJUSTING OR SERVICING. SEE “RELIEVING HYDRAULIC PRESSURE” IN THE MAINTENANCE SECTION OF THIS MANUAL.
- HIGH-PRESSURE FLUIDS CAN PENETRATE THE SKIN AND CAUSE SERIOUS INJURY OR DEATH. LEAKS OF HIGH-PRESSURE FLUIDS MAY NOT BE VISIBLE. USE CARDBOARD OR WOOD TO DETECT LEAKS IN THE HYDRAULIC SYSTEM. SEEK MEDICAL TREATMENT IMMEDIATELY IF INJURED BY HIGH-PRESSURE FLUIDS.



Purge air from system as follows:

- A. Clear all personnel and objects from the area, including where the machine will have full range of motion during the hydraulic movement. Remove transport locks from the machine.
- B. Pressurize the system and maintain the system at full pressure for at least 5 seconds after the cylinder rods stop moving, or hydraulic motors have completed the required movement. Check that all movements are fully completed.
- C. Check oil reservoir in the hydraulic power source and refill as needed.
- D. Pressurize the system again to reverse the motion of step B. Maintain pressure on the system for at least 5 seconds after the cylinder rods stop moving, or hydraulic motors have completed the required movement. Check that all movements are fully completed.
- E. Check for hydraulic oil leaks using cardboard or wood. Tighten connections according to directions in the Torque Specifications in the MAINTENANCE section.
- F. Repeat steps in B, C, D, and E 10-12 times.

IMPORTANT

- *Machine damage will occur if the cylinder is incorrectly installed.*

Check for and correct any leaks. Make sure hoses are not kinked, stretched, or twisted. Secure hoses to prevent cuts or chafing during operation.

Hydraulic System (continued)

Relieving Hydraulic Pressure

To relieve hydraulic pressure in the system, be sure hydraulic motor is disengaged and/or hydraulic cylinder is not exerting force on the system. Next, turn off engine and actuate valve in hydraulic system to all positions of actuation and to the neutral position. This should relieve all pressure in the system. If there is a need to remove hydraulic fittings or hoses, slowly loosen the appropriate connections. If there appears to be pressure in the system, retighten fitting and at the top of this section and perform all procedures again until pressure is relieved.

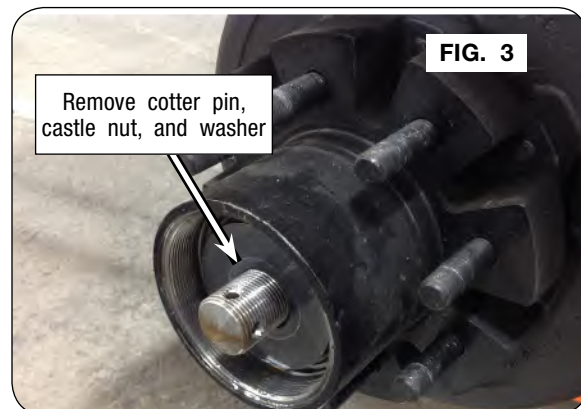
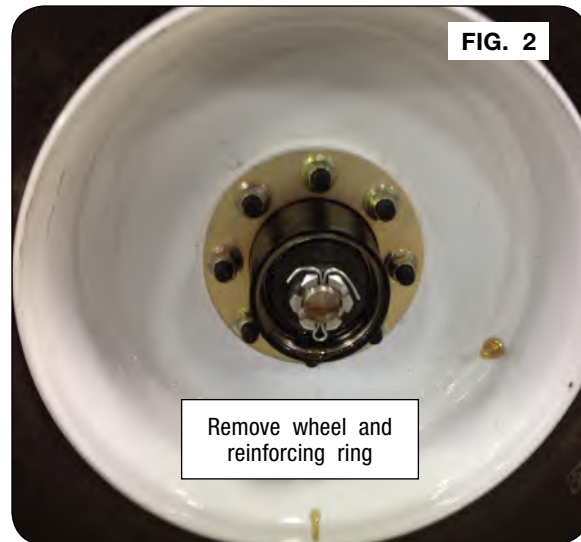
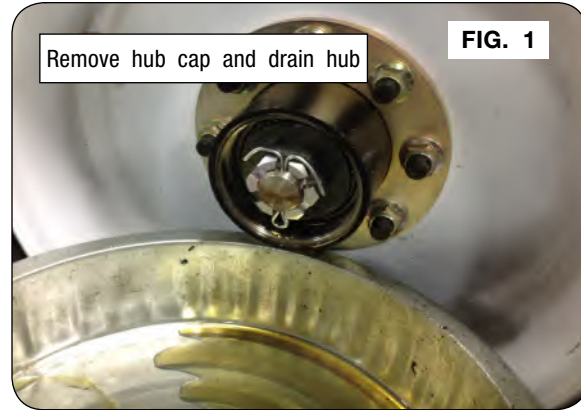
Hub Assembly

The wheel bearings should be cleaned, lubricated and adjusted every 12 months or 12,000 miles, whichever comes first. Use an SAE 80W90 oil to lubricate bearings. If the hub has been removed or bearing adjustment is required, the following procedure must be followed:

1. Clean spindle of all rust/corrosion, etc. The area where bearings and especially seal surface must be smooth and free of all rust and imperfections.
2. Apply a thin coating of oil to the inner seal surface, spindle bearing, and seal surface.
3. Carefully install hub/drum assembly onto the spindle.
4. Install outer bearing, washer, and nut.
5. Rotate hub while tightening spindle nut to 100 ft.-lbs.
6. Loosen nut, do not move hub.
7. Hand tighten nut till snug.
8. Begin to rotate hub and hand tighten more if necessary.
9. Advance the slotted nut to the nearest hole in spindle (horizontal or vertical) and tighten just enough to align with that hole.
10. Check hub for end play. (There should not be any). Hub should rotate freely with essentially no drag.
11. Install cotter pin and bend prong over.
12. Apply a thin layer of oil to hub cap o-ring.
13. Install the o-ring onto cap, being sure the o-ring is fully seated on the cap and not twisted.
14. Thread hub cap onto hub, and torque to 20-30 ft.-lbs. max.
15. Fill hub with oil. Rotate and ensure oil level is up to fill hole.
16. Install rubber plug.

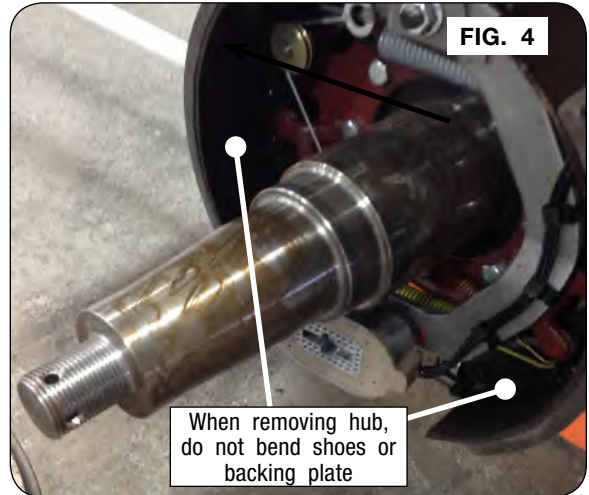
Seal and Bearing Replacement

1. Park the empty Seed Runner tender on a firm, level surface. Block the wheels on the machine to keep it from moving. Set the towing vehicle's parking brake, shut-off the engine, and remove the ignition key from the towing vehicle and seed tender.
2. Remove the clear hub cap from one wheel and drain the oil. You may retain the oil to refill the hub later. (Fig. 1)
3. Once the oil has been completely drained, raise the wheel with the hub cap removed with a safe lifting device rated for 8,000 lbs. Secure with proper supports rated for 8,000 lbs. total.
4. Remove the wheel and tire from the hub. Retain all of the hardware removed. (Fig. 2)
5. Remove the cotter pin, castle nut, and washer from the spindle. (Fig. 3) Retain the castle nut and washer.



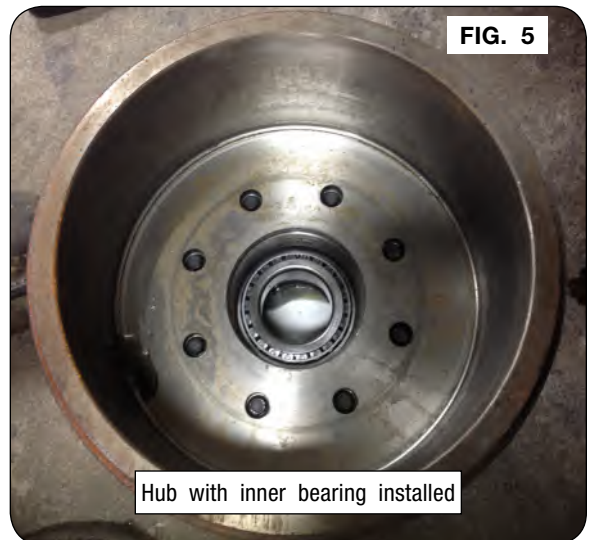
Seal and Bearing Replacement (continued)

6. Remove the hub from the spindle. (Fig. 4)
Make sure not to bend the brake backing plate as the drum is removed.

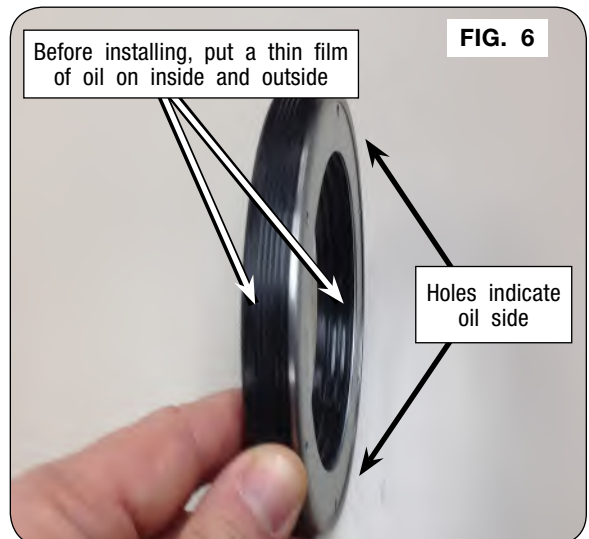


7. Remove the seal and both bearings from the hub.

8. Fully seat the inner bearing into the hub. (Fig. 5)



9. Put a film of oil on the inside and outside sealing surfaces of the new seal. Install the new seal into the hub. The side with the holes in the metal plate is the oil side. The side with the rubber cap is the air side. The seal should be flush with the inside surface of the hub.



Seal and Bearing Replacement (continued)

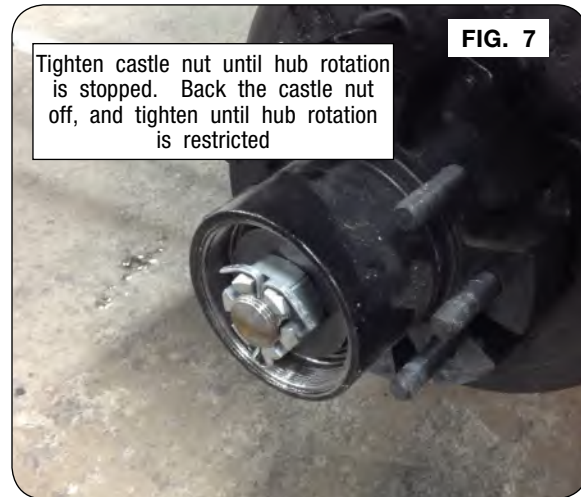
10. Install the hub assembly onto the spindle. Seat the outer bearing onto the spindle and into the hub.

11. Install the washer and castle nut onto the spindle. While rotating the hub, tighten the castle nut until the hub rotation is stopped. Back off the castle nut to relieve the pressure from the bearings. Tighten again while rotating the hub until the hub rotation is restricted by the castle nut. Back the nut off to the first available hole. Rotate the hub to ensure there is no side-to-side play. If side play is present, back off the castle nut and tighten while rotating the hub again. Install the provided cotter pin into the spindle (Fig. 6)

12. Install the hub cap into the hub. Remove the center fill plug and fill the hub to the level indicator with SAE 80W-90 oil. Rotate the hub several times and re-check the oil level to ensure proper fill. Re-install the fill plug.

13. Install the wheel onto the hub. Reference your owner's manual for proper wheel nut torque. Using a safe lifting device rated for 8,000 lbs., raise the tender, remove the support stands and lower the machine to the ground.

14. Repeat steps 2-13 for any remaining hubs.



Conveyor Belt

WARNING

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

IMPORTANT

- *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 after the first initial use, second use and then after the 2 hours of initial use. Thereafter, belt tracking should be checked at the beginning of each season and every 8 hours of use. Belt tracking will also need to be checked anytime the belt tension is adjusted.*

Belt Tension

Belt tension is inspected by removing lower cover panel from conveyor, and gently pulling on the conveyor belt. The belt should have approximately 1/2" of slack at the center. It is recommended to check the belt tension before operation if the unit has been sitting for an extended period of time.

How To Tension Belt

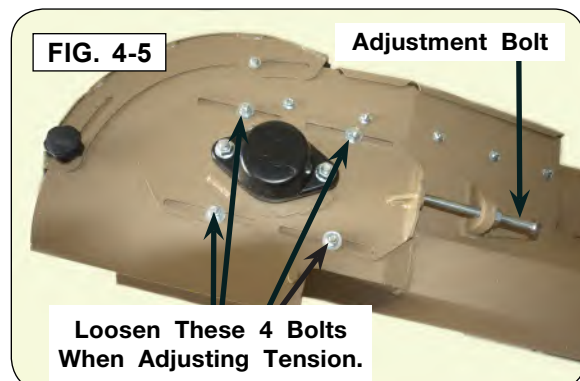
1. On the outside of the belt and conveyor, measure from the bottom of the conveyor shell to the belt without pulling down on belt and note that measurement (FIG. 4-4 shows 1 1/2").
2. Keep the tape measure pressed up against the belt and Pull down on center lug of conveyor belt in the middle of the access door with a fair amount of force. The belt should deflect a 1/2" (tape measure will read 1").

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 drive pulley. Replace the bottom cover panel and continue to check 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)

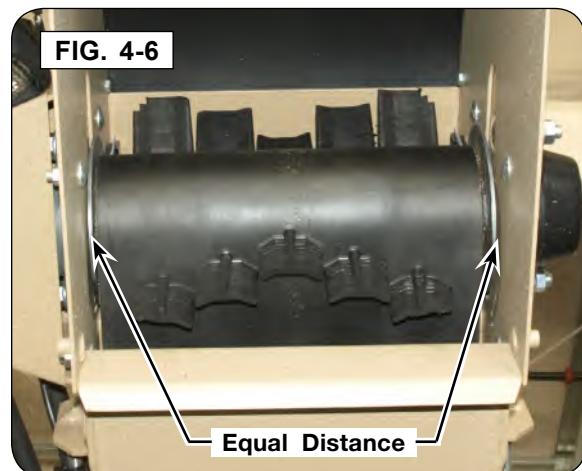
Belt Tracking

WARNING

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

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

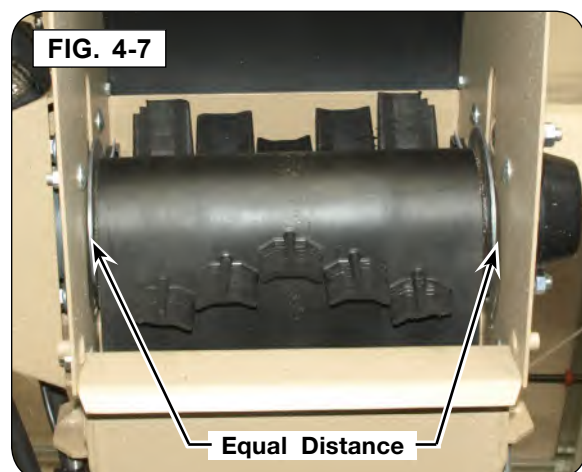
Inspect tracking of belt at discharge end by removing lower spout, pivoting deflector up, and looking up at the belt and pulley. Belt should be in center of pulley.



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

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

Inspect tracking of belt at intake end by opening bottom inspection door on conveyor. Belt should be in the center of the pulley.

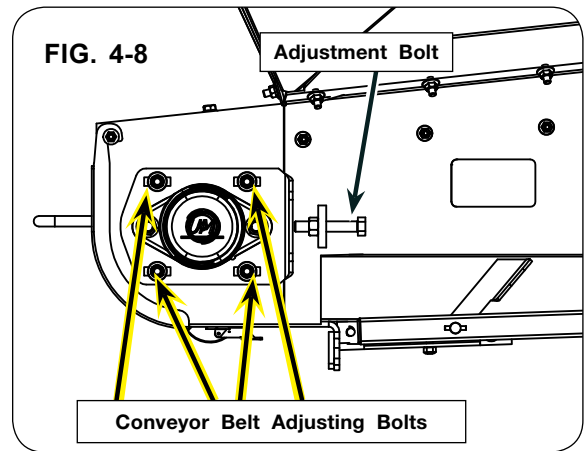


Conveyor Belt (continued)

Belt Tracking (continued)

Adjust by loosening (Do Not Remove) the 2 bolts holding the bearing.

Operate conveyor at slow speed, and tighten or loosen adjustment bolt until belt is running in the center of the pulley.



Tighten the two bolts on the adjustment plate, and lock the adjustment bolt into place.

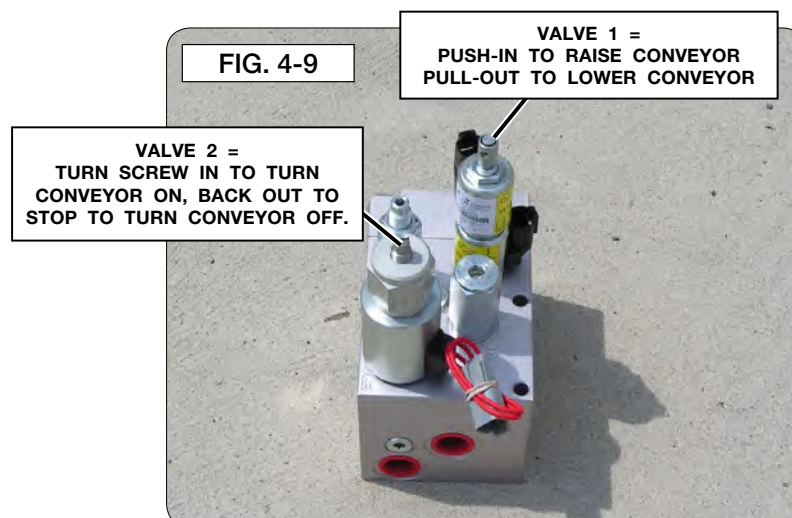
Manual Control Of Conveyor

For units equipped with an Override Box, refer to remote override box instructions for installation and usage.

Should the wired switch or remote control not work to operate the conveyor, use the override buttons on the valve for operation. These are the red knurled buttons located on top of the solenoids. The operations are performed by either pushing in the button and holding in place or pulling the button up and holding in place.

Valve 1 = By pushing this button in and holding in position, it will raise the conveyor. Pull this button up and hold in position, to lower the conveyor (FIG. 4-9).

Valve 2 = To override, use a flat screwdriver and screw in so the valve remains open. To return to normal valve function, use a flat screwdriver and screw completely out. (FIG. 4-9).



NOTE: To pull-out on Valve 1, push in on the button and pull up on the knurled sleeve.

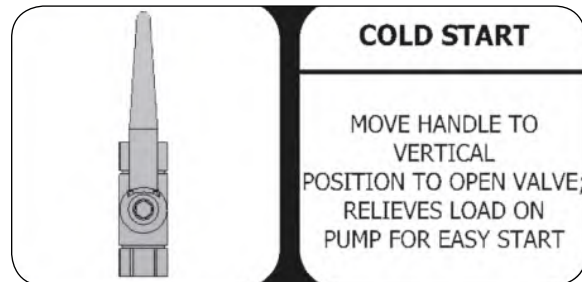
Pull Start Engine

Should the engine fail to start due to a weak battery, it is possible to pull start the engine. If the battery voltage is extremely low the ignition system will need to be bypassed to be able to pull start the engine. This procedure includes:

1. Flip the override switch to the “pull start” position. (FIG. 4-13)



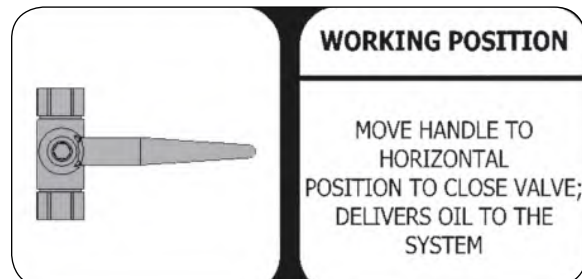
2. Place cold start ball valve to OPEN (handle vertical) COLD START position.



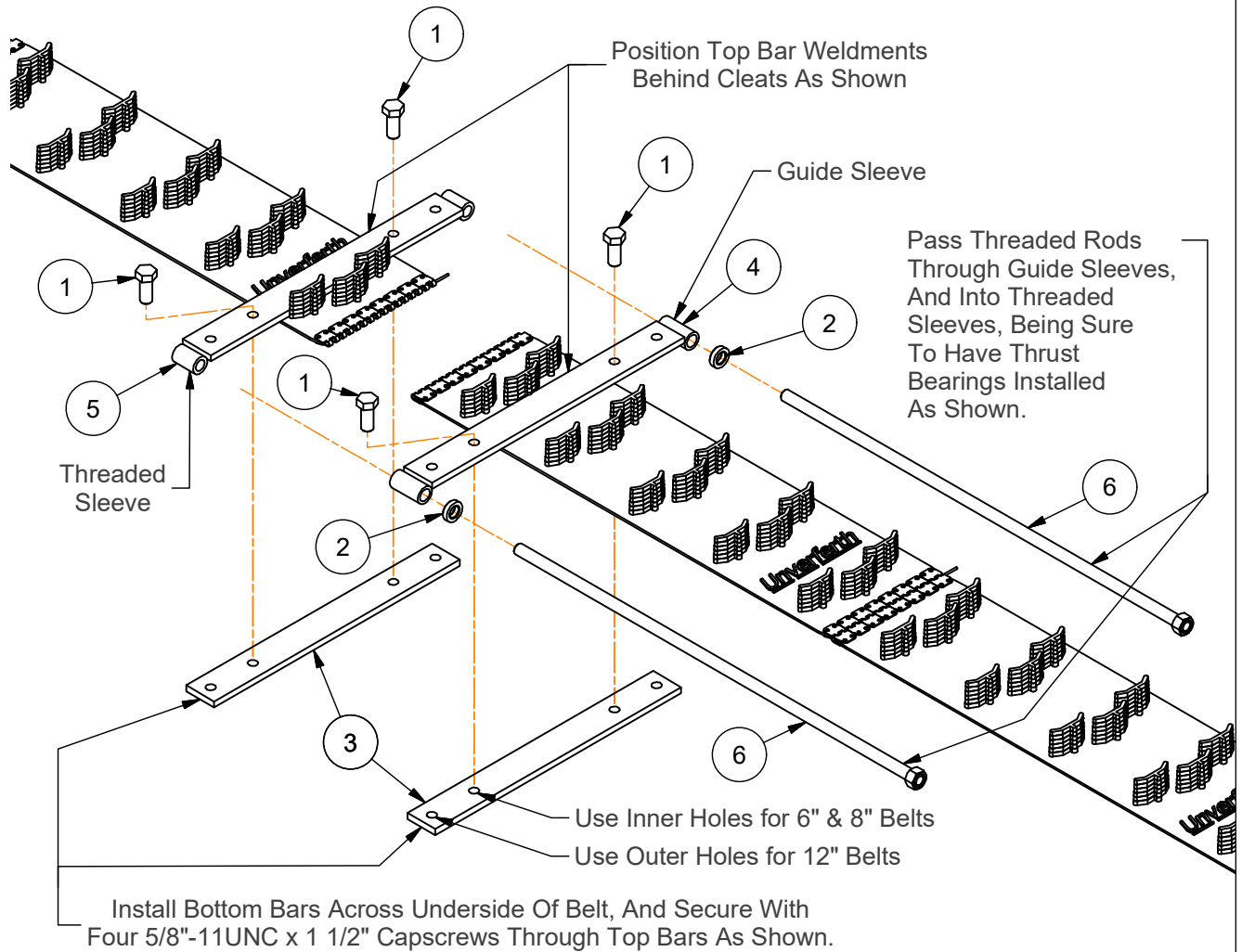
3. Pull the choke and then pull start the engine, open the choke as the engine warms.

4. Once the engine is running, move the key switch to the on position and flip the override switch back to “key switch” position.

5. After the engine has ran for 3 to 5 minutes, then change cold start ball valve to CLOSED (handle horizontal) WORKING POSITION.



Belt Stretcher (Optional)

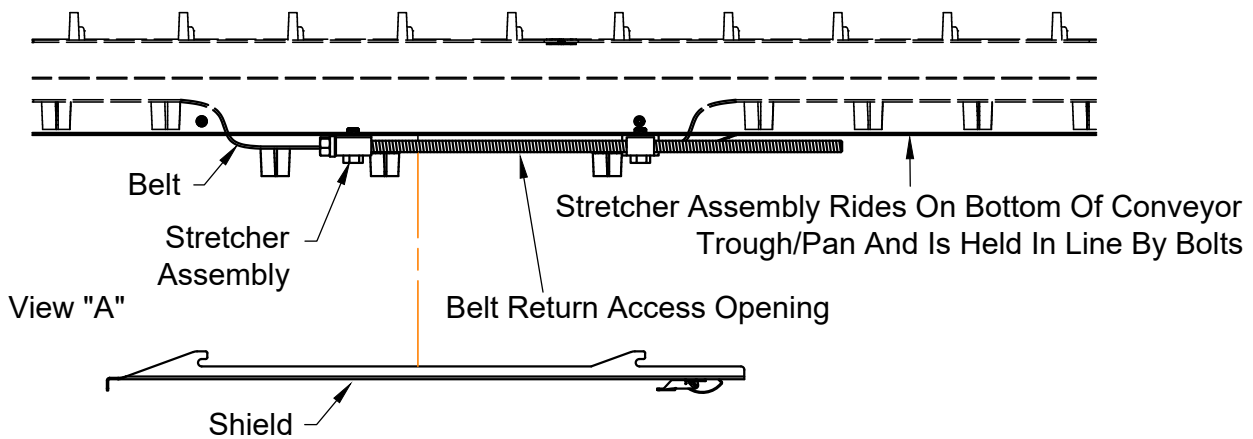
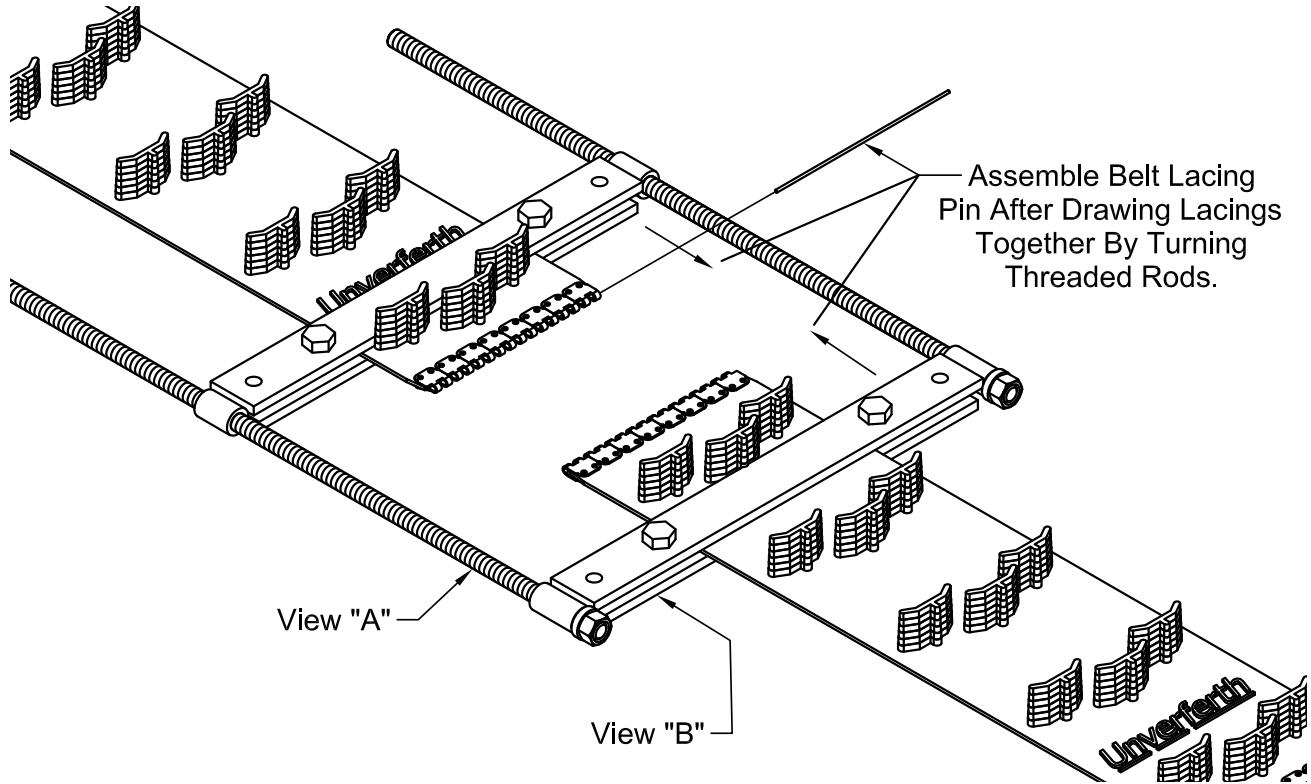


ITEM	PART NO.	QTY	DESCRIPTION
	TA4-114400-0	1	BELT INSTALLATION TOOL
1	9390-122	4	CAPSCREW, 5/8-11UNC x 1 1/2 LG. GRADE 5
2	TA0-903118-0	2	BEARING, BALL THRUST, 5/8" I.D.
3	TA1-114401-0	2	BOTTOM BAR
4	TA2-114404-0	1	PLAIN TOP BAR WELDMENT
5	TA2-114406-0	1	THREADED TOP BAR WELDMENT
6	TA2-114408-0	2	THREAD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

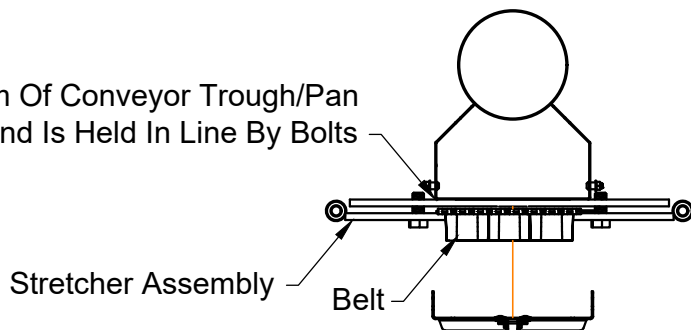
Belt Stretcher (Optional) (Continued)

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



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).

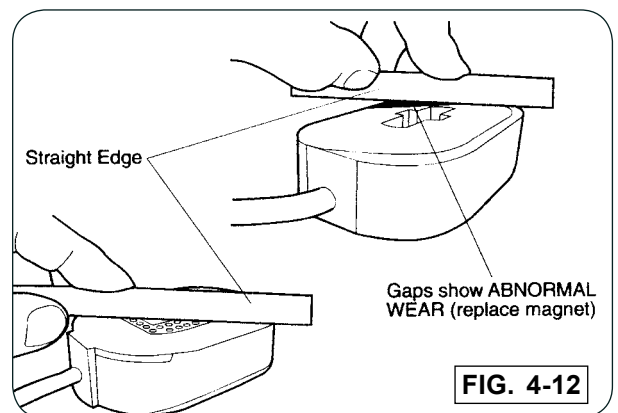
Brake Lubrication

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

FIG. 4-13



*Acceptable
Hairline Cracks*

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.

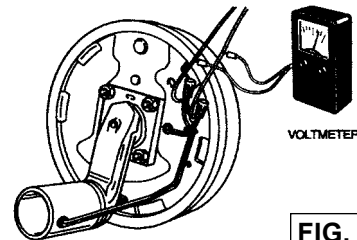
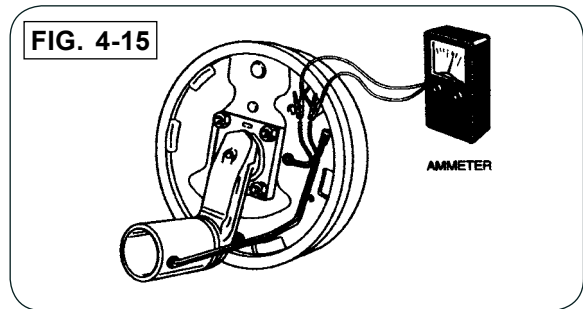


FIG. 4-14

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.



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

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 Drum Inspection

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

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

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.

IMPORTANT

- *It is important to protect the wheel bearing bores from metallic chips and contamination which result from drum turning or armature re-facing operations. Make certain that the wheel bearing cavities are clean and free of contamination before reinstalling 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.

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.**

Power Pak

For general maintenance and servicing of power pak unit.

NOTE: Honda engines are warranted for 3 years. For maintenance of engine and warranty information, refer to Operator's Manual provided with engine. Following are Websites to locate local Honda engine dealers and service centers:

US www.engines.honda.com

Canada www.honda.ca

Please provide Honda with the following engine information:
11.7 HP GX390 UT2QNE2

The hydraulic filter and fluid should be replaced after every 100 hours of engine run or once the filter gauge indicates a restriction in the red area. Be sure to filter the fluid when filling tank, especially from a bulk container. Any foreign materials in fluid will dramatically reduce the life of the pump. Follow steps below to change hydraulic fluid:

WARNING

- **RELIEVE HYDRAULIC SYSTEM OF ALL PRESSURE BEFORE ADJUSTING OR SERVICING. SEE "RELIEVING HYDRAULIC PRESSURE" IN THE MAINTENANCE SECTION OF THIS MANUAL.**
- **HYDRAULIC SYSTEM MUST BE PURGED OF AIR BEFORE OPERATING TO PREVENT SERIOUS INJURY OR DEATH.**
- **HIGH-PRESSURE FLUIDS CAN PENETRATE THE SKIN AND CAUSE SERIOUS INJURY OR DEATH. LEAKS OF HIGH-PRESSURE FLUIDS MAY NOT BE VISIBLE. USE CARDBOARD OR WOOD TO DETECT LEAKS IN THE HYDRAULIC SYSTEM. SEEK MEDICAL TREATMENT IMMEDIATELY IF INJURED BY HIGH-PRESSURE FLUIDS.**



Power Pak (continued)

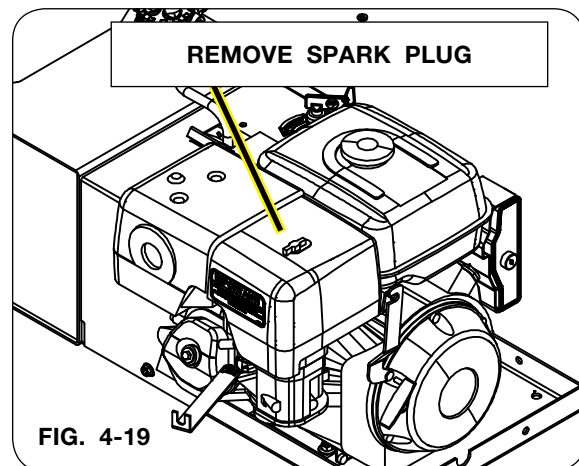
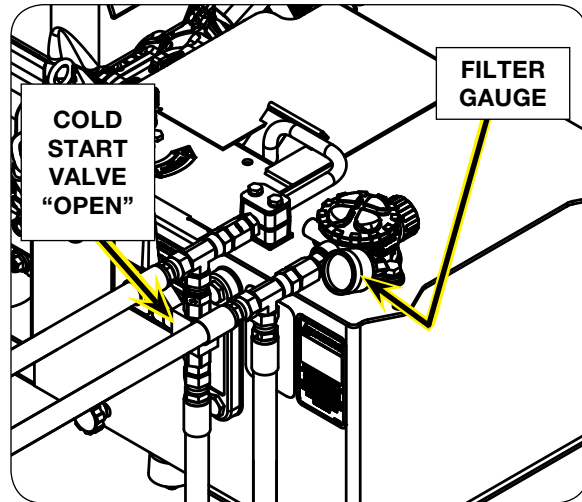
Replace the initial filter after 3 hours of use with the additional oil filter provided. It is not necessary to replace the hydraulic fluid at this time. When the filter is replaced after the initial filter replacement, it is important that the hydraulic fluid be replaced too. It takes approximately 4.5 gallons to fill the system.

IMPORTANT

- When checking the filter by using a gauge, check the filter gauge after conveyor is ran for 2 minutes to allow oil to warm up.
- When replacing filter be sure that it is replaced with an Unverferth service part. This filter has an ultra-fine mesh which filters out microscopic particles. Failure to replace with an Unverferth filter could result in system malfunction and/or shortened life of components. The hydraulic filter and fluid should be replaced after every 100 hours of engine run time. Place cold start valve in OPEN position. Be sure to filter the fluid when filling the tank, especially from a bulk container. Any foreign fluid will dramatically reduce the life of the pump.
- Use a premium hydraulic fluid. This fluid not only will provide pressure to operate your equipment, but also lubricates all components. This unit was designed to use **Chevron 1000 THF hydraulic fluid**. Use the same or equivalent-type hydraulic fluid to provide a long service life of your Power Pak.

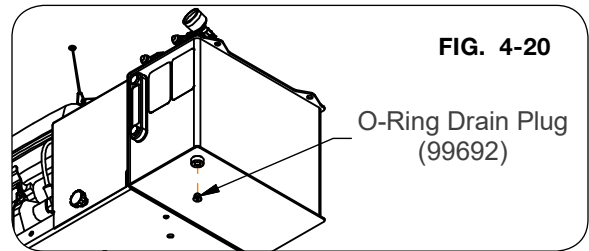
NOTE: The filter gauge may take several seasons for the gauge to approach the red (replace) portion of the gauge. Once the gauge is close to the red (replace) portion, the gauge will spike.

1. Turn off engine and remove spark plug to prevent engine from starting. Be sure all hydraulic fittings and hoses are relieved of pressure, FIG. 4-19.

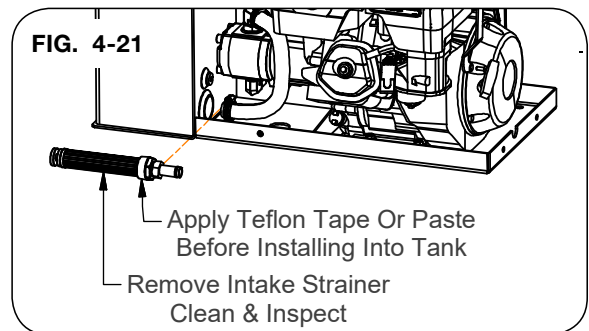


Power Pak (continued)

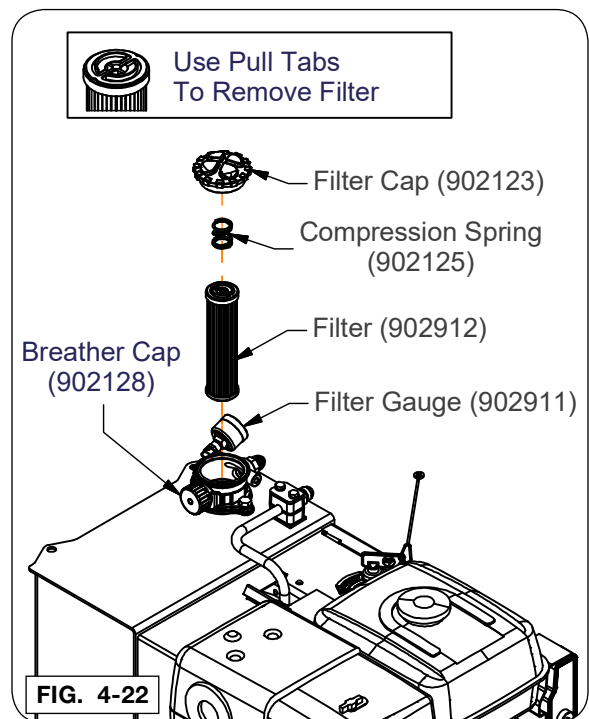
2. Make sure a proper container is available to drain hydraulic oil. Remove hydraulic fluid o-ring drain plug (99692) and drain hydraulic oil into container, FIG. 4-20.



3. Using a 1 7/8" wrench, remove intake strainer from tank. Clean strainer of all debris and check for any damage. Replace if necessary, FIG. 4-21.
4. Before reinstalling intake strainer to tank, apply teflon paste or tape on threads to help seal threads, FIG. 4-21.



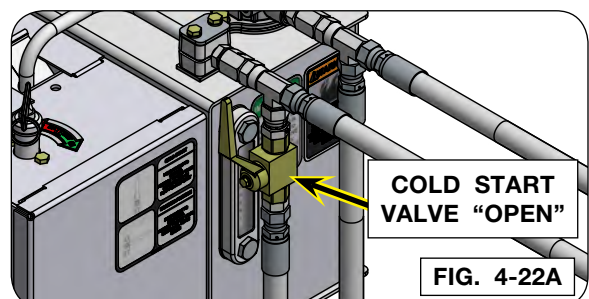
5. On return line filter, remove filter cap and pull out filter using pull tabs on filter, FIG. 4-22. Properly dispose of filter and replace with a new filter of exact specifications. **DO NOT** substitute filter specifications.
6. Once all components have been reassembled and secured, new hydraulic fluid may be added to the hydraulic fluid tank. Fill fluid to 1 to 1 1/2 inches from the top of the level gauge on the front of the unit, FIG. 4-22. There must be 1 to 1 1/2 inches of space at the top of the level gauge on the front of the unit. **DO NOT** over fill. Once the tank is full, secure cap to top of tank.



NOTE: When topping off hydraulic fluid tank, always use the same fluid as what is already in the tank. **DO NOT** mix different brands or types of hydraulic fluid.

NOTE: Use Chevron 1000 THF hydraulic fluid.

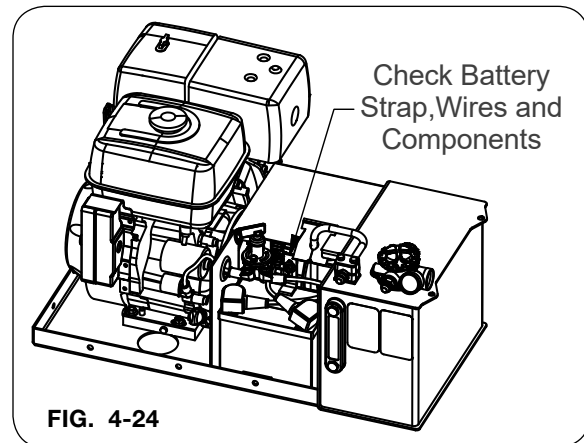
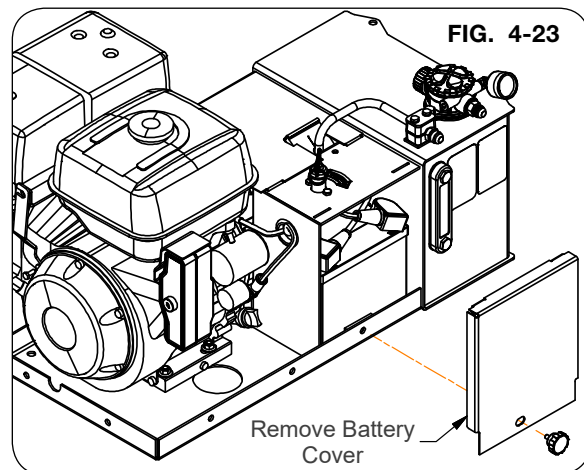
7. Place cold start valve in OPEN (handle vertical) position. (FIG. 4-22A)
8. With the spark plug removed, the pump must be primed. To prime pump, rotate engine by pulling on the pull cord to make pump cycle. Do this approximately 10 times to fill the intake line.
9. Reinstall spark plug and start engine. Run for 3-5 minutes before changing cold start valve to the CLOSED (handle horizontal) position.



Power Pak (continued)

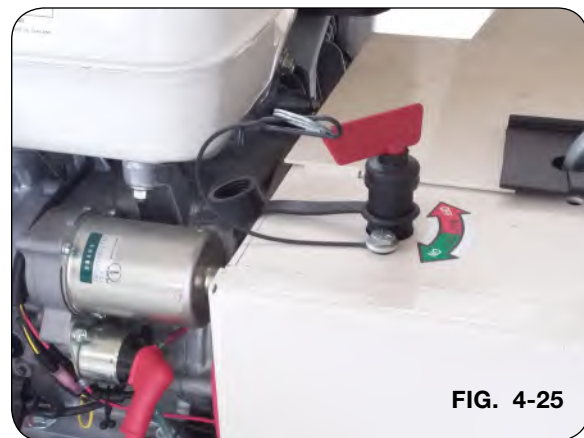
Also to maintain POWER PAK, inspect the battery. Remove battery cover and inspect the battery itself, along with any components, wires and connections for any corrosion, wear or damage (FIG. 4-23). Replace as required.

Be sure battery strap is secure preventing battery from shifting inside compartment.



IMPORTANT

- When storing unit for extended periods of time be sure battery has a full charge and then turn the battery disconnect switch to the off position. (FIG. 4-25)
- The disconnect is to only be moved to the off position once the engine is shut off. If the switch is turned to the off position while the engine is running damage will occur to the engine charging system and other seed tender electrical components.



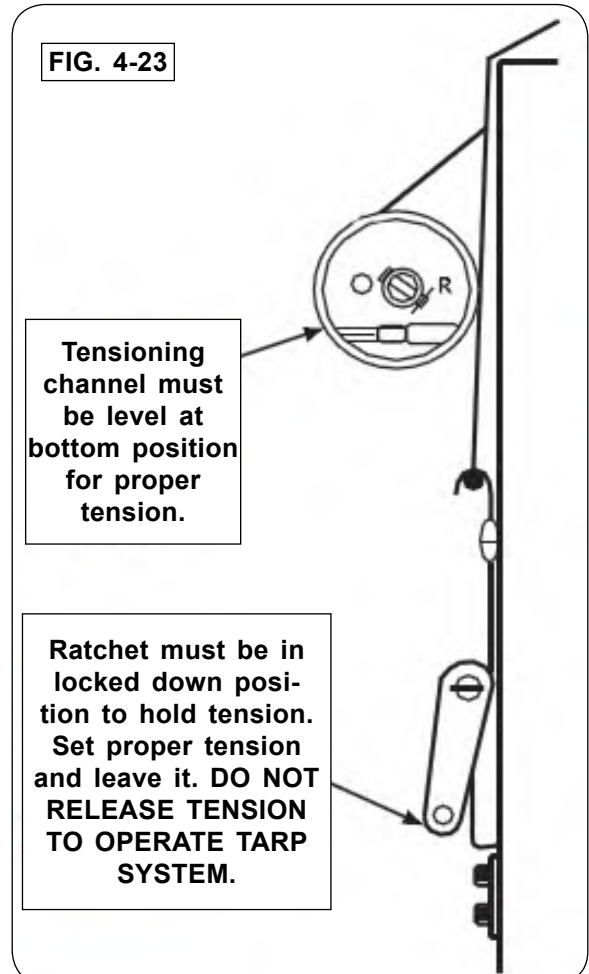
Battery Warranty

Interstate Battery:
www.interstatebatteries.com
800-CRANKIT

Determining Tarp Cable Tension

Maintaining correct tension on the tarp cables is important to ensure a weather-tight seal on the edges of the tarp.

