



Bulk Seed Handling

SEED RUNNER® Bulk Tender MODELS 2755, 2755XL, 3755, & 3755XL

Serial Number D62410100 & Higher

Part No. 2003537

Seed Runner 2755/2755XL/3755/3755XL — Introduction

Foreword

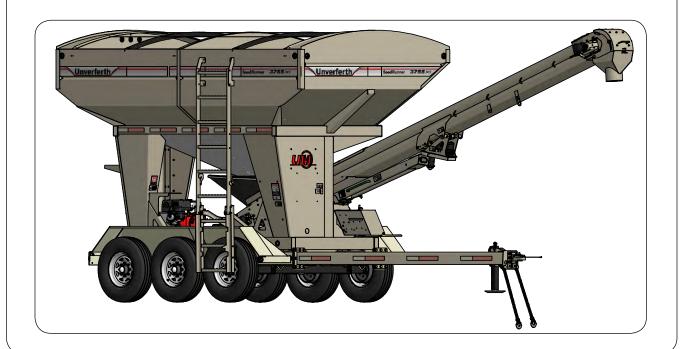


This symbol identifies important safety messages. When you see it, read the message that follows and be alert to the possibility of personal injury.

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

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

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



Seed Runner 2755/2755XL/3755/3755XL — Introduction

Product Information

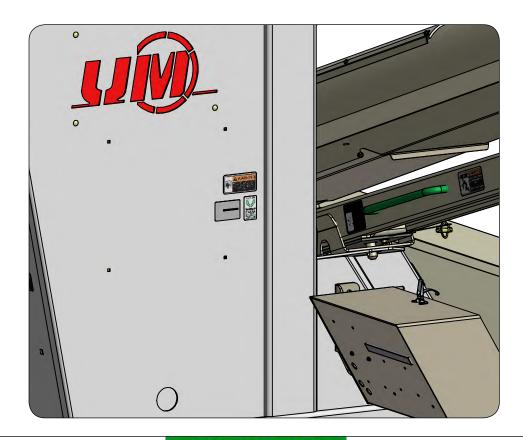
When ordering parts or when requesting further information or assistance, always give the following information:

- 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.

SECTION I Safety

General Hazard Information	1-2
Safety Decals	1-3
Following Safety Instructions	1-4
Before Servicing or Operating	1-4
During Operation	1-5
Before Transporting	1-6
During Transport	1-6
Pressurized Oil	1-7
Preparing for Emergencies	1-8
Wearing Protective Equipment	

SECTION II Set Up

Pre-Delivery Checklist	2-2
Set Up	
Assemble Hitch or Gooseneck to Undercarriage	
Ladder Installation	
Deluxe Ladder Installation (Option)	2-7
Moving 21' Conveyor from Shipping to Operating	
Hopper Cover	
UM2520 Scale Package With Auto Conveyor Shut Off (Option)	2-11
Scale Platform for Units Less Undercarriage (Option)	2-14
Scale Platform Riser Pads For Units Less Undercarriage (Option)	2-16
6" Conveyor 3-Stage Telescopic Downspout (Option)	2-17
8" Conveyor 3-Stage Telescopic Downspout (Option)	
4' Flex Spout for 6" Conveyor	
4' Flex Spout for 8" Conveyor	2-18
2-Stage Telescopic Downspout for 8" Conveyor	2-18
Pintle Hitch & Clevis Hitch (Options)	2-19
AG Decal Package, Decal Placement	

FOR LED WORK LIGHT INFORMATION, PLEASE REFER TO YOUR LED WORK LIGHT MANUAL. FOR ELECTRIC TARP INFORMATION, PLEASE REFER TO YOUR ELECTRIC TARP MANUAL. FOR T&G LUBRICANT APPLICATOR INFORMATION, PLEASE REFER TO YOUR T&G LUBRICANT APPLICATOR MANUAL.

SECTION III Operation

Preparing Towing Vehicle	3-2
Preparing Implement	3-3
Hydraulic System	3-3
Lubrication	3-3
Tires/Wheels	
Connecting Seed Runner Tender to Towing Vehicle	3-4
Transport Chains	3-4
Transporting	
Hydraulic Power Unit Operation	3-7
Before Staring Engine	3-9
Cold Start Ball Valve	3-10
Starting Engine	
Adjusting Hydraulic Pressure Relief Valve	
Conveyor Belt Electronic Speed Control Valve	
Conveyor Belt Manual Speed Control Valve	
Pivoting Conveyor Side-to-Side	
Raising and Lowering Conveyor	
Filling Planter or Drill	
Filling Seed Runner Tender from Another Wagon or Bulk Container (Self-Filling)	
Spring Assist Adjustment	
Ladder	
Deluxe Ladder (Option)	
Tarp	
3-Function Wireless Remote (Option)	
6-Function Wireless Remote (Option)	
7-Function Wireless Remote (Option)	
Override Box Options	
UM2520 Electronic Scale	
Downloader Module (Option)	
Auto-Shutdown Feature for UM2520 Scale ONLY (Option)	
UM2520 Scale Weight Calibration (Option)	
Filling Individual Planter Boxes	
Filling a Central Fill System or Larger Quantity	
Hydraulic Jack (Option)	
Gooseneck Cushion Hitch Height/Air Pressure Adjustment	3-36