1. Cable tension is easily determined by position of the tension channel on front and rear spools. As tension is applied with ratchet, the spool turns. Watch the tensioning channel on the side of the spool.
2. Tensioning channel must be level at the bottom position for proper tension. (FIG. 4-23)
3. Ratchet must be in locked down position to hold tension (FIG. 4-23 & FIG. 4-24). Set proper tension and leave it. **DO NOT RELEASE TENSION TO OPERATE TARP SYSTEM.**



Wheels and Tires

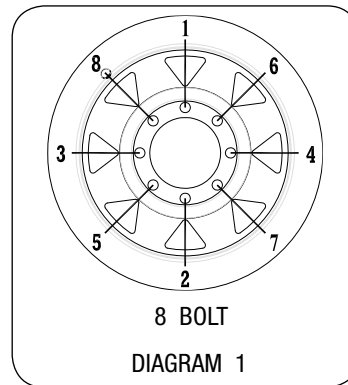
Wheel Nut Torque Requirements

CAUTION

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

Failure to check torque before first load may damage wheel nut/bolt seats. Once seats are damaged, it will become impossible to keep nuts/bolts tight. Tighten nuts/bolts to applicable torque value shown in table. 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
5/8-18 (UNF)	165 ft.-lbs.



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 tires are inspected after the Seed Runner tender is loaded. Start with minimum pressure indicated. The tire should stand up with no side-wall buckling or distress as tire rolls. Record the pressure needed to support the full load and maintain this pressure to achieve proper tire life. Do not exceed maximum recommended tire pressure.

TIRE SIZE	PSI
235/75R17.5	130
285/70R19.5	130

(All tire pressures in psi)

Wheels and Tires (continued)

Tire Warranty

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

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

Continental/Mitas www.mitas-tires.com
Phone 704-542-3422

BKT Tires Phone: 888-660-0662
330-836-1090

Complete Torque Chart - Capscrews - Grade 5

IMPORTANT

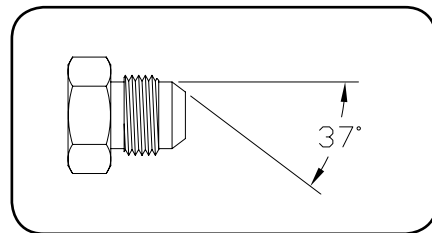
- Grade 5 capscrews can be identified by three radial dashes on head.
- For wheel torque requirements, refer to Wheels and Tires.
- Tighten U-bolts to have the same number of threads exposed on each end.

SIZE	FOOT POUNDS	NEWTON METERS	SIZE	FOOT POUNDS	NEWTON METERS
1/4-20	8-10	11-13	3/4-10	200-220	270-300
1/4-28	9-11	12-15	3/4-16	210-230	285-310
5/16-18	15-17	20-23	7/8-9	330-350	425-475
5/16-24	17-19	23-26	7/8-14	360-380	460-515
3/8-16	25-28	34-38	1-8	500-525	675-710
3/8-24	28-31	38-42	1-14	540-560	730-760
7/16-14	40-45	54-61	1 1/8-7	600-635	815-860
7/16-20	45-50	61-68	1 1/8-12	665-700	920-950
1/2-13	62-68	84-92	1 1/4-7	850-895	1150-1215
1/2-20	68-75	92-102	1 1/4-12	940-990	1275-1340
9/16-12	90-98	22-133	1 3/8-6	1125-1175	1525-1590
9/16-18	100-110	134-148	1 3/8-12	1280-1335	1735-1810
5/8-11	120-135	162-183	1 1/2-6	1500-1560	2035-2115
5/8-18	124-137	168-186	1 1/2-12	1685-1755	2285-2380

Hydraulic Fittings - Torque and Installation

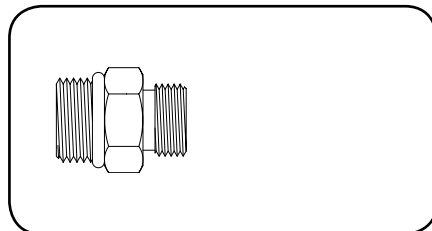
SAE FLARE CONNECTION (J. I. C.)

1. Tighten nut with finger until it bottoms the seat.
2. Using a wrench, rotate nut to tighten. Turn nut 1/3 turn to apply proper torque.



SAE STRAIGHT THREAD O-RING SEAL

1. Insure jam nut and washer are backed up to the back side of smooth portion of elbow adapter.
2. Lubricate o-ring -- VERY IMPORTANT!
3. Thread into port until washer bottoms onto spot face.
4. Position elbows by backing up adapter.
5. Tighten jam nut.



Storage

Your Seed 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 box, conveyor, and hopper. Remove all seed, and pressure wash to remove road dirt, seed treatment, etc.

Prepare engine on hydraulic power unit for storage. Refer to engine operator's manual for details.

Inspect hydraulic oil level in reservoir. Level should be 1 to 1 1/2" from the top of the sight gauge. Add appropriate hydraulic oil as needed. Most farm tractor type hydraulic oils are acceptable. DO NOT use Automatic Transmission Fluid! DO NOT mix different oils when topping off the tank.

Check bolts for tightness. Inspect for damaged or worn parts. Check valves, motor, hoses, and fittings for leaks. Check hoses for wear. Replace or repair items as needed.

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

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

Replace all worn, torn or faded decals and reflectors.

It is recommended to check the conveyor belt tension after storage, before belt operation. Damage to the belt can occur.

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/Torque

Pump does not deliver sufficient pressure or volume

Check output and delivery, change if necessary

Conveyor jammed

Shut-off and lock-out power, open clean-out door and remove excess material (make sure spout is clear)

Oil level too low

Fill to proper level

Belt is slipping on the upper pulley

Check belt tension and adjust accordingly

Belt speed not adequate

Check the speed control valve

Belt tension

Refer to "Conveyor Belt Tension", page 4-5

Conveyor Runs Too Slow

Engine running too slow

Increase engine speed. Check the speed control valve.

Pump not producing minimum required flow and pressure

Check pump fluid capacity and correct

Pump is worn

Repair or replace pump

Internal leak in controls or motor

Replace seals; repair or replace valves or motor

Improper hydraulic oil viscosity

If conveyor starts slowly and speed increases after oil heats up, oil is too heavy weight. If conveyor slows down after oil heats up, oil is too light weight

Belt is slipping on the upper pulley

Check belt tension and adjust accordingly

Belt tension

Refer to "Conveyor Belt Tension", page 4-5

Troubleshooting (continued)

PROBABLE CAUSE	CORRECTION
Oil Heats Excessively	
Oil viscosity incorrect	Drain and refill with proper weight oil
Dirty oil	Drain, flush, and refill with a clean oil and filter
Oil level too low	Fill to proper level
Oil slipping through worn pump	Repair or replace pump
Restricted line or piping	Reroute lines to eliminate restrictions
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
Pivoting Arm Will Not Raise or Lower	
Engine running too slow	Increase engine speed
Check valve in lift cylinder is plugged	Remove the check valve and clean
Conveyor Will Not Pivot	
Pivot lock in place	Unlatch conveyor or check pivot lock operating mechanism.
Dirt or debris on pivot track	Clean dirt from track
Bearing worn out	Replace bearing
Power Pak	
Pump Squeals: A. Oil level too low in reservoir B. Oil is cold C. Intake strainer is plugged D. Return-line filter is plugged E. Hoses are kinked or leaking	A. Check sight gauge on reservoir B. Run engine at low idle until hydraulic fluid warms C. Drain reservoir and clean strainer D. Remove and replace filter E. Inspect, adjust or replace hose if necessary
Unit is lacking power: A. Oil level too low in reservoir B. Oil is cold C. Intake strainer is plugged D. Return-line filter is plugged E. Hoses are kinked or leaking F. Pressure relief valve is set too low or is plugged	A. Check sight gauge on reservoir B. Run engine at low idle until hydraulic fluid warms C. Drain reservoir and clean strainer D. Remove and replace filter E. Inspect, adjust or replace hoses if necessary F. Remove cover and adjust with "L" wrench or remove valve and inspect for contamination

Troubleshooting (continued)

Conveyor Raise/Lower Cylinder Not Working Properly

WARNING

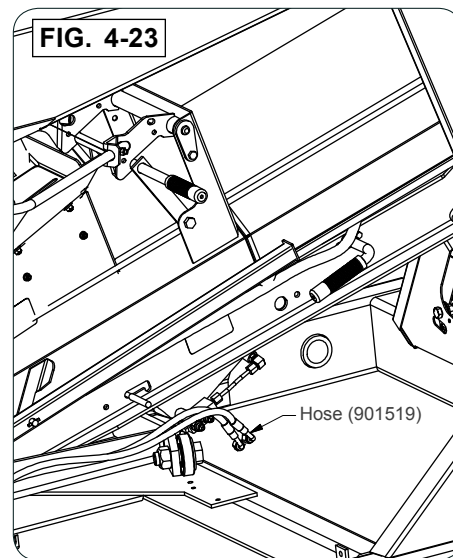
- RELIEVE HYDRAULIC SYSTEM OF ALL PRESSURE BEFORE ADJUSTING OR SERVICING. SEE “RELIEVING HYDRAULIC PRESSURE” IN THE MAINTENANCE SECTION OF THIS MANUAL.
- HYDRAULIC SYSTEM MUST BE PURGED OF AIR BEFORE OPERATING TO PREVENT SERIOUS INJURY OR DEATH.
- HIGH-PRESSURE FLUIDS CAN PENETRATE THE SKIN AND CAUSE SERIOUS INJURY OR DEATH. LEAKS OF HIGH-PRESSURE FLUIDS MAY NOT BE VISIBLE. USE CARDBOARD OR WOOD TO DETECT LEAKS IN THE HYDRAULIC SYSTEM. SEEK MEDICAL TREATMENT IMMEDIATELY IF INJURED BY HIGH-PRESSURE FLUIDS.
- 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.



The parts list would include:

99515 Ball Check Valve, 99516 Check Valve Seal Kit, 9003744 0.030 Orifice fitting (2) required, and 92295 Union Fitting.

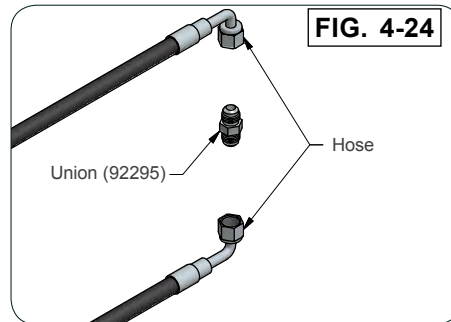
1. Park the unit on a firm, level surface. Block the tires on the unit to keep it from moving. Set the towing vehicles parking brake, shut off the engine and remove the ignition key.
2. If the conveyor is in the raised position, use an appropriate lifting device rated for at least 1,000 lbs. and support the conveyor. If the conveyor is in the transport position proceed as follows. Relieve pressure before disconnecting the hydraulic lines or servicing the hydraulic system. See the hydraulic power unit manual for the procedure to relieve pressure. Make sure that all the load is off the lift cylinder (902806) and that cylinder pin (82381) will freely rotate.



Troubleshooting (continued)

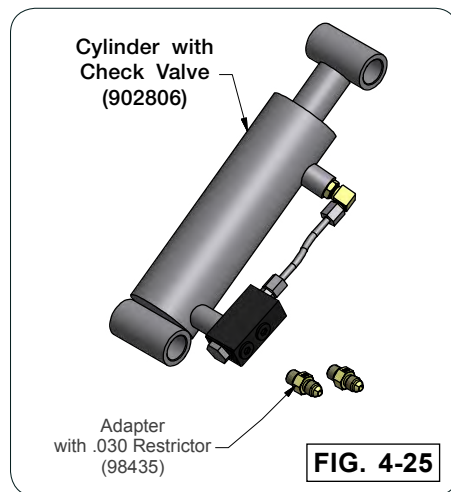
Conveyor Raise/Lower Cylinder Not Working Properly (continued)

3. Remove the two hoses (901519) from the cylinder (902806) and connect the two hoses (901519) together using union fitting (92295). Tighten the connections as directed by the “Hydraulic Fittings - Torque and Installation” in the MAINTENANCE section of the Seed Runner operator’s manual.

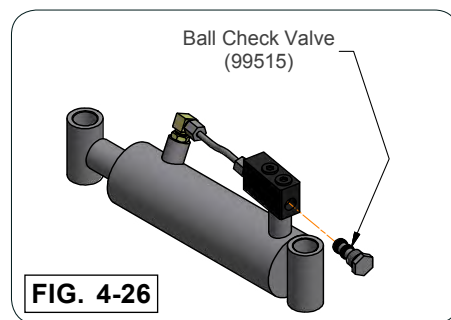


4. To flush the two hoses (901519), operate the Seed Runner for a minimum of ten minutes while actuating the control to raise and lower the conveyor. Make sure to actuate the control in both directions (raise and lower).

5. Once this is completed, shut the engine off. Remove the two adapter fittings 98435 from the lift cylinder (902806). Flush the fittings and make sure that there is nothing obstructing the 0.030” orifice in each fitting. If the fitting is obstructed, remove the obstruction or replace adapter fittings with restrictor (98435).



6. Slightly loosen the ball check valve (99515) and allow oil to drip from the cylinder. Once the oil stops dripping, remove the ball check valve and flush the ball check valve and housing. If the ball check valve does not move freely, replace ball check valve (99515). If the ball check valve moves freely replace the o-rings and teflon washer with the components included in seal kit (99516). Coat the o-rings and teflon washer with oil before reinstalling the valve onto the cylinder. Tighten securely.



7. Reinstall the orifice fittings (98435) . Tighten the connections as directed by the “Hydraulic Fittings - Torque and Installation” in the MAINTENANCE section of this operator’s manual.

8. Remove the union fitting (92295) from the two hoses (901519) and reinstall the hoses in their original location on the lift cylinder (902806).

9. If the conveyor is supported by a lifting device slowly lower it into the transport position and remove the lifting device.

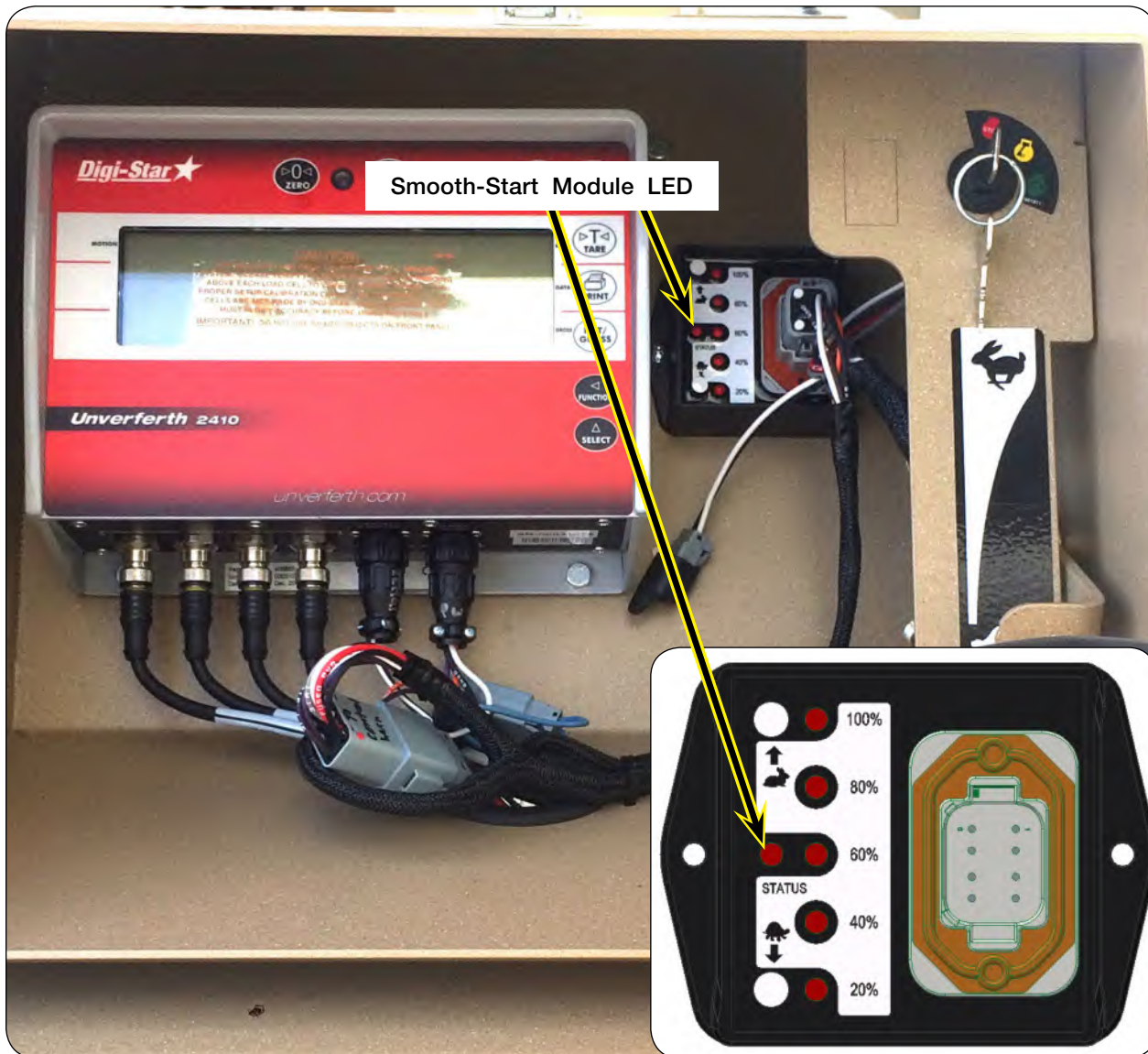
10. Verify the raise and lower function using the operator control.

Smooth-Start Module Troubleshooting

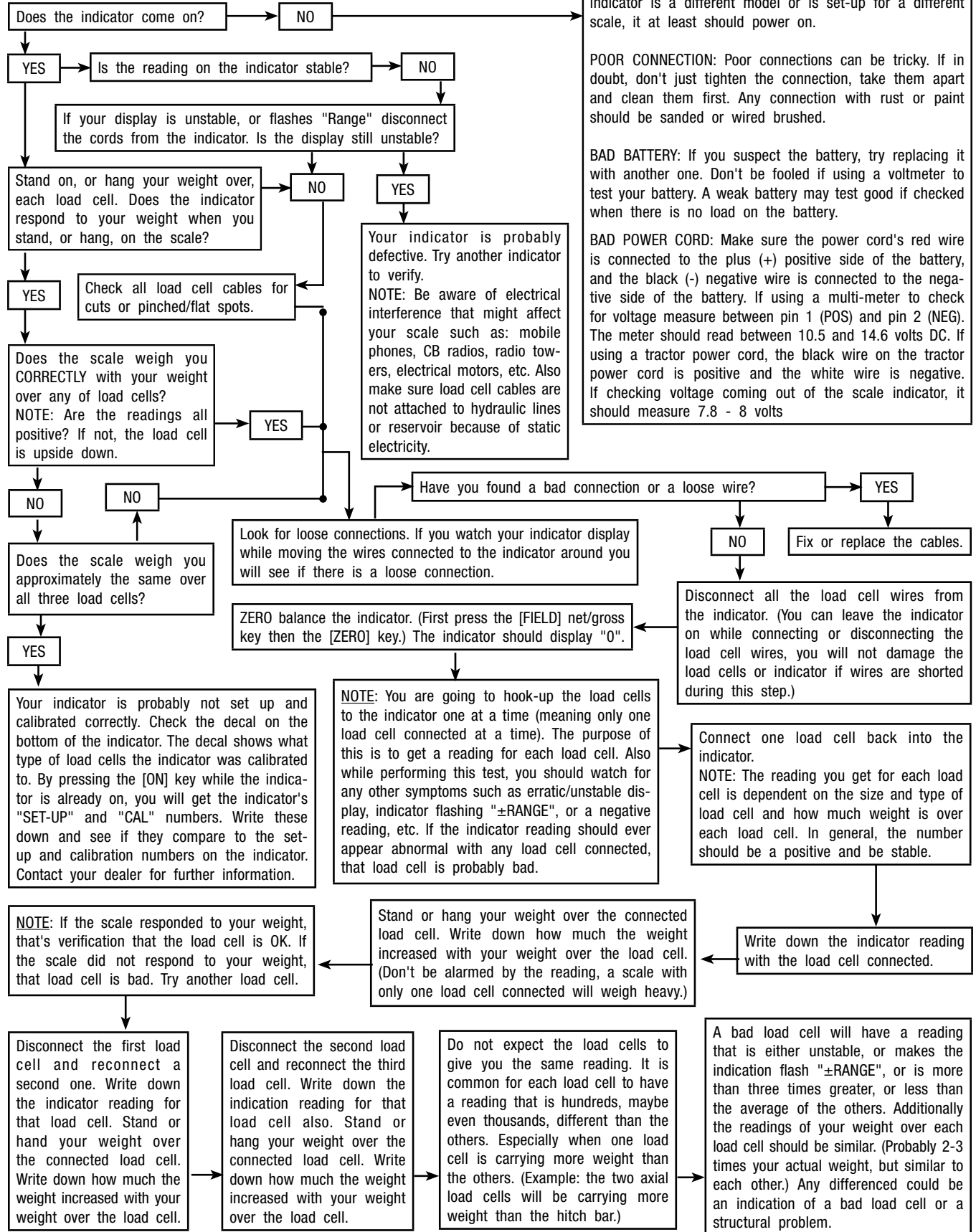
This module, located inside the common enclosure at the front of the machine, is used to gradually engage and increase conveyor belt speed reducing the wear on the conveyor components.

If the system is not operating properly, the LED can be used to determine what is occurring.

LED State / Blink Rate	System Status
Steady Off	The module is not powered or has failed.
Slow On/Off Flash (1 Hz)	The input signal is inactive and the output is off. (CONVEYOR OFF)
Steady On	The input signal is detected as active and the output is on. (CONVEYOR ON)
Rapid On/Off Flash (5 Hz)	The input signal is active and the output is active. The module is detecting an error condition with the output. Check the output wiring for open or short circuits.



Scale Troubleshooting



Scale “Short Form” Set Up & Calibration For UM2520 Indicator

IMPORTANT

- *This indicator was calibrated at the factory to weigh accurately with your system. Additional calibration is not necessary under NORMAL conditions.*

The Short Form Setup & Calibration procedure allows you to change the “SETUP” and “CAL” numbers of the indicator. You may want to perform this procedure if;

- 1) The indicator is being connected to different load cells.
or
- 2) You want to adjust the calibration to match another scale system.

PLEASE NOTE: Do not attempt to calibrate the scale if the indicator is not reading stable weights. The calibration procedure will not fix instability, inconsistencies, or flashing “RANGE” messages.

Before continuing, first write down the current “SETUP” and “CAL” numbers of your UM indicator. These numbers are displayed during the “Self Test”. To run the Self Test:

With the indicator already ON, press the [FIELD] key and then [ON/OFF] key to start the Self Test. Press the [ON/OFF] key to “pause” the Self Test while numbers are displayed. Press [ON/OFF] key again to resume.

Verify the SETUP & CAL numbers with the Example table below and record the numbers on your UM indicator.

Example Table:

ORIGINAL	SEED RUNNER
SETUP#	146040
CAL#	32640

SETUP# _____ CAL# _____

Keep this information for future reference. See next page for more SETUP#’s & CAL#’s.

1. Adjust UM Indicator to Match Another Scale:

Sometimes two different scales are used to weigh the same load. When this is done, the weight measured by each scale may not be the same. This can be caused by one or both of the two scales being slightly out of calibration. This indicator has the ability to match any other scale, even if that scale is uncalibrated.

To match your UM scale (Scale A) to another scale (Scale B) you must determine the Calibration Multiplier. To do this, place a load on Scale A (feed wagon, etc...) and write down the weight displayed. Repeat several times to determine the average weight. Next, place the same load on Scale B and again write down the weight displayed. Again, repeat several times to determine the average weight. Then, use this formula to determine the Calibration Multiplier for the UM’s “CAL” number:

It is important to use an average of several weights before calibrating the scale.

**Scale “Short Form” Set Up & Calibration
For UM2520 Indicator (continued)**

Scale Matching Example:
Original

SETUP# 127060
CAL# 24080

	1 Trail	2 Trail	3 Trail
Scale B	30,000	30,580	28,000
Scale A	29,440	29,800	27,500
Scale B ÷ A	1,020	1,026	1,018

$1.020 + 1.026 + 1.018 = 3.064$
 $3.064 \div 3 \text{ Trails} = 1.021 \text{ CAL Multiplier}$

Orig. UM CAL# X CAL Multiplier = NEW UM CAL#
 24080 X 1.021 = 24586

You should not modify your “SETUP” number. Only your “CAL” number.

Scale Matching Example:
Original

SETUP# _____
CAL# _____

	1 Trail	2 Trail	3 Trail
Scale B			
Scale A			
Scale B ÷ A			

(Trail 1) + (Trail 2) + (Trail 3) = “X”

“X” ÷ 3 Trails = _____ CAL Multiplier

Orig. UM CAL# X CAL Multiplier = NEW UM CAL#

_____ X _____ = _____

Follow the instructions “To change the Setup / Calibration Numbers” shown in the indicator operator’s manual.

Auto Conveyor Shut-off Troubleshooting

1. Check system voltage:
 - With the engine running the voltage at the battery should be 14.5 Volts.
2. Scale will not turn on:
 - Check fuse located on the control harness, if bad replace with 15 amp fuse.
 - Check polarity of connection; with the Seed Runner® key [ON], and using a voltmeter check between terminals one and two of the scale connector. This should be +12 volts. If the reading is -12 volts the power wire polarity must be reversed. Both the scale and the smooth-start module are polarity protected and will not turn on if the polarity is incorrect.

Tank Lights and Magnetic Reed Switch

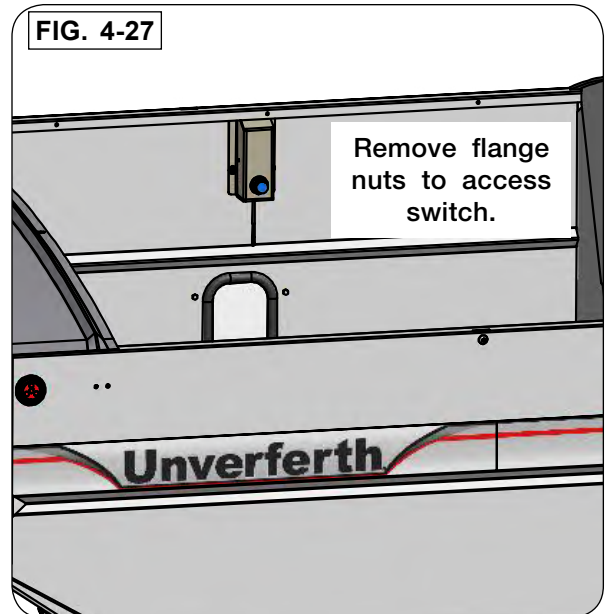
The indicator lights located on the side of the tank are controlled by a magnetic reed switch inside the tank to detect the grain. If grain is covering the switch, the light should be on. If no grain is in contact with the switch, the light should be off. If a light stays on continuously or does not come on when grain comes in contact with the switch, check all wiring connections between the sensor and the upper tank harness to ensure everything is connected properly.



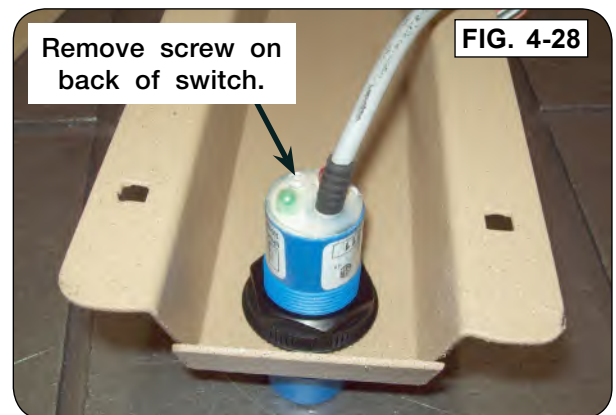
Adjusting Proximity Switch

The indicator lights located on the side of the tank are controlled by a proximity switch inside the tank to detect the grain. If grain is covering the switch, the light should be on. If no grain is in contact with the switch, the light should be off. If a light stays on continuously or does not come on when grain comes in contact with the switch, it may be due to the sensitivity adjustment on the proximity switch. This sensitivity can be adjusted as follows:

1. Remove the channel which houses the switch by removing the 1/4"-20UNC flange nuts holding it on.

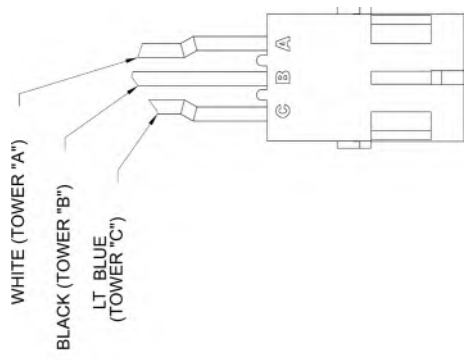
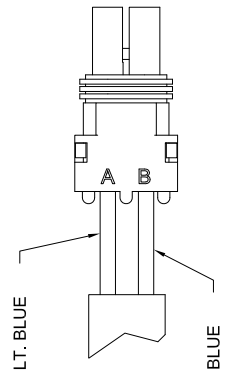
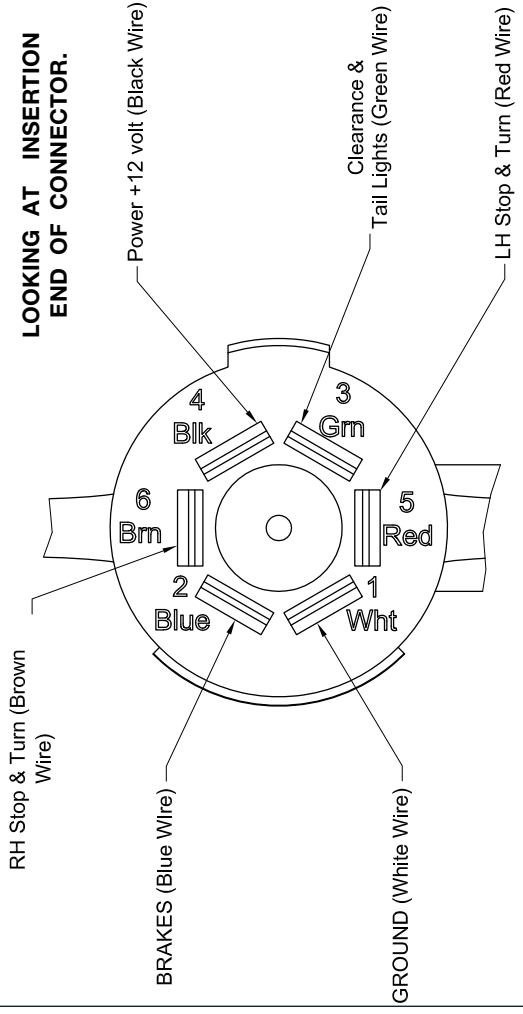
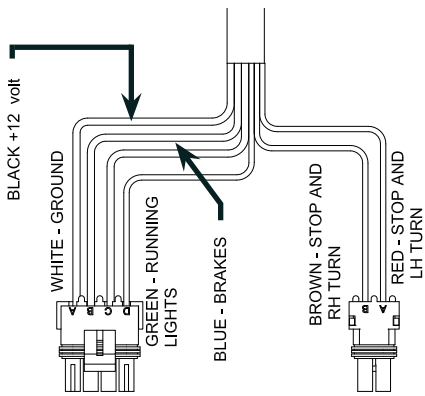
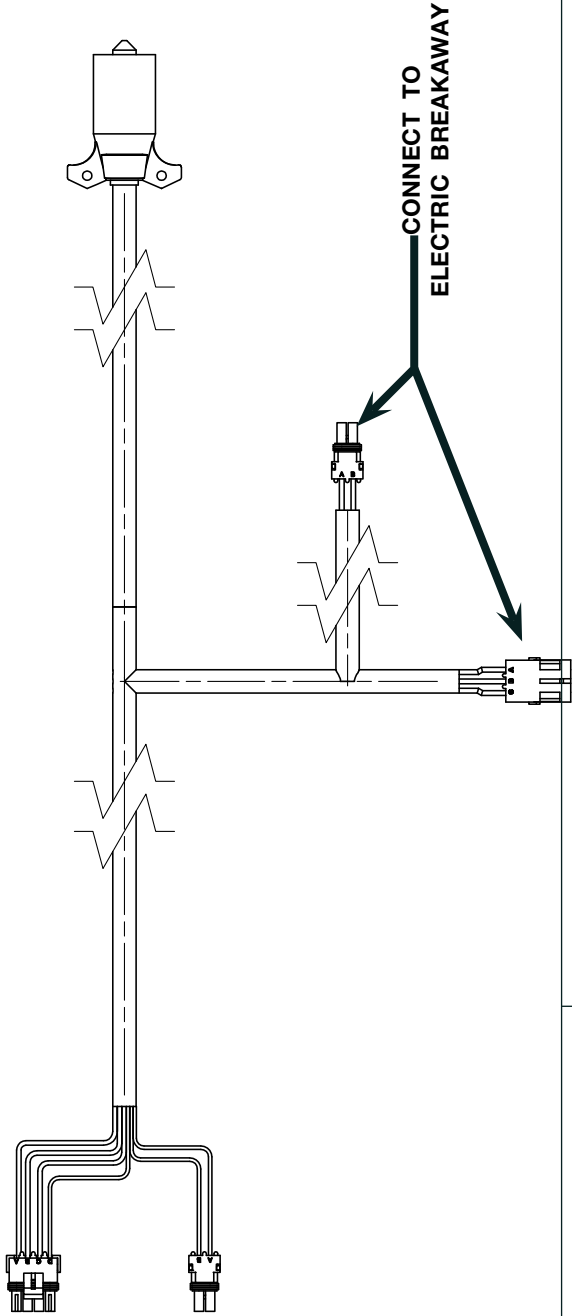


2. Remove the screw on the back of the switch to gain access to the adjustment screw.

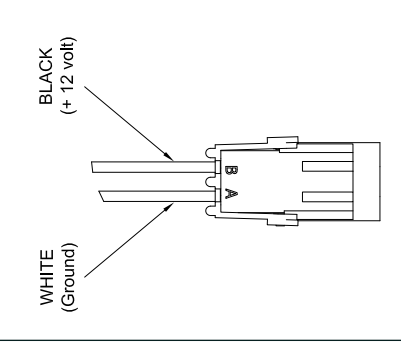
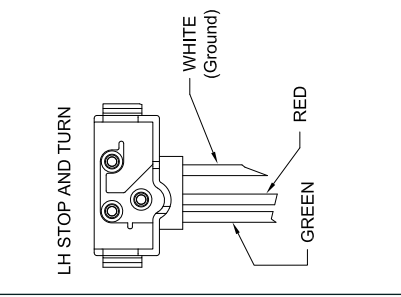
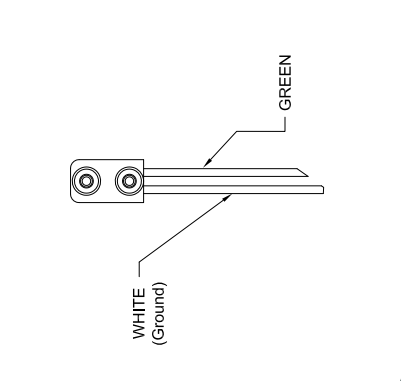
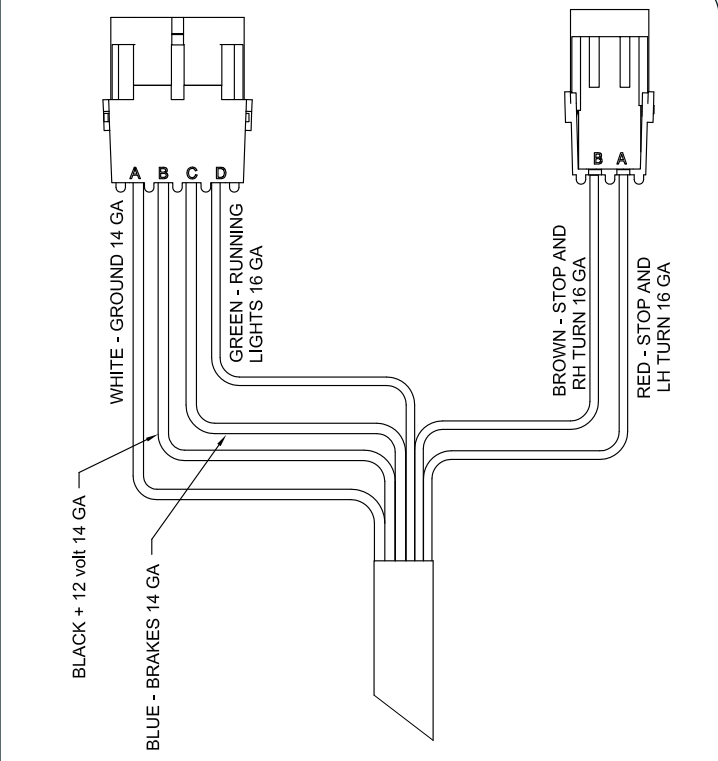
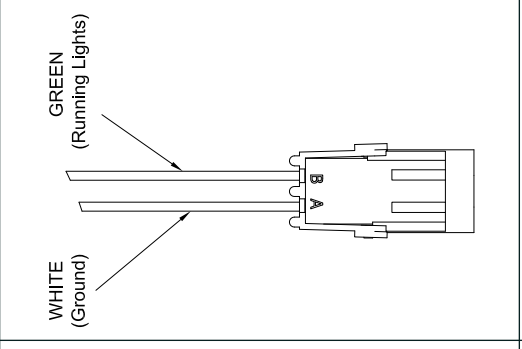
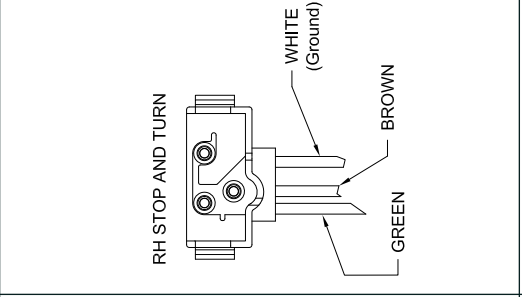
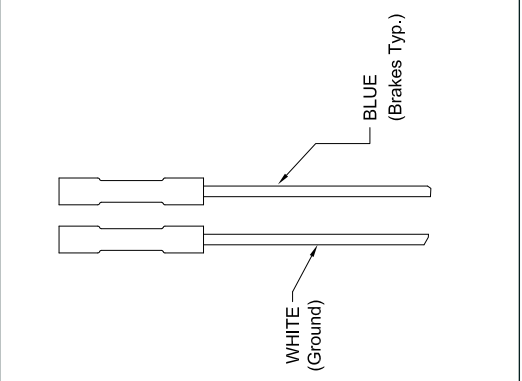
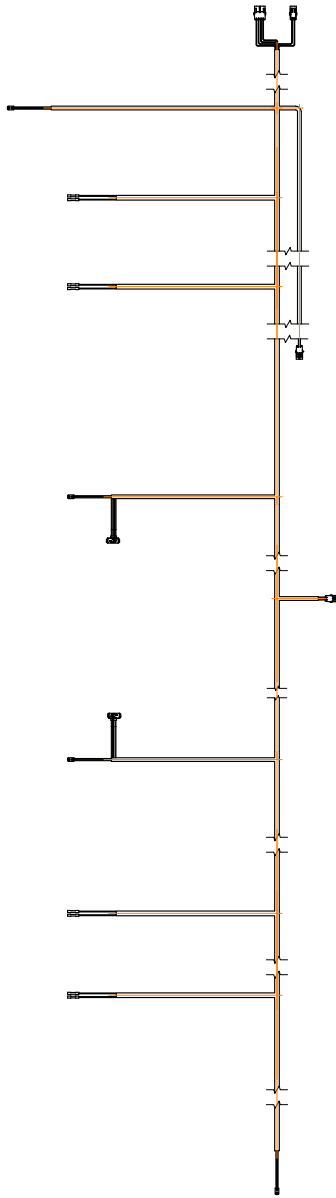


3. Once screw is removed, power up the indicator lights by turning the Seed Runner ignition switch to the "ON" position.
4. Use your hand to determine the sensitivity of the switch. The indicator lights on the side of the tank and on the back of the switch should come on when your hand comes within about 1/2" - 1" of the end of the switch. If lights are continuously on, decrease the sensitivity of the switch by turning the adjustment screw counterclockwise. If the lights do not come on, increase the sensitivity of the switch by turning the adjustment screw clockwise.
5. Once adjustment is set, reinstall the screw on the back of the switch.
6. Fasten channel back in place using 1/4" flange nuts which were previously removed.