FOR LED WORK LIGHT INFORMATION, PLEASE REFER TO YOUR LED WORK LIGHT MANUAL. FOR ELECTRIC TARP INFORMATION, PLEASE REFER TO YOUR ELECTRIC TARP MANUAL. FOR T&G LUBRICANT APPLICATOR INFORMATION, PLEASE REFER TO YOUR T&G LUBRICANT APPLICATOR MANUAL.

SECTION IV Maintenance

Lubrication	
Conveyor Bearings	4-2
Pivot Points	4-2
Hydraulic Power Unit	4-2
Gooseneck Cushion Hitch	4-3
Gooseneck Cushion Hitch Torque and Air Pressure	4-3
Hub Assembly	4-4
Hydraulic System	
Purge Hydraulic System	
Relieving Hydraulic Pressure	
Conveyor Belt	
Belt Tension	
Belt Tracking	
Manual Control of Conveyor	
Pull Start Engine	
Belt Stretcher (Option)	
Brake Cleaning and Inspection	
Brake Lubrication	
Magnets	
Shoes and Linings	
How To Measure Voltage	
How To Measure Amperage	
Brake Drum Inspection	
Bearing Inspection	
Bearing Lubrication	
Troubleshooting Brakes	
Power Pak	
Battery Warranty	
Wheels and Tires	
Wheel Nut Torque Requirements	
Tire Pressure	
Tire Warranty	
Complete Torque Chart Capscrews	
Hydraulic Fittings	
Storage	
Troubleshooting	
Conveyor Raise/Lower Cylinder Not Working Properly	
Smooth-Start Module Troubleshooting	
Scale Troubleshooting	
Scale "Short Form" Set Up & Calibration	
Auto Conveyor Shut Off Troubleshooting	
Tank Lights and Magnetic Reed Switch	
Adjusting Proximity Switch	
Tarp Adjustment Procedures	
Electrical Schematics	
Stackable Valve Manual Override Operation & Wire Schematic	
Hydraulic Schematic for Conveyor	

SECTION V Parts

Box Decals — Models 2755/2755XL	5-2
Touch-Up Paint	
Box Decals — Models 3755/3755XL	5-4
Ladder Components	5-6
Deluxe Ladder Components (Option)	
Door and Window Components	
Pivot Segments, Transport Brackets and Accent Components For Models 2755/3755	5-14
Pivot Segments, Transport Brackets and Accent Components For Models 2755XL/3755XL	5-15
Pivot Assembly Components - 6" x 18' & 8" x 18' Conveyors	5-16
Pivot Assembly Components - 8" x 21' Conveyors	5-18
Conveyor Arm Components - 6" x 18' & 8" x 18' Conveyors	5-20
Conveyor Arm Components - 8" x 21' Conveyors	
Conveyor Latch Components	
Hopper & Handle Components - 6" Tube Conveyors	5-26
Hopper & Handle Components - 8" Tube Conveyors	5-28
Stand, Cleanout Door, Shield, & Idler End Components - 6" Tube Conveyors	5-30
Stand, Cleanout Door, Shield, & Idler End Components - 8" Tube Conveyors	
Discharge Spout Components — 6" Tube Conveyor	
Discharge Spout Components — 8" Tube Conveyor	5-36
Hydraulic Components	
Valve Shield Components	5-40
Stackable Valve Assembly - 2 Function Components	5-42
Briggs & Stratton Power Pak Components	
Honda Power Pak Components	5-46
Muffler Shield, Relay Mount & Power Pak Mounting Components	5-48
Box Electrical Components	5-50
Enclosure and Master Keyswitch Components - Briggs & Stratton Power Pak	5-52
Enclosure and Master Keyswitch Components - Honda Power Pak	5-54
2-Function Electrical Components	5-56
Dry Erase Set	5-57
Cable Return Tarp System - 2755/2755XL ALL & 3755/3755XL (D69140099 & Lower)	5-58
Cable Return Tarp System - 3755/3755XL (D69140100 & Up)	5-60
Undercarriage Bumper Hitch Components	5-62
Undercarriage Frame Components - For Serial Number D69140100 & Up	5-64
Undercarriage Frame Components - For Serial Number D69140099 & Lower	
Undercarriage Fender Components - For Serial Number D69140100 & Up	5-66
Undercarriage Fender Components - For Serial Number D69140099 & Lower	5-68

(continue)

SECTION V Parts (continued)

Axle & Wheel Components	5-70
Undercarriage Electrical Components	
Electric Breakaway Components	5-73
Telescopic Spout Components (Option)	5-74
Hopper Cover	5-75
LED Work Light Kit (Option)	5-76
UM2520 Scale Components (Option)	
Gooseneck Hitch Components (Option)	5-78
Seed Tender Remote Override Box	5-80
3-Function Wireless Remote Control (Option)	5-80
6 & 7-Function Wireless Remote Control (Option)	5-81
Scale Platform for Units Less Undercarriage (Option)	5-82
Riser Pads (Option)	5-83
Electric Tarp Kit (Option)	5-84
Spare Tires (Option)	
Hydraulic Jack for Bumper Hitch (Option)	5-86
Hydraulic Jack for Gooseneck Hitch (Option)	5-88
License Plate/Lamp Holder Assembly Kit #25481	
T&G Applicator (Optional) Kit #2004448IV	5-90
Toolbox Components	5-91
AG Decal Package (Option) SMV, SIS Decals, & Reflectors	5-92

SECTION I Safety

General Hazard Information	1-2
Safety Decals	1-:
Following Safety Instructions	
Before Servicing or Operating	1-4
During Operation	1-
Before Transporting	1-(
During Transport	
Pressurized Oil	1-
Preparing for Emergencies	
Wearing Protective Equipment	

General Hazard Information

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

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

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

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



REMEMBER:

THINK SAFETY A CAREFUL OPERATOR IS THE BEST INSURANCE AGAINST AN

ACCIDENT!

SIGNAL WORDS



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

A WARNING

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



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

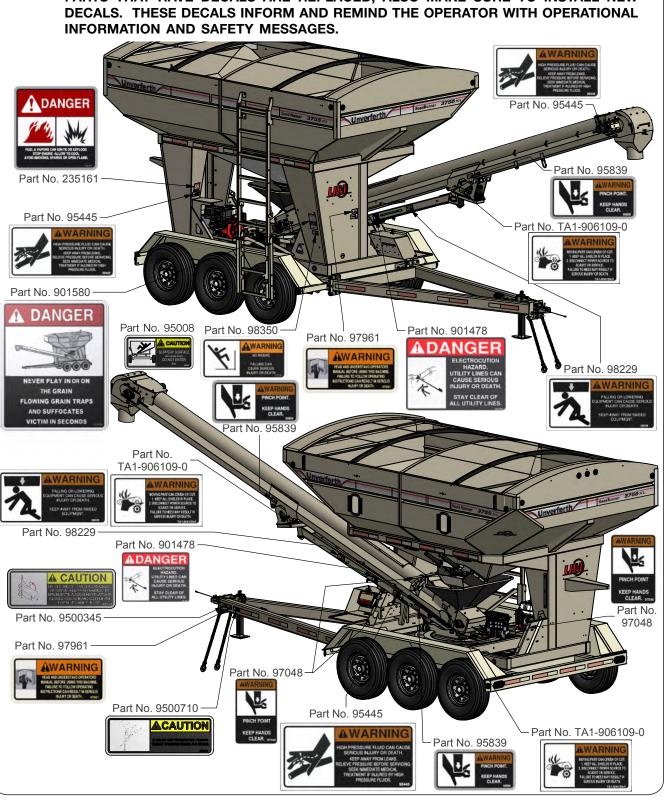
IMPORTANT

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





REPLACE LOST, DAMAGED, PAINTED, OR UNREADABLE DECALS IMMEDIATELY. IF PARTS THAT HAVE DECALS ARE REPLACED, ALSO MAKE SURE TO INSTALL NEW



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.
- Maximum transport speed of this implement should never exceed 20 mph as indicated on the machine. Maximum transport speed of any combination of implements must not exceed the lowest specified speed of the implements in combination. Do not exceed 10 mph during off-highway travel.
- Do not transport unit with rear compartment full and front compartment empty. The unit may not be properly balanced, offsetting the trail ability of the implement.
- Slow down before making sharp turns to avoid tipping. Drive slowly over rough ground and side slopes.
- It is probable that this implement is taller, wider and longer than the towing vehicle. Become aware of and avoid all obstacles and hazards in the travel path of the equipment, such as power lines, ditches, etc