Bumper Pull Hitch # 25045 or Gooseneck # 27829 Electrical Schematic

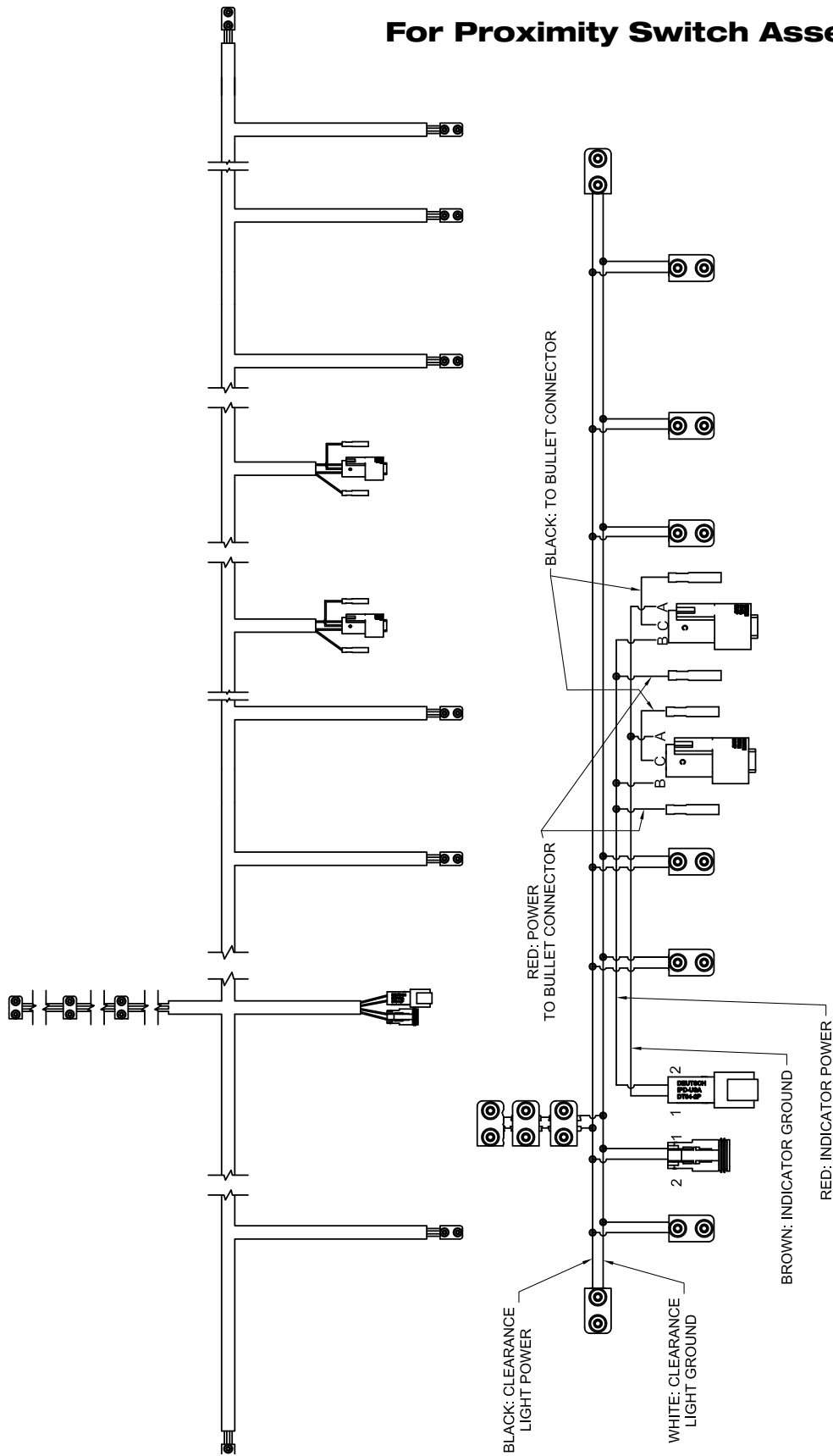


Undercarriage Lighting & Brake Electrical Schematic — #2005416



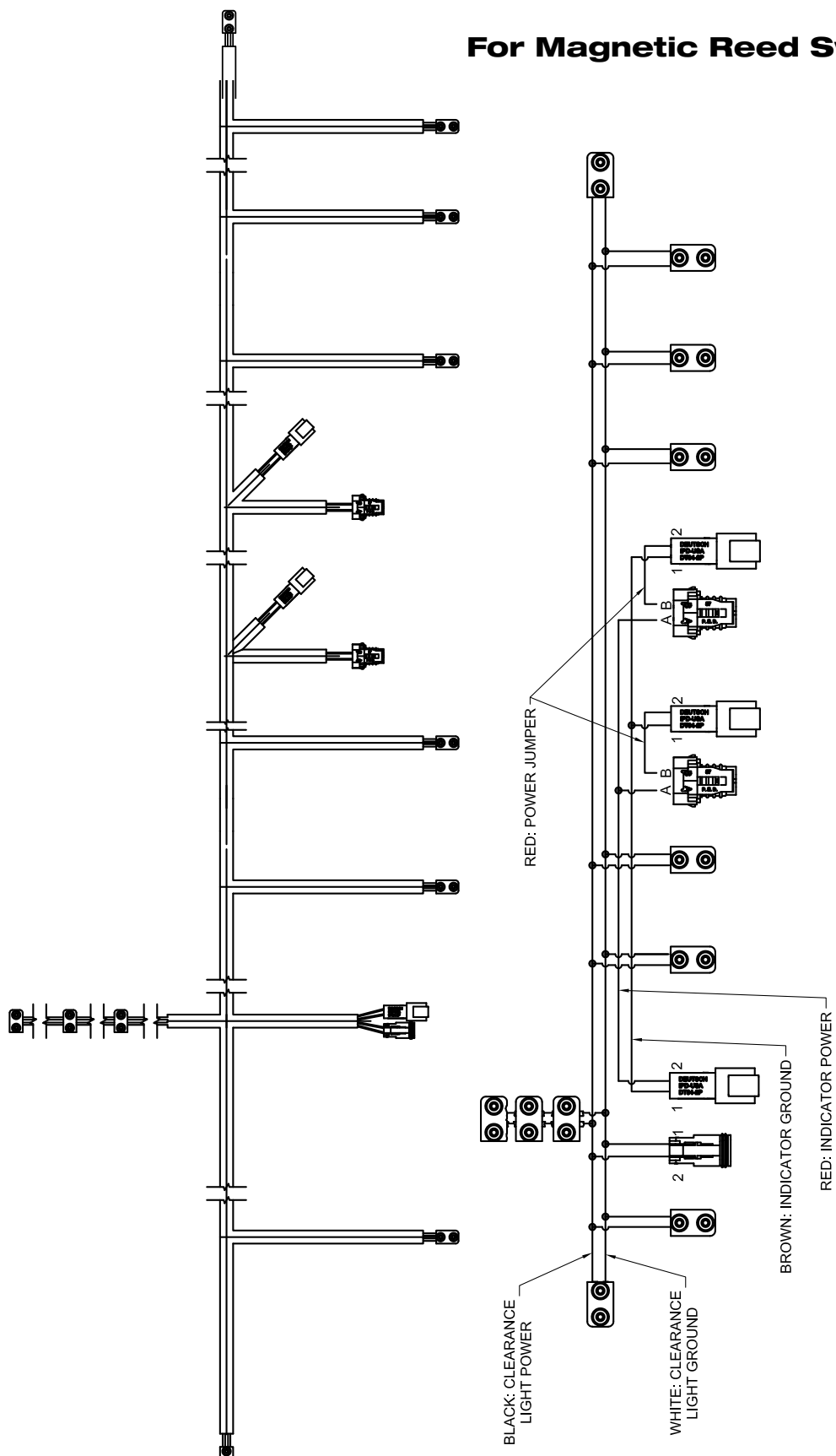
Seed Tank Lighting Electrical Schematic (Harness #2002091)

For Proximity Switch Assembly

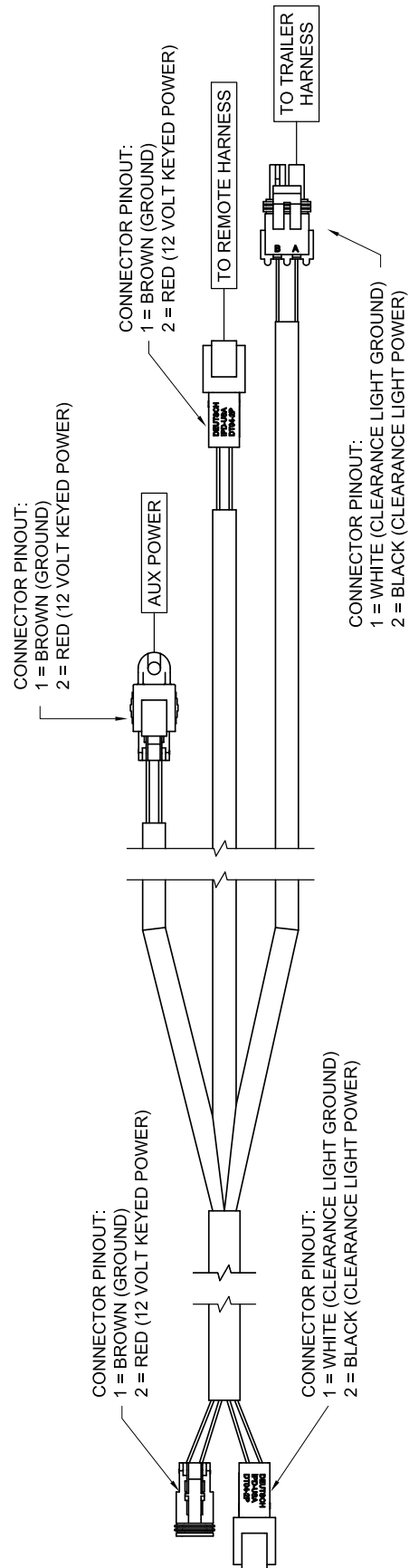


Seed Tank Lighting Electrical Schematic (Harness #2007536)

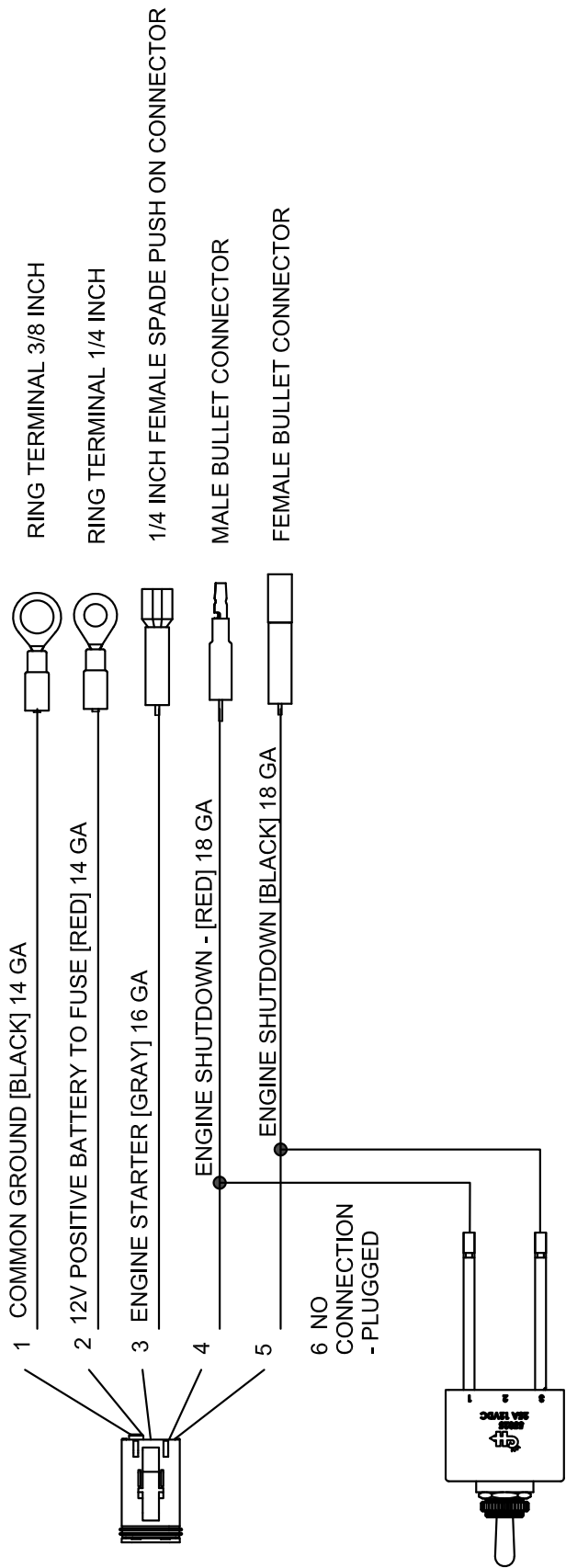
For Magnetic Reed Switch



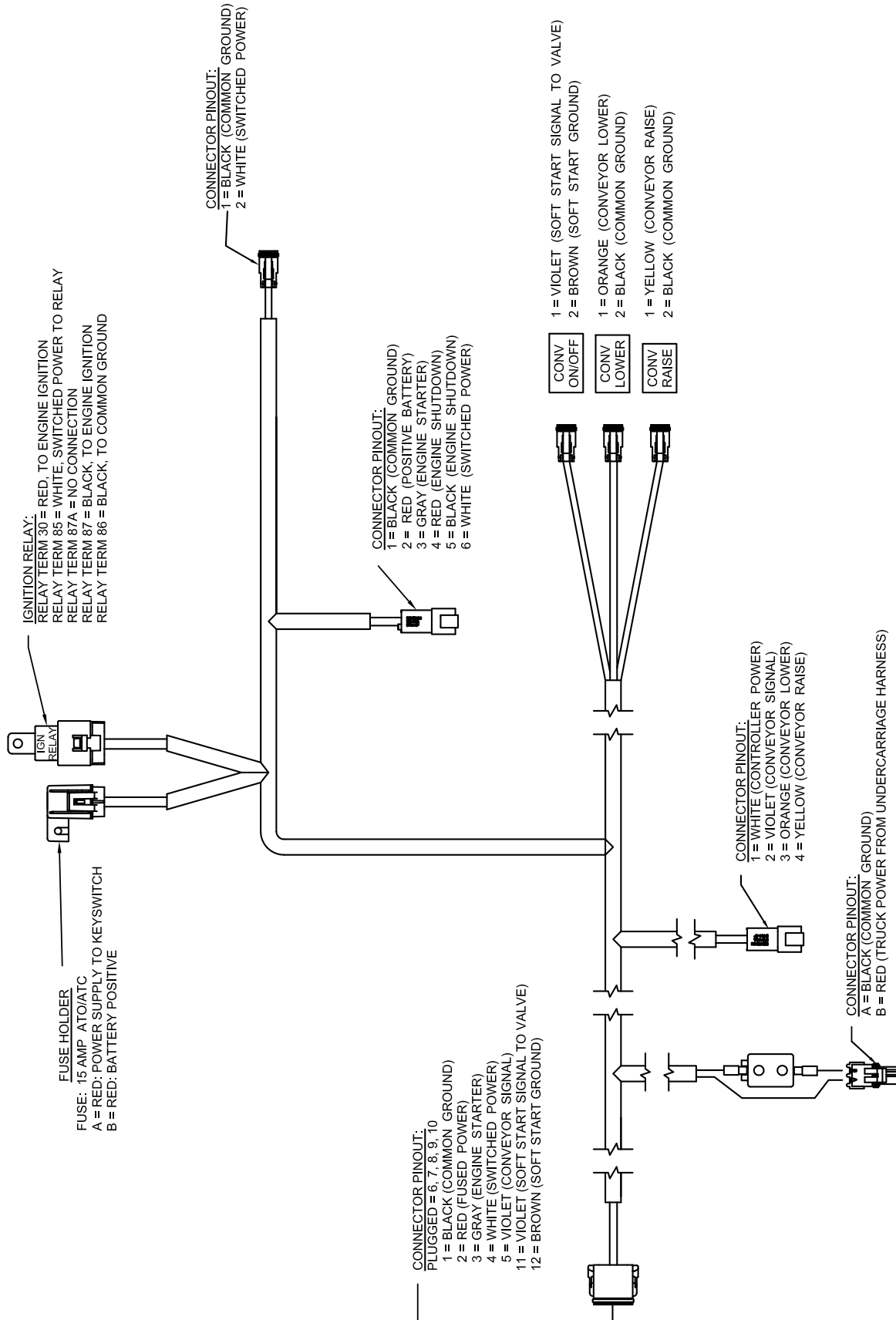
Rear Standard Wire Harness Electrical Schematic (#2002090)



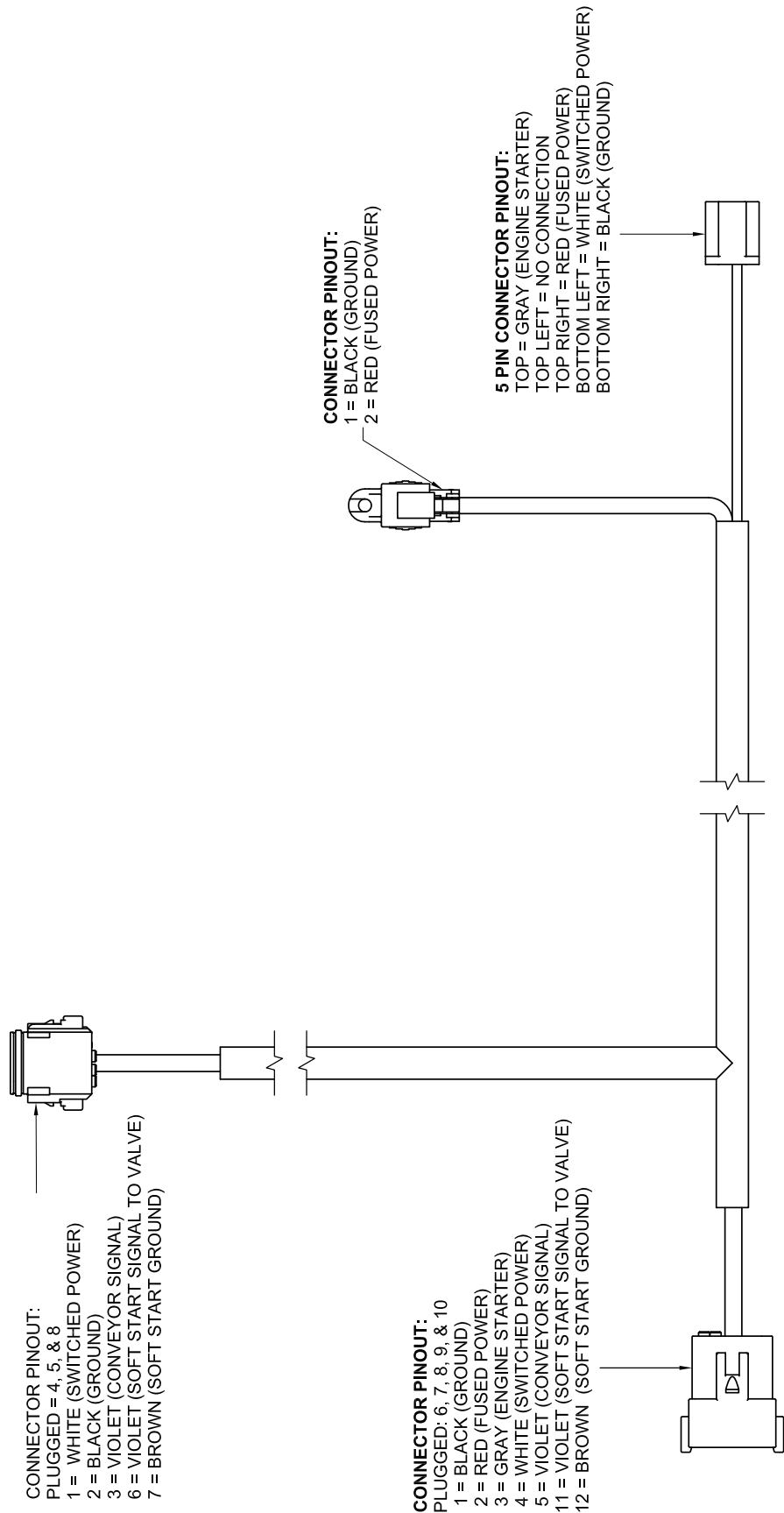
Engine Harness #2009998 Schematic



Standard Corded Control Harness Schematic (#2002519)

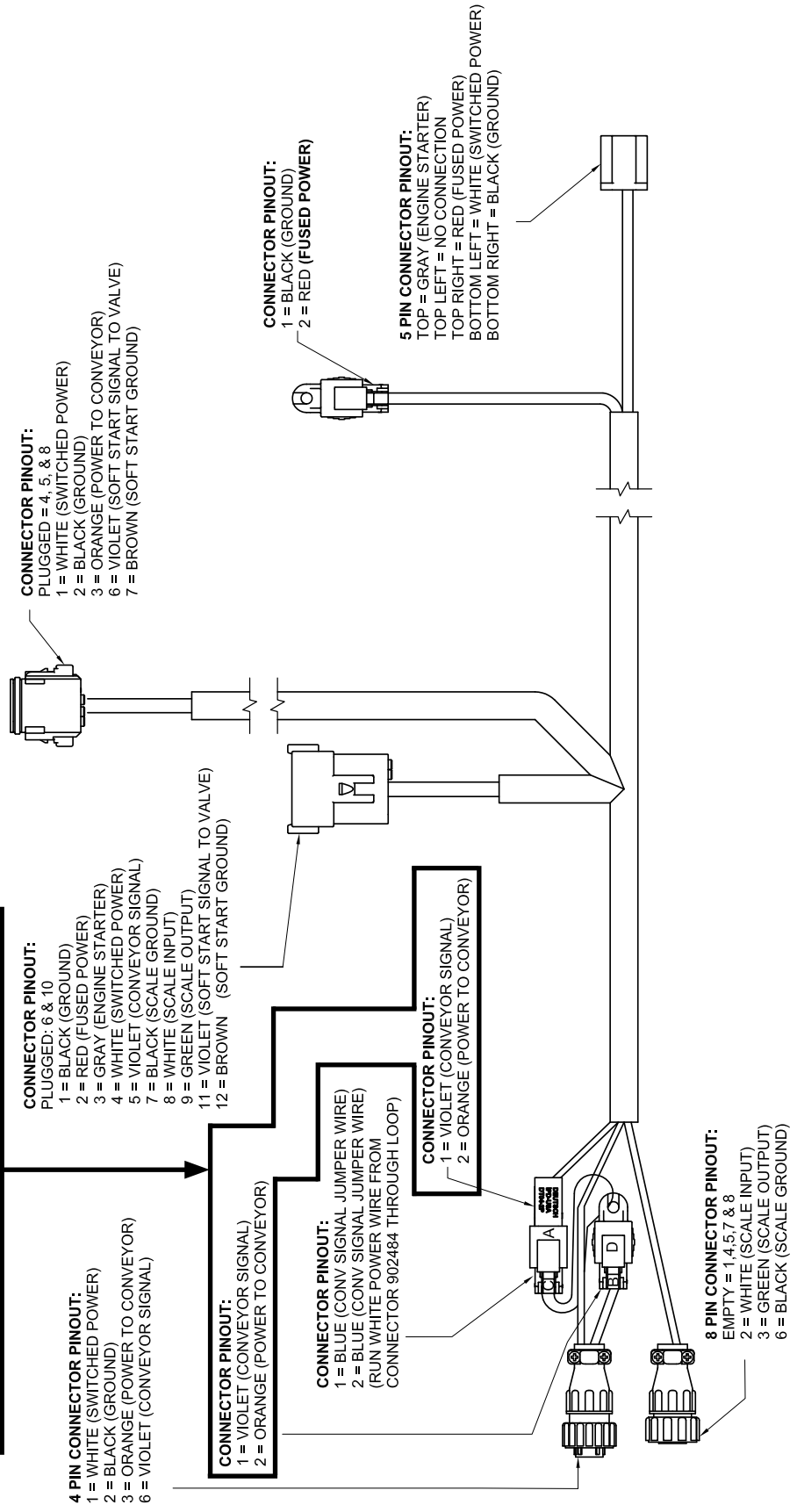


Non-Scale Electrical Schematic (Harness #2002130)

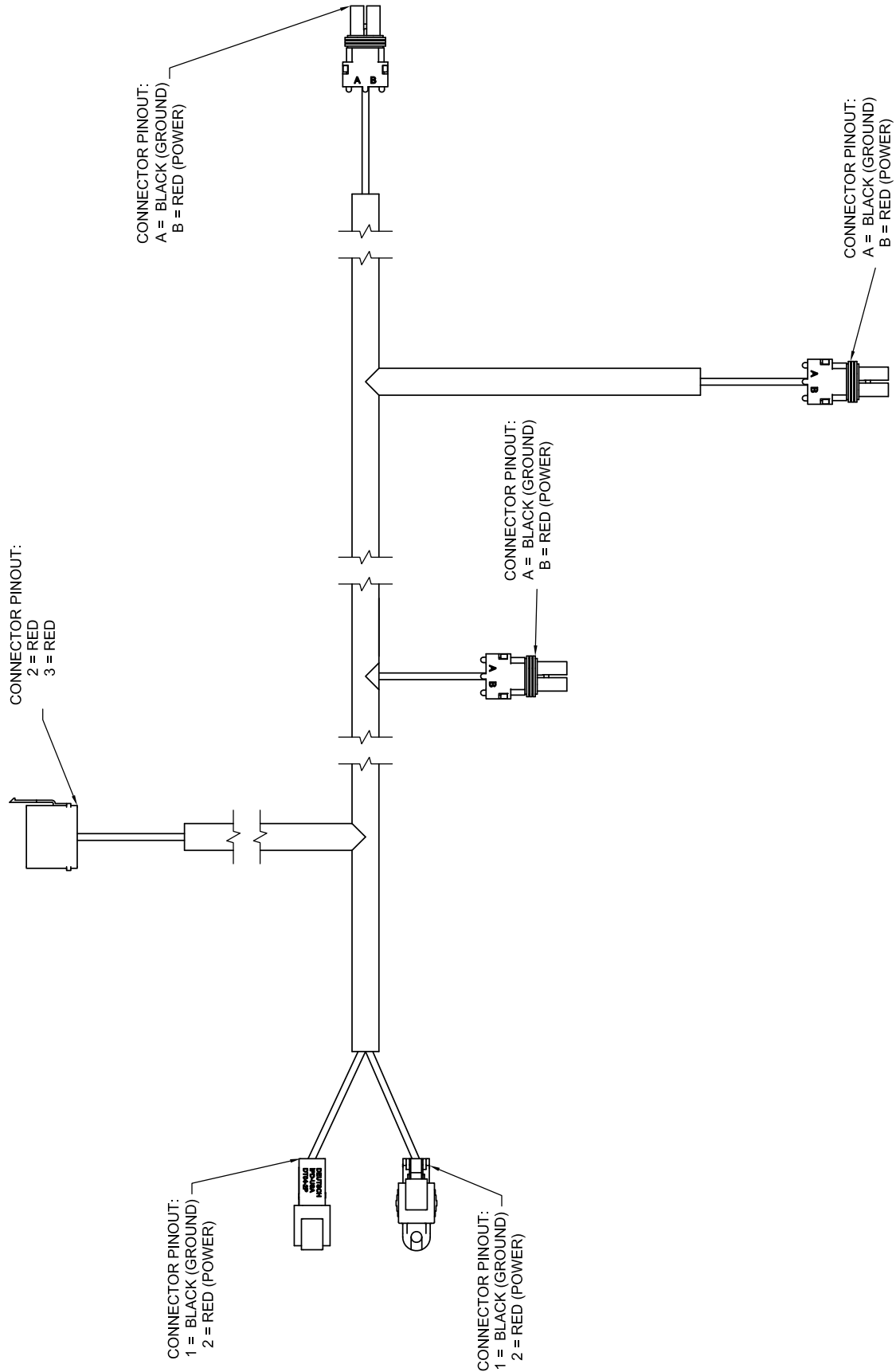


Scale Electrical Schematic (Harness #2002132) (Option)

When equipped with a 2520 scales, connectors circled should be connected together. Remaining connector should be covered using the attached cap.

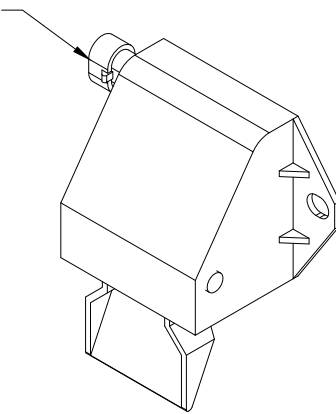


Work Light Harness #2002125 - Electrical Schematic (Optional)

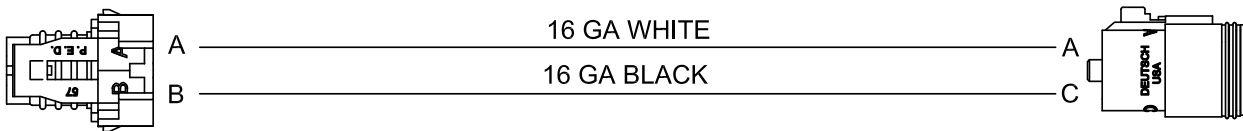


Magnetic Reed Switch #9501978 - Electrical Schematic

Metri-Pack 150 Series
2 Male Terminal
Connector



Sensor Adapter Harness #2006715 - Electrical Schematic



Override Box Options

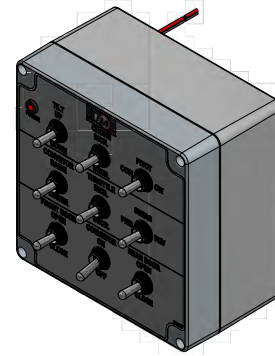
For units equipped with an Override Box, refer to remote override box instructions for installation and usage.



**Override Box
2 & 3 Function
(2009341)**



**Override Box
6 Function
(2009333)**

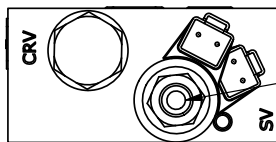


**Override Box
7 Function
(2010504)**

Stackable Valve Manual Override Operation & Wire Schematic

*Push the inner button down, and either push in or pull up on the outer collar to activate the function.

Hydraulic Jack Option



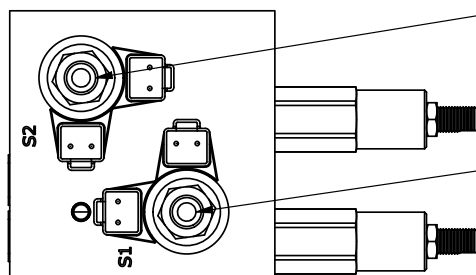
Pull Out/Push In to manually operate the jack.

ALL Functions



End Cover Body

3 Function



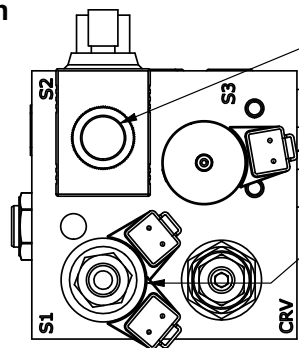
Front Door

- * Pull out to close door.
- GRAY Wire Labeled: Door Close - Top Solenoid
- * Push in to open door.
- BROWN Wire Labeled: Door Open - Bottom Solenoid

Rear Door

- * Pull out to close door.
- GREEN Wire Labeled: Door Close - Top Solenoid
- * Push in to open door.
- WHITE Wire Labeled: Door Open - Bottom Solenoid

7 Function



Conveyor Tilt-Up

- Push center button to tilt conveyor up.
- RED Wire Labeled: Tilt-Up - Square Solenoid

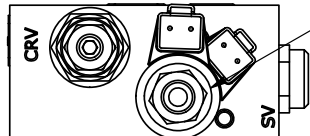
Conveyor Tilt-Down

- Pull up and turn either direction to tilt conveyor down.
- GREEN Wire Labeled: Tilt-Down - Round Solenoid

Conveyor Rotate

- * Pull out to pivot conveyor clockwise.
- ORANGE Wire Labeled: Pivot CW - Top Solenoid
- * Push in to pivot conveyor counter-clockwise.
- BLUE Wire Labeled: Pivot CCW - Bottom Solenoid

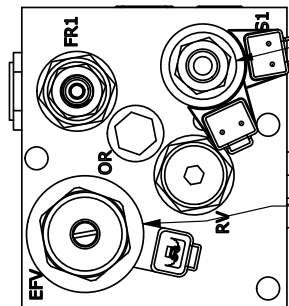
6 Function



Conveyor Swing

- * Pull out swing conveyor forward.
- RED Wire Labeled: Swing Forward - Top Solenoid
- * Push in to swing conveyor in reverse.
- BLUE Wire Labeled: Swing Reverse - Bottom Solenoid

2 Function



Conveyor Raise/Lower

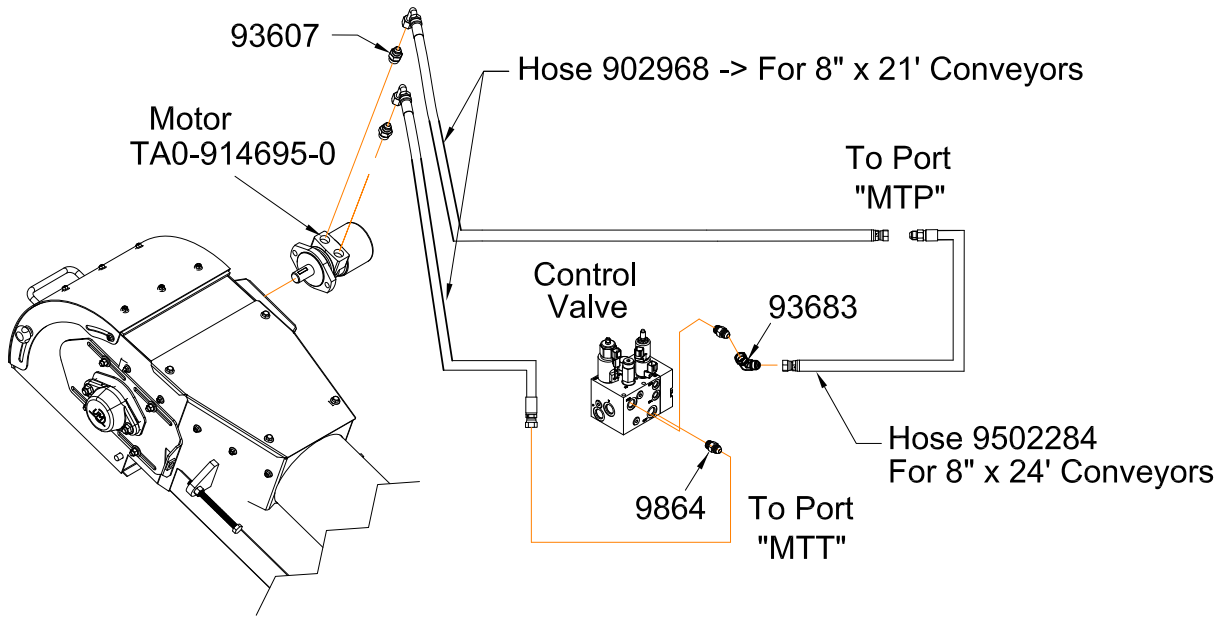
- * Pull out to lower conveyor.
- ORANGE Wire Labeled: Conveyor Lower - Top Solenoid
- * Push in to raise conveyor.
- YELLOW Wire Labeled: Conveyor Raise - Bottom Solenoid

Conveyor On/Off

- Screw In to override and operate the conveyor.
- PURPLE Wire Labeled: Conveyor On/Off

2003034 Rev. 6

Hydraulic Schematic For Conveyor



SECTION V

Parts

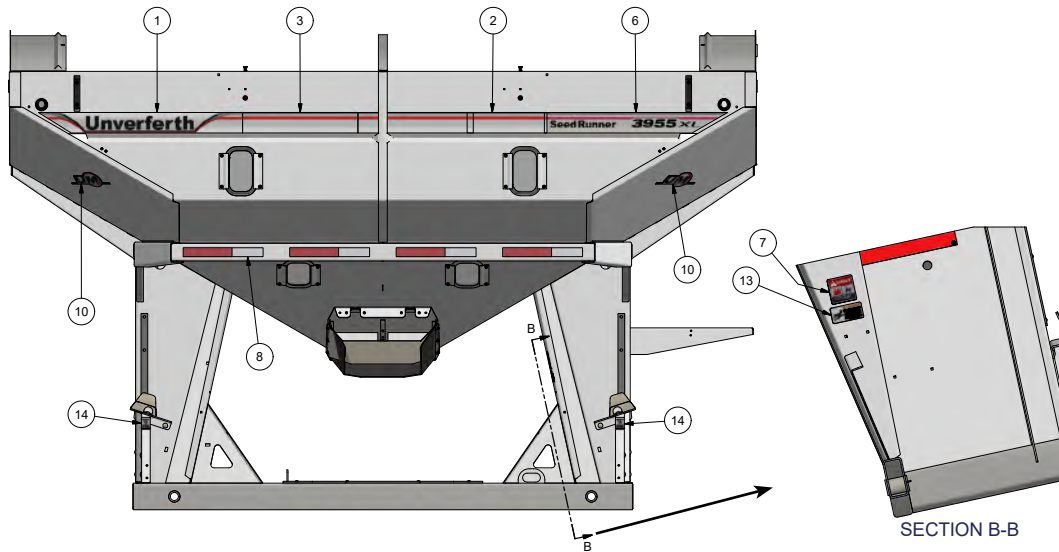
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Seed Runner 3955XL & 3955DXL — Parts

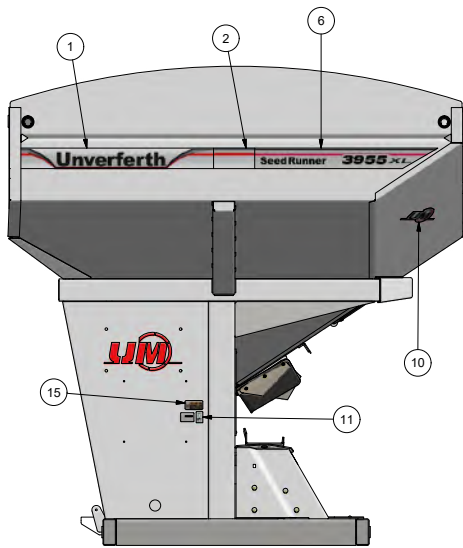
Box Decals

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

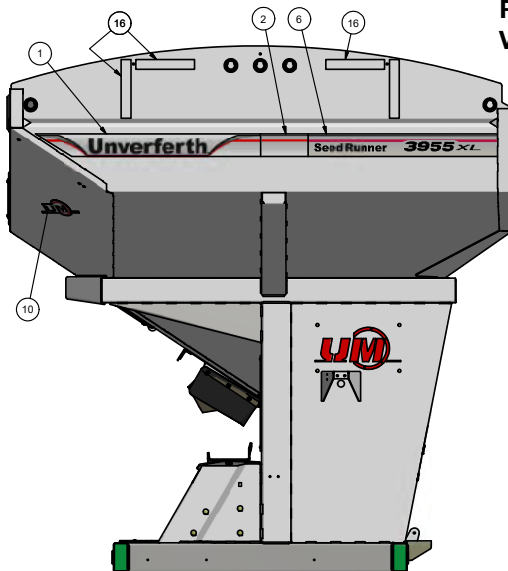
Hopper
Door
Side



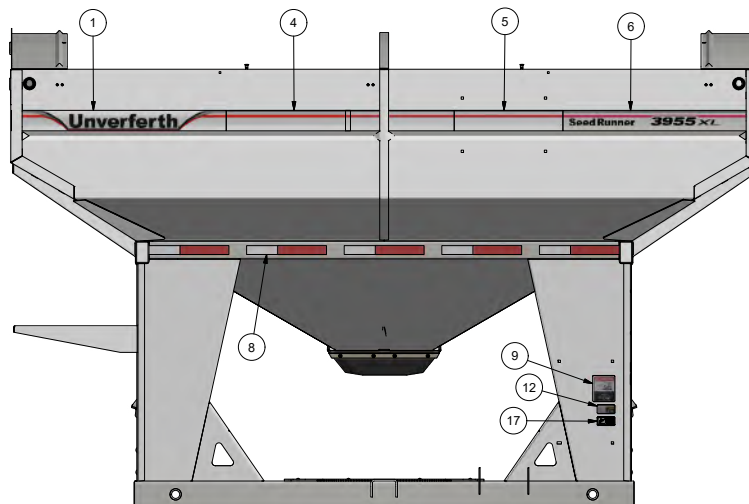
Front
View



Rear
View



Power Pak
Side



Seed Runner 3955XL & 3955DXL — Parts

Box Decals

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

ITEM	PART NO.	DESCRIPTION	QTY.	NOTES
1	901832	Decal, "Unverferth" (4.626 x 46)	4	
2	901834	Decal, Stripe (4.626 x 18)	3	
3	901854	Decal, Stripe (4.626 x 26)	2	
4	901855	Decal, Stripe (4.626 x 28)	2	
5	901989	Decal, Stripe (4.626 x 24 1/2)	1	
6	9501601	Decal, Seed Runner 3955XL	4	
	9502036	Decal, Seed Runner 3955DXL		
7	235161	Decal, "Danger" (Flammable)	1	
8	25003	Conspicuity Marking (11" Red/7" White)	9	
9	901580	Decal, "Danger" (Never Play in/on the Grain...)	1	
10	901607	Decal, UM Oval	2	
11	91605	Decal, FEMA	1	
12	98350	Decal, "Warning" (No Riders)	1	
13	95445	Decal, "Warning" (High-Pressure Leaks)	1	
14	97048	Decal, "Warning" (Pinch Point)	2	
15	97961	Decal, "Warning" (Read & Understand)	1	
16	902362	White Conspicuity Marking	4	
17	95008	Decal, "Caution" (Slipper Surface)	1	

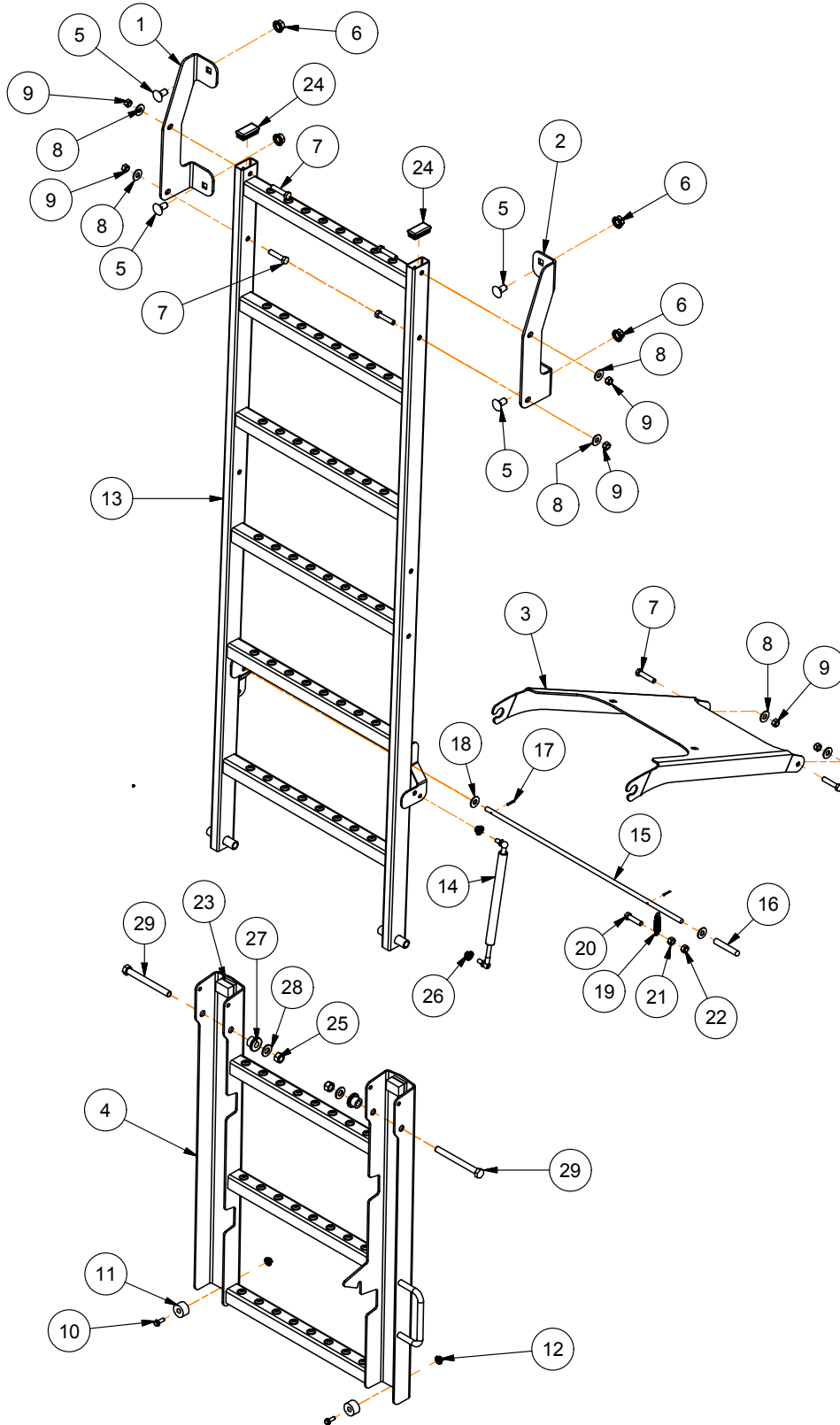
Touch-Up Paint

PAINT	PART NO.
Ivory White - Spray Paint (12oz)	901210
Tan Speckle Spray Kit - Tan Base Coat Spray Paint (12oz), Speckled Black Spray Paint (12oz) and instructions	2012695

Seed Runner 3955XL & 3955DXL — Parts

Ladder Components

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



Seed Runner 3955XL & 3955DXL — Parts

Ladder Components

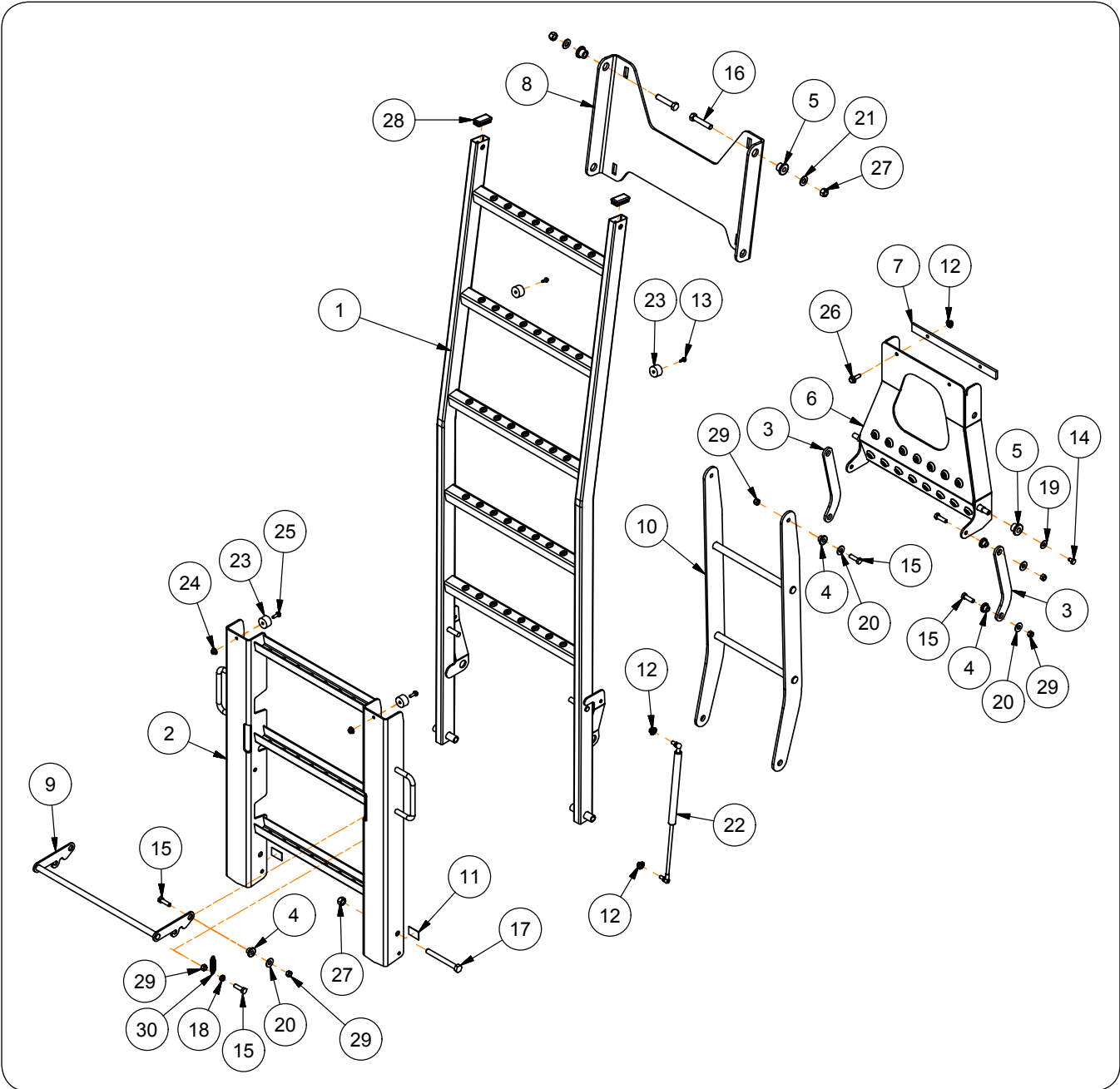
Please visit www.unverferth.com/parts/ for the most current parts listing.

ITEM	PART NO.	DESCRIPTION	QTY
1	2005570TS	Upper Ladder Mount Bracket =Tan Speckle=	1
2	2005571TS	Upper Ladder Mount Bracket =Tan Speckle=	1
3	2005576TS	Ladder Holder =Tan Speckle=	1
4	2005553TS	Ladder Extension Weldment =Tan Speckle=	1
5	9388-102	Carriage Bolt 1/2"-13UNC x 1"	4
6	91267	Flange Nut 1/2"-13UNC	4
7	9390-058	Capscrew 3/8"-16UNC x 1 3/4"	4
8	9405-076	Flat Washer 3/8" USS	6
9	9928	Locknut 3/8"-16UNC	6
10	97420	Flange Screw 1/4"-20UNC x 3/4"	2
11	9501194	Bumper	2
12	97189	Hex Nut/Large Flange 1/4"-20UNC	2
13	2005550TS	Upper Ladder Weldment =Tan Speckle=	1
14	9501085	Gas Spring	1
15	2005569	Pin	1
16	9003869	Hand Grip	1
17	9392-056	Roll Pin 1/8" Dia. x 3/4"	2
18	9405-076	Flat Washer 3/8" USS	1
19	99860	Spring	1
20	9390-057	Capscrew 3/8"-16UNC x 1 1/2"	1
21	9394-006	Hex Nut 3/8"-16UNC	1
22	9928	Locknut 3/8"-16UNC	1
23	2004072	Rubber Pad	2
24	98337	Plug	2
25	9800	Locknut 1/2"-13UNC	2
26	91257	Flange Nut 5/16"-18UNC	2
27	2003030	Nylon Bushing	2
28	9405-086	Flat Washer 1/2" SAE	2
29	9390-113	Capscrew 1/2"-13UNC x 5	2

Seed Runner 3955XL & 3955DXL — Parts

Deluxe Ladder Components (Option)

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



Seed Runner 3955XL & 3955DXL — Parts

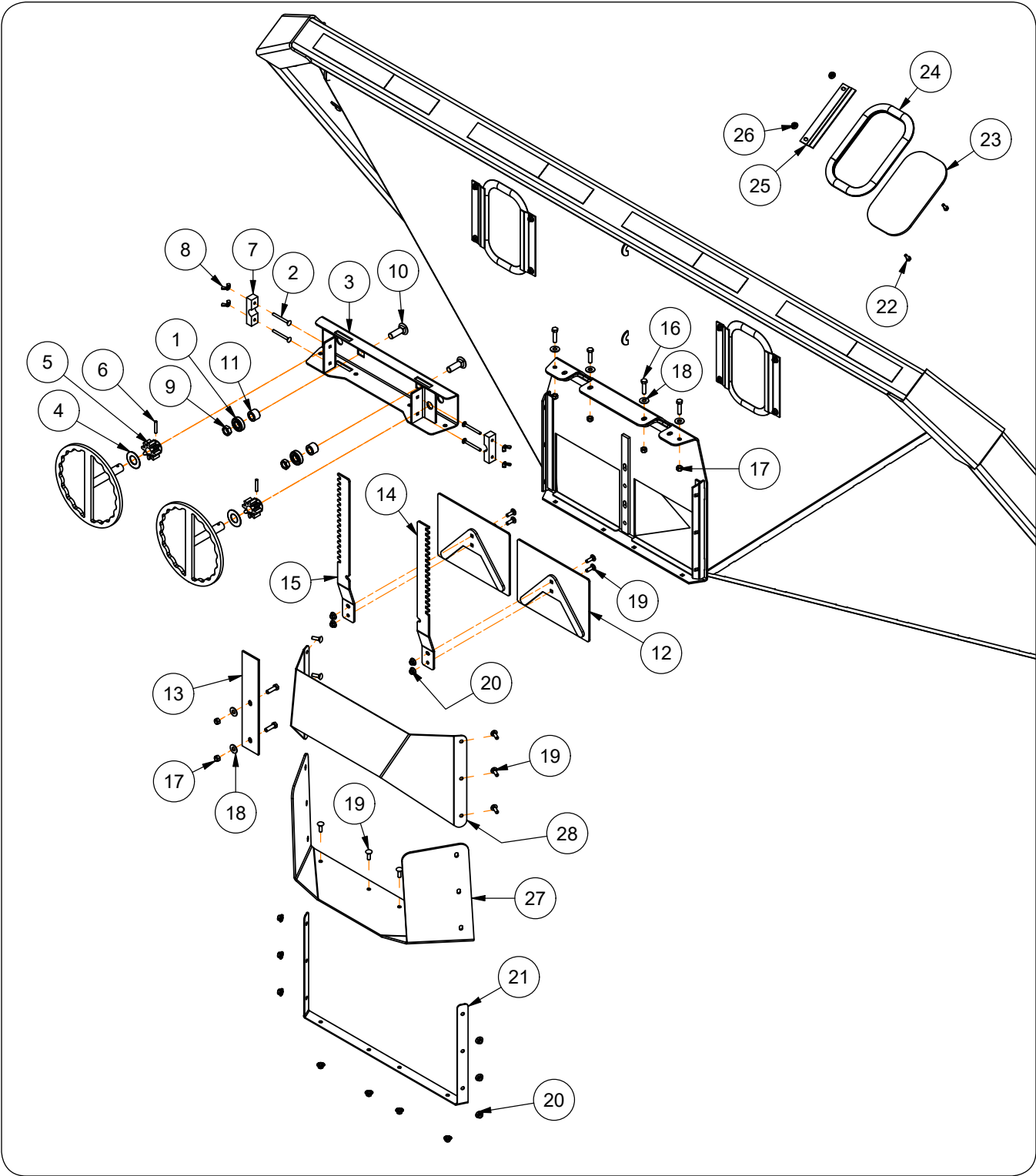
Deluxe Ladder Components (Option)

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

ITEM	PART NO.	DESCRIPTION	QTY
	2003626TS	Deluxe Ladder Assembly	-
1	2002892TS	Ladder Weldment	1
2	2002896TS	Ladder Extension Weldment	1
3	2002917TS	Link	2
4	2003029	Nylon Bushing	10
5	2003030	Nylon Bushing	4
6	2003065TS	Step Weldment	1
7	2003102	UHMW Strip	1
8	2003104TS	Ladder Bracket	1
9	2003232TS	Latch Weldment	1
10	2003278TS	Link Weldment	1
11	2004072	Rubber Pad 3/32 x 1 x 1 1/2	2
12	91257	Large Flange Hex Nut 5/16"-18UNC	6
13	93661	Self Drilling Screw #10-16 x 5/8	2
14	9390-026	Capscrew 5/16"-18UNC x 1/2	2
15	9390-056	Capscrew 3/8"-16UNC x 1 1/4	12
16	9390-105	Capscrew 1/2"-13UNC x 2 1/2	2
17	9390-112	Capscrew 1/2"-13UNC x 4 1/2	2
18	9395-006	Hex Jam Nut 3/8"-16UNC	2
19	9405-070	Flat Washer 5/16 USS	2
20	9405-076	Flat Washer 3/8" USS	10
21	9405-086	Flat Washer 1/2" SAE	2
22	9501085	Gas Spring	2
23	9501194	Bumper	4
24	97189	Large Flange Hex Nut 1/4"-20UNC	2
25	97420	Flange Screw Hex Head 1/4"-20UNC x 3/4	2
26	97604	Flange Screw 5/16"-18UNC x 1	2
27	9800	Locknut 1/2"-13UNC	4
28	98337	Plug	2
29	9928	Locknut 3/8"-16UNC	12
30	99860	Extension Spring	2

Door and Window Components

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



Seed Runner 3955XL & 3955DXL — Parts

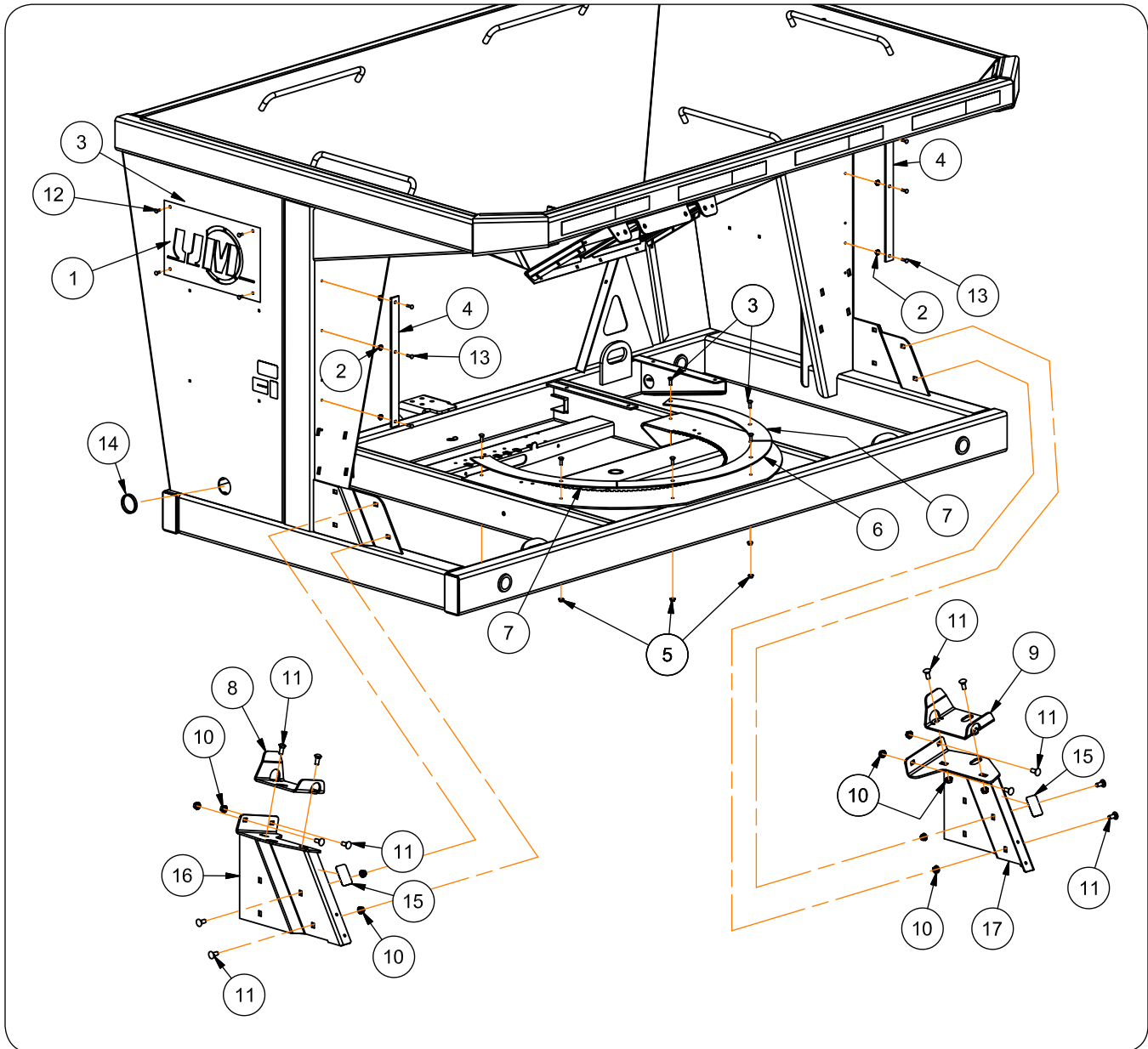
Door and Window Components

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

ITEM	PART NO.	DESCRIPTION	QTY	NOTES
1	95789	Bearing/Sealed 17mm Bore	2	
2	9388-009	Carriage Bolt 1/4"-20UNC x 2 1/2	4	Grade 5
3	2003164TS	Door Wheel Weldment	1	=Tan Speckle=
4	9072	Flat Washer	2	
5	22005B	Gear 8 Tooth	2	=Black=
6	91144-162	Spiral Pin 1/4" Dia. x 1 1/2	2	
7	901158	Brake Block 1 x 3 1/2	2	
8	901056	Wing Nut 1/4"-20UNC	4	
9	9395-014	Hex Jam Nut 5/8"-11UNC	2	Grade 5
10	9388-135	Carriage Bolt 5/8"-11UNC x 2	2	Grade 5
11	2001363	Bushing 1 1/8" Dia.	2	
12	2003170TS	Door Panel Weldment	2	=Tan Speckle=
13	2003158IV	Door Plate	1	=Ivory White=
14	2003172TS	Door Rack RH	1	=Tan Speckle=
15	2003171TS	Door Rack LH	1	=Tan Speckle=
16	9390-057	Capscrew 3/8"-16UNC x 1 1/2" G5	4	Grade 5
17	9928	Locknut 3/8"-16UNC	8	
18	9405-076	Flat Washer 3/8" USS	6	
19	9388-025	Carriage Bolt 5/16"-18UNC x 1	14	Grade 5
20	91257	Hex Nut/Large Flange 5/16"-18UNC	14	
21	2003160TS	Strap	1	=Tan Speckle=
22	9390-003	Capscrew 1/4"-20UNC x 3/4	16	Grade 5
23	102608	Window Glass (6 x 10)	4	
24	102693	Weatherstrip	4	
25	2002566B	Window Bracket/Retainer 8" Long	8	
26	97189	Large Flange Nut 1/4"-20UNC	16	
27	2004554	Rubber Chute	1	
28	2004777TS	Chute Deflector	1	=Tan Speckle=

Pivot Segments, Transport Brackets, and Accent Components

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



Seed Runner 3955XL & 3955DXL — Parts

Pivot Segments, Transport Brackets, and Accent Components

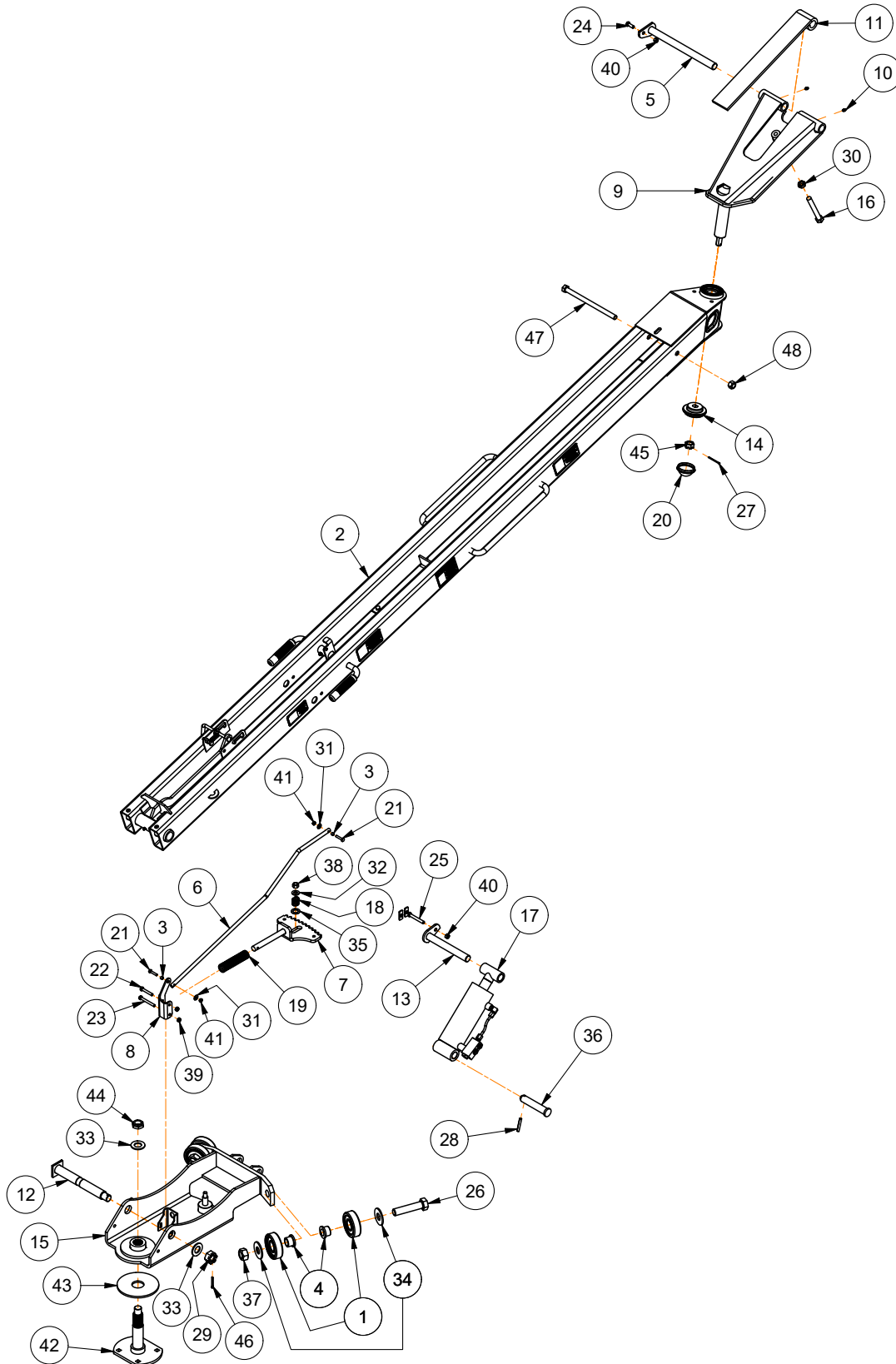
Please visit www.unverferth.com/parts/ for the most current parts listing.

ITEM	PART NO.	DESCRIPTION	QTY	NOTES
1	27915R	Accent Panel =RED=	2	
2	97189	Hex Nut/Large Flange 1/4"-20UNC	6	
3	9007908-025	Carriage Bolt 5/16"-18UNC x 1"	6	Stainless Steel
4	2004385	Wear Strip 1 1/2" x 16 1/2"	2	
5	9005639	Flange Nut 5/16"-18UNC	6	Stainless Steel
6	28018	Segment (Center)	1	
7	28019	Segment (Ends)	2	
8	29992TS	Bracket Left-Hand	1	Model 3955XL
	2009247TS			Model 3955DXL
9	29993TS	Bracket Right-Hand	1	Model 3955XL
	2009248TS			Model 3955DXL
10	91267	Flange Nut 1/2"-13UNC	16	
11	9388-103	Carriage Bolt, 1/2"-13UNC x 1 1/4" G5	14	
	9388-104	Carriage Bolt, 1/2"-13UNC x 1 1/2" G5	2	
12	9388-002	Carriage Bolt, 1/4"-20UNC x 3/4" G5	8	
13	9388-003	Carriage Bolt, 1/4"-20UNC x 1" G5	6	
14	901334	Grommet	1	
15	97048	Decal, WARNING "Pinch Point"	2	
16	2007215IV	Cradle Weldment Left-Hand	1	Model 3955DXL
	2005731IV			Model 3955XL
17	2007216IV	Cradle Weldment Right-Hand	1	Model 3955DXL
	2005732IV			Model 3955XL

Seed Runner 3955XL & 3955DXL — Parts

Pivot Assembly Components for 8" x 21' Conveyors (Model 3955XL)

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



Seed Runner 3955XL & 3955DXL — Parts

Pivot Assembly Components for 8" x 21' Conveyors (Model 3955XL)

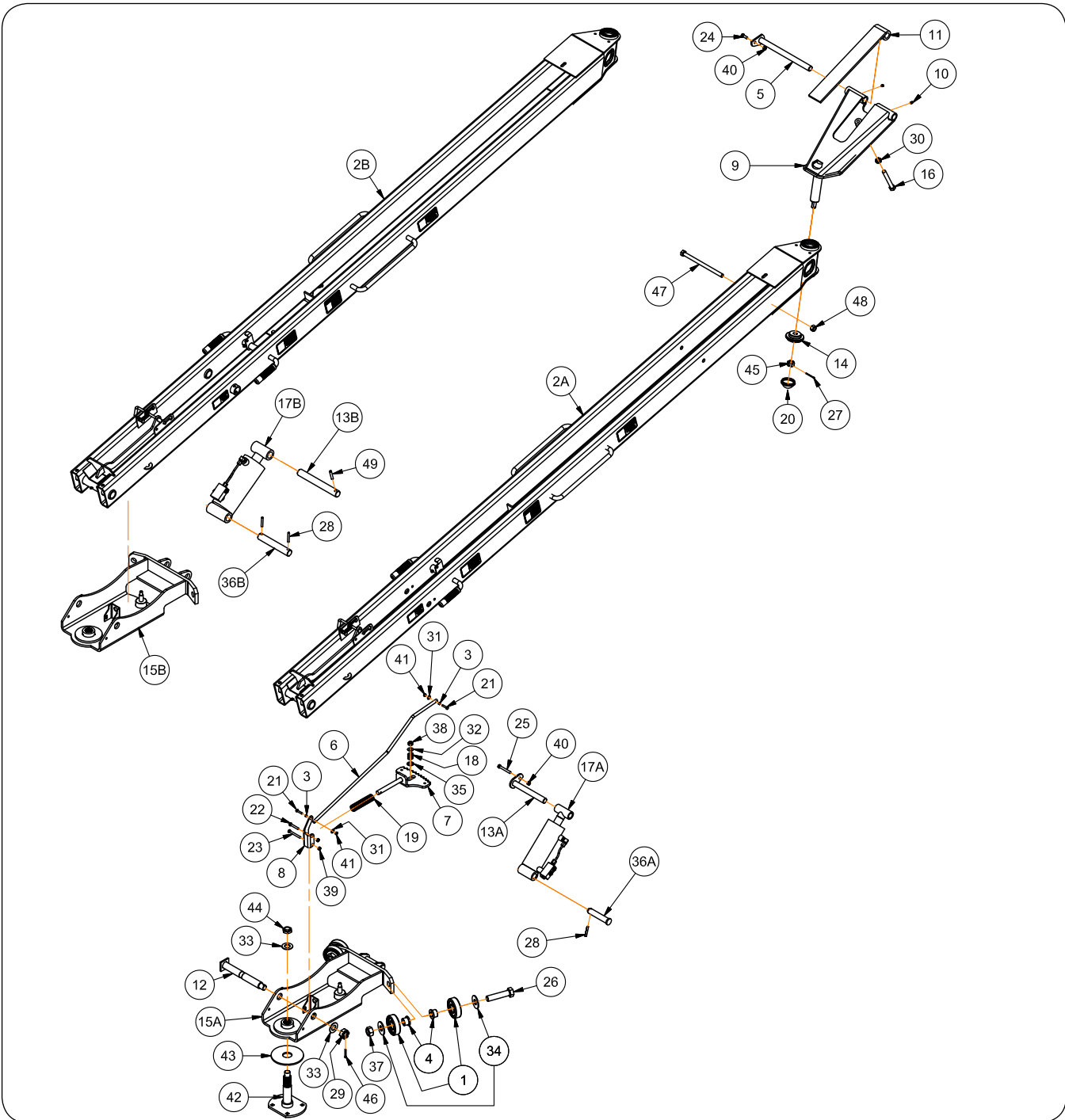
Please visit www.unverferth.com/parts/ for the most current parts listing.

ITEM	PART NO.	DESCRIPTION	QTY	NOTES
1	2000189	Bearing Assembly	4	
2	28447TS	Conveyor Arm Assembly	1	
3	22018	Bushing 3/8" Dia.	2	
4	23951	Bushing	4	
5	25436	Pin Weldment	2	
6	28021TS	Push Rod	1	
7	28453TS	Latch Weldment	1	
8	28454TS	Channel	1	
9	28491TS	Upper Pivot Weldment	1	Includes Item #10
10	91160	Grease Zerk	2	
11	28496TS	Spring 19 7/16" Long	1	
12	28524	Pin Weldment	1	
13	28526	Pin Weldment	1	
14	28581TS	Retainer Cap	1	
15	29925TS	Pivot Weldment	1	
16	9002131	Capscrew 5/8"-11UNC x 5 (Full Threaded)	1	
17	902806	Hydraulic Cylinder 3 x 5 w/Check Valve	1	
	99515	Check Valve for 3 x 5 Hydraulic Cylinder	-	
18	902602	Compression Spring	1	
19	902616	Compression Spring	1	
20	9162	Hub Cap	1	
21	9390-006	Capscrew 1/4"-20UNC x 1 1/4	2	Grade 5
22	9390-034	Capscrew 5/16"-18UNC x 2	1	Grade 5
23	9390-037	Capscrew 5/16"-18UNC x 2 3/4	1	Grade 5
24	9390-055	Capscrew 3/8"-16UNC x 1	2	Grade 5
25	9390-062	Capscrew 3/8"-16UNC x 2 3/4	1	Grade 5
26	9390-192	Capscrew 1"-8UNC x 4 1/2	2	Grade 5
27	9391-027	Cotter Pin 1/8" Dia. x 2	1	
28	9392-159	Roll Pin 5/16" Dia. x 2	2	
29	9393-020	Slotted Nut 1-14 UNS	1	
30	9395-014	Hex Jam Nut 5/8"-11UNC	1	
31	9405-064	Flat Washer 1/4 USS	2	
32	9405-086	Flat Washer 1/2 SAE	1	
33	9405-116	Flat Washer 1 SAE	1	
34	9405-118	Flat Washer 1 USS	4	
35	9500091	Nylon Washer	1	
36	83770	Pin 1" Dia. x 5 7/8"	1	
37	9663	Locknut 1"-8UNC	2	
38	9800	Locknut 1/2"-13UNC	1	
39	9807	Locknut 5/16"-18UNC	2	
40	9928	Locknut 3/8"-16UNC	3	
41	9936	Locknut 1/4-20	2	
42	29895TS	Hub Weldment w/Splined Shaft	1	
43	901186	Poly Washer	1	
44	96976-040	Locknut/Thin 1-14UNS	1	
45	9393-015	Slotted Nut 3/4-10UNC	1	
46	9391-035	Cotter Pin 5/32" Dia. x 1 1/2"	1	
47	9390-443	Capscrew 5/8"-11UNC x 10"	1	Grade 5
48	9801	Locknut 5/8"-11UNC	1	

Seed Runner 3955XL & 3955DXL — Parts

Pivot Assembly Components for 8" x 24' Conveyors (Model 3955DXL)

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



ITEM	PART NO.	DESCRIPTION	QTY	NOTES
1	2000189	Bearing Assembly	4	
2A	2006748TS	Conveyor Arm Assembly	1	For Serial Number D65910099 & Below
2B	2009184TS	Conveyor Arm Assembly	1	For Serial Number D65910100 & Up
3	22018	Bushing 3/8" Dia.	2	
4	23951	Bushing	4	

Seed Runner 3955XL & 3955DXL — Parts

Pivot Assembly Components for 8" x 24' Conveyors (Model 3955DXL)

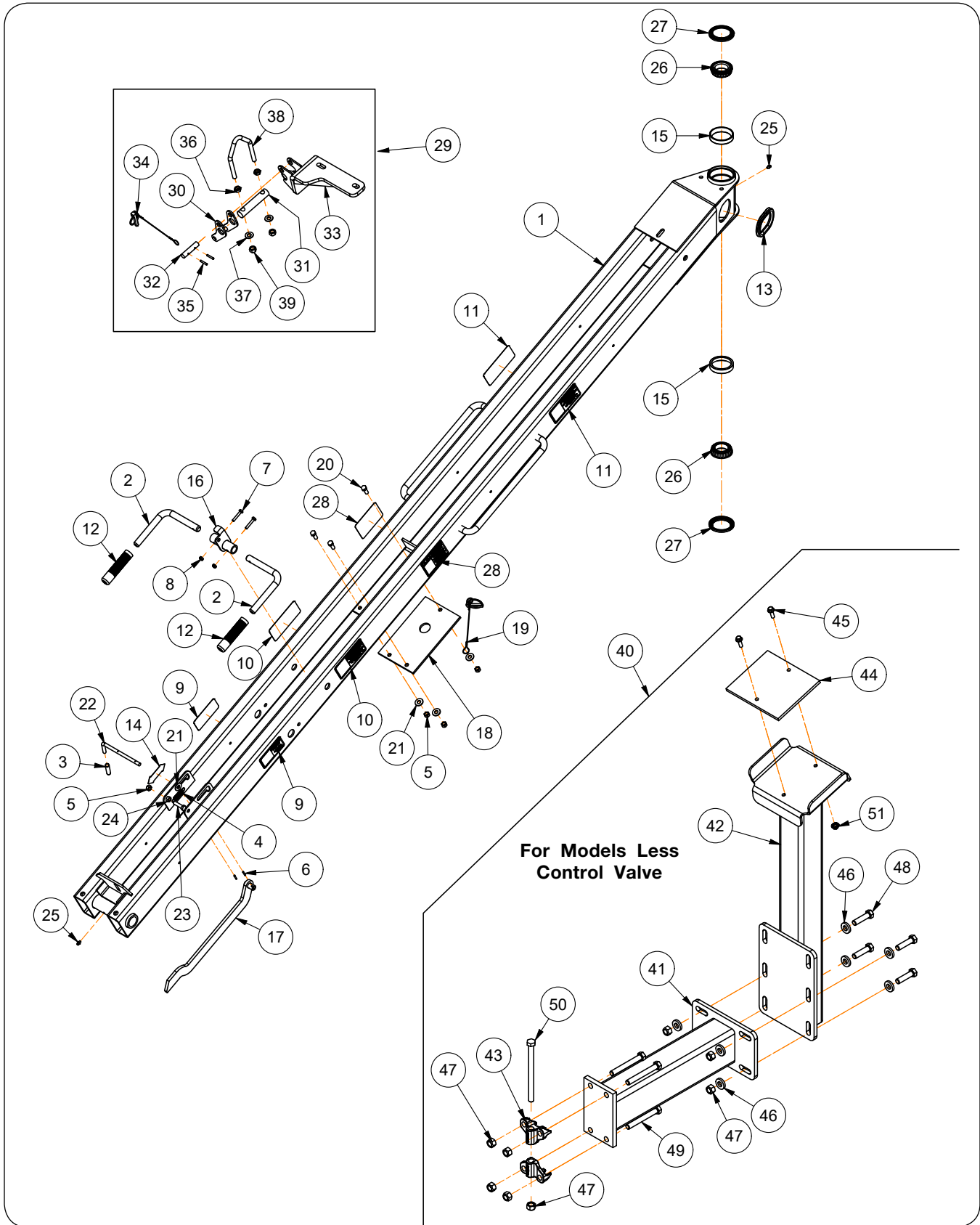
Please visit www.unverferth.com/parts/ for the most current parts listing.

ITEM	PART NO.	DESCRIPTION	QTY	NOTES
5	25436	Pin Weldment	2	
6	28021TS	Push Rod	1	
7	28453TS	Latch Weldment	1	
8	28454TS	Channel	1	
9	28491TS	Upper Pivot Weldment	1	Includes Item #10
10	91160	Grease Zerk	2	
11	28496TS	Spring 19 7/16" Long	1	
12	28524	Pin Weldment	1	
13A	28526	Pin Weldment	1	For Serial Number D65910099 & Below
13B	2008831			For Serial Number D65910100 & Up
14	28581TS	Retainer Cap	1	
15A	29925TS	Pivot Weldment	1	For Serial Number D65910099 & Below
15B	2009200TS	Pivot Weldment		For Serial Number D65910100 & Up
16	9002131	Capscrew 5/8"-11UNC x 5 (Full Threaded)	1	
17A	902806	Hydraulic Cylinder 3 x 5 w/Check Valve	1	For Serial Number D65910099 & Below
	99515	Check Valve for 3 x 5 Hydraulic Cylinder		
17B	9502818	Hydraulic Cylinder 4 x 5 w/Check Valve		For Serial Number D65910100 & Up
18	902602	Compression Spring	1	
19	902616	Compression Spring	1	
20	9162	Hub Cap	1	
21	9390-006	Capscrew 1/4"-20UNC x 1 1/4	2	Grade 5
22	9390-034	Capscrew 5/16"-18UNC x 2	1	Grade 5
23	9390-037	Capscrew 5/16"-18UNC x 2 3/4	1	Grade 5
24	9390-055	Capscrew 3/8"-16UNC x 1	2	Grade 5
25	9390-062	Capscrew 3/8"-16UNC x 2 3/4	1	Grade 5
26	9390-192	Capscrew 1"-8UNC x 4 1/2	2	Grade 5
27	9391-027	Cotter Pin 1/8" Dia. x 2	1	
28	9392-159	Roll Pin 5/16" Dia. x 2	2	
29	9393-020	Slotted Nut 1-14 UNS	1	
30	9395-014	Hex Jam Nut 5/8"-11UNC	1	
31	9405-064	Flat Washer 1/4 USS	2	
32	9405-086	Flat Washer 1/2 SAE	1	
33	9405-116	Flat Washer 1 SAE	1	
34	9405-118	Flat Washer 1 USS	4	
35	9500091	Nylon Washer	1	
36A	9500423	Pin 1" Dia. x 5 1/8"	1	For Serial Number D65910099 & Below
36B	2001351	Pin 1 1/4" Dia. x 7 3/4"		For Serial Number D65910100 & Up
37	9663	Locknut 1"-8UNC	2	
38	9800	Locknut 1/2"-13UNC	1	
39	9807	Locknut 5/16"-18UNC	2	
40	9928	Locknut 3/8"-16UNC	3	
41	9936	Locknut 1/4-20	2	
42	29895TS	Hub Weldment w/Splined Shaft	1	
43	901186	Poly Washer	1	
44	96976-040	Locknut/Thin 1-14UNS	1	
45	9393-015	Slotted Nut 3/4-10UNC	1	
46	9391-035	Cotter Pin 5/32" Dia. x 1 1/2"	1	
47	9390-443	Capscrew 5/8"-11UNC x 10"	1	Grade 5
48	9801	Locknut 5/8"-11UNC	1	
49	9392-180	Roll Pin 3/8" Dia. x 2"	1	

Seed Runner 3955XL & 3955DXL — Parts

Conveyor Arm Components for 8" x 21' Conveyors (Model 3955XL)

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



Seed Runner 3955XL & 3955DXL — Parts

Conveyor Arm Components for 8" x 21' Conveyors (Model 3955XL)

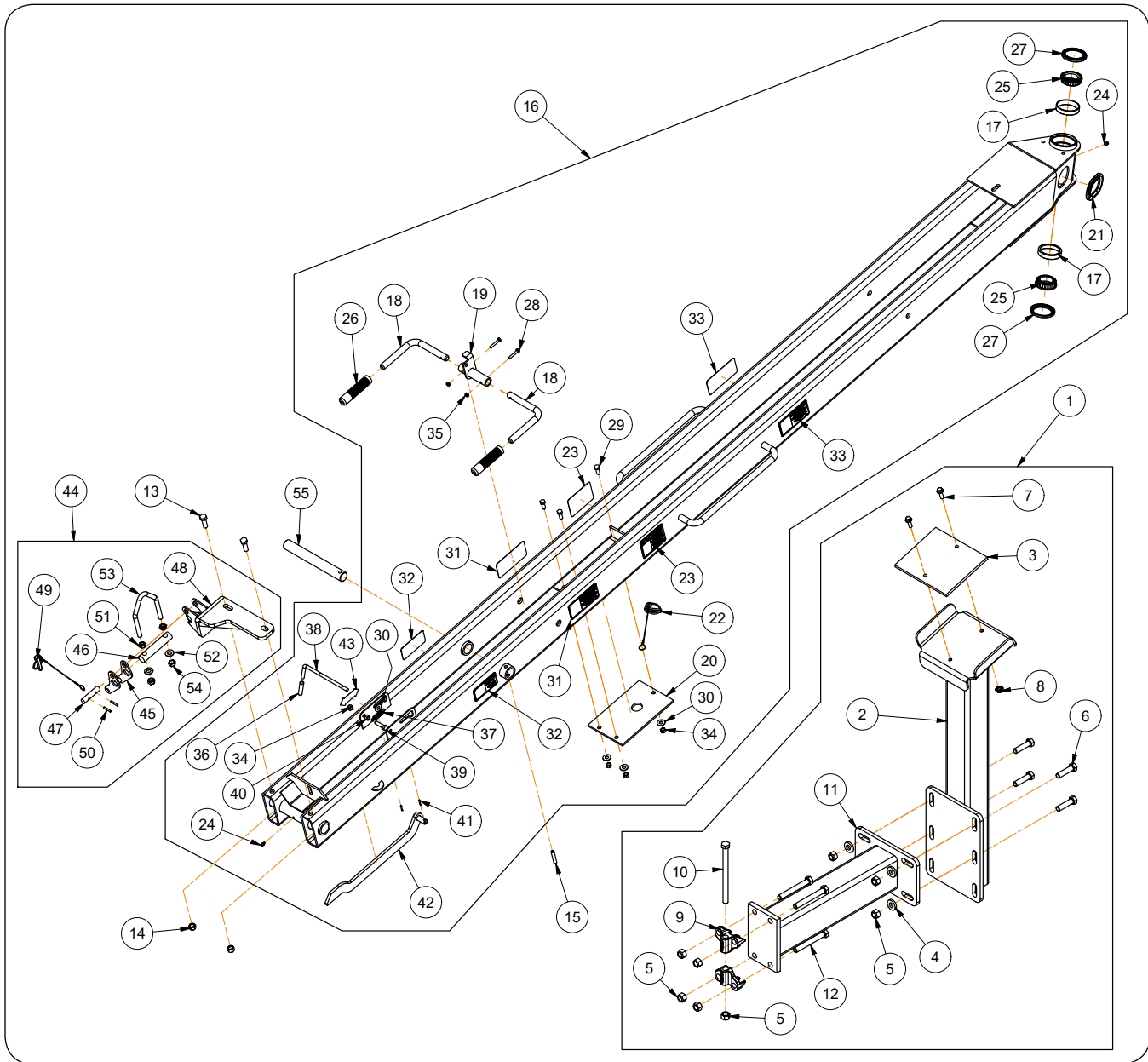
Please visit www.unverferth.com/parts/ for the most current parts listing.

ITEM	PART NO.	DESCRIPTION	QTY	NOTES
1	28447TS	Conveyor Arm Assembly	1	Includes Items 2 through 28
2	24023TS	Handle	1	
3	9003869	Hand Grip	2	
4	99860	Extension Spring 2 1/4" Long	1	
5	9928	Locknut 3/8"-16UNC	4	
6	9392-056	Roll Pin 1/8 Dia. x 3/4	2	
7	9390-007	Capscrew 1/4"-20UNC x 1 1/2	2	Grade 5
8	9936	Locknut 1/4"-20UNC	2	
9	95839	Decal, WARNING "Pinch Point..."	2	
10	95445	Decal, WARNING "High Pressure..."	2	
11	98229	Decal, WARNING "Falling or Lowering Equip..."	2	
12	92928	Grip/Handle 3/4D x 4 13/16	2	
13	82044	U-Channel 9 9/16" Long	1	
14	902685	Decal "Lock/Unlock"	1	
15	9349	Bearing Cup	2	
16	28020TS	Cam Weldment	1	
17	28480TS	Latch Weldment	1	
18	28490	UHMW Sheet 6 x 9 1/4	1	
19	901170	Lynch/Kliik Pin	1	
20	9390-055	Capscrew 3/8"-16UNC x 1	3	Grade 5
21	9405-076	Flat Washer 3/8 USS	4	
22	28482	Bent Pin 3/8" Dia.	1	
23	9390-057	Capscrew 3/8"-16UNC x 1 1/2	1	Grade 5
24	9394-006	Hex Nut 3/8"-16UNC	1	
25	91160	Grease Zerk	2	
26	9247	Bearing Cone (LM501349)	2	
27	9355	Seal 2 1/4" (22392)	2	
28	901478	Decal, DANGER "Electrocution..."	2	
29	2007495TS	Latch Assembly	1	Includes Items 30 through 39
30	2005585TS	Handle Weldment	1	
31	2005589	Pin 1" Dia. x 5"	1	
32	2005613	Pin 5/8" Dia. x 2 3/4"	1	
33	2007496TS	Latch Base Weldment	1	
34	901170	Lynch Pin w/Lanyard	1	
35	91144-121	Spiral Pin 3/16" Dia. x 1 1/8"	2	
36	9395-010	Hex Jam Nut 1/2"-13UNC	2	
37	9405-086	Flat Washer 1/2" SAE	2	
38	9501761	U-Bolt 1/2"-13UNC	1	
39	94981	Lock Nut/Center 1/2"-13UNC	2	
40	2009550TS	Conveyor Support Assembly	1	Includes Items 41-51
41	2010002TS	Horizontal Support Arm Weldment	1	
42	2009576TS	Vertical Support Weldment	1	
43	67922B	Extension Clamp Casting	2	
44	2009564	Poly Pad 3/8" x 7 1/2" x 9"	1	
45	9003259	Flange Screw, 3/8"-16UNC x 1 1/4" G5	2	
46	9746	Flat Washer, 5/8"	8	
47	9801	Lock Nut/Top, 5/8-11UNC	9	
48	9390-126	Capscrew, 5/8"-11UNC x 2 1/2" G5	4	
49	9390-134	Capscrew, 5/8"-11UNC x 5" G5	4	
50	9390-441	Capscrew, 5/8"-11UNC x 8 1/2" G5	1	
51	91263	Large Flange Nut, 3/8"-16UNC	4	

Seed Runner 3955XL & 3955DXL — Parts

Conveyor Arm Components for 8" x 24' Conveyors (Model 3955DXL)

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



ITEM	PART NO.	DESCRIPTION	QTY	NOTES
1	2009550TS	Conveyor Support Assembly	1	Includes Items 2-12
2	2009576TS	Vertical Support Weldment	1	
3	2009564	Poly Pad 3/8" x 7 1/2" x 9"	1	
4	9746	Flat Washer, 5/8"	8	
5	9801	Lock Nut/Top, 5/8-11UNC	9	
6	9390-126	Capscrew, 5/8"-11UNC x 2 1/2" G5	4	
7	9003259	Flange Screw, 3/8"-16UNC x 1 1/4" G5	2	
8	91263	Large Flange Nut, 3/8"-16UNC	2	
9	67922B	Extension Clamp Casting	2	
10	9390-441	Capscrew, 5/8"-11UNC x 8 1/2" G5	1	

Seed Runner 3955XL & 3955DXL — Parts

Conveyor Arm Components for 8" x 24' Conveyors (Model 3955DXL)

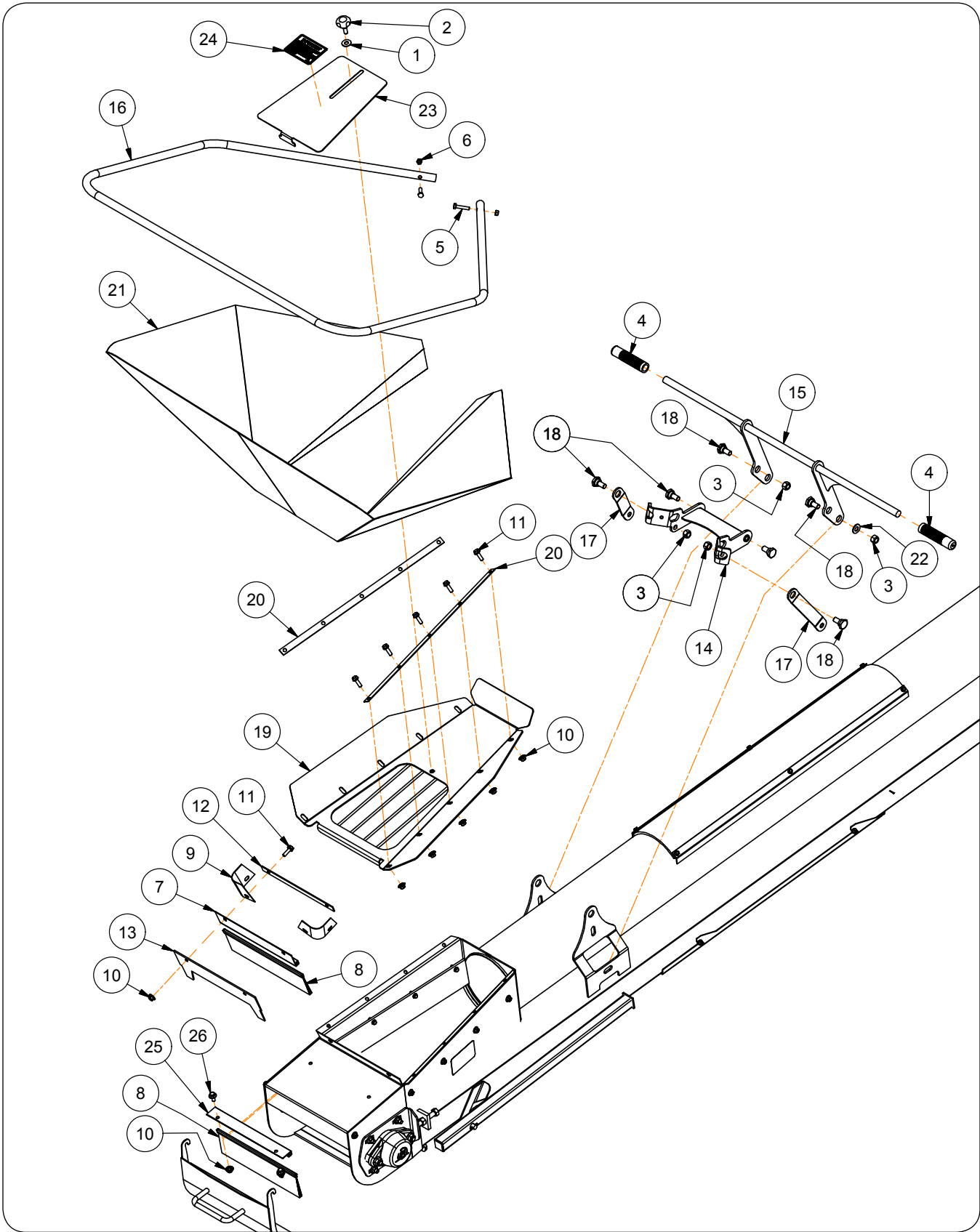
Please visit www.unverferth.com/parts/ for the most current parts listing.

ITEM	PART NO.	DESCRIPTION	QTY	NOTES
11	2010002TS	Horizontal Support Arm Weldment	1	
12	9390-134	Capscrew, 5/8"-11UNC x 5" G5	4	
13	9390-101	Capscrew 1/2"-13UNC x 1 1/2" G5	2	
14	9800	Lock Nut/Top 1/2"-13UNC	2	
15	91144-207	Spiral Pin 3/8" Dia. x 2"	1	
16	2009184TS	Conveyor Arm Assembly	1	Includes Items 17 through 43
17	9349	Bearing Cup (LM501310)	2	
18	24023TS	Handle	1	
19	2008832TS	Cam Weldment	1	
20	28490	UHMW Sheet 6 x 9 1/4	1	
21	82044	U-Channel 9 9/16" Long	1	
22	901170	Lynch/Klik Pin	1	
23	901478	Decal, DANGER "Electrocution..."	2	
24	91160	Grease Zerk	2	
25	9247	Bearing Cone (LM501349)	2	
26	92928	Grip/Handle 3/4" Dia. x 4 13/16"	2	
27	9355	Seal 2 1/4" (22392)	2	
28	9390-007	Capscrew 1/4"-20UNC x 1 1/2" G5	2	
29	9390-055	Capscrew 3/8"-16UNC x 1" G5	3	
30	9405-076	Flat Washer 3/8" USS	4	
31	95445	Decal, WARNING "High Pressure..."	2	
32	95839	Decal, WARNING "Pinch Point..."	2	
33	98229	Decal, WARNING "Falling or Lowering Equip..."	2	
34	9928	Lock Nut/Top 3/8"-16UNC	4	
35	9936	Lock Nut/Top 1/4"-20UNC	2	
36	9003869	Hand Grip	1	
37	99860	Extension Spring 2 1/4" Long	1	
38	2008523	Bent Pin 3/8" Dia.	1	
39	9390-057	Capscrew 3/8"-16UNC x 1 1/2	1	
40	9394-006	Hex Nut 3/8"-16UNC	1	
41	9392-056	Roll Pin 1/8 Dia. x 3/4	2	
42	2009195TS	Latch Weldment	1	
43	902685	Decal "Lock/Unlock"	1	
44	2007495TS	Latch Assembly	1	Includes Items 45 through 54
45	2005585TS	Handle Weldment	1	
46	2005589	Pin 1" Dia. x 5"	1	
47	2005613	Pin 5/8" Dia. x 2 3/4"	1	
48	2007496TS	Latch Base Weldment	1	
49	901170	Lynch Pin w/Lanyard	1	
50	91144-121	Spiral Pin 3/16" Dia. x 1 1/8"	2	
51	9395-010	Hex Jam Nut 1/2"-13UNC	2	
52	9405-086	Flat Washer 1/2" SAE	2	
53	9501761	U-Bolt 1/2"-13UNC	1	
54	94981	Lock Nut/Center 1/2"-13UNC	2	
55	2008831	Pin 1 1/4" Dia. x 10	1	

Seed Runner 3955XL & 3955DXL — Parts

Hopper and Handle Components (Model 3955XL)

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



Seed Runner 3955XL & 3955DXL — Parts

Hopper and Handle Components (Model 3955XL)

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

ITEM	PART NO.	DESCRIPTION	QTY.	NOTES
1	9405-076	Flat Washer 3/8" USS	1	
2	901046	Knob	1	
3	9800	Locknut 1/2"-13UNC	6	
4	92928	Grip/Handle Bar	2	
5	9390-032	Capscrew 5/16"-18UNC x 1 1/2"	2	Grade 5
6	9807	Locknut 5/16"-18UNC	2	
7	25262	Brush Holder	1	
8	901814	Nylon Brush	2	
9	24986	Poly Strip	2	
10	91257	Hex Nut/Large Flange 5/16"-18UNC	14	
11	901044	Flange Screw 5/16"-18UNC x 1"	12	Grade 5
12	28487TS	Plate/Strap 3/4" x 11"	1	=Tan Speckle=
13	26243	Belting/Seal	1	
14	2003180TS	Pivot Weldment	1	=Tan Speckle=
15	2003185TS	Handle Weldment	1	=Tan Speckle=
16	2003179TS	Tube	1	=Tan Speckle=
17	2003176TS	Link	2	=Tan Speckle=
18	2003191	Shoulder Bolt 1/2"-13UNC x 1.18	6	
19	2003177TS	Grate Weldment	1	=Tan Speckle=
20	2003197TS	Plate/Strap 3/4" x 23"	2	=Tan Speckle=
21	2003198	Hopper Vinyl	1	
22	9405-086	Flat Washer 1/2" SAE	2	
23	28399TS	Cover Plate	1	=Tan Speckle=
24	902635	Decal, IMPORTANT (Operation)	1	
25	26308	Brush Holder	1	
26	91256	Screw/Large Flange 5/16"-18UNC x 3/4"	2	=Tan Speckle=

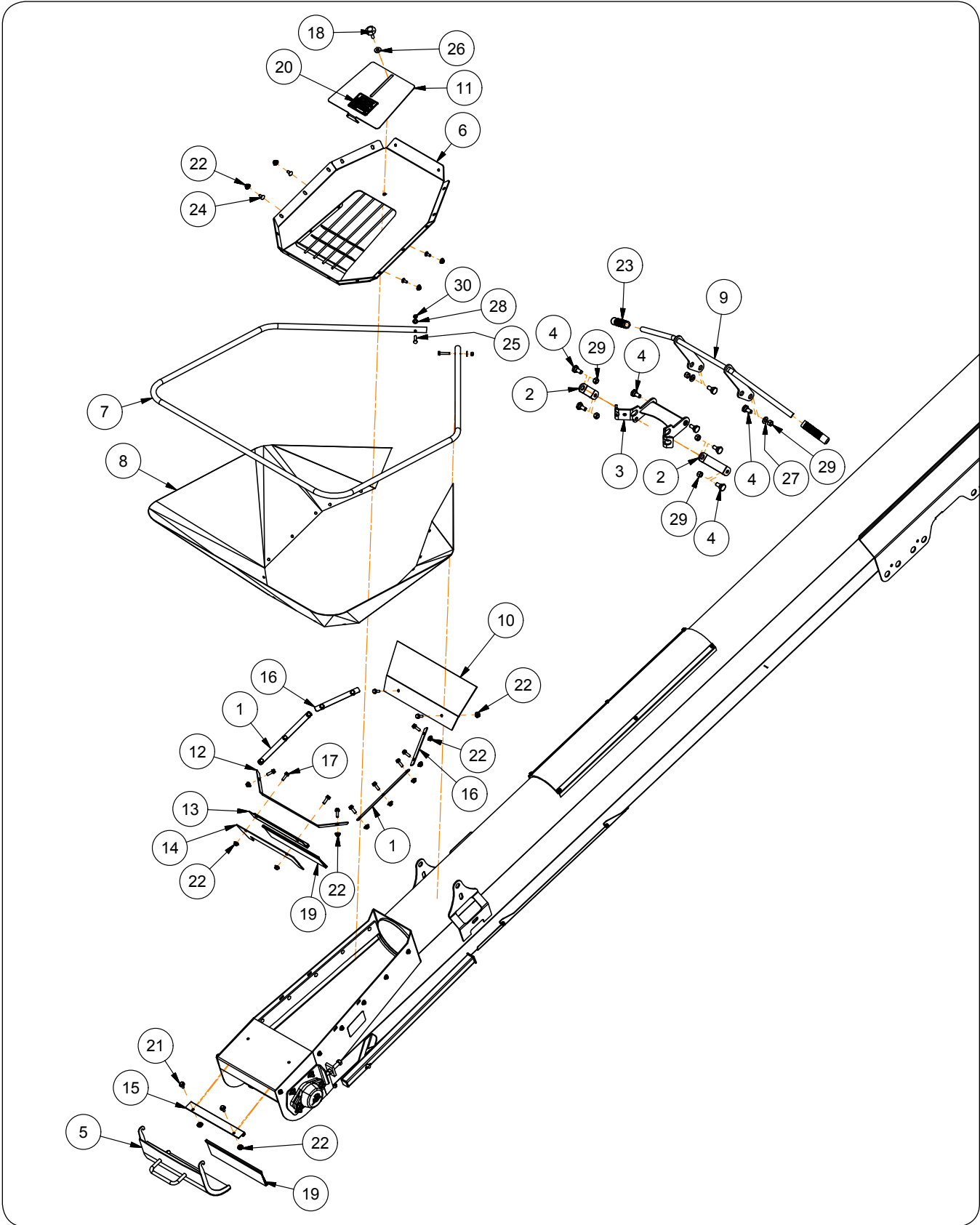
Hopper Cover Model 3955XL#9501361; Model 3955DXL #9503612



Seed Runner 3955XL & 3955DXL — Parts

Hopper and Handle Components (Model 3955DXL)

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Seed Runner 3955XL & 3955DXL — Parts

Hopper and Handle Components (Model 3955DXL)

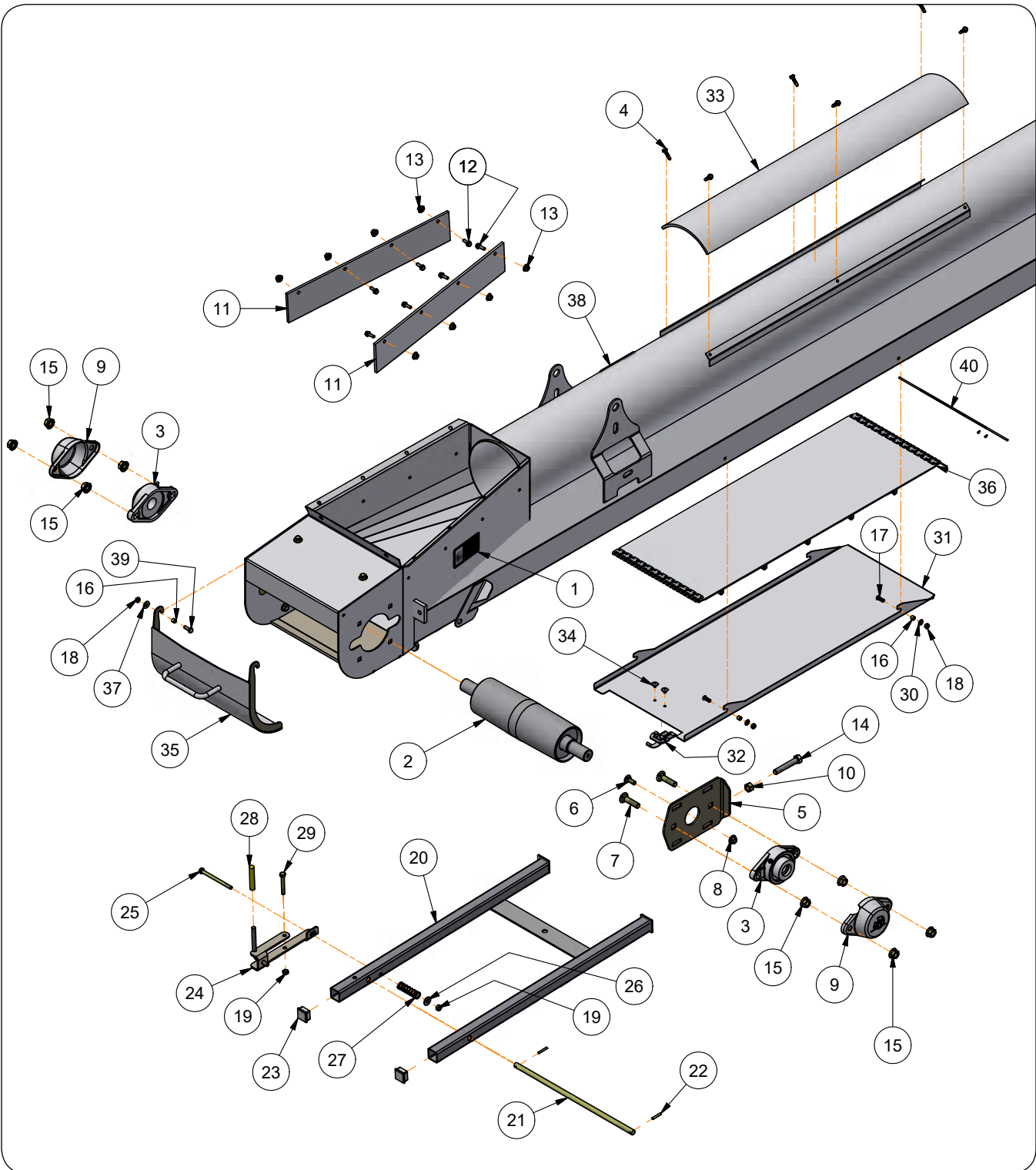
Please visit www.unverferth.com/parts/ for the most current parts listing.

ITEM	PART NO.	DESCRIPTION	QTY.	NOTES
1	2001058TS	Strap 3/4" x 12"	2	=Tan Speckle=
2	2003176TS	Link	2	=Tan Speckle=
3	2003180TS	Pivot Weldment	1	=Tan Speckle=
4	2003191	Shoulder Bolt 1/2"-13UNC x 1.18	6	
5	2004106TS	Cleanout Door Weldment	1	=Tan Speckle=
6	2007135TS	Grate Weldment	1	=Tan Speckle=
7	2007205TS	Tube	1	=Tan Speckle=
8	2007211	Hopper Vinyl	1	
9	2007247TS	Handle Weldment	1	=Tan Speckle=
10	2007255	Seal	1	
11	2007257TS	Cover Plate	1	=Tan Speckle=
12	2007259TS	Strap 1 11/16" x 22 3/32"	1	=Tan Speckle=
13	25262	Brush Holder	1	
14	26243	Belting/Seal	1	
15	26308	Brush Holder	1	
16	28486TS	Strap 3/4" x 7 1/2"	2	=Tan Speckle=
17	901044	Flange Screw 5/16"-18UNC x 1"	12	Grade 5
18	901046	Knob	1	
19	901814	Nylon Brush	2	
20	902635	Decal, IMPORTANT (Operation)	1	
21	91256	Screw/Large Flange 5/16"-18UNC x 3/4"	2	=Tan Speckle=
22	91257	Hex Nut/Large Flange 5/16"-18UNC	14	
23	92928	Grip/Handle Bar	2	
24	9388-024	Carriage Bolt 5/16"-18UNC x 3/4"	4	Grade 5
25	9390-032	Capscrew 5/16"-18UNC x 1 1/2"	2	Grade 5
26	9405-076	Flat Washer 3/8" USS	1	
27	9405-086	Flat Washer 1/2" SAE	2	
28	9501011	Nylon Washer	2	
29	9800	Locknut 1/2"-13UNC	6	
30	9807	Locknut 5/16"-18UNC	2	

Seed Runner 3955XL & 3955DXL — Parts

Stand, Cleanout Door, Shield, & Idler End Components

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



Seed Runner 3955XL & 3955DXL — Parts

Stand, Cleanout Door, Shield, & Idler End Components

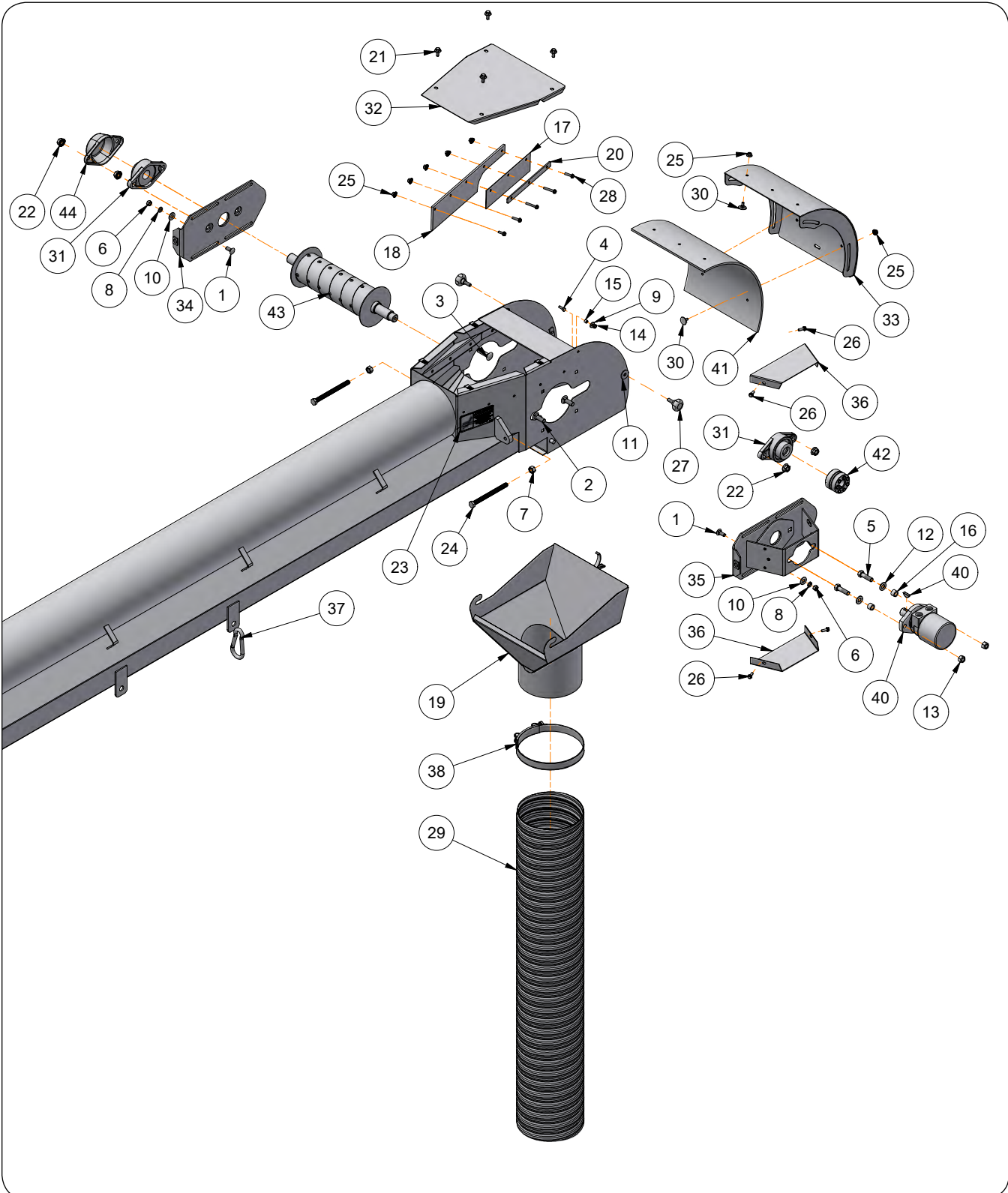
Please visit www.unverferth.com/parts/ for the most current parts listing.

ITEM	PART NO.	DESCRIPTION	QTY	NOTES
1	TA1-906109-0	Decal, WARNING "Moving Parts"	2	
2	28408	Idler Pulley	1	
3	902697	Bearing w/Flange (Includes Zerk, Setscrew & Single Lip Seal)	2	
4	9512	Self-Drilling Screw, 1/4-14 x 1"	6	
5	2004158TS	Adjustment Plate	1	=Tan Speckle=
6	9388-051	Carriage Bolt 3/8"-16UNC x 1" G5	4	
7	9388-106	Carriage Bolt, 1/2"-13UNC x 2" G5	8	
8	91263	Hex Nut/Large Flange, 3/8"-16UNC	4	
9	9501223	Idler Cover	2	=Tan Speckle=
10	9394-010	Hex Nut, 1/2"-13UNC	3	
11	25258	Poly Strip, 3 1/2" x 20 3/16"	2	
12	97420	Flange Screw, 1/4"-20UNC x 3/4" G5	14	
13	97189	Hex Nut/Large Flange, 1/4"-20UNC G5	18	
14	95452	Capscrew, 1/2"-13UNC x 3"	1	
15	91267	Flange Nut, 1/2"-13UNC	14	
16	22018	Bushing	8	
17	9003829	Capscrew/Button Head Socket, 1/4"-20UNC x 3/4" G5	8	
18	9936	Locknut, 1/4"-20UNC	8	
19	9807	Locknut, 5/16"-18UNC	4	
20	25260TS	Stand Weldment	1	
21	25261	Pin, 1/2" Dia. x 16 1/4"	1	
22	91144-121	Spiral Pin, 3/16" Dia. x 1 1/8"	2	
23	9000117	Plug, 1 1/4" Square	2	
24	27110TS	Latch Weldment	1	=Tan Speckle=
25	9390-042	Capscrew, 5/16"-18UNC x 4" G5	1	
26	9405-070	Flat Washer, 5/16" USS	1	
27	TA510035	Spring, 2 1/2" Long	1	
28	9003869	Yellow Hand Grip	1	
29	9390-035	Capscrew, 5/16"-18UNC x 2 1/4" G5	1	
30	9405-052	Flat Washer, 3/16" USS	4	
31	2003196TS	Shield	1	=Tan Speckle=
32	TA0-902596-0	Draw Blade Latch	1	
33	2003863	Wear Guard, 7" x 36"	1	
34	9500175	Pop Rivet, 3/16"	2	
35	2004106TS	Cleanout Door Weldment	1	=Tan Speckle=
36	9501208	Conveyor Belt for 8" x 21' Conveyor	1	
	9501994	Conveyor Belt for 8" x 24' Conveyor		
	9501508	Splice Kit		
37	9405-064	Flat Washer, 1/4" USS	2	
38	2005375TS	Conveyor Weldment 8" Dia. x 21' w/Decals	-	
	2011597TS	Conveyor Weldment 8" Dia. x 24' w/Decals	-	
39	9390-003	Capscrew, 1/4"-20UNC x 3/4" G5	2	
40	2007527	Splice Pin	-	

Seed Runner 3955XL & 3955DXL — Parts

Discharge Spout Components

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



Seed Runner 3955XL & 3955DXL — Parts

Discharge Spout Components

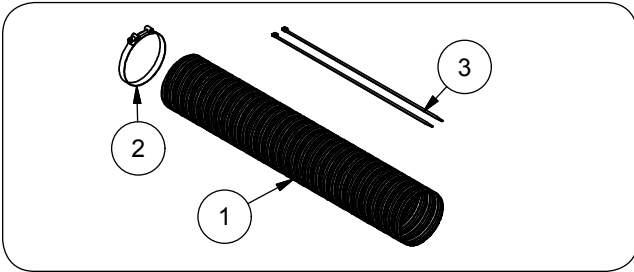
Please visit www.unverferth.com/parts/ for the most current parts listing.

ITEM	PART NO.	DESCRIPTION	QTY	NOTES
1	9388-051	CARRIAGE 3/8X1 UNC GR5	12	
2	9388-104	CARRIAGE 1/2X1 1/2 UNC GR5	2	
3	9388-106	CARRIAGE 1/2X2 UNC GR5	6	
4	9390-003	HCS 1/4X3/4 UNC GR5	4	
5	9390-102	HCS 1/2X1 3/4 UNC GR5	2	
6	9394-006	HEX NUT 3/8-16UNC G5	8	
7	9394-010	HEX NUT 1/2-13UNC G5	3	
8	9404-021	LOCK WASHER 3/8 (.382)	8	
9	9405-064	FLAT WASHER 1/4 USS	8	
10	9405-076	FLAT WASHER 3/8 USS	8	
11	9405-078	FLAT WASHER 3/8 TYPE B (WIDE)	3	
12	9405-086	FLAT WASHER 1/2 SAE	2	
13	9800	TOP LOCK 1/2	8	
14	9936	LOCKNUT 1/4-20	8	
15	22018	BUSHING	8	
16	24550	BUSHING	2	
17	25256	SEAL	2	
18	25257	POLY STRIP	2	
19	26284@	SPOUT WELDMENT (PNTD)	1	
20	26432@	STRIP	2	
21	91256	SCREW/LR FLG 5/16-18X3/4	6	
22	91267	FLANGE NUT 1/2-13 UNC G5	14	
23	95445	DECAL WARNING/HIGH PRESSURE	1	
24	97171	HCS 1/2 FULL X 6 UNC GR5	2	
25	97189	HEX NUT/LRG FLG 1/4-20UNC	26	
26	97420	FLANGE SCREW 1/4-20X3/4	13	
27	901046	KNOB	3	
28	901101	FLANGE SCREW 1/4-20X1	4	
29	901544	8"X48" FLEX. SPOUT	1	
30	902006	ELEVATOR BOLT 1/4-20 X 3/4	8	
31	902697	2-BOLT FLANGE BEARING	4	
32	2003363@	TOP SHIELD	1	
33	2003440@	DEFLECTOR WELDMENT	1	
34	2003483@	ADJUSTMENT PLATE WELDT	1	
35	2003486@	ADJUSTMENT PLATE WELDT	1	
36	2003487@	SHIELD	2	
37	9500155	SPRING SNAP	1	
38	9500171	HOSE CLAMP [201-213MM]	1	
39	9500806	6 CIR HYD MOTOR	1	
40	9501210	NEOPRENE SHEET	1	
41	9501220	FENNER COUPLER	1	
42	9501222	DRIVE PULLEY	1	
43	9501223	COVER	3	

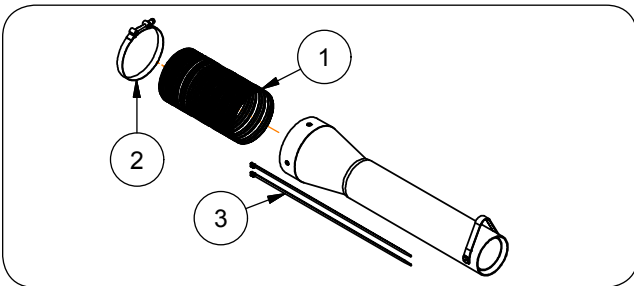
Seed Runner 3955XL & 3955DXL — Parts

Telescopic Spout Components

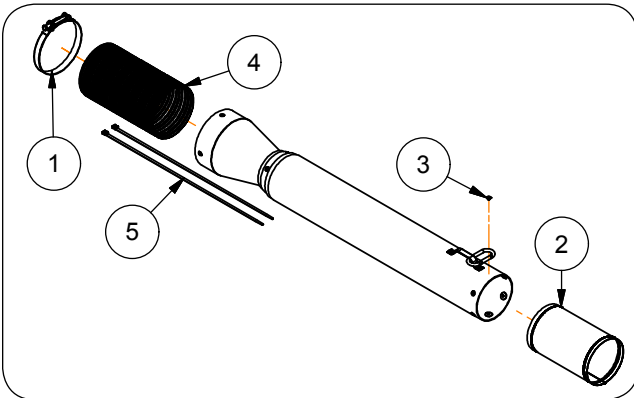
Please visit www.unverferth.com/parts/ for the most current parts listing.



ITEM	PART NO.	DESCRIPTION	QTY
	2005067	Spout Bundle 8" x 48"	-
1	901544	4' Flex Spout	1
2	901485	Clamp 8" Dia.	1
3	94038	Cable Tie 32" Long	2



ITEM	PART NO.	DESCRIPTION	QTY
	25532	2-Stage Telescopic Spout	-
1	25752	14 3/4" Flex Spout	1
2	901485	Clamp 8" Dia.	1
3	94038	Cable Tie 32" Long	2



ITEM	PART NO.	DESCRIPTION	QTY
	29782	3-Stage Telescopic Spout)	-
1	901485	Clamp 8" Dia.	1
2	9500173	Vinyl Sock	1
3	9500175	Pop Rivet	2
4	25752	14 3/4" Flex Spout	1
5	94038	Cable Tie 32" Long	2

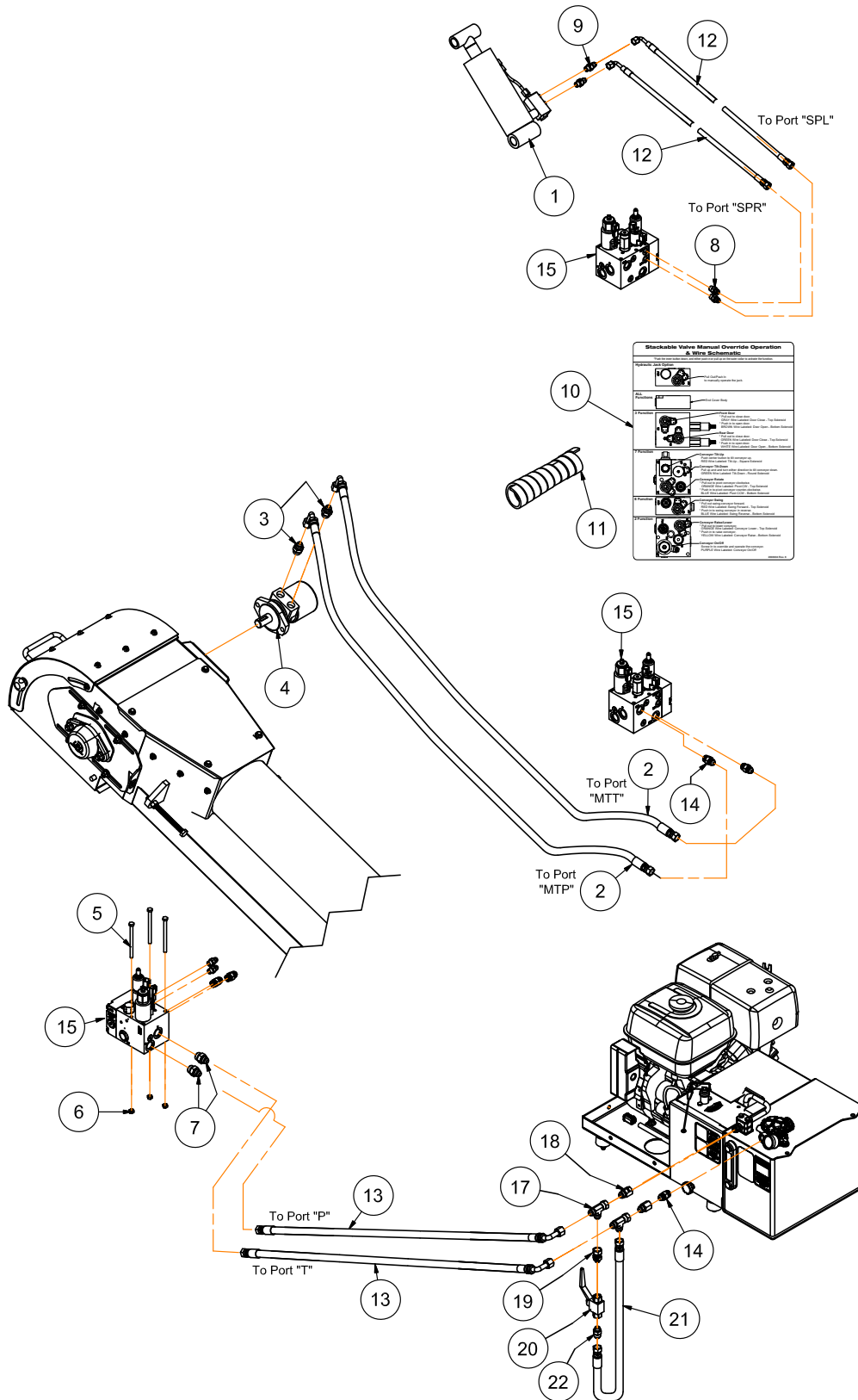
Notes

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

Seed Runner 3955XL & 3955DXL — Parts

Hydraulic Components

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



Seed Runner 3955XL & 3955DXL — Parts

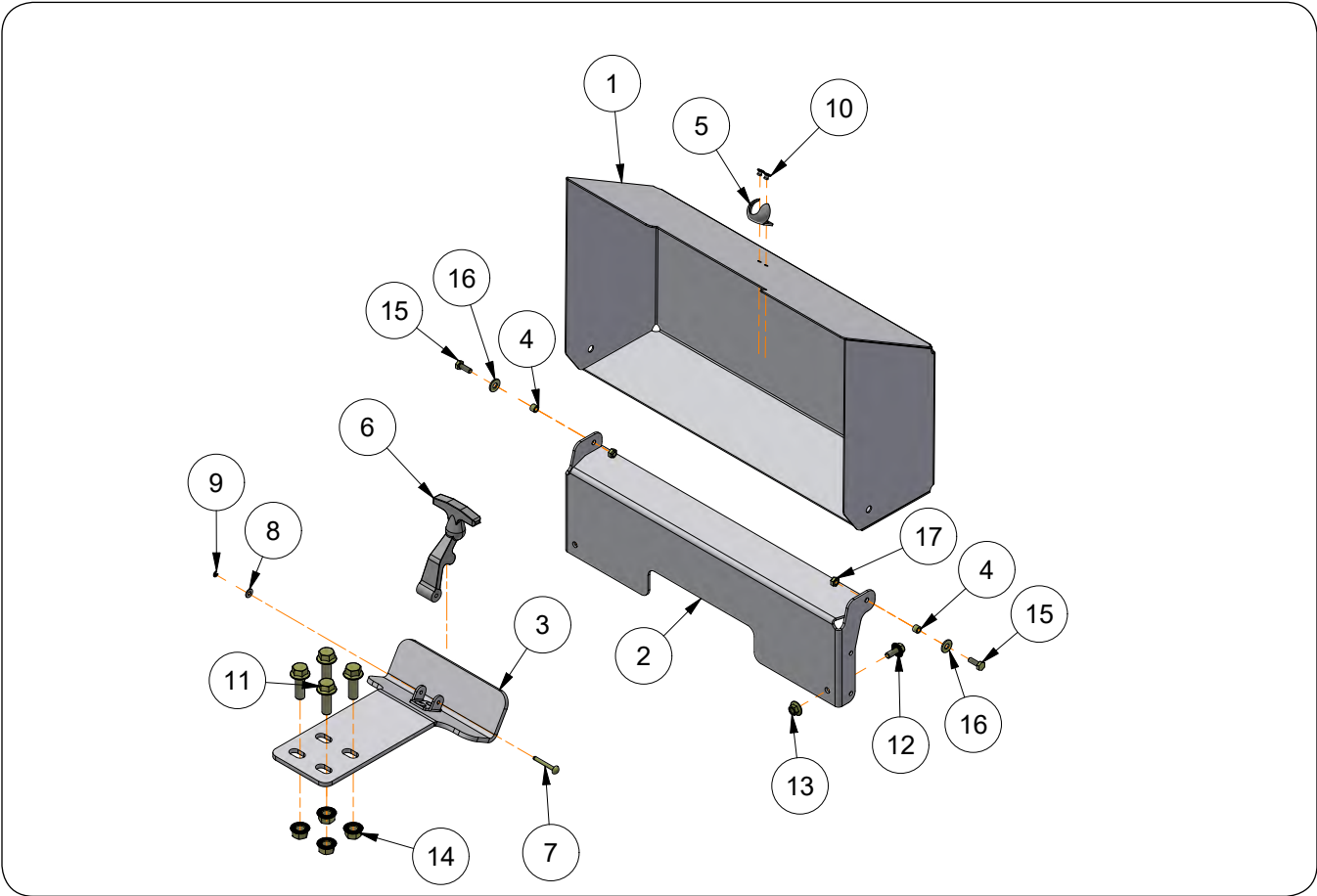
Hydraulic Components

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

ITEM	PART NO.	DESCRIPTION	QTY	NOTES
1	902806	Hydraulic Cylinder 3 x 5 w/Check Valve (SHOWN)	1	ALL 8" x 21' Units For 8" x 24' Units Serial Number D65910099 & Below For 8" x 24' Units Serial Number D65910100 & Up
	99515	Check Valve for 3 x 5 Hydraulic Cylinder		
	9502818	Hydraulic Cylinder 4 x 5 w/Check Valve		
2	902968	Hose 1/2 x 350 3/4-16 JIC Female x 90° Medium Drop 3/4-16 JIC Female	2	
3	93607	Adapter 3/4-16 JIC Male x 7/8-14 O-Ring Male Boss	2	
4	9500806	Hydraulic Motor 1800PSI	1	
5	9390-043	Capscrew 5/16"-18UNC x 4 1/2"	3	
6	9807	Locknut 5/16"-18UNC	3	
7	93607	Adapter 3/4-16 JIC Male X 7/8-14 O-Ring Male	2	
8	9001495	Adapter 9/16-18 JIC Male x 9/16-18 O-Ring Male	2	
9	98435	Adapter 9/16-18 JIC Male x 9/16-18 O-Ring Male w/ .030 Restrictor (SHOWN)	2	ALL 8" x 21' Units For 8" x 24' Units Serial Number D65910099 & Below For 8" x 24' Units Serial Number D65910100 & Up
	9503019	90° Elbow 9/16-18 JIC Male x 9/16-18 O-Ring Male w/ .045 Restrictor		
10	2003034	Decal, Valve Manual Override Operation	1	
11	9004075	Spiral Hose Wrap	3	
12	901519	Hose 1/4 x 96 9/16-18 JIC Female x 90° Medium Drop 9/16-18 JIC Female	2	ALL 8" x 21' Units For 8" x 24' Units Serial Number D65910099 & Below For 8" x 24' Units Serial Number D65910100 & Up
	9003275	Hose 1/4 x 94 9/16-18 JIC Female x 9/16-18 JIC Female		
13	9501299	Hose 1/2 x 60 3/4-16 JIC Female 90° Elbow x 3/4-16 JIC Female	2	
14	9864	Adapter 3/4-16 JIC Male x 3/4-16 O-Ring Male	3	
15	9500855	Stackable Control Valve - 2 Section	1	
16	9502284	Hose 1/2 x 36 3/4-16 JIC Female x 3/4-16 JIC Male	2	For 8" x 24' Conveyors
17	95059	Tee 3/4-16 JIC Male x 3/4-16 JIC Female x 3/4-16 JIC Male	2	
18	901181	Reducer Adapter 3/4-16 JIC Female x 3/4-16 JIC Male	2	
19	97664	Adapter 9/16-18 O-Ring Male x 3/4-16 JIC Female	1	
20	9501014	Cold Start/Ball Valve	1	
21	9502790	Hose 1/2 x 20 3/4-16 JIC Female x 3/4-16 JIC Female	1	
22	95475	Adapter 3/4-16 JIC Male x 9/16-18 O-Ring Male	1	

Valve Shield Components

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



Seed Runner 3955XL & 3955DXL — Parts

Valve Shield Components

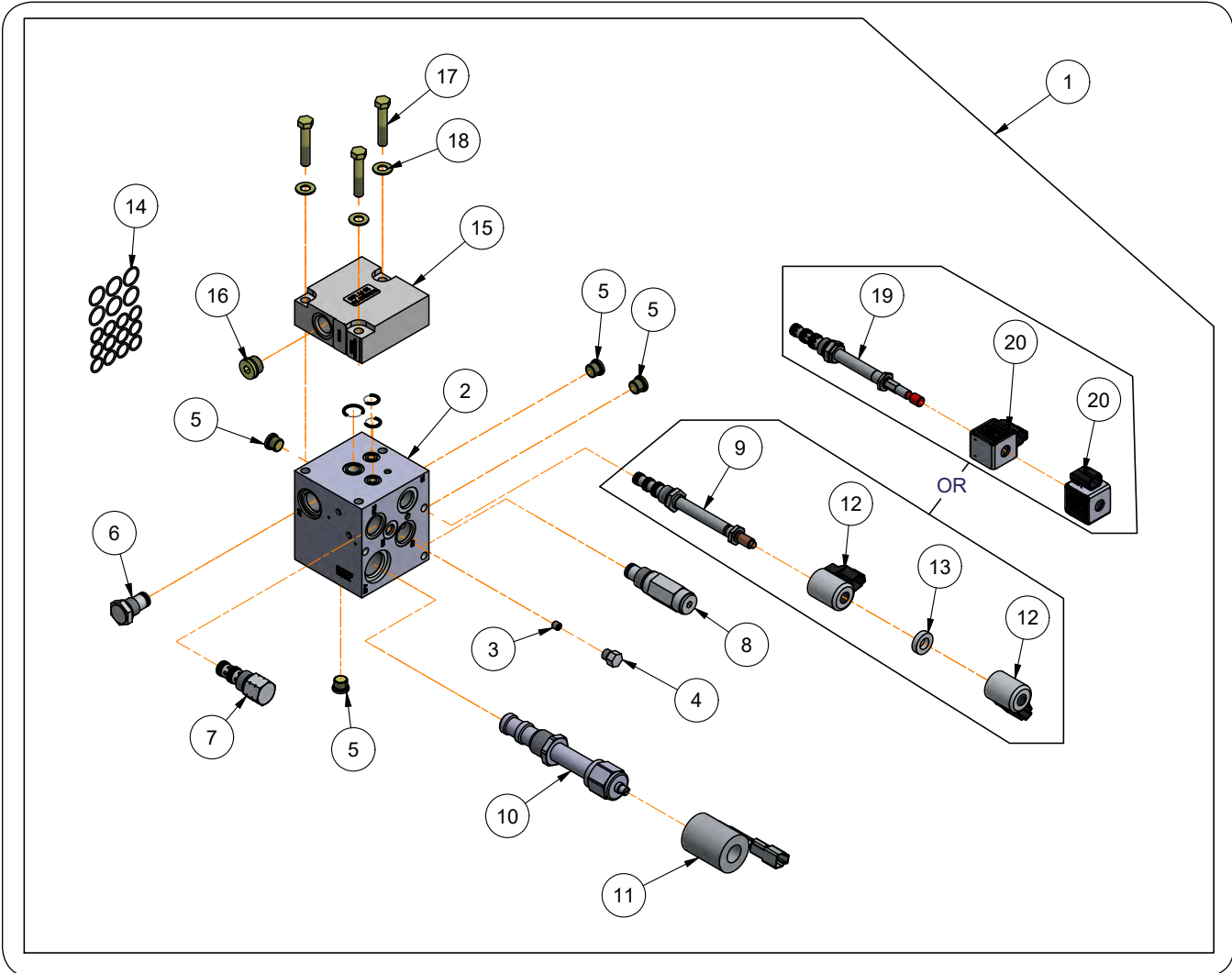
Please visit www.unverferth.com/parts/ for the most current parts listing.

ITEM	PART NO.	DESCRIPTION	QTY	NOTES
1	2004966TS	Shield Weldment =Tan Speckle=	1	
2	2004967TS	Lower Shield Weldment =Tan Speckle=	1	
3	2004972TS	Latch Plate Weldment =Tan Speckle=	1	
4	22018	Bushing	2	
5	900059	Keeper "R" Style	1	
6	900060	Handle	1	
7	900066	Pin - Draw Latch	1	
8	900067	Washer	1	
9	900068	E-Ring (External)	1	
10	9003503	Rivet 3/16" Dia. x 1/4	2	
11	9005705	Flange Screw 1/2"-13UNC x 1 1/2"	4	
12	91256	Screw/Large Flange 5/16"-18UNC x 3/4"	2	Grade 5
13	91257	Flange Nut 5/16"-18UNC	2	
14	91267	Flange Nut 1/2"-13UNC	4	
15	9390-003	Capscrew 1/4"-20UNC x 3/4"	2	Grade 5
16	9405-064	Flat Washer 1/4" USS	2	
17	9936	Locknut 1/4"-20UNC	2	

Seed Runner 3955XL & 3955DXL — Parts

Control Valve - 2 Function Components

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



Seed Runner 3955XL & 3955DXL — Parts

Control Valve - 2 Function Components

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

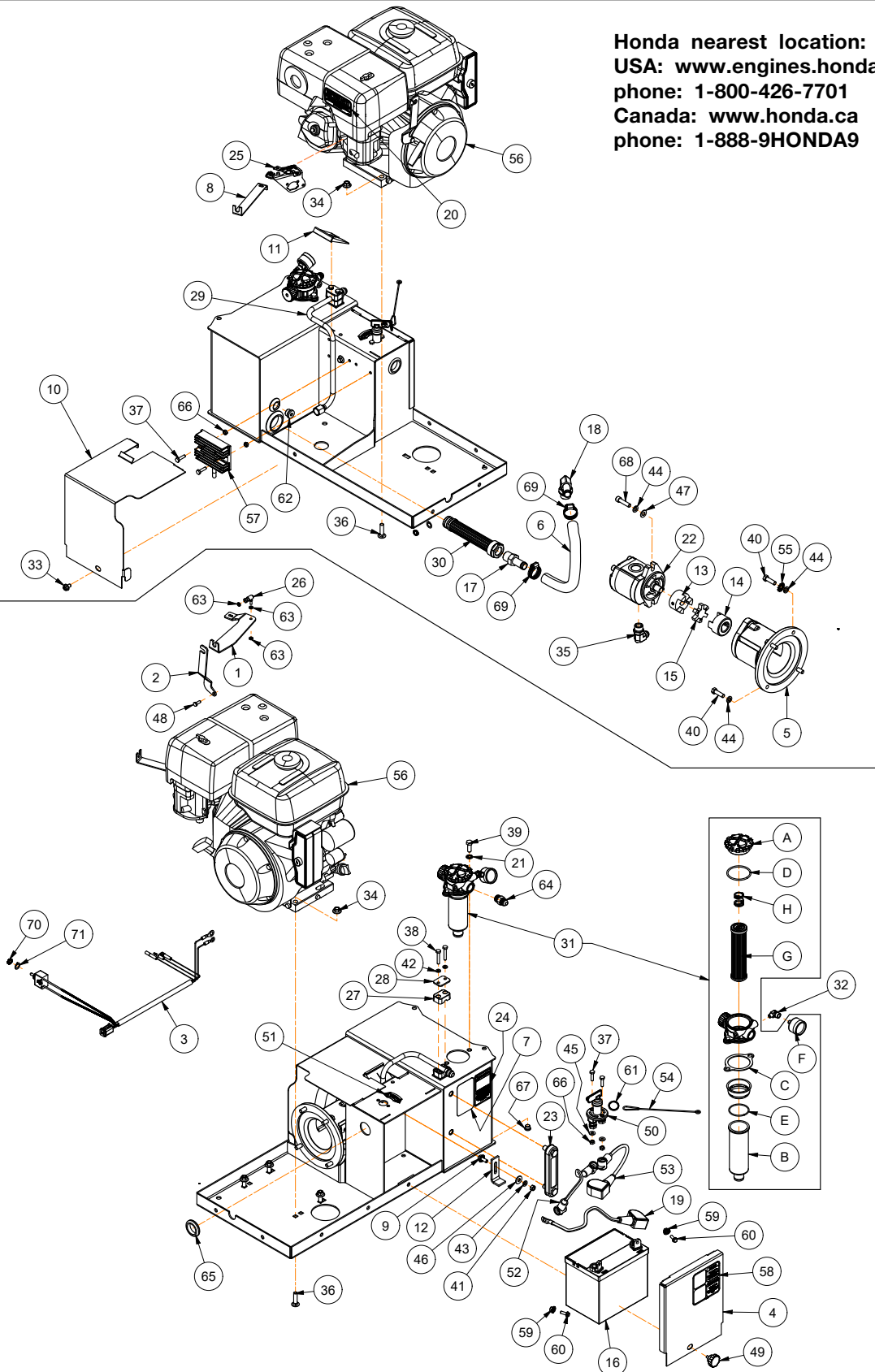
ITEM	PART NO.	DESCRIPTION	QTY.	NOTES
1	9500855	Valve Assembly w/End Cover Assembly	1	Includes items 2 - 18
2	N/A	Valve Body Only	1	
3	902347	Orifice Plug, 0.025, 5/16"-24UNF Thread, 0.125 Allen Hex Socket	1	
4	902825	Port Plug, 7/16"-20UNF Hex Head	1	
5	9003423	Plug 9/16-18 O-Ring Male w/Hollow Hex Socket	4	
6	902821	Check Valve	1	
	902853	Seal Kit	-	
7	9501428	Flow Regulator	1	
	9500116	Seal Kit	-	
8	902918	Relief Cartridge	1	
	903032	Seal Kit	-	
9	902842	Cartridge Valve, 3/4"-16UNF (3 Position, 4 Way)	3	For Round Coils
	902849	Seal Kit for 3 Position, 4 Way Cartridge Valve	-	
	902813	Coil Nut, 1/2"-20UNF	-	
10	9500131	Cartridge - Proportional 1 1/16"-8UNC Thread	1	
	9500132	Seal Kit	-	
11	9500136	Proportional Coil	1	
12	902811	Round Coil - Electromagnetic	6	For Round Coils
13	902812	Coil Spacer	3	For Round Coils
14	9500600	Seal Kit - Valve Assembly O-Rings	-	
15	9500306	Valve End Cover Assembly without Power Beyond	1	Includes Item #16
16	98048	Hex Plug, 3/4-16 O-Ring Male	1	
17	9390-059	Capscrew, 3/8"-16UNC x 2"	3	
18	9405-074	Flat Washer, 3/8" SAE	3	
19	9504053	Cartridge Valve, 3/4"-16UNF (3 Position, 4 Way)	3	For Square Coils
20	9504052	Square Coil - Electromagnetic	6	For Square Coils

Seed Runner 3955XL & 3955DXL — Parts

Honda Power Pak Components

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

Honda nearest location:
USA: www.engines.honda.com
phone: 1-800-426-7701
Canada: www.honda.ca
phone: 1-888-9HONDA9



Seed Runner 3955XL & 3955DXL — Parts

Honda Power Pak Components

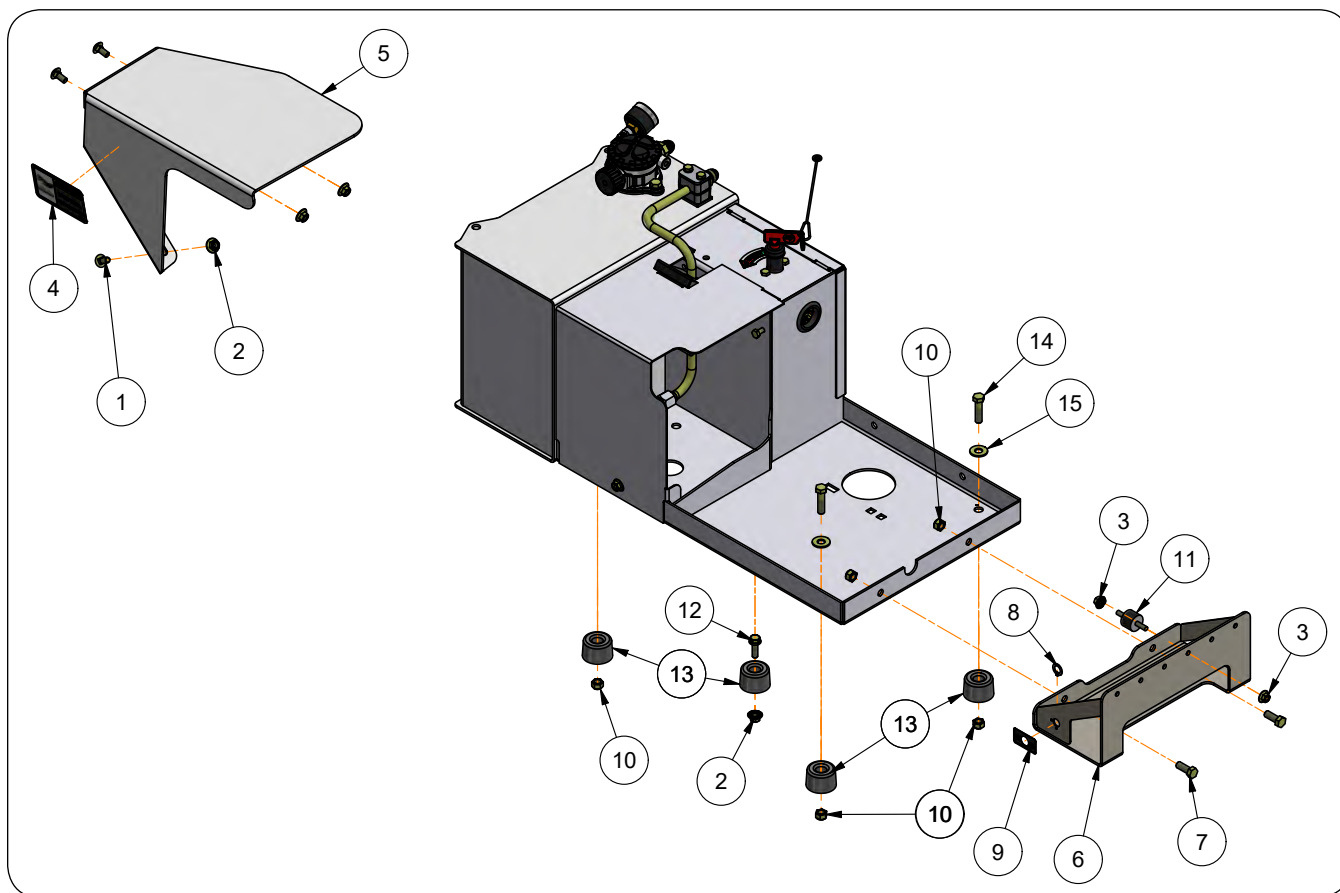
Please visit www.unverferth.com/parts/ for the most current parts listing.

ITEM	PART NO.	QTY	DESCRIPTION
1	2007490B	1	Throttle Bracket
2	2007491B	1	Throttle Vertical Support
3	2009998	1	Engine Harness
4	25508IV	1	Battery Cover
5	25515	1	Pump/Motor Mount Weldment
6	25519	1	Hydraulic Hose 3/4"
7	26823	1	Decal, IMPORTANT (Battery)
8	27163B	1	Strap
9	28664IV	1	Pan Weldment
10	28668IV	1	Pump Shroud
11	28670	1	Flap Seal Trim
12	28671B	1	Battery Hold Down Strap
13	901370	1	Jaw Coupling 5/8" Bore
14	901371	1	Jaw Coupling 1" Bore
15	901372	1	Coupler Insert/Spider
16	-	1	Battery 12-Volt Top Post (Purchase Battery Locally)
17	901379	1	Straight 3/4" Hose ID Insert x 3/4-14 NPTF Male
18	901380	1	90° Elbow 3/4" Hose Insert x 1 1/16-12 O-ring Male
19	901404	1	Battery Cable 14" (Black)
20	901507	1	Decal, IMPORTANT (Close Fuel Valve)
21	901567	2	Internal Lock Washer
22	901694	1	Pump 10 CU (2000RPM)
	903056	-	Key
23	901771	1	Site Gauge Assembly
24	902026	1	Decal, WARNING (Sparks)
25	902275	1	Choke Stay Control
26	902368	1	Ball Joint Quick Disconnect 10-32UNF Threaded Both Ends
27	902892	1	Clamp Body (2-Halves)
28	902893	1	Cover Plate - Clamp
29	902898	1	Hydraulic Steel Line 1/2" OD
30	902910	1	Suction Strainer w/Magnet
31	902915	1	In-Tank Return Filter 9.2GPM
	A 902123	-	Cover
	B 902124	-	Bowl
	C 902905	-	Gasket
	D 902906	-	O-Ring 2 5/16" Dia.
	E 902907	-	O-Ring 1 31/32" Dia.
	F 902911	-	Filter Gauge
	G 902912	-	Filter Replacement
	H 902125	-	Compression Spring
32	9006817	1	Adapter Street 90° Elbow
33	903161-014	2	Flange Screw, 5/16"-18UNC x 1/2" G5
34	91263	4	Large Flange Nut 3/8-16UNC

ITEM	PART NO.	QTY	DESCRIPTION
35	93599	1	90° Elbow 3/4-16 JIC Male x 7/8-14 O-ring Adj. Male
36	9388-053	4	Carriage Bolt 3/8"-16UNC x 1 1/2" (Grade 5)
37	9390-005	2	Capscrew 1/4"-20UNC x 1"
38	9390-007	2	Capscrew 1/4"-20UNC x 1 1/2"
39	9390-055	2	Capscrew 3/8"-16UNC x 1"
40	9390-056	4	Capscrew 3/8"-16UNC x 1 1/4"
41	9394-004	1	Hex Nut 5/16"-18UNC
42	9404-017	2	Lock Washer 1/4"
43	9404-019	1	Lock Washer 5/16"
44	9404-021	6	Lock Washer 3/8"
45	9405-062	2	Flat Washer 1/4" SAE
46	9405-070	1	Flat Washer 5/16" USS
47	9405-074	2	Flat Washer 3/8" SAE
48	94917-038	1	Capscrew M6x16
49	9501669	1	Fluted Knob
50	9502619	1	Battery Disconnect Switch
	9502620	-	Service Key
51	9502623	1	Decal, On/Off Switch
52	9502625	1	Battery Cable 14 13/16" (Red)
53	9502626	1	Batter Cable 14 13/16" (Red)
	901405		Non-Disconnect Cable 18" (Red)
54	9502661	1	Nylon Lanyard 8"
55	9504045	1	Lock Washer, 3/8" Internal/ External Tooth
56	9504048	1	Honda 11.7 Net HP
	903057	-	Key
57	9504051	1	Rectifier
58	9504513	1	Decal, Cold Start Valve
59	97189	2	Large Flange Hex Nut 1/4"-20UNC
60	97420	2	Flange Screw 1/4"-20UNC x 3/4"
61	97489	1	Split Ring 1"
62	98048	1	Plug 3/4-16 O-ring Male w/Hollow Hex Socket
63	9830-016	3	Hex Nut #10-32 (Grade 2)
64	9864	1	Adapter 3/4-16JIC Male x 3/4-16 O-ring Male
65	98830	1	Grommet/Rubber 1 1/4" Dia.
66	9936	2	Locknut 1/4"-20UNC
67	99692	1	O-Ring Plug
68	99888-065	2	Socket Head 3/8"-16UNC x 1 1/2" (Grade 8)
69	TA800912	2	Hose Clamp SAE#16
70	9502847	1	Facenut 0.570" Dia.
71	9502848	1	Locking Ring

Muffler Shield, Relay Mount, & Power Pak Mounting Components

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



Seed Runner 3955XL & 3955DXL — Parts

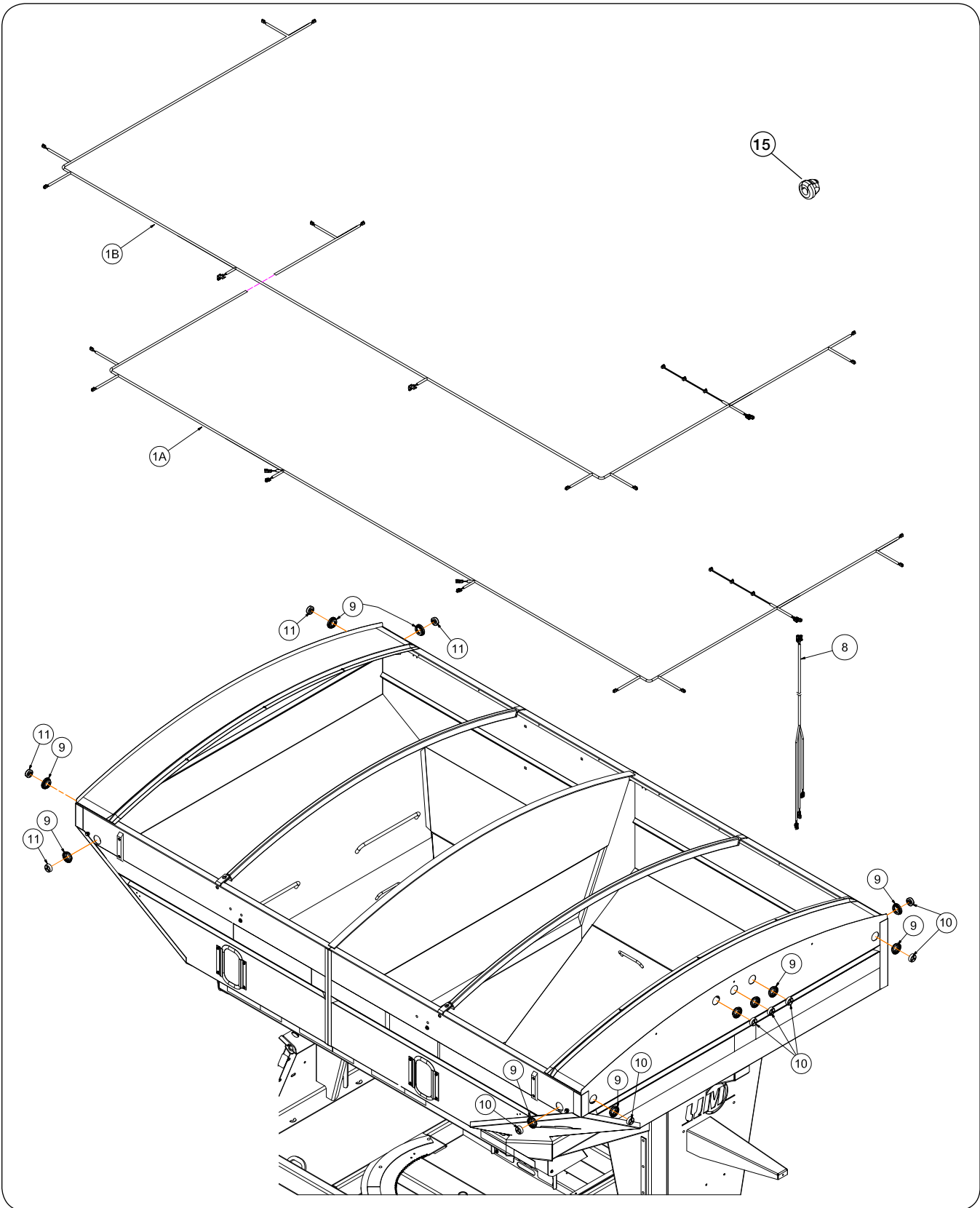
Muffler Shield, Relay Mount, & Power Pak Mounting Components

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

ITEM	PART NO.	DESCRIPTION	QTY	NOTES
1	9388-024	Carriage Bolt 5/16"-18UNC x 3/4"	3	
2	91257	Large Flange Hex Nut 5/16"-18UNC	4	
3	97189	Hex Nut/Large Flange 1/4"-20UNC	4	
4	901929	Decal, CAUTION "Hot Surfaces"	1	
5	2003272IV	Muffler Shield =IVORY WHITE=	1	
6	2005069TS	Relay Mount Weldment =Tan Speckle=	1	
7	9390-055	Capscrew 3/8"-16UNC x 1"	2	
8	9502848	Wiring Harness Lock Ring	1	
9	9504512	Decal, Ignition Override (Horizontal - Shown)	1	
	9503147	Decal, Ignition Override (Vertical)		
10	9928	Locknut 3/8"-16UNC	5	
11	9500067	Isolator	2	
12	901044	Serrated Flange Bolt 5/16"-18UNC x 1"	1	Grade 5
13	901169	Rubber Bumper 1.7" Dia.	4	
14	9390-057	Capscrew 3/8"-16UNC x 1 1/2"	3	Grade 5
15	9405-076	Flat Washer 3/8" USS	3	

Box Electrical Components

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



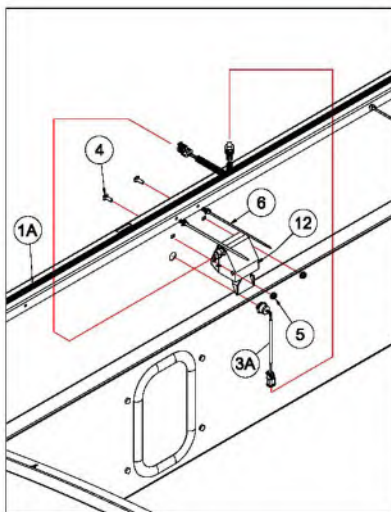
Seed Runner 3955XL & 3955DXL — Parts

Box Electrical Components

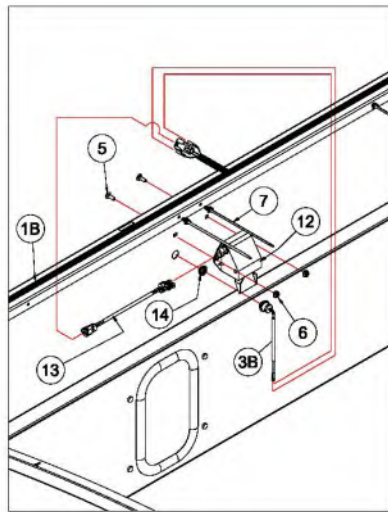
Please visit www.unverferth.com/parts/ for the most current parts listing

ITEM	PART NO.	DESCRIPTION	QTY	NOTES
1A	2007536	Wire Harness Tank Lighting and Indicators	1	
1B	2002091	Wire Harness Tank Lighting and Indicators		
2	2003011TS	Channel	2	
3A	9502267	Red Indicator Light with 2-Pin Deutsch Plug	2	
3B	9502776	Red Indicator Light With Male Bullet Connectors		
4	28804	Proximity Switch Assembly	2	
5	902947	Carriage Bolt 1/4"-20UNC x 3/4 (Stainless Steel)	4	
6	97189	Large Flange Hex Nut 1/4"-20UNC	4	
	9004720	Hex Nut 1/4"-20UNC (Stainless Steel)		
7	99599	Cable Tie (Fir Tree)	24	
8	2002090	Rear Tank Harness	2	
9	900956	Grommet Open Back	9	
10	902218	Light/Red LED (2 prong)	7	
11	902219	Light/Amber LED (2 Prong)	4	
12	9501978	Magnetic Reed Switch	2	
13	2006715	Wiring Harness Adapter	2	
14	9501991	Proximity Sensor Grommets	2	
15	901229	Snap-In Cord Grip Fittings	A/R	

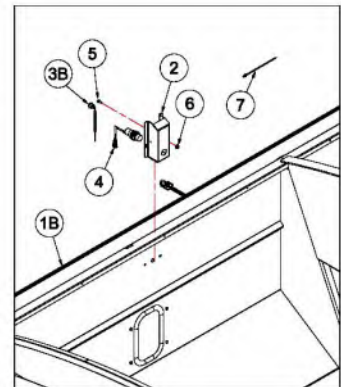
Magnetic Reed Switch & Indicator Light With 2-Pin Deutsch Plug



Magnetic Reed Switch & Indicator Light With Male Bullet Connectors



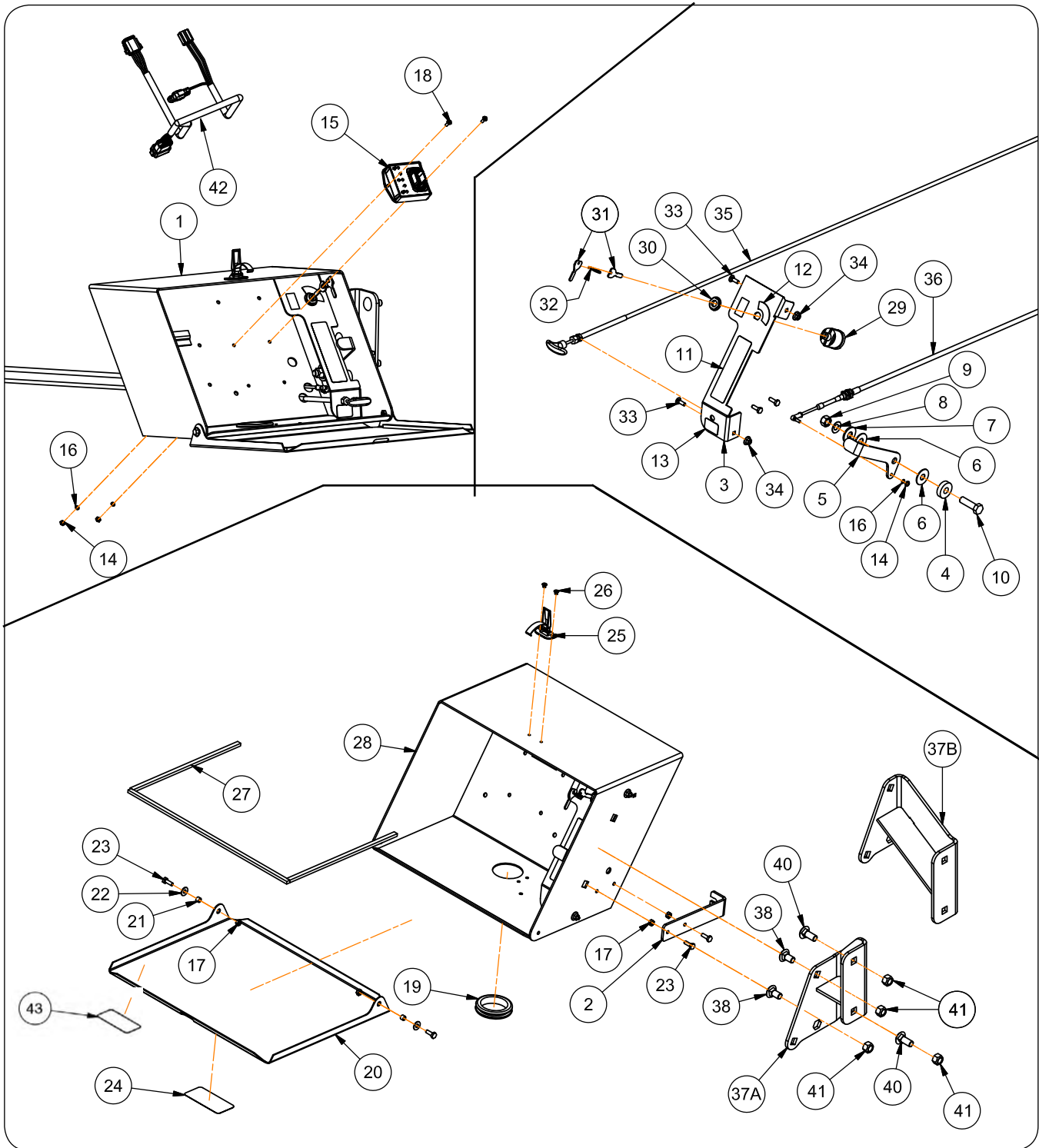
Proximity Switch & Indicator Light With Male Bullet Connectors



Seed Runner 3955XL & 3955DXL — Parts

Enclosure and Master Keyswitch Components

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



Seed Runner 3955XL & 3955DXL — Parts

Enclosure and Master Keyswitch Components

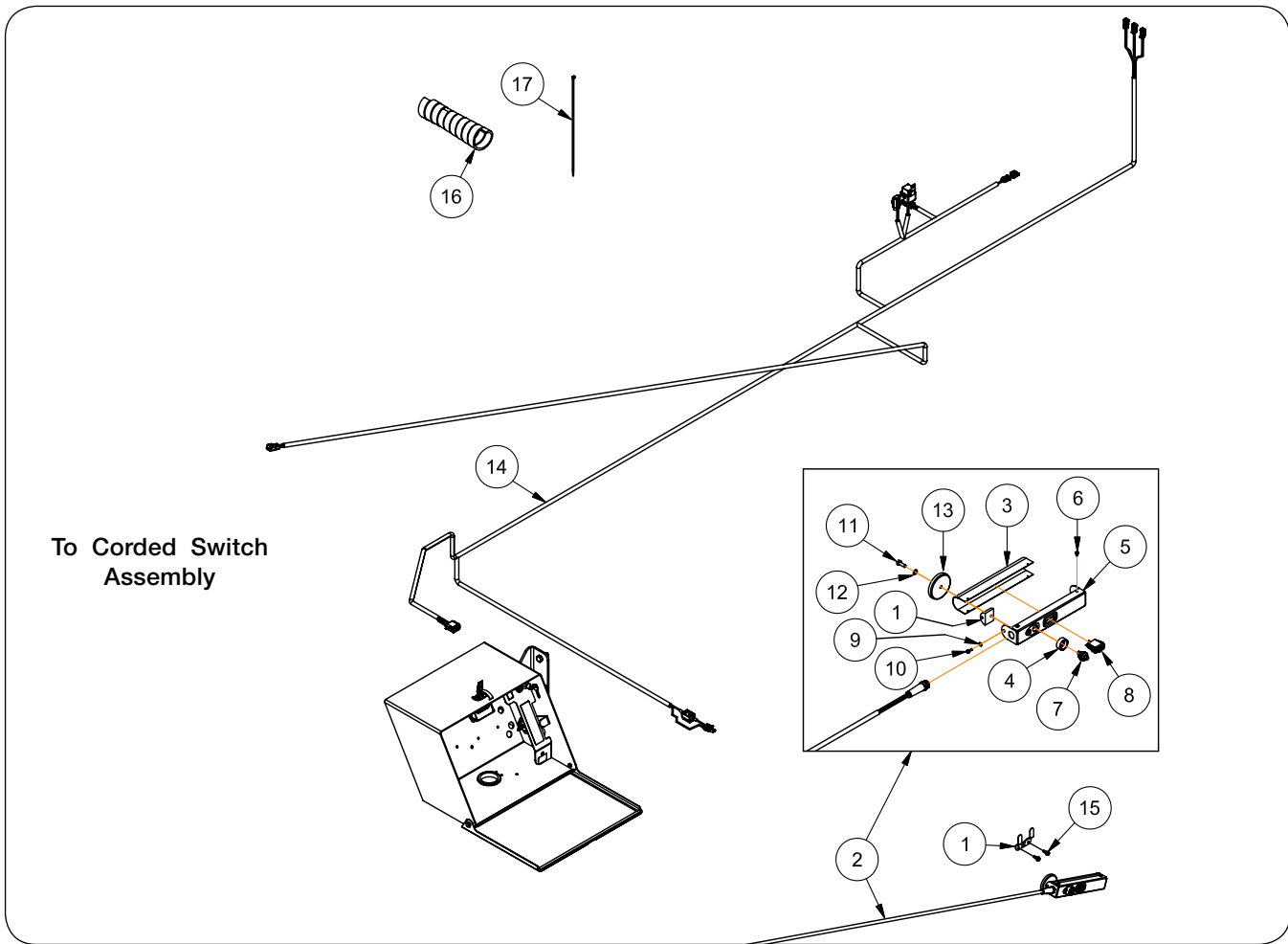
Please visit www.unverferth.com/parts/ for the most current parts listing.

ITEM	PART NO.	DESCRIPTION	QTY	NOTE
1	2003545TS	Enclosure Assembly (2/3 Function)	1	Includes items 2 through 37
2	2002630TS	Cable Mount Bracket	1	
3	2002538TS	Plate-Keyswitch/Throttle/Choke	1	
4	29612	Spacer	1	
5	27134TS	Throttle Lever	1	
6	95236	Nylon Flat Washer	2	Grade 5
7	9405-088	Flat Washer 1/2 USS	1	Grade 5
8	99913	Belleville Washer 1/2"	1	
9	9800	Locknut 1/2"-13UNC	1	
10	9390-101	Capscrew 1/2"-13UNC x 1 1/2"	1	Grade 5
11	902321	Decal-Throttle	1	
12	901811	Keyswitch Decal	1	
13	902322	Decal-Choke	1	
14	9830-016	Hex Nut #10-32UNF	8	Grade 2
15	9501811	Module-Smooth-Start	1	
16	9404-013	Lock Washer #10 (.190)	3	
17	9936	Locknut 1/4"-20UNC	4	
18	903172-343	Screw #10-32UNF x 1/2" Pan Head Phillips	2	
19	901334	Grommet 1/4W x 2 1/2D Groove	1	
20	2002539TS	Cover	1	
21	22018	Bushing	2	
22	9405-064	Flat Washer 1/4 USS	2	Grade 2
23	9390-003	Capscrew 1/4"-20UNC x 3/4"	4	Grade 5
24	97961	Decal Warning "Operator Man"	1	
25	9220	Draw Latch	1	
26	9003503	Rivet 3/16 x 1/4	2	
27	900152	Foam Strip	3	
28	2002540TS	Remote Enclosure Weldment	1	
29	901720	Ignition Switch	1	
30	901719	Nut - Keyswitch	1	
31	901718	Key	2	
32	97489	Split Ring 1"	1	
33	9388-002	Carriage 1/4"-20UNC x 3/4"	2	Grade 5
34	97189	Hex Nut/Lrg Flg 1/4"-20UNC	2	
35	902274	Choke Cable	1	
36	902273	Control Cable	1	
37A	2004988TS	Scale Enclosure Bracket	1	For Conveyor With Control Valve
37B	2009578TS	Scale Enclosure Bracket		For Conveyor Less Control Valve
38	9388-102	Carriage 1/2"-13UNC x 1"	1	Grade 5
39	9390-099	Capscrew 1/2"-13UNC x 1 "	1	Grade 5
40	9390-100	Capscrew 1/2"-13UNC x 1 1/4"	2	Grade 5
41	9800	Locknut 1/2"-13UNC	4	
42	2002130	Non-Scale Front Wiring Harness	1	
	2002132	Common Scale Front Wiring Harness	1	
	9504482	Transient Suppression Diode Plug	1	
43	9504521	Decal, Transient Voltage Suppression Diode	1	

Seed Runner 3955XL & 3955DXL — Parts

2-Function Electrical Components

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

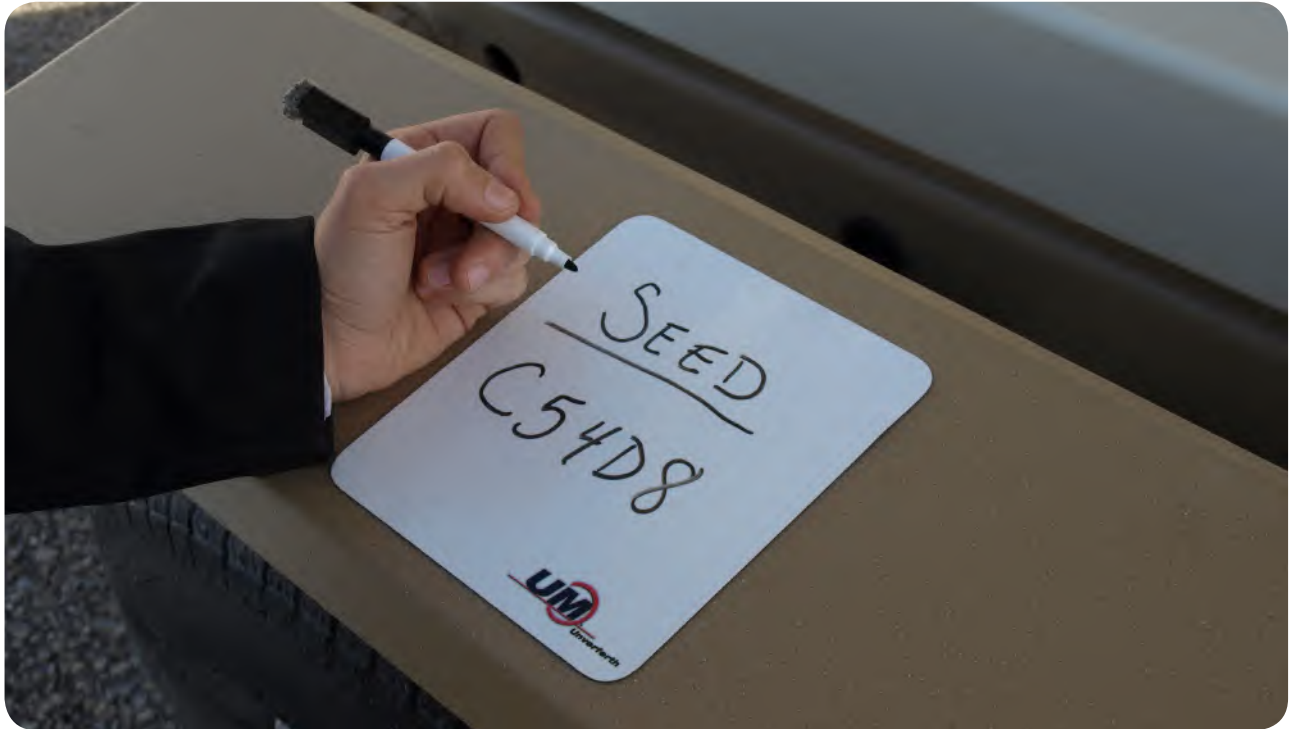


ITEM	PART NO.	DESCRIPTION	QTY	NOTES
1	26505	Switch Retainer	1	Stainless Steel
2	27627	Corded Switch Assembly 194"	1	Includes items 3-13
3	26336	Switch Bottom Plate	1	
4	26906	Bottom Switch Surround	1	
5	2002158	Switch Cover	1	
6	901853	Pan Head Screw #8 x 3/8	4	Self-Tapping
7	901857	Push Button Switch	1	
8	901858	Rocker Switch 16AMP	1	
9	901859	Lock Washer/Internal #8	1	
10	901898-014	Round Head #8-32UNC x 1/2	1	
11	9390-003	Capscrew 1/4"-20UNC x 3/4	1	
12	9404-017	Lock Washer 1/4	1	
13	97959	Magnet	1	
14	2002519	Standard Corded Control Harness	1	
15	9473	Self Drilling Screw 1/4-14 x 3/4	2	
16	9004075	Spiral Hose Wrap	3	Specified in Feet
17	94037	Cable Tie 15 1/2"	12	
	94038	Cable Tie 32"	8	

Seed Runner 3955XL & 3955DXL — Parts

Dry Erase Set

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

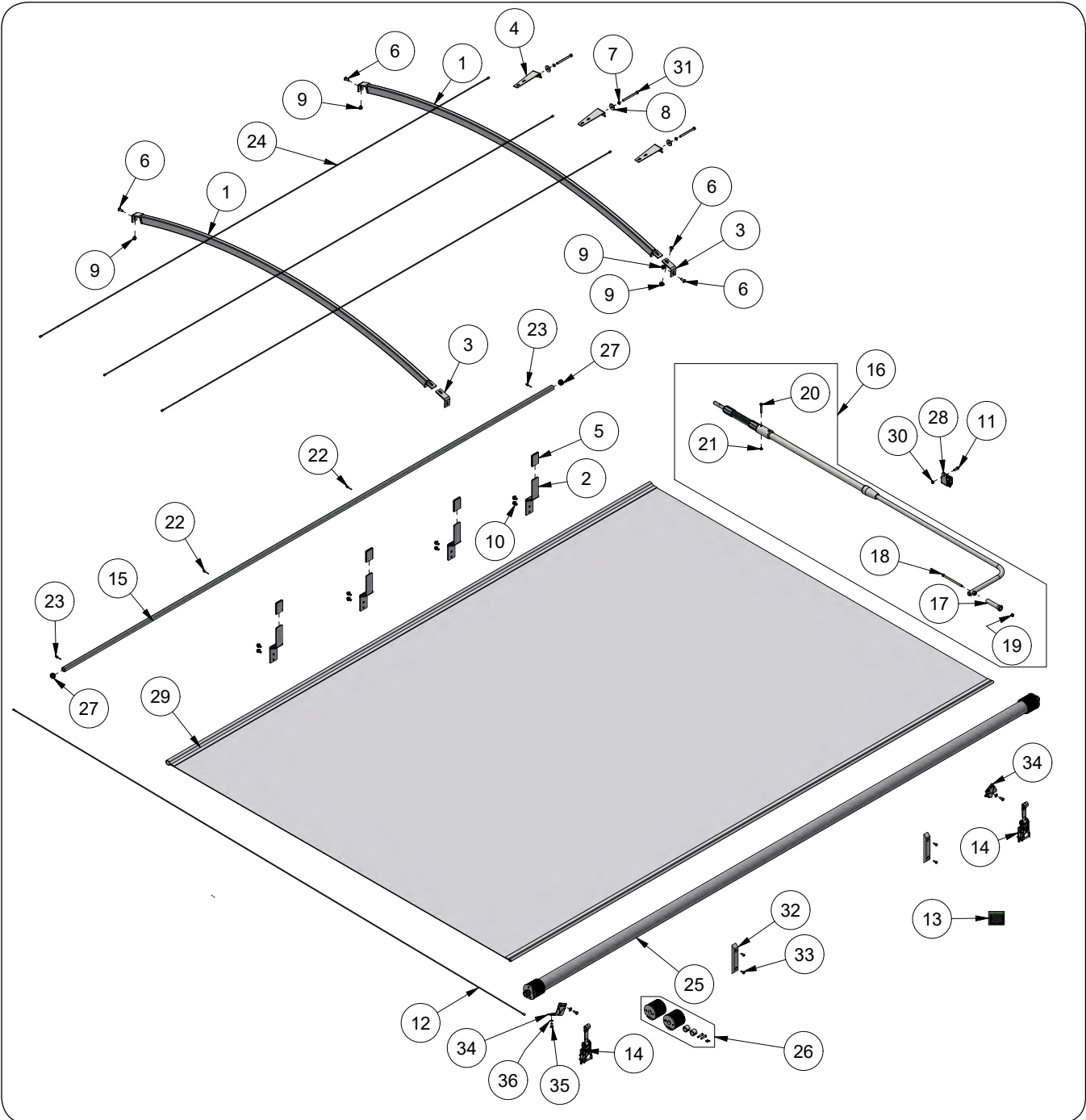


ITEM	PART NO.	DESCRIPTION	QTY	NOTES
1	9500337	Dry Erase Set	1	Includes two magnets and a pen

Seed Runner 3955XL & 3955DXL — Parts

Cable Return Tarp System Components Serial Number D69140100 & Up

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



Seed Runner 3955XL & 3955DXL — Parts

Cable Return Tarp System Components Serial Number D69140100 & Up

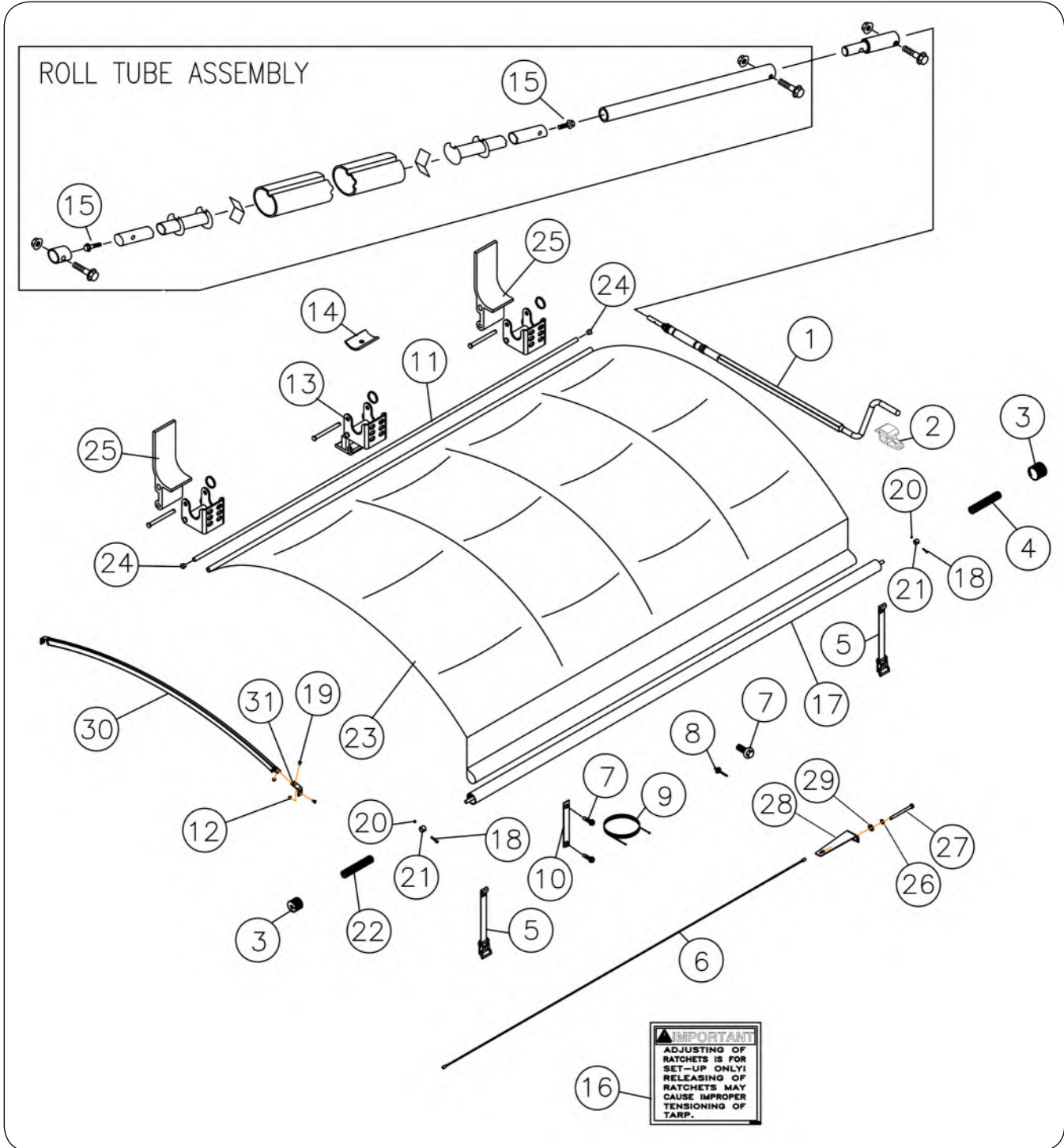
Please visit www.unverferth.com/parts/ for the most current parts listing.

ITEM	PART NO.	DESCRIPTION	QTY	NOTES	
	9504081	Complete Tarp - Models 3755/3755XL	-	Includes Items 12-16, 22-25, 27-29	
1	2011153TS	Tarp Bow Weldment	2		
2	2011539B	Tarp Stop	4		
3	251122B	Sideboard Tarp Bow Bracket	2		
4	281711B	Bracket 12GA x 2 1/2 x 8 1/4	3		
5	9003078	Plastic Cap	4		
6	9005312	Truss Head 3/8-16UNC x 1	6		
7	9005688	Lock Washer/Ext Tooth 3/8	3		
8	9005696	Washer 3/8"	3		
9	91263	Large Flange Hex Nut 3/8-16UNC	6		
10	93649	Flange Screw, 3/8"-16UNC x 3/4"	8		
11	9390-055	Capscrew, 3/8"-16UNC x 1" G5	1		
12	105828	Roll Tarp Cable	1		
13	105876	Decal, Important (Adjusting Ratchet)	1		
14	106042	Ratchet w/ Strap	2		
15	2005077	Stationary Tube	1		
16	9003249	Crank Handle w/ Flexible Shaft	1	Includes Items 17-21	
	17	9503015	Handle Grip	1	
	18	9390-071	Capscrew, 3/8"-16UNC x 6" G5	1	
	19	9398-011	Elastic Lock Nut, 3/8"-24UNF	1	
	20	9390-035	Capscrew, 5/16"-18UNC x 2 1/4" G5	1	
	21	9398-010	Elastic Lock Nut, 5/16"-18UNC	1	
22	9003502	Pop Rivet 3/16" x 1/8"	2		
23	9003503	Pop Rivet 3/16" x 1/4"	2		
24	902612	Tarp Cable	3		
25	9504387	Roll Tube	1		
26	9503121	Spool Replacement Kit (Includes Cotter Pins, Clevis Pins, Spacers, LH Spool & RH Spool)	1		
27	9501879	Plug 1 3/16"	2		
28	9503008	Tube Holder Sub Assembly	1		
29	9504193	Tarp Fabric	1		
	9005581	Tarp Repair Kit	-		
30	9928	Lock Nut/Top, 3/8"-16UNC	1		
31	TA0-907131-0	Capscrew 3/8"-16UNC x 4 1/2 GR5	3		
32	9005307	Poly Strip 1 1/4 x 8	2		
33	97420	Flange Screw, 1/4"-20UNC x 3/4" G5	4		
34	2010981	Cable Rest Bracket	2		
35	9390-053	Capscrew, 3/8"-16UNC x 3/4" G5	4		
36	9405-074	Flat Washer, 3/8" SAE	4		

Seed Runner 3955XL & 3955DXL — Parts

Cable Return Tarp System Components Serial Number D69140099 & Lower

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



Seed Runner 3955XL & 3955DXL — Parts

Cable Return Tarp System Components Serial Number D69140099 & Lower

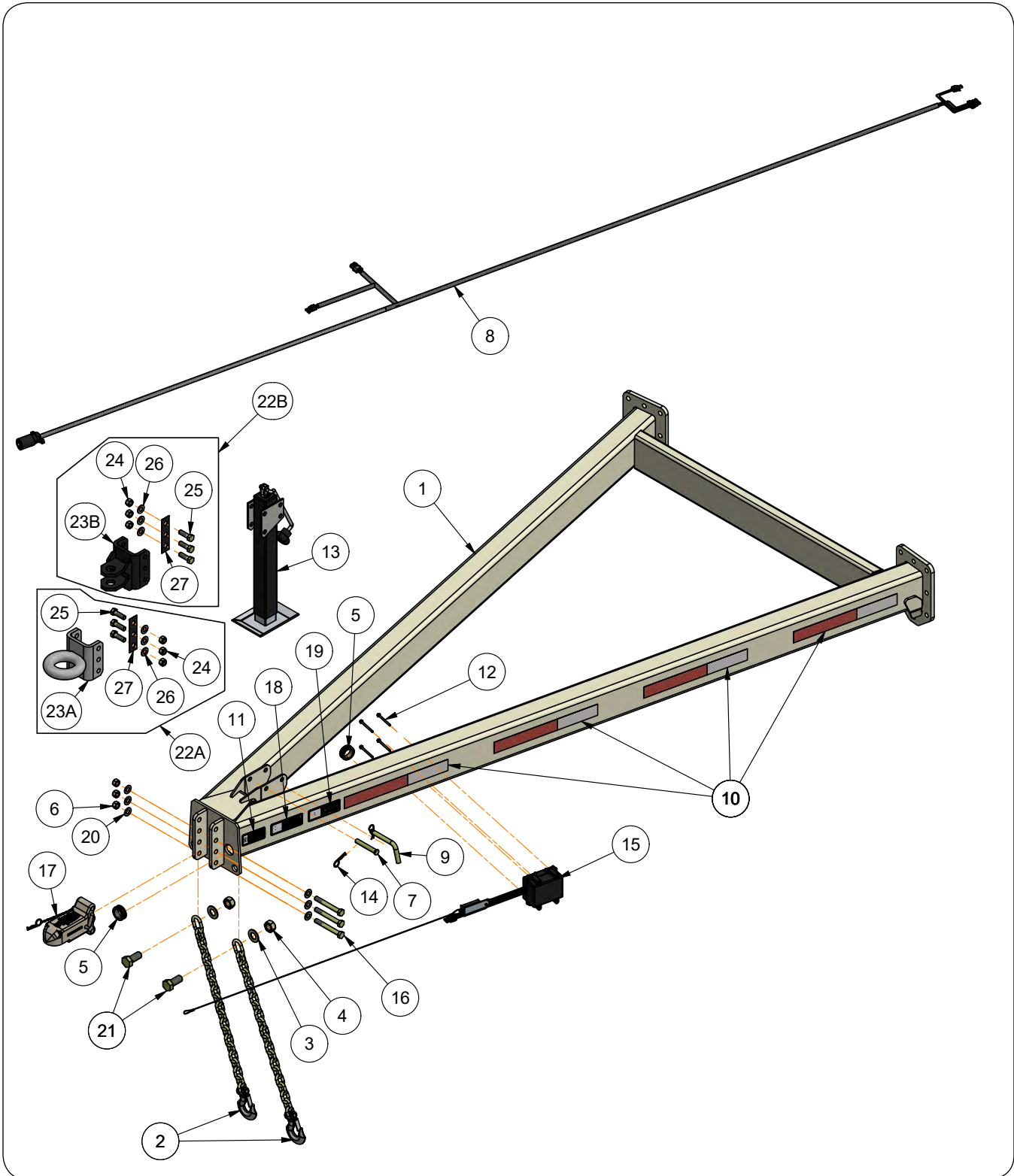
Please visit www.unverferth.com/parts/ for the most current parts listing.

ITEM	PART NO.	DESCRIPTION	QTY	NOTES
	9501302	Complete Tarp	1	
1	9003249	Crank Handle w/Flexible Shaft Assembly	1	
2	9503008	Clamp	1	
	9390-053	Capscrew, 3/8"-16UNC x 3/4" G5	1	
	9928	Lock Nut/Top, 3/8"-16UNC	1	
3	9503121	Nylon Spool/RIGHT & LEFT	1	
4	105826	Spring - RED	1	
5	106042	Ratchet w/ Strap	2	
6	902612	Tarp Cable	3	
7	97420	Screw/Self-Drilling 1/4"-20UNC x 3/4"	4	
8	9003502	Pop Rivet 3/16" x 1/8"	2	
	9003503	Pop Rivet 3/16" x 1/4"	2	
9	105828	Roll Tarp Cable	1	
10	9005307	Poly Strip 1 1/4" x 8"	2	
11	2005077	Stationary Tube	1	
12	91263	Large Flange Hex Nut 3/8-16UNC	6	
13	9501876	Tarp Bracket / Quick Release w/Hardware	1	
14	901525	Tarp Tube Stop	3	
15	9003086	Hardware Bag (Includes Bolts)	1	
16	105876	Decal, Important (Adjusting Ratchet)	1	
17	9501527	Roll Tube	1	Includes Items 3, 12, 18, 19, 20, 21
18	9390-008	Capscrew 1/4"-20UNC x 1 3/4	1	Grade 5
19	9005312	Truss Head 3/8-16UNC x 1	6	
20	9936	Locknut 1/4"-20UNC	2	
21	105998	Nylon Coupler (Includes Bolt & Nut)	2	
22	105894	Tarp Spring / Left - Yellow	1	
23	9501304	Tarp Fabric	1	
	9005581	Tarp Repair Kit	-	
24	9501879	Plug 1 3/16"	2	
25	901525	Quick Release Stop (Tall Leg) w/Mounting Bracket & Hardware	2	
26	9005688	Lock Washer/Ext Tooth 3/8	3	
27	TA0-907131-0	Capscrew 3/8"-16UNC x 4 1/2 GR5	3	
28	281711B	Bracket 12GA x 2 1/2 x 8 1/4	3	
29	9005696	Washer 3/8"	3	
30	2001490TS	Tarp Bow Weldment	2	
31	251122B	Sideboard Tarp Bow Bracket	2	

Seed Runner 3955XL & 3955DXL — Parts

Undercarriage Bumper Hitch Components

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



Seed Runner 3955XL & 3955DXL — Parts

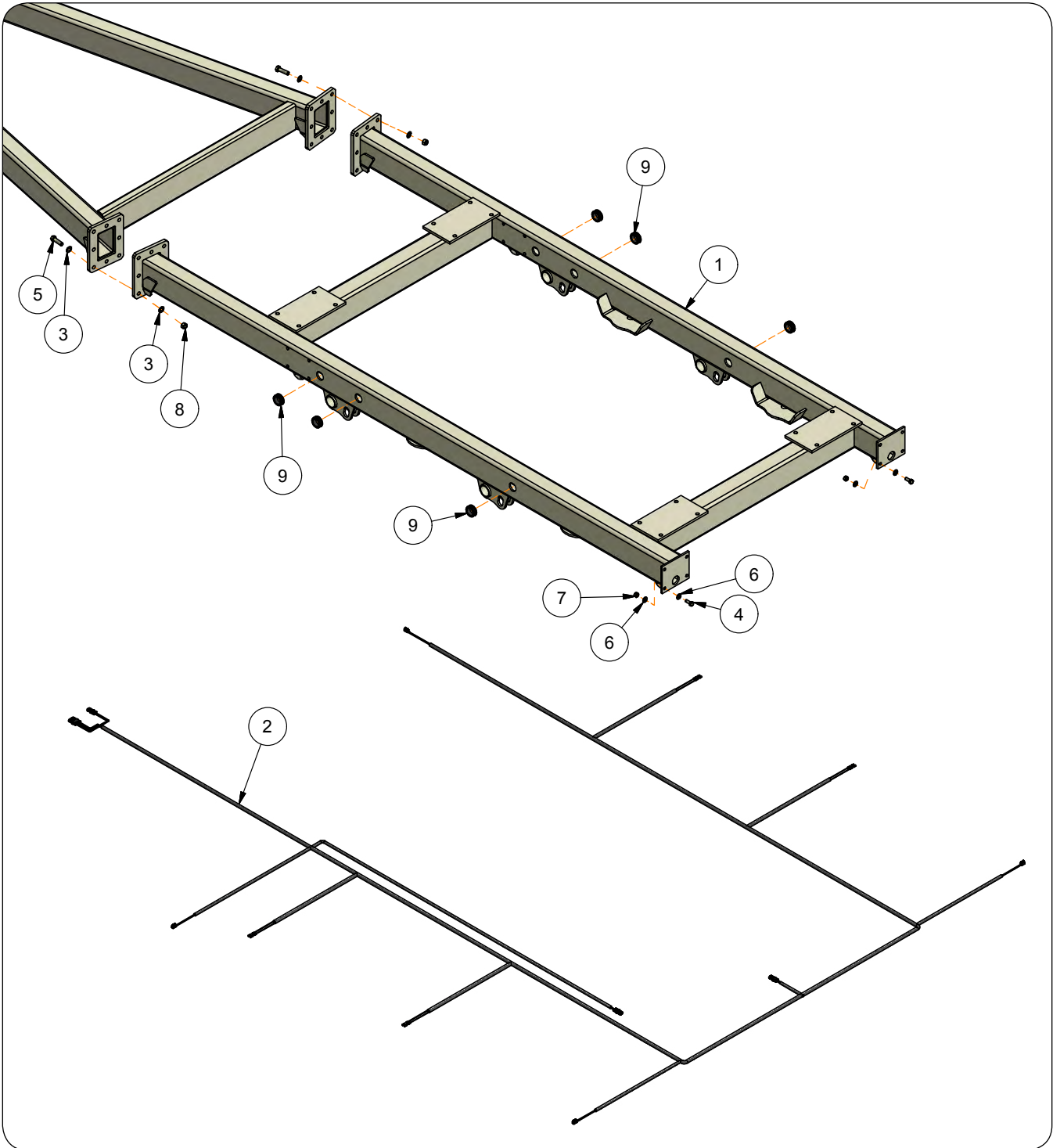
Undercarriage Bumper Hitch Components

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

ITEM	PART NO.	DESCRIPTION	QTY	NOTES
1	2009899TS	Hitch 10' Axle Undercarriage Assembly	-	=Tan Speckle= Includes Items 2 through 21
2	98792	Chain Transport	2	
3	9405-116	Flat Washer 1"	2	
4	9663	Locknut 1"-8UNC	2	
5	98487	Grommet	2	
6	9801	Locknut 5/8"-11UNC	3	
7	9805	Clevis Pin 5/8" Dia. x 4"	1	
8	25045	Front Wiring Harness	1	
9	84979	Bend Pin 5/8" Dia.	1	
10	25003	Conspicuity Marking	8	
11	97961	Decal, WARNING "Read and Understand Operator's Manual"	1	
12	902238	Flange Bolt, 1/4"-20UNC x 3"	4	Grade 5
13	902326	Jack Stand Weldment 8000#	1	
	902099	Jack Handle & Mounting Hardware	-	
14	9806	Hairpin Cotter	1	
15	-	Electric Breakaway Kit	1	See page 5-46
16	9390-134	Capscrew 5/8"-11UNC x 5"	3	Grade 5
17	9500289TS	Standard Hitch (2 5/16" Ball) w/Grease Zerk	1	=Tan Speckle= (25000#)
	2000357TS	Standard Hitch Kit (2 5/16" Ball)	-	Includes Hitch & Items 6, 16 & 18
	91160	Grease Zerk	1	
18	9500345	Decal, CAUTION "Unhitching of Trailer..."	1	
19	9500710	Decal, CAUTION "Always Use Transport Chains..."	1	
20	9405-098	Flat Washer 5/8" SAE	6	
21	91299-184	Capscrew 1"-8UNC x 2 1/4"	2	Grade 8
22A	2000265B	Pintle Hitch Kit (Option)	-	Includes Items 23A & 24 Through 27
22B	2000264B	Clevis Hitch Kit (Option)	-	Includes Items 23B & 24 Through 27
23A	24948B	Pintle Hitch Weldment (Option)	1	
23B	28475B	Clevis Hitch (Option)	1	Recommend using 1" Dia. Hitch Pin
24	9801	Locknut 5/8"-11UNC	6	
25	9390-124	Capscrew 5/8"-11UNC x 2"	6	Grade 5
26	9405-098	Flat Washer 5/8" SAE	6	
27	25347B	Hitch Shim	1	

Undercarriage Frame Components

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



Seed Runner 3955XL & 3955DXL — Parts

Undercarriage Frame Components

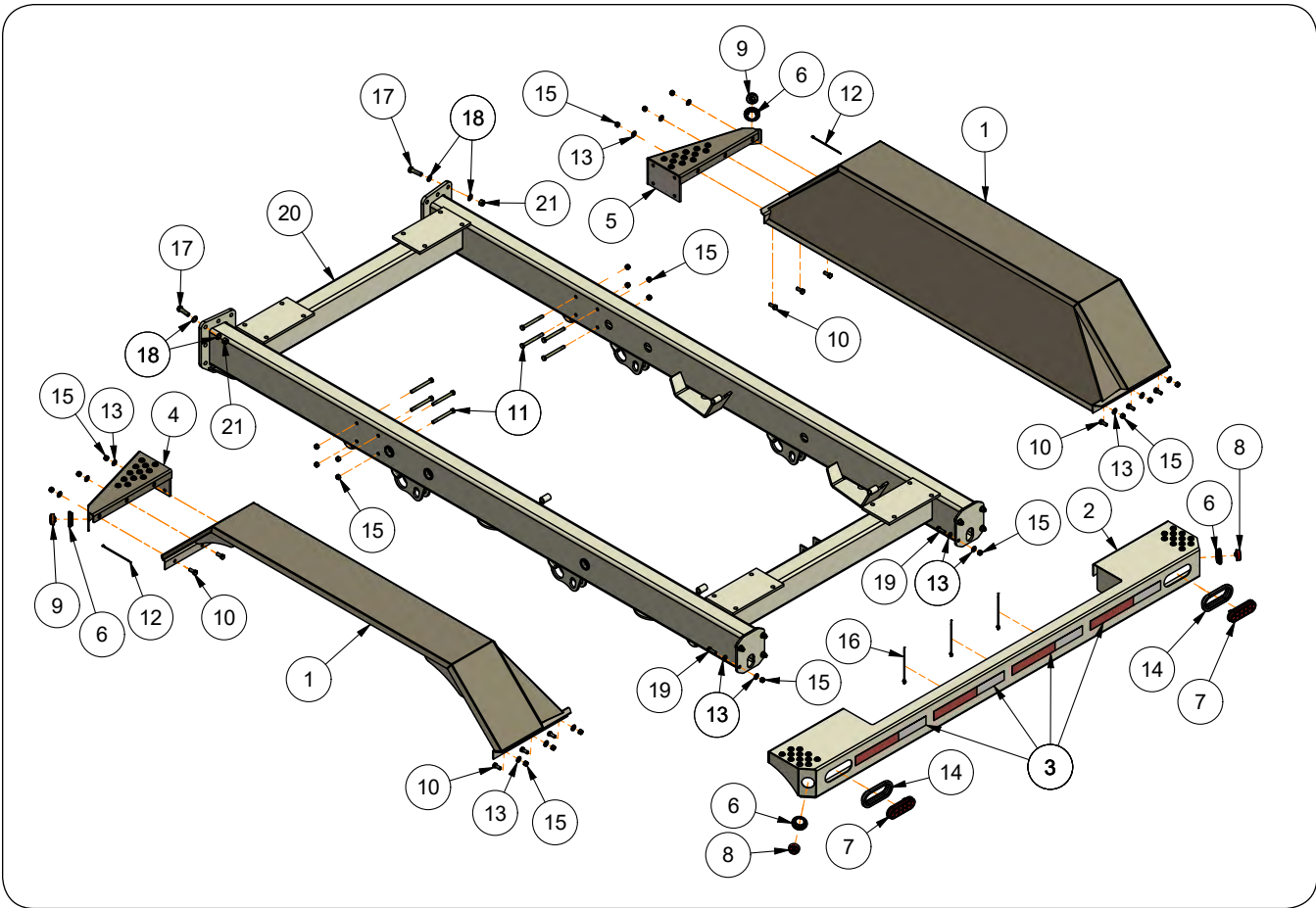
Please visit www.unverferth.com/parts/ for the most current parts listing.

ITEM	PART NO.	DESCRIPTION	QTY	NOTES
1	2009890TS	Tandem Axle Undercarriage Weldment	1	=Tan Speckle=
2	2005416	Undercarriage Wire Harness	1	
3	903108	Flat Washer 5/8"	32	Stainless Steel
4	9390-101	Capscrew 1/2"-13UNC x 1 1/2"	8	Grade 5
5	9390-125	Capscrew 5/8"-11UNC x 2 1/4"	16	Grade 5
6	9405-086	Flat Washer 1/2" SAE	16	
7	9800	Locknut 1/2"-13UNC	8	Grade 5
8	9801	Locknut 5/8"-11UNC	16	Grade 5
9	98487	Grommet 1 3/4" Dia.	6	

Seed Runner 3955XL & 3955DXL — Parts

Undercarriage Fender Components

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



Seed Runner 3955XL & 3955DXL — Parts

Undercarriage Fender Components

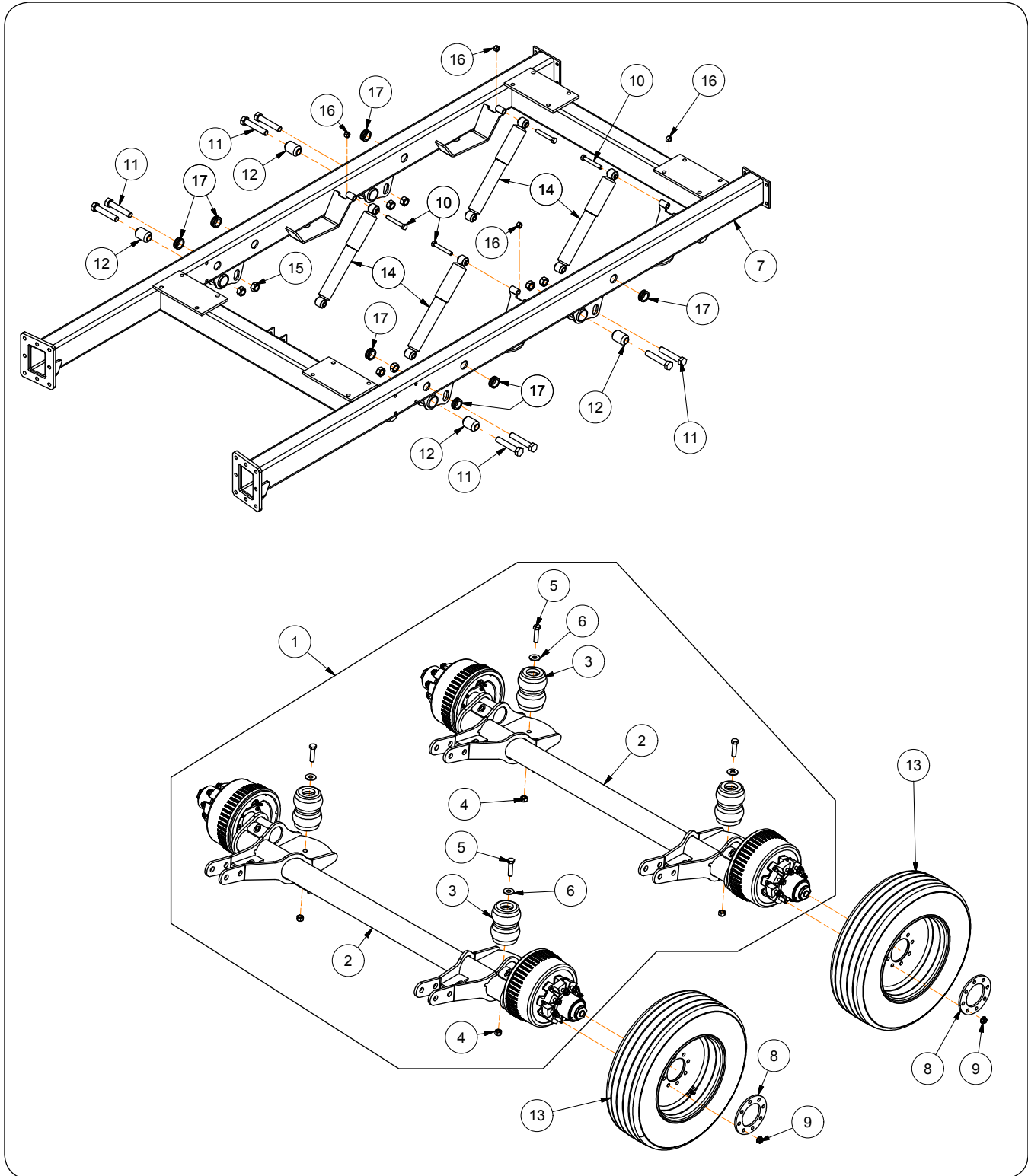
Please visit www.unverferth.com/parts/ for the most current parts listing.

ITEM	PART NO.	DESCRIPTION	QTY	NOTES
1	2004422TS	Fender Weldment =Tan Speckle=	2	For Serial Number D65910099 & Below
	2009278TS	Fender Weldment =Tan Speckle=	2	For Serial Number D65910100 & Up
2	2004447TS	Light Bar Weldment =Tan Speckle=	1	
3	25003	Conspicuity Marking 11"Red/7"White	4	
4	29237TS	Fender LH Bracket Weldment =Tan Speckle=	1	
5	29238TS	Fender RH Bracket Weldment =Tan Speckle=	1	
6	900956	Open - Back Grommet	4	
7	902217	Light/Red LED (3 Prong)	2	
8	902218	Light/Red LED (2 Prong)	2	
9	902219	Light/Amber LED (2 Prong)	2	
10	9390-100	Capscrew 1/2"-13UNC x 1 1/4" G5	12	
11	9390-113	Capscrew 1/2"-13UNC x 5" G5	8	
12	9000106	Cable Tie 7 1/2" Long	2	
13	9405-086	Flat Washer 1/2" SAE	28	
14	97182	Grommet for Panel Light	2	
15	9800	Locknut 1/2"-13UNC	28	Grade 5
16	99599	Cable Tie - Fir Tree 8" Long	3	
17	9390-125	Capscrew, 5/8"-11UNC x 2 1/4" G5	16	
18	903108	Flat Washer, 5/8"	32	
19	9390-101	Capscrew, 1/2"-13UNC x 1 1/2" G5	8	
20	2009890TS	Tandem Axle Undercarriage Weldment	1	=Tan Speckle=
21	9801	Lock Nut/Top 5/8"-11UNC	24	

Seed Runner 3955XL & 3955DXL — Parts

Axle Undercarriage & Wheel Components

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



Seed Runner 3955XL & 3955DXL — Parts

Axle Undercarriage & Wheel Components

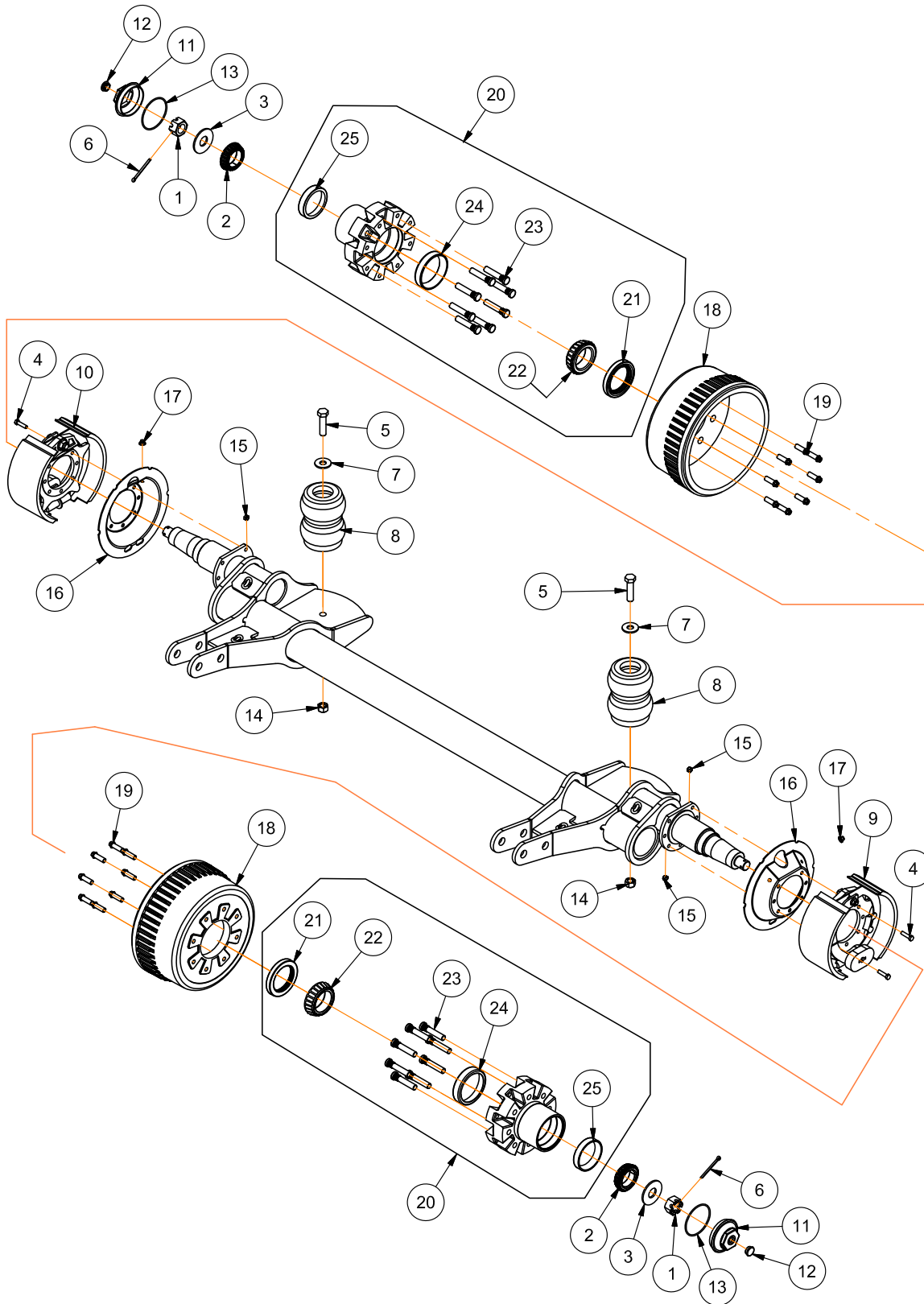
Please visit www.unverferth.com/parts/ for the most current parts listing.

ITEM	PART NO.	DESCRIPTION	QTY	NOTES
1	2004615B	Axle Assembly	2	=Black= Includes Items 2-6
2	2004610B	Axle Weldment	1	
3	9501496	Rubber Bumper	2	
4	9802	Lock Nut/Top 3/4"-10UNC	2	Grade 5
5	9390-149	Capscrew 3/4"-10UNC x 3"	2	Grade 5
6	9405-106	Flat Washer 3/4" USS	2	
7	2009890TS	Tandem Axle Undercarriage Weldment	1	=Tan Speckle=
8	2005501	Reinforcing Ring	4	
9	9002237	Flange Nut 5/8"-18UNC	32	Grade 8
10	9390-133	Capscrew 5/8"-11UNC x 4 1/2"	8	
11	9390-194	Capscrew 1"-8UNC x 5 1/2"	8	Grade 5
12	9501134	Rubber Covered Spring Eye Bushing	4	
13	9501425	Wheel/Tire 6.75x17.5 / ST235/75R17.5	4	
	9502995	Wheel/Tire 8.25x19.5 / 285/70R19.5 (Optional)		
14	9502057B	Shock Absorber	4	
15	9663	Lock Nut/Top 1"-8UNC	8	Grade 5
16	9801	Lock Nut/Top 5/8"-11UNC	24	
17	98487	Grommet	7	
18	9800	Lock Nut/Top, 1/2"-13UNC	28	
19	9390-125	Capscrew, 5/8"-11UNC x 2 1/4" G5	16	
20	903108	Flat Washer, 5/8"	32	
21	9390-113	Capscrew, 1/2"-13UNC x 5" G5	8	

Seed Runner 3955XL & 3955DXL — Parts

Axle Assembly Components

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



Seed Runner 3955XL & 3955DXL — Parts

Axle Assembly Components

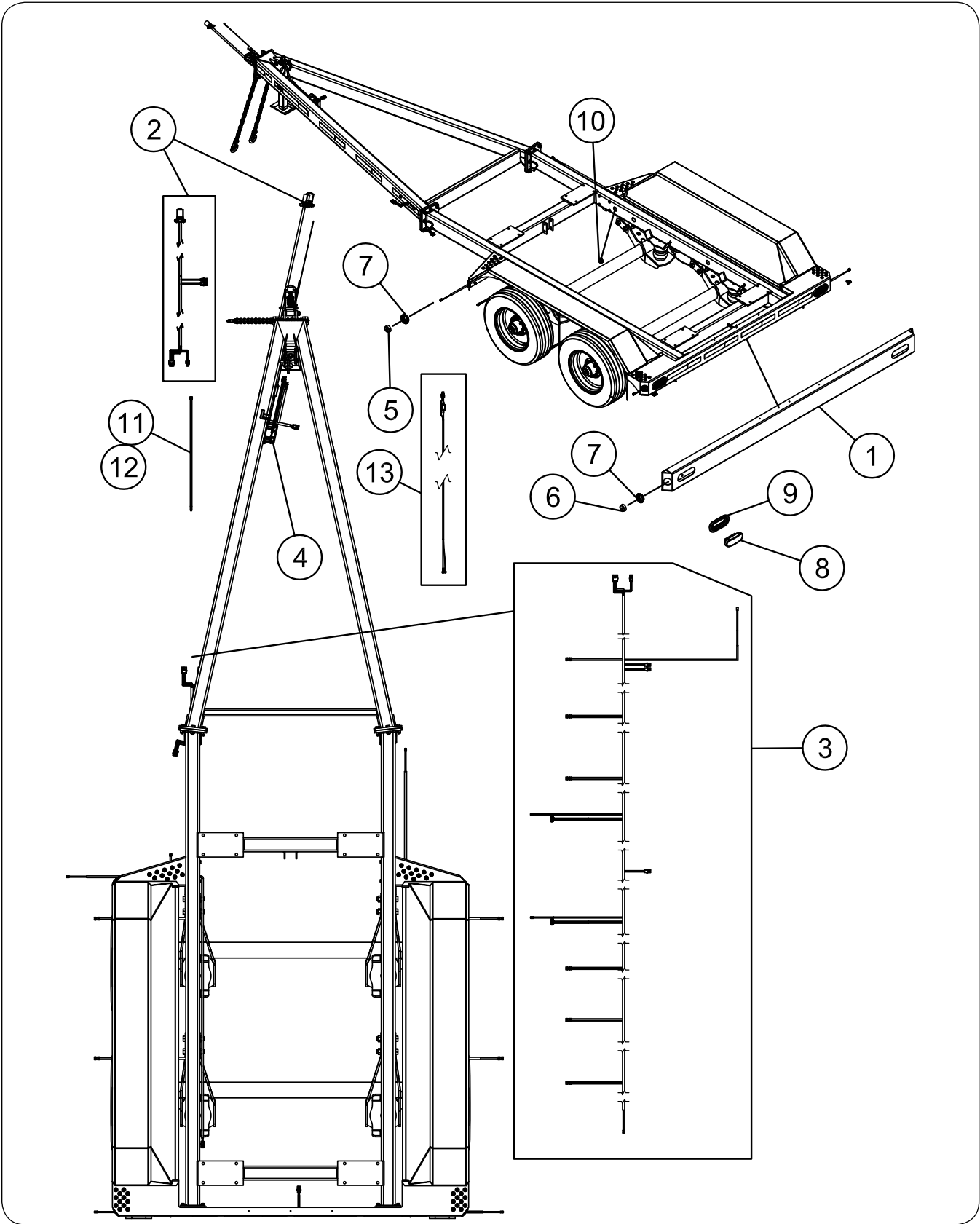
Please visit www.unverferth.com/parts/ for the most current parts listing.

ITEM	PART NO.	DESCRIPTION	QTY	NOTES
-	2004615B	Axle Assembly =Black=	2	Includes Items 1 through 25
1	9002721	Slotted Nut 1 1/4-12UNF	2	
2	9007498	Bearing Cone 2 1/4" ID	2	
3	92471	Spindle Washer 3 1/4" OD	2	
4	9390-057	Capscrew 3/8"-16UNC x 1 1/2"	14	Grade 5
5	9390-149	Capscrew 3/4"-10UNC x 3"	2	Grade 5
6	9391-062	Cotter Pin 1/4" Dia. x 3	2	
7	9405-106	Flat Washer 3/4" USS	2	
8	9501496	Rubber Bumper	2	
9	9501517	Electric Brake Cluster LH	1	
10	9501518	Electric Brake Cluster RH	1	
11	9501519	Oil Cap	2	
12	9501520	Oil Plug	2	
13	9501521	O-Ring	2	
14	9802	Locknut 3/4"-10UNC	2	Grade 5
15	9928	Locknut 3/8"-16UNC	14	Grade 5
16	9501860	Dust Shield	2	
17	9501964	Rubber Grommet	2	
18	9501556	Brake Drum 14"	2	
19	9501557	Drum Mounting Bolt 1/2"-13UNC x 1 1/2" G8	16	
20	2007839	Hub, Cone & Seal Assembly	2	Includes Items 21 through 25
21	9501476	Oil Seal	2	
22	101551	Bearing Cone 2 5/8" ID	2	
23	9501555	Wheel Stud 5/8"-18UNF x 3.16"	16	
24	93819	Bearing Cup 4 7/16" OD	2	
25	9501473	Bearing Cup 3.844" OD	2	

Seed Runner 3955XL & 3955DXL — Parts

Undercarriage Electrical Components

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



Seed Runner 3955XL & 3955DXL — Parts

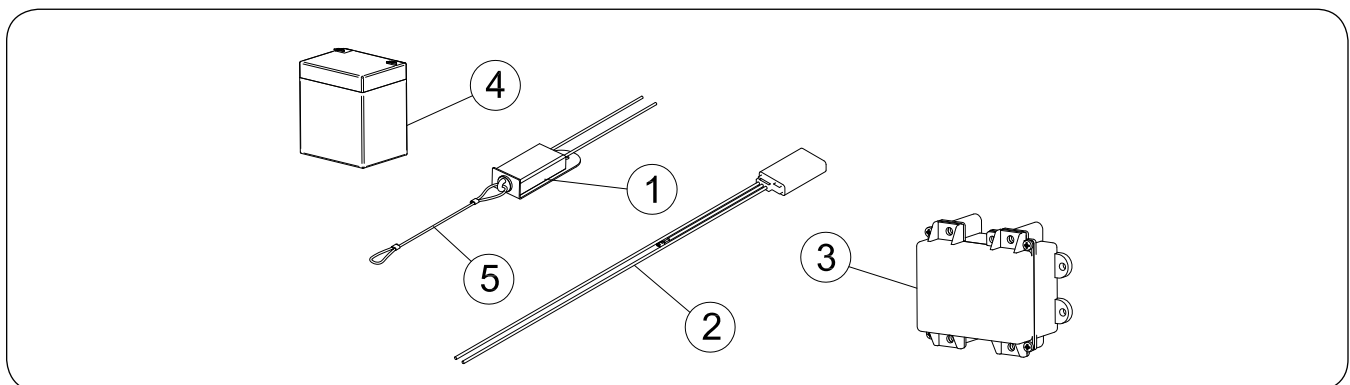
Undercarriage Electrical Components

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

ITEM	PART NO.	DESCRIPTION	QTY	NOTES
1	25790TS	Light Bar Weldment w/Decals	1	For Service Only
	25003	Conspicuity Marking 18"	4	
2	25045	Wiring Harness - 165" Front	1	Includes Undercarriage Connector
	900623	Undercarriage Connector/7 Way Male Body/Female Contacts	-	
3	2005416	Wiring Harness - 352" Rear	1	
4	-	Electric Breakaway Kit	-	See Below
5	902219	Light/Amber LED (2 Prong)	3	
6	902218	Light/Red LED (2 Prong)	6	
7	900956	Grommet Open Back	9	
8	902217	Light/Red LED (3 Prong)	2	
9	97182	Grommet for Panel Light	2	
10	98487	Grommet 1 3/8" Dia.	9	
11	94038	Cable Tie 32" Long	A/R	
12	99599	Cable Tie 8.39" Long	A/R	Fir Tree Mount
13	29410	Battery Charging Wiring Harness	1	

Electric Breakaway Components

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

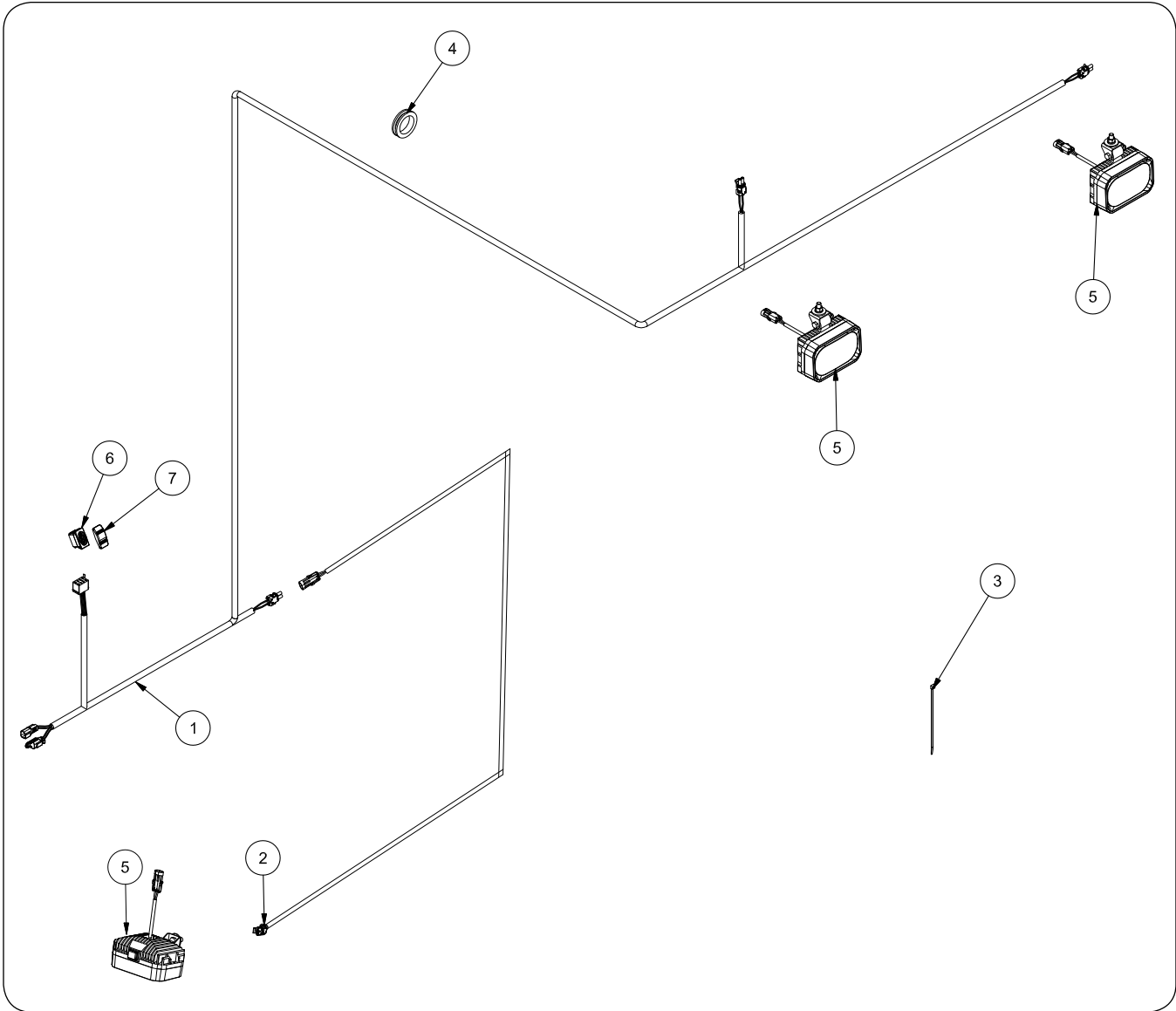


ITEM	PART NO.	DESCRIPTION	QTY	NOTES
1	900786	Breakaway Electric Switch w/Pull Pin	1	
2	900787	Battery 12V Charger	1	
3	902179	Battery Box w/Decals	1	
4	900789	Battery 12V Rechargeable	1	5.0 AMP-HR
5	901950	Pull Cord Breakaway Switch	1	
6	902764	Battery with Charger & Box (NOT SHOWN)	1	Includes Items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

Seed Runner 3955XL & 3955DXL — Parts

Conveyor LED Work Light Kit #2004450 (Option)

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

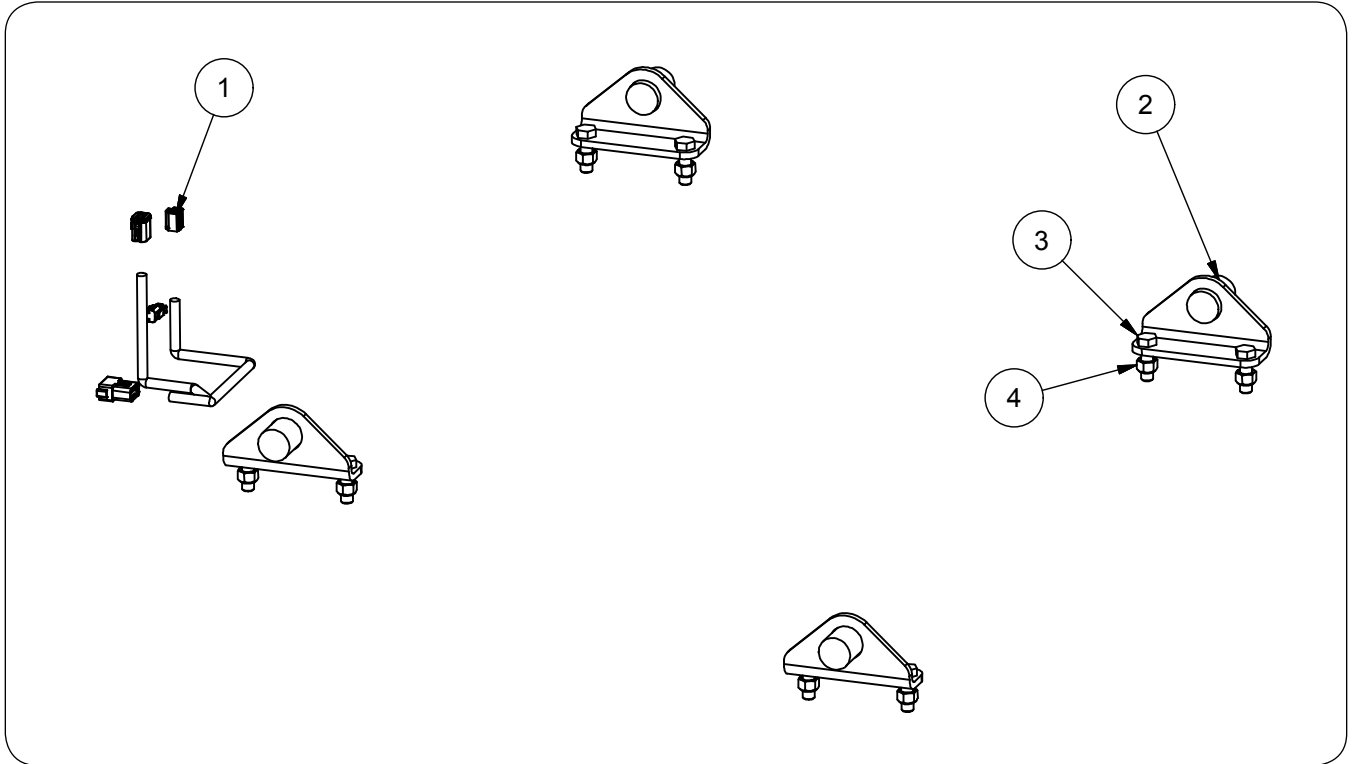


ITEM	PART NO.	DESCRIPTION	QTY	NOTES
	2004450	Work Light Kit (Option)	1	Includes Items 1 through 3 & 5 through 7
1	2002125	Work Light Harness	1	
2	2002489	Wire Harness, 2-Way 420' Long	1	
3	9000106	Cable Tie, 6" Long	20	
4	900513	Grommet 2" Dia. Groove	1	
5	301213	Work Light with Switch	3	
6	9500977	Switch	1	
7	9500978	Switch Actuator	1	

Seed Runner 3955XL & 3955DXL — Parts

Non Scale Components

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

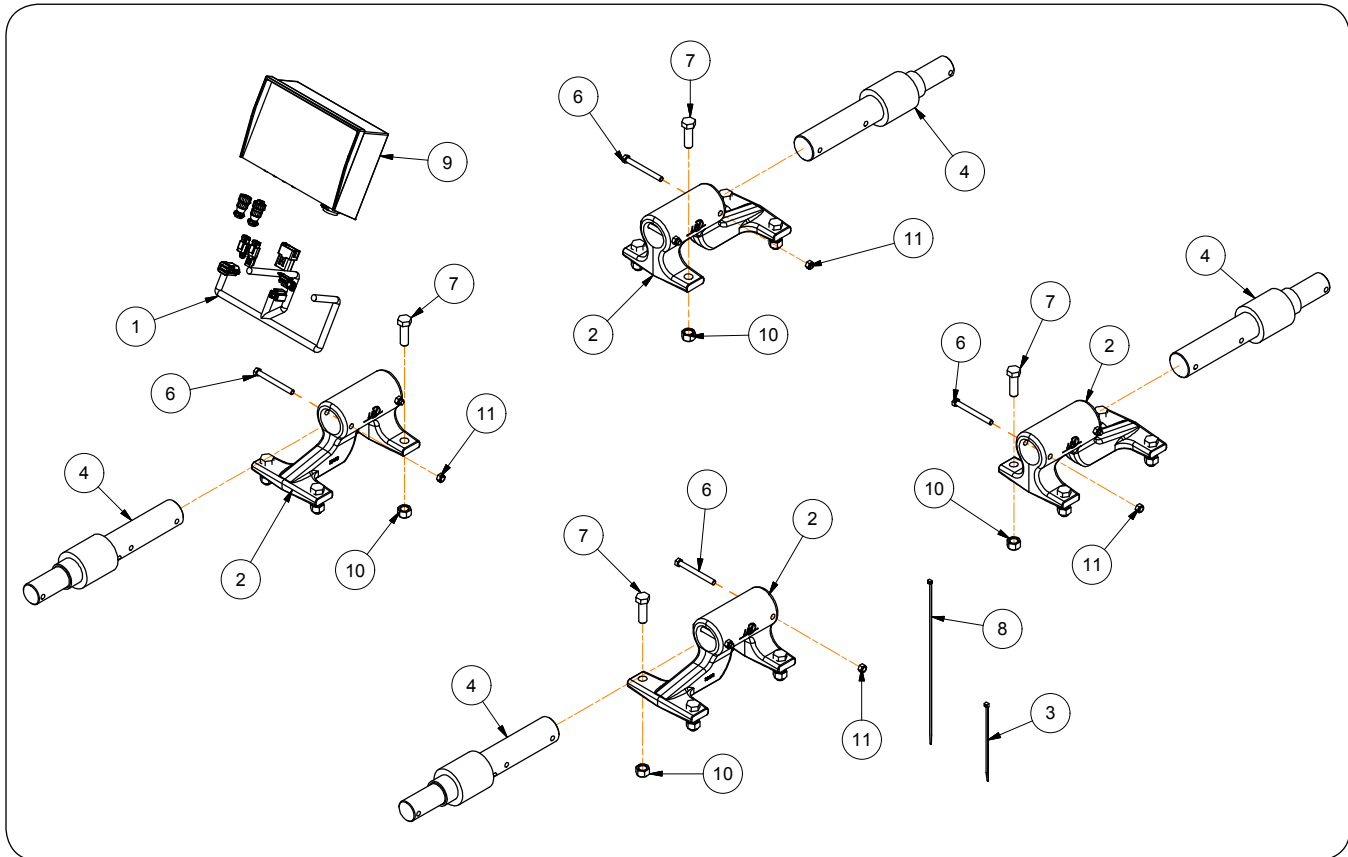


ITEM	PART NO.	DESCRIPTION	QTY	NOTES
1	2002130	Non-Scale Front Wire Harness 22 1/4"	1	
2	24931TS	Bracket Weldment	4	
3	9390-124	Capscrew 5/8"-11UNC x 2	8	Grade 5
4	9801	Locknut 5/8"-11UNC	8	

Seed Runner 3955XL & 3955DXL — Parts

UM2520 Scale Components (Option)

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

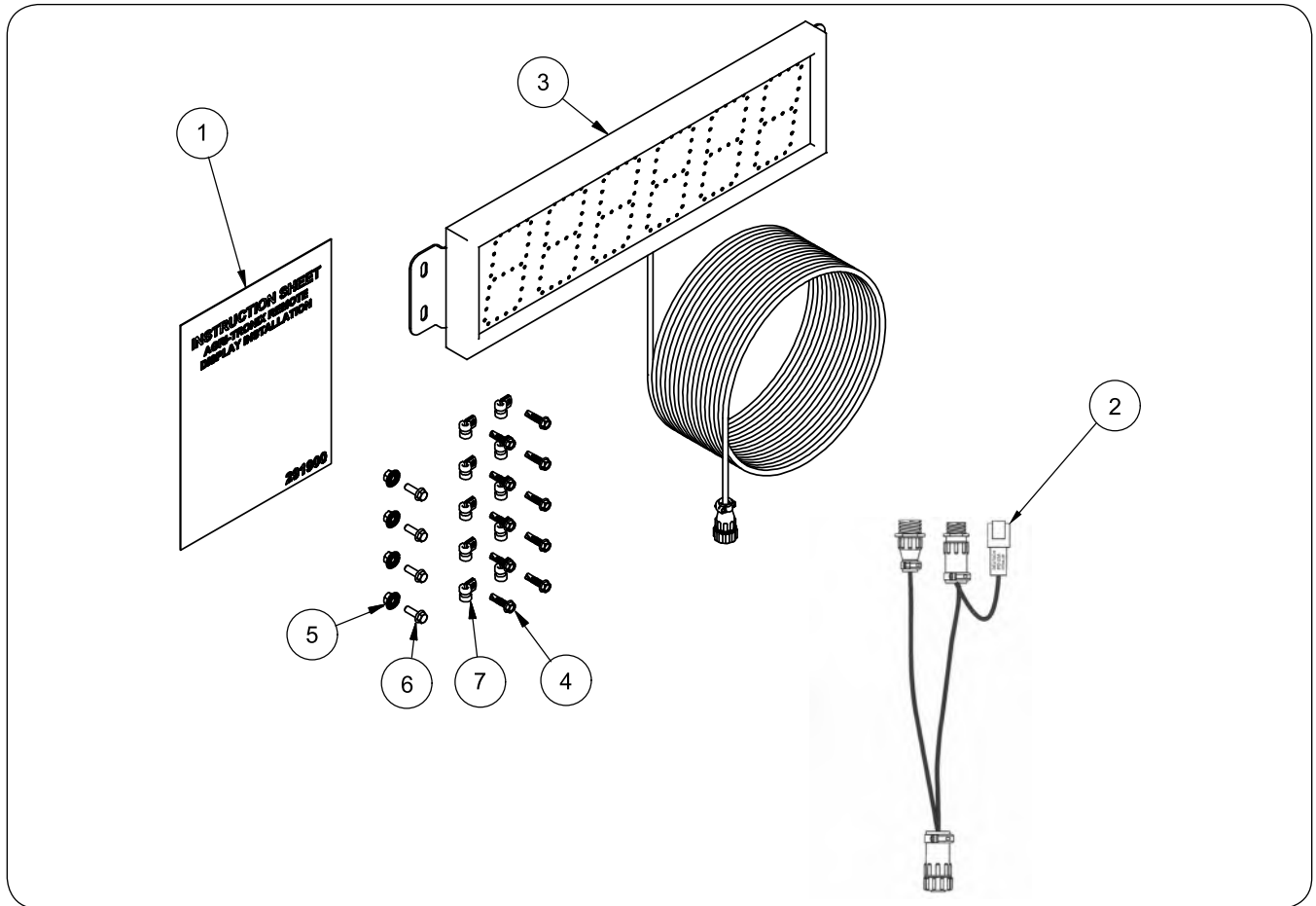


ITEM	PART NO.	DESCRIPTION	QTY	NOTES
	2003617TS	Scale Package Complete with Indicator	-	Includes Items 1 through 12
1	2002132	Common Scale Wire Harness	1	
2	29477TS	Scale Bracket Weldment	4	=Tan Speckle=
3	9000106	Cable Tie 6" Long	14	
4	901173	Weigh Bar with 21' Cable Quick Connect	4	
5	9390-003	Capscrew 1/4"-20UNC x 3/4"	2	Grade 5
6	9390-066	Capscrew 3/8"-16UNC x 3 3/4"	8	Grade 5
7	9390-124	Capscrew 5/8"-11UNC x 2"	16	Grade 5
8	94037	Cable Tie 15 1/2" Long	8	
9	9500374	Scale Indicator Unverferth 2520	1	
10	9801	Locknut 5/8"-11UNC	16	
11	9928	Locknut 3/8"-16UNC	8	
12	9936	Locknut 1/4"-20UNC	2	
13	9007102	Roll Printer Kit	1	NOT SHOWN

Seed Runner 3955XL & 3955DXL — Parts

Digi-Star Remote Display Kit #2009660 (Option)

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

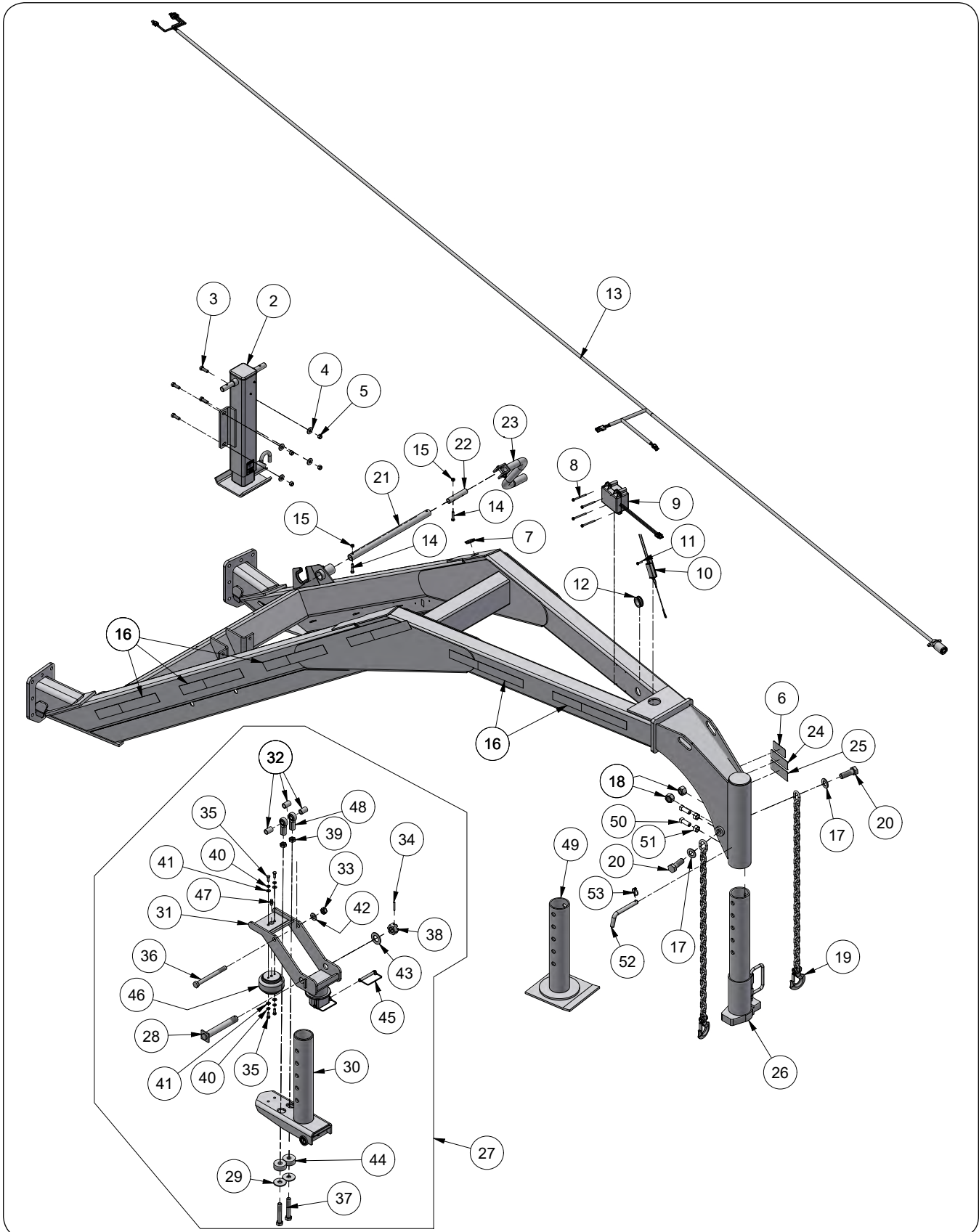


ITEM	PART NO.	DESCRIPTION	QTY	NOTES
1	291900	Instruction Sheet	1	
2	9503057	Y-Cable For Remote Display and Wireless Controls	1	Standard for Digi-Star Seed Tender Kit
3	9008351	Display Assembly	1	
4	9512	Self Drill Screw 1/4"-14 x 1"	10	
5	97189	Hex Nut 1/4"-20UNC	4	
6	97420	Flange Screw 1/4"-20UNC x 3/4"	4	
7	TAAU14007	Cable Clamp	10	

Seed Runner 3955XL & 3955DXL — Parts

Gooseneck Hitch Components (Option)

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



Seed Runner 3955XL & 3955DXL — Parts

Gooseneck Hitch Components (Option)

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

ITEM	PART NO.	DESCRIPTION	QTY	NOTES
	2010230TS	Gooseneck Hitch Assembly with Standard Coupler	-	Includes Items 2-25
	2010231TS	Gooseneck Hitch Assembly with Cushioned Coupler		
2	107905B	Jack Weldment	1	
3	9390-101	Capscrew 1/2"-13UNC x 1 1/2"	4	Grade 5
4	9405-088	Flat Washer 1/2"	4	
5	9800	Locknut 1/2"-13UNC	4	
6	97961	Decal, WARNING (Read and Understand...)	1	
7	97422	Plug/Rubber	1	
8	902238	Flange Bolt 1/4"-20UNC x 3"	4	
9	----	Break Away Switch & Battery w/Charger & Box	1	Refer to "Electric Breakaway Components" in PARTS Section
10				
11	9512	Screw/Self-Drilling 1/4-14 x 1"	1	
12	98487	Grommet/Rubber	1	
13	27829	Wiring Harness Front	1	
14	9390-058	Capscrew 3/8"-16UNC x 1 3/4"	2	Grade 5
15	9928	Locknut 3/8"-16UNC	3	
16	25003	Conspicuity Marking / Reflectors	12	
17	9405-116	Flat Washer 1"	4	
18	9663	Locknut 1"-8UNC	2	
19	98792	Chain w/Hook & C-Link Assembly	2	
20	91299-187	Capscrew 1"-8UNC x 3"	2	Grade 8
21	2001095B	Extension Tube	1	
22	2001097B	Bar 1" Dia. x 5"	1	
23	9500583	Jack Handle	1	
24	9500953	Decal, CAUTION (Always Use Transport Chain....)	1	
25	9500952	Decal, CAUTION (Unhitching of Trailer can cause...)	1	
26	2003304B	Gooseneck Hitch - Drilled	-	
27	2009544B	Cushion Gooseneck Hitch Assembly (Option)	-	Includes Items 28-48
28	2009330	Pin Weldment 1 1/4" Dia. x 8 1/2"	1	
29	2009331	Washer 2.5" Dia.	2	
30	2009615B	Receiver Weldment	1	
31	2009641B	Coupler Weldment	1	
32	2009812	Tube/Spacer 1" OD x .782" ID x 1 1/2"	3	
33	9008442	Lock Nut/Center, 3/4"-10UNC	1	
34	91144-165	Spiral Pin 1/4" Dia. x 1 7/8"	1	
35	9390-055	Capscrew, 3/8"-16UNC x 1" G5	4	
36	9390-161	Capscrew, 3/4"-10UNC x 8" G5	1	
37	9390-378	Capscrew, 3/4"-16UNF x 4 1/2" G5	2	
38	9393-023	Slotted Nut, 1 1/4"-7UNC	1	
39	9395-015	Hex Jam Nut, 3/4"-16UNF	2	
40	9404-021	Lock Washer, 3/8"	4	
41	9405-074	Flat Washer, 3/8" SAE	4	
42	9405-104	Flat Washer, 3/4" SAE	1	
43	9405-128	Flat Washer, 1 1/4" SAE	1	
44	9502921	Urethane Spring 2 1/2" Dia.	2	
45	9503022	Lynch Pin 1/2" Dia. x 3 3/4"	1	
46	9503203	Air Bag	1	
47	9503223	Tank Valve	1	
48	9503225	Ball Joint 3/4" ID Rod End	2	
49	2003321B	Gooseneck Round Fifth Wheel Hitch Adaptor (Option)	-	
50	97875	Set Screw, 3/4"-10UNC x 2" Square Head	2	
51	9394-016	Hex Nut, 3/4"-10UNC	2	
52	9501179	Bent Pin, 3/4" Dia. x 5"	1	
53	9093	Klik Pin, 3/16" Dia. x 1 9/16"	1	

Seed Tender Remote - Override Box

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

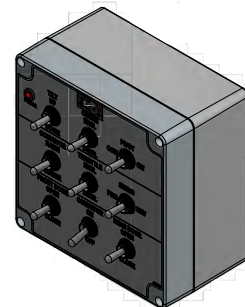
See manual #2009490 for complete setup instructions and parts listing.



**Override Box
2 & 3 Function
(2009341)**



**Override Box
6 Function
(2009333)**



**Override Box
7 Function
(2010504)**

3-Function Wireless Remote Control Pkg #2010447TS (Option)

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

See manual #2010519 for complete setup instructions and parts listing.



Seed Runner 3955XL & 3955DXL — Parts

6-Function Wireless Remote Control Pkg #2010448TS (Option)

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

See manual #2010520 for complete setup instructions and parts listing.



7-Function Wireless Remote Control Pkg #2010449TS (Option)

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

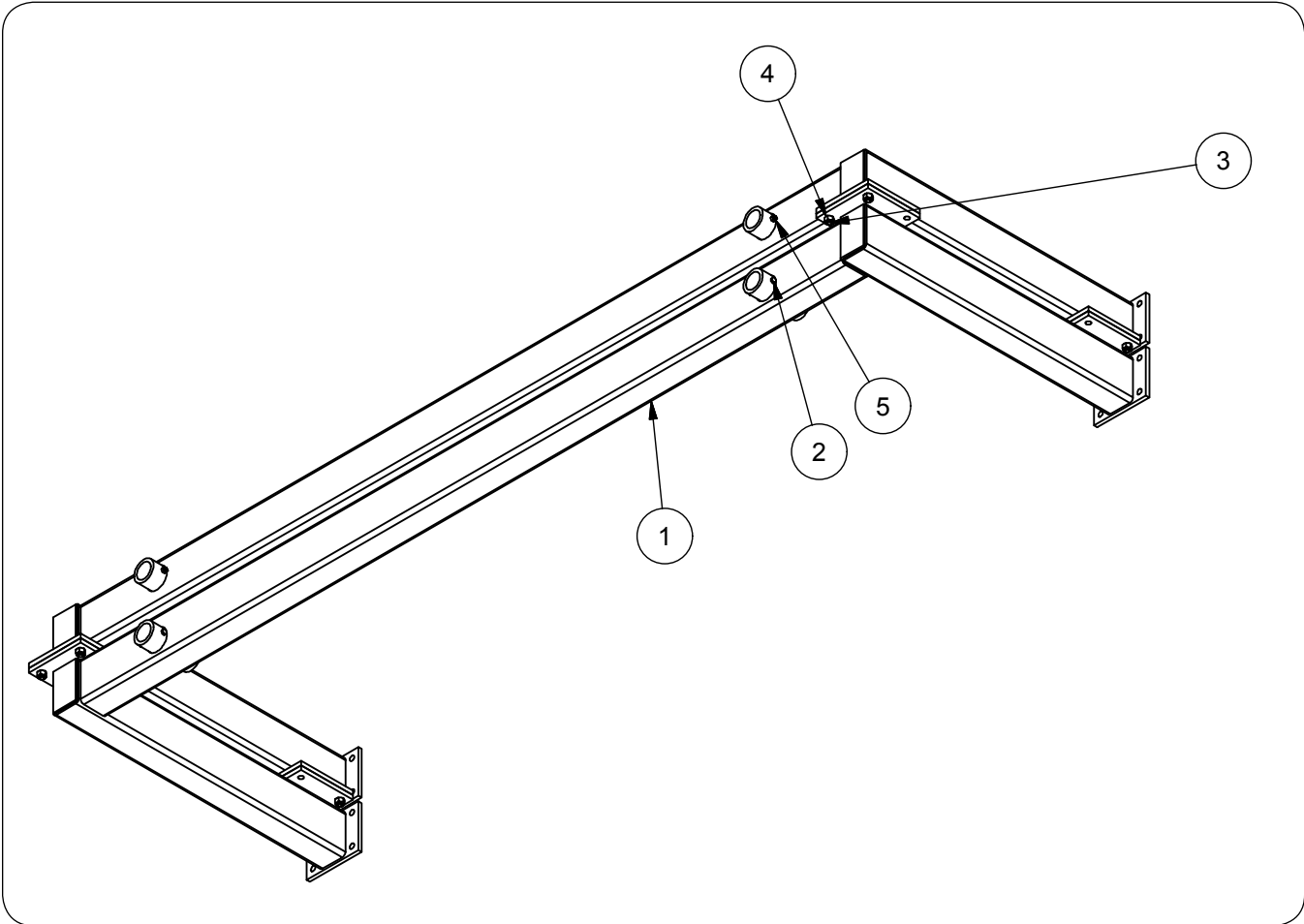
See manual #2010521 for complete setup instructions and parts listing.



Seed Runner 3955XL & 3955DXL — Parts

Scale Platform for Units Less Undercarriage (Option)

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

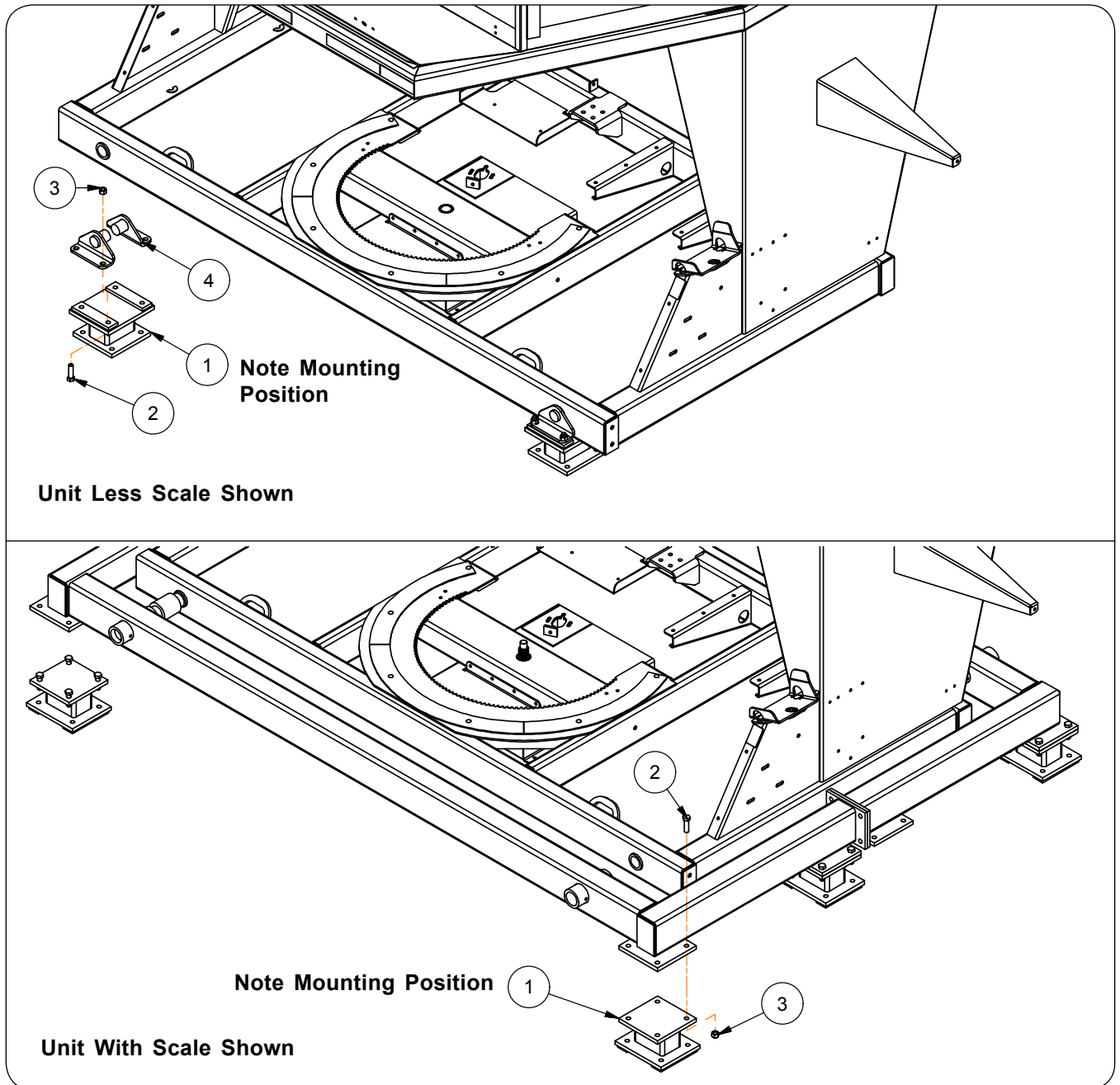


ITEM	PART NO.	DESCRIPTION	QTY	NOTES
	25898TS	Scale Platform for Units Less Undercarriage	-	Includes Items 1-5
1	25746TS	Scale Base	2	
2	9390-065	Capscrew 3/8"-16UNC x 3 1/2	8	
3	9390-124	Capscrew 5/8"-11UNC x 2	8	
4	9801	Locknut 5/8"-11UNC	8	
5	9928	Locknut 3/8"-16UNC	8	

Seed Runner 3955XL & 3955DXL — Parts

Riser Pads (Bundle #2000945TS) (Option)

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



ITEM	PART NO.	DESCRIPTION	QTY	NOTES
	2000945TS	Riser Pads (Option)	-	Includes Items 1 through 4
1	2000350TS	Support Stand with Hardware	6	Includes Items 2 & 3
2	9390-125	Capscrew 5/8"-11UNC x 2 1/4	24	Grade 5
3	9801	Locknut 5/8"-11UNC	24	
4	24931TS	Bracket Weldment	8	

Seed Runner 3955XL & 3955DXL — Parts

Electric Tarp Kit (#27706) (Option)

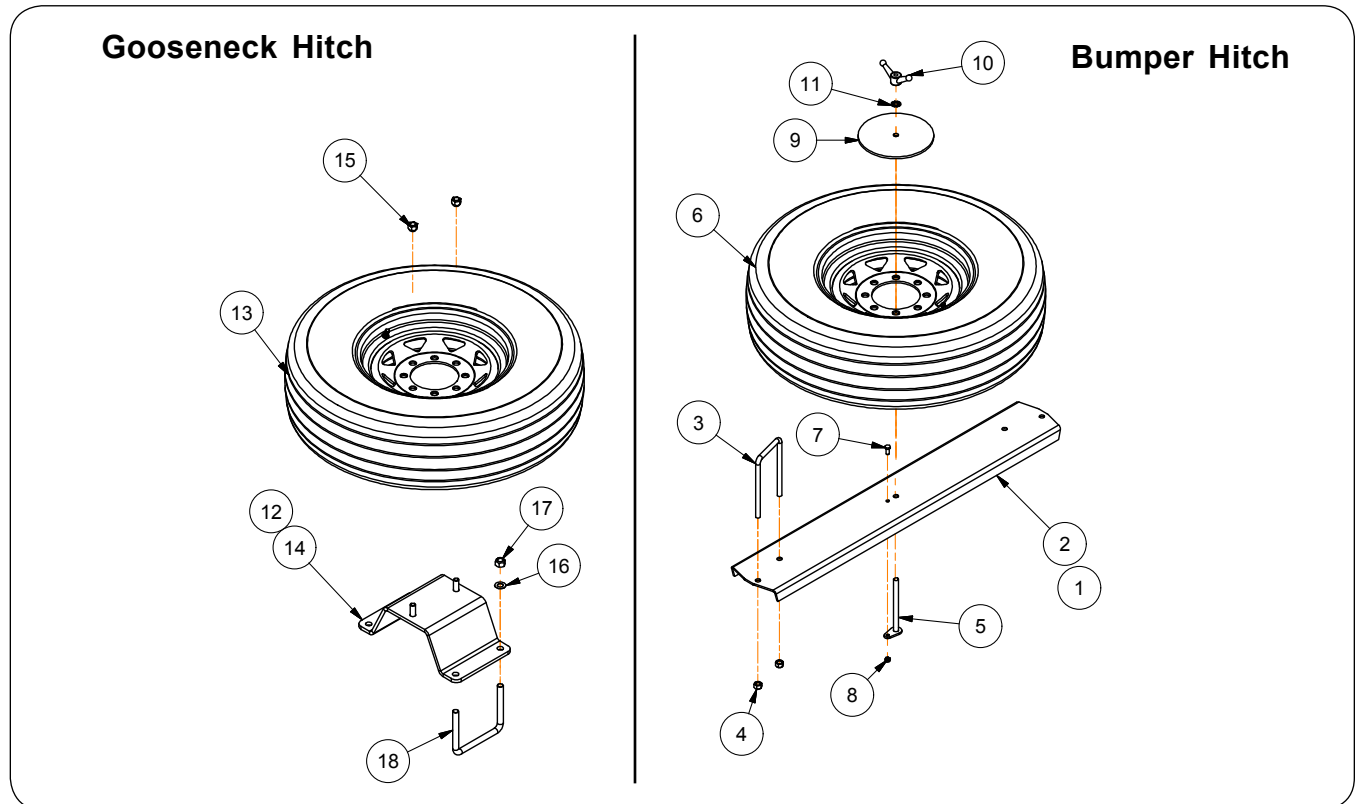
Please visit www.unverferth.com/parts/ for the most current parts listing.



Seed Runner 3955XL & 3955DXL — Parts

Spare Tires (Option)

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

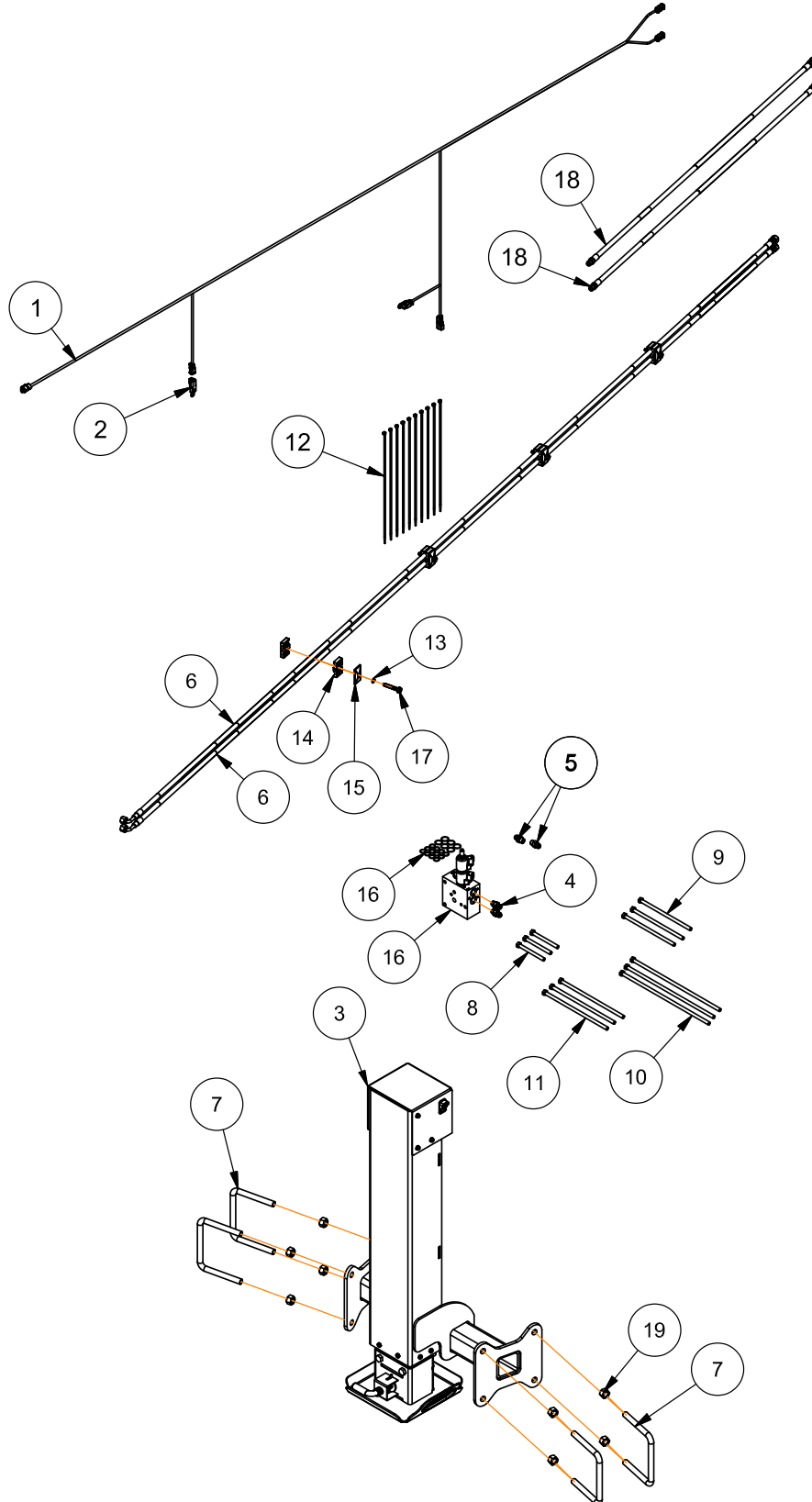


ITEM	PART NO.	DESCRIPTION	QTY	NOTES
1	2005328TS	Spare Tire 6.75x17.5 / ST235/75R17.5 Assembly	1	For Bumper Pull-Hitch Includes Items 2 through 11
	2009553TS	Spare Tire 8.25x19.5 / ST285/70R19.5 Assembly		
2	29736TS	Spare Tire Plate	1	
3	91323	U-bolt 1/2"-13UNC x 7 1/8	2	
4	9800	Locknut 1/2"-13UNC	4	
5	29751	Pin Weldment 1/2" Dia. x 6 5/8	1	
6	9501425	Wheel/Tire 6.75x17.5 / ST235/75R17.5	1	
	9502995	Wheel/Tire 8.25x19.5 / ST285/70R19.5		
7	9390-028	Capscrew 5/16"-18UNC x 3/4	1	Grade 5
8	9807	Locknut 5/16"-18UNC	1	
9	2001047TS	Washer	1	
10	9500475	Handle Nut 1/2"-13UNC	1	
11	TA500470	External Star Washer	1	
12	2005329TS	Spare Tire 6.75x17.5 / ST235/75R17.5 Assembly	1	For Gooseneck Hitch Includes Items 13 through 18
	2009557B	Spare Tire 8.25x19.5 / ST285/70R19.5 Assembly		
13	9501425	Wheel/Tire 6.75x17.5 / ST235/75R17.5	1	
	9502995	Wheel/Tire 8.25x19.5 / ST285/70R19.5		
14	2009560TS	Bracket Weldment	1	
15	901669	Tapered Nut 9/16-18UNC	2	
16	903108	Flat Washer 5/8" USS	4	
17	9801	Locknut 5/8"-11UNC	4	
18	93419	U-Bolt 5/8"-11UNC x 5 1/4	2	

Seed Runner 3955XL & 3955DXL — Parts

Hydraulic Jack for Bumper Hitch Kit #2012347TS (Option)

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



Seed Runner 3955XL & 3955DXL — Parts

Hydraulic Jack for Bumper Hitch Kit #2012347TS (Option)

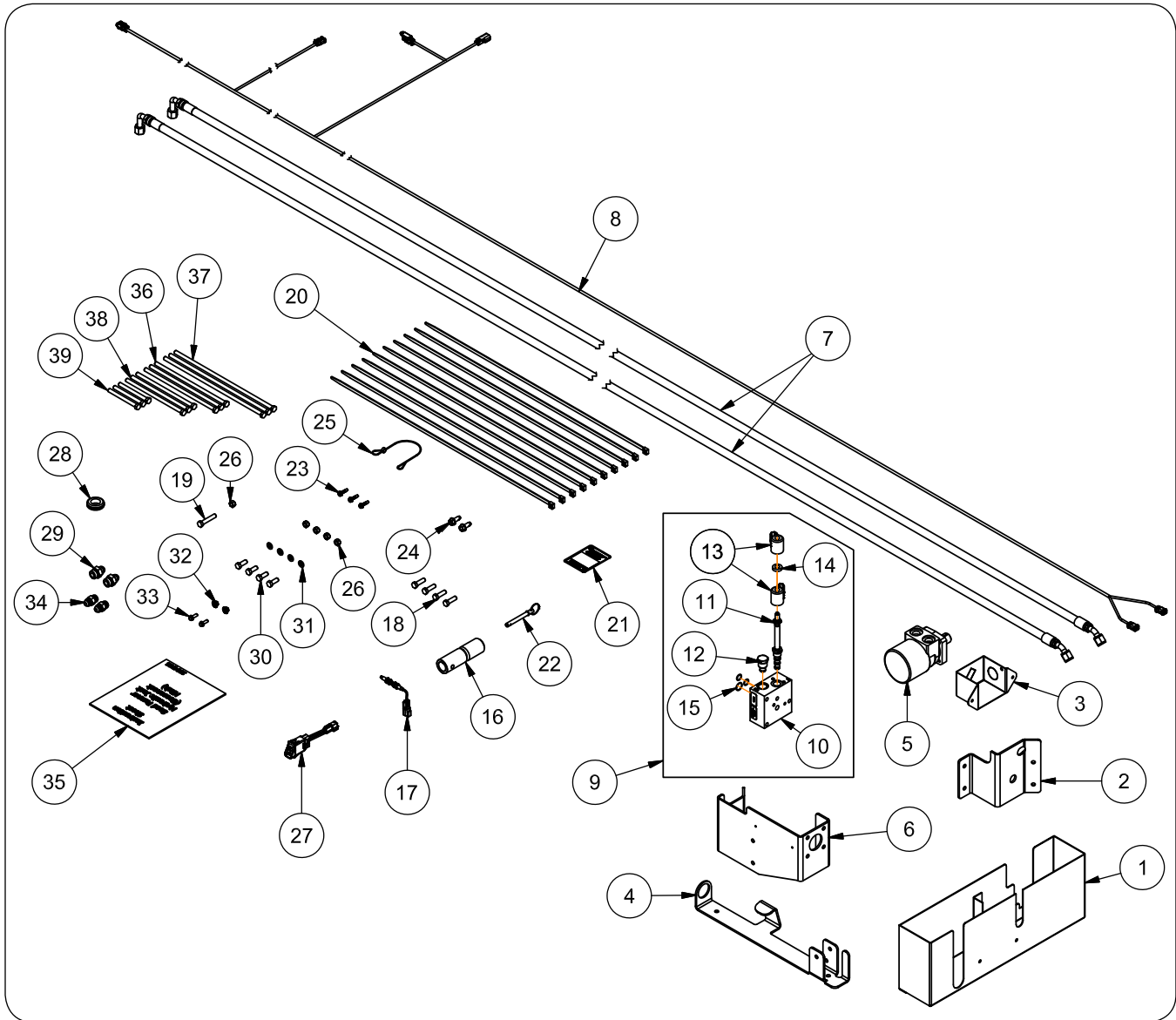
Please visit www.unverferth.com/parts/ for the most current parts listing.

ITEM	PART NO.	DESCRIPTION	QTY	NOTES
1	2002811	Wire Harness 370"	1	
2	2005833	Loop Connector	1	
3	2011761TS	Hydraulic Jack Assembly	1	
4	900016	Adapter, 9/16"-18 JIC Male x 9/16"-18 O-Ring Male with 0.060 Restrictor	2	
5	9001495	Adapter	2	
6	9003118	Hydraulic Hose, 1/4" x 198" 9/16"-18 JIC Female x 9/16"-18 JIC Female 90° Short Drop	2	
7	93419	U-Bolt, 5/8"-11UNC	4	
8	9390-067	Capscrew, 3/8"-16UNC x 4" G5	3	
9	9390-075	Capscrew, 3/8"-16UNC x 8" G5	3	
10	9390-752	Capscrew, 3/8"-16UNC x 14" G5	3	
11	9390-9500625	Capscrew, 3/8"-16UNC x 10" G5	3	
12	94037	Cable Tie, .35 x 15 1/2"	10	
13	9404-019	Lock Washer, 5/16"	4	
14	9500058	Clamp Set	4	
15	9500059	Cover Plate	4	
16	9501021	Valve Assembly	1	
	9500600	Seal Kit for Stackable Valves	-	
17	9504377	Self-Drill Screw, 5/16-18 x 2"	4	
18	9504904	Hydraulic Hose 1/4" x 60" 9/16"-18 JIC Female x 9/16"-18 JIC Male	2	
19	9801	Locknut, 5/8"-11UNC	8	

Seed Runner 3955XL & 3955DXL — Parts

Hydraulic Jack for Gooseneck Hitch Kit #2004087B (Option)

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



Seed Runner 3955XL & 3955DXL — Parts

Hydraulic Jack for Gooseneck Hitch Kit #2004087B (Option)

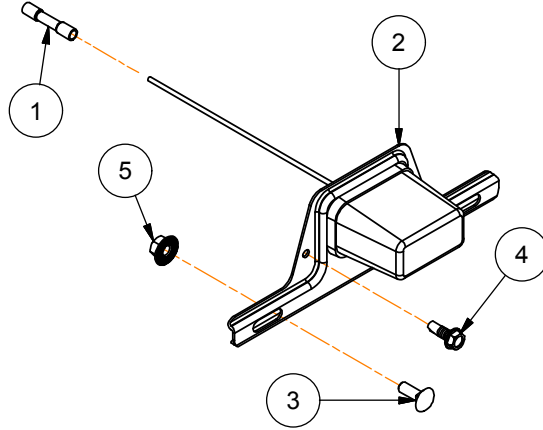
Please visit www.unverferth.com/parts/ for the most current parts listing.

ITEM	PART NO.	DESCRIPTION	QTY	NOTES
1	2000192B	Jack Drive Cover Weldment =Black=	1	
2	2000156B	Jack Bracket =Black=	1	
3	2000176B	Switch Housing =Black=	1	
4	2001207B	Jack Handle Bracket Weldment =Black=	1	
5	9500273	Motor/Hyd 4.0 CU IN, 9 GPM, 1800 PSI	1	
6	2000191B	Jack Mount Weldment =Black=	1	
7	2000196	Hose 1/2 x 267 (90° 3/4-16 JIC Female x 45° 3/4-16 JIC Female)	2	3000 PSI
8	2002811	Wire Harness 370"	1	
9	9500308	Hydraulic Jack Valve Assembly	1	
10	9500611	Valve Body (Stackable)	1	
11	9500560	Valve w/Solenoids	1	
12	902818	Plug SAE, 7/16-20UNF	4	
13	99888-686	Socket Head 10-24UNC x 1 1/4	4	Grade 8
14	9500620	O-Ring Kit (Set of 4)	1	
15	9500600	Seal Kit for Stackable Valves	1	
16	2000207	Coupler Weldment	1	
17	2000190	Magnetic Switch Assembly	1	
18	9390-056	Capscrew 3/8-16UNC x 1 1/4	4	Grade 5
19	9390-059	Capscrew 3/8-16UNC x 2	1	Grade 5
20	94038	Cable Tie .35 x 32	10	
21	9500279	Decal, DANGER (Jack Handle)	1	
22	9500603	Clevis Pin 3/8D x 2.5	1	
23	9512	Screw/Self Drill 1/4-14 x 1	3	
24	96972	Screw/Self Tapping 3/8-16UNC x 1	2	
25	97879	Nylon Lanyard 10"	1	
26	9928	Locknut 3/8-16UNC	5	
27	9006061	Rocker Switch	1	
28	901675	Grommet/Rubber 1 3/4 OD x 1 ID	1	
29	93607	Adapter 3/4-16 JIC Male x 7/8-14 O-Ring Male	2	
30	9390-055	Capscrew 3/8-16UNC x 1	4	Grade 5
31	9404-021	Lock Washer 3/8	4	
32	97189	Hex Nut/Large Flange 1/4-20UNC	2	Grade 5
33	97420	Flange Screw 1/4-20UNC x 3/4	2	Grade 5
34	9864	Adapter 3/4-16 JIC Male x 3/4-16 O-Ring Male	2	
35	2004726	Instruction Sheet	1	
36	9390-9500625	Capscrew 3/8-16UNC x 10	3	Grade 5
37	9390-752	Capscrew 3/8-16UNC x 14	3	Grade 5
38	9390-075	Capscrew 3/8-16UNC x 8	3	Grade 5
39	9390-067	Capscrew 3/8-16UNC x 4	3	Grade 5

Seed Runner 3955XL & 3955DXL — Parts

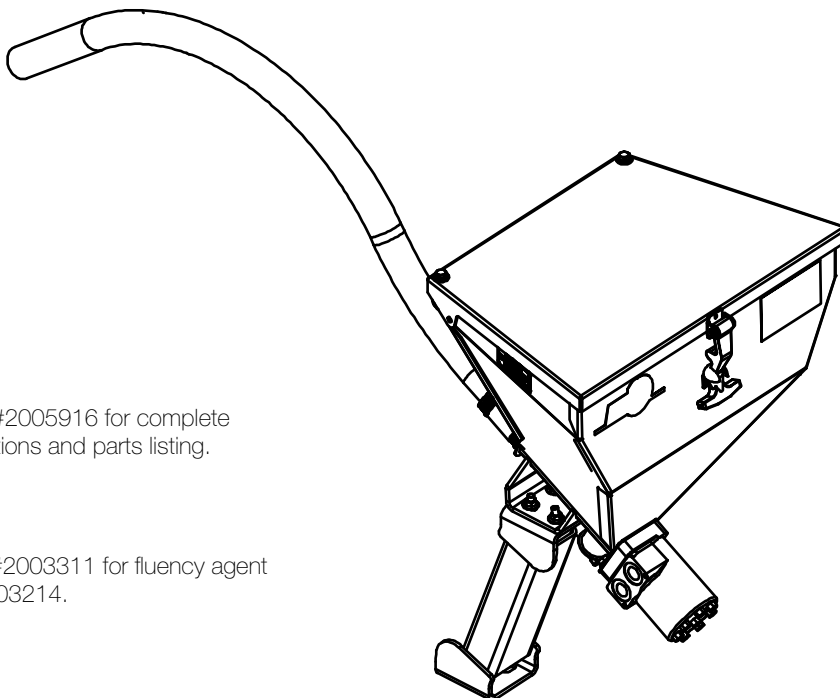
License Plate/Lamp Holder Assembly Kit #25481 (Option)

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



ITEM	PART NO.	DESCRIPTION	QTY	NOTES
1	900368	Sealed Splice Connector	1	
2	93769	License Plate/Lamp Holder	1	
3	9388-002	Carriage Bolt 1/4"-20UNC x 3/4	2	
4	9473	Screw/Self 1/4-14 X 3/4	2	
5	97189	Hex Nut/Large Flange 1/4"-20UNC	2	

T&G Applicator Kit #2004448IV (Option)



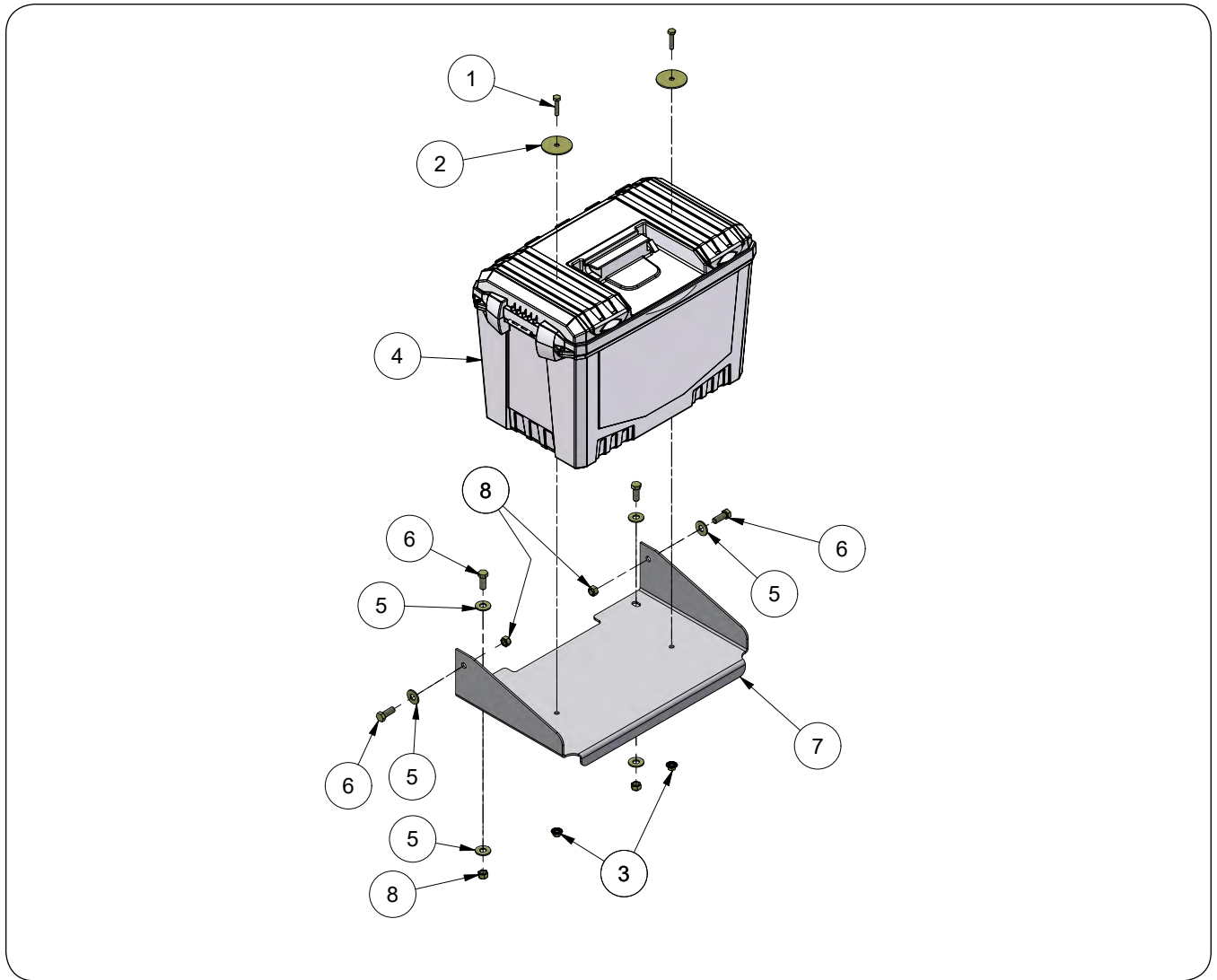
See manual #2005916 for complete setup instructions and parts listing.

See manual #2003311 for fluency agent spout kit #2003214.

Seed Runner 3955XL & 3955DXL — Parts

Tool Box Components

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

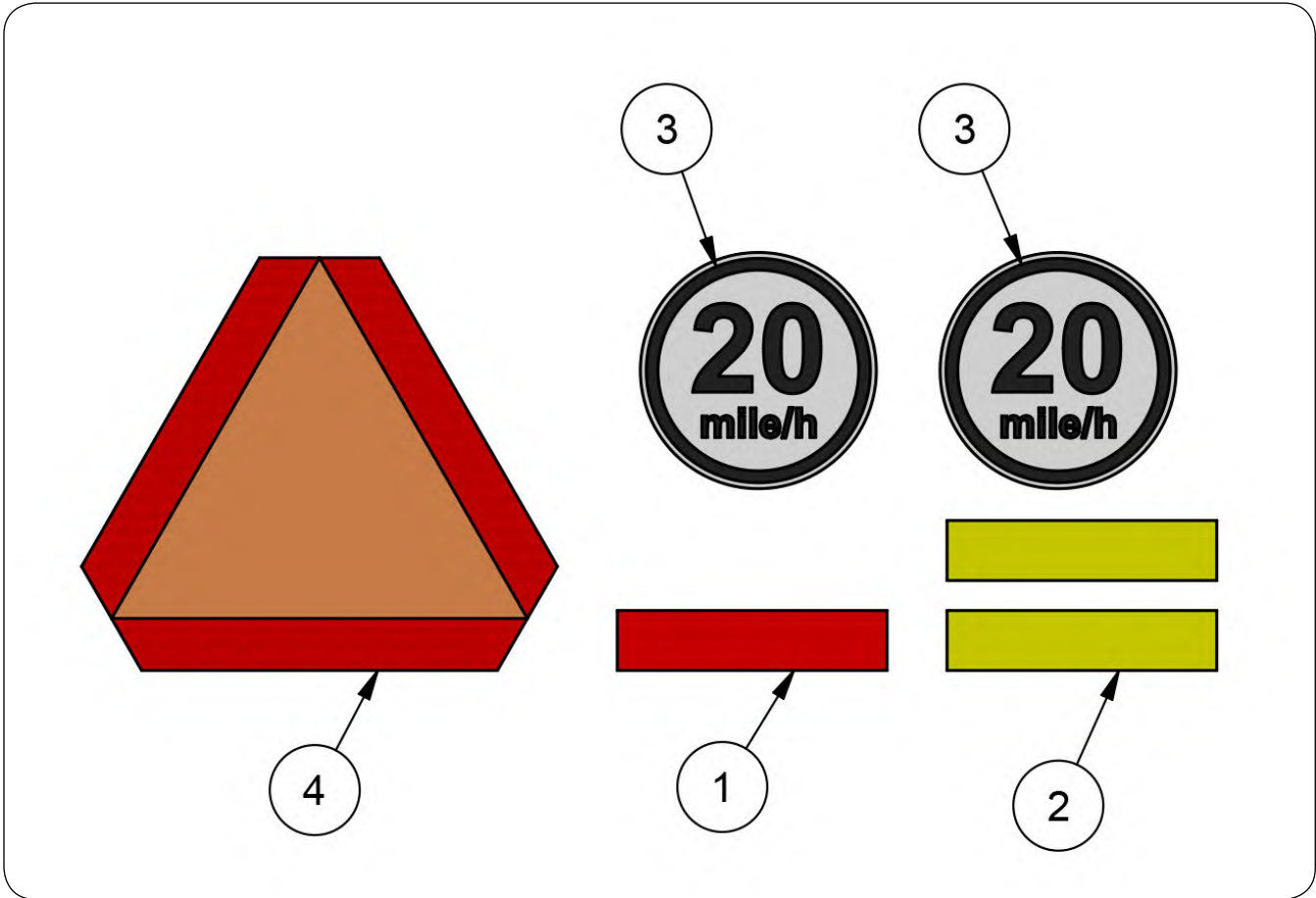


ITEM	PART NO.	DESCRIPTION	QTY	NOTES
1	9390-006	Capscrew, 1/4"-20UNC x 1 1/4" G5	2	
2	94763	Fender Washer	2	
3	97189	Hex Nut/Large Flange, 1/4"-20UNC	2	
4	9005850	Toolbox	1	
5	9405-076	Flat Washer, 3/8" USS	6	
6	9390-055	Capscrew 3/8"-16UNC x 1" G5	4	
7	2010469IV	Toolbox Plate	1	
8	9928	Lock Nut/Top, 3/8"-16UNC	4	

Seed Runner 3955XL & 3955DXL — Parts

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

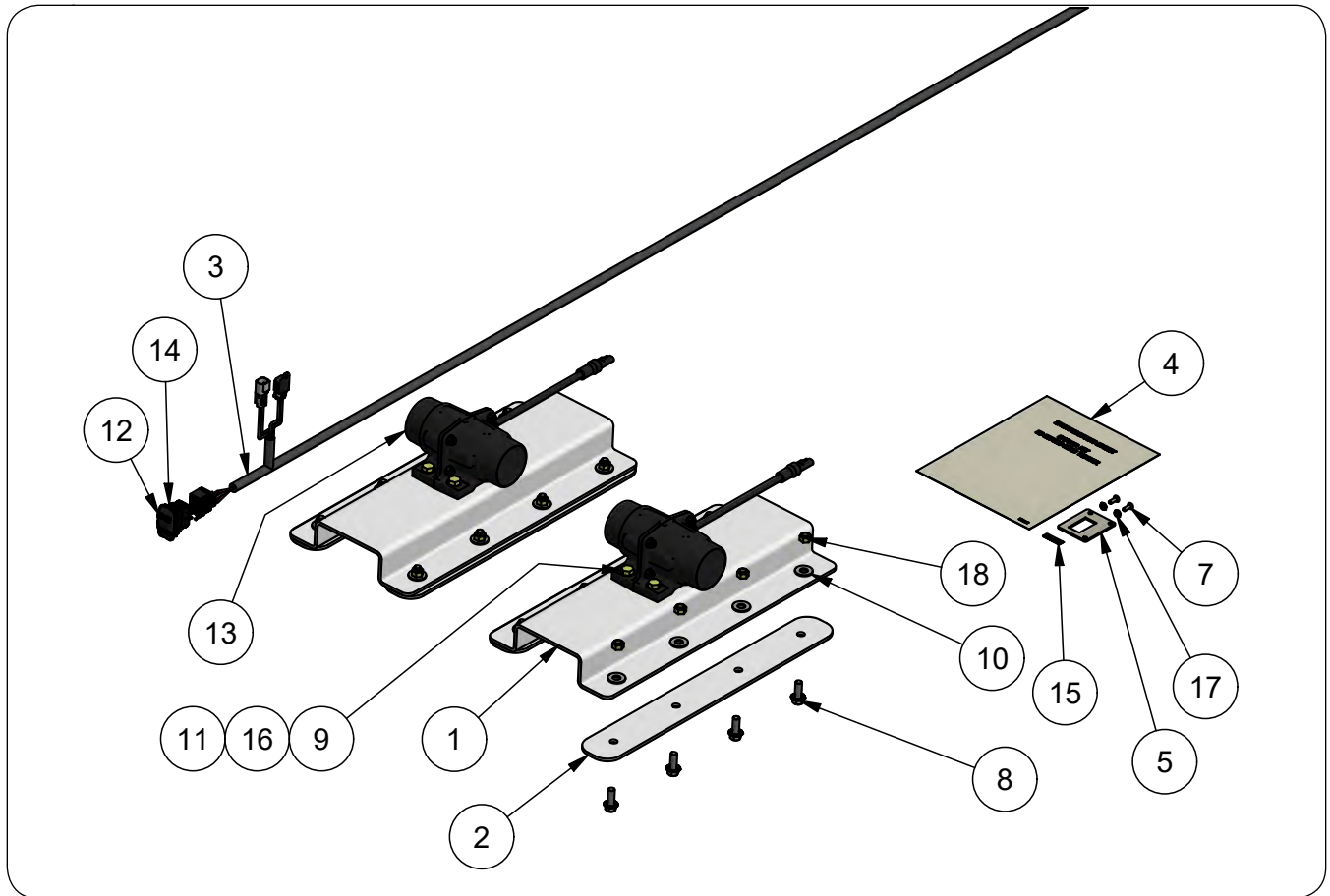
Please visit www.unverferth.com/parts/ for the most current parts listing.



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	

Shaker Kit (Option)

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



ITEM	PART NUMBER	DESCRIPTION	QTY	NOTES
1	2010897IV	Shaker Mount Plate	2	
2	2010934IV	Plate	4	
3	2011004	Wire Harness, 257 21/32"	1	
4	2011469	Instruction Sheet	1	
5	2011479TS	Switch Plate	1	
6	N/A	N/A	-	
7	903172-343	Pan Head Phillips Screw, #10-32UNF x 1/2"	2	
8	91262	Flange Screw, 3/8"-16UNC x 1" G5	16	
9	9390-080	Capscrew, 7/16"-14UNC x 1 1/2" G5	8	
10	9405-075	Flat Washer, 3/8" USS	16	
11	9405-082	Flat Washer, 7/16" USS	8	
12	9500978	Rocker Switch Actuator	1	
13	9503936	Shaker, 12VDC AMP	2	
14	9503975	Contura III Switch (On-Off-On)	1	
15	9504159	Decal, Shaker Switch	1	
16	9799	Lock Nut/Top, 7/16"-14UNC	8	
17	9830-016	Hex Nut, #10-32UNF	2	
18	9928	Lock Nut/Top, 3/8"-16UNC	16	



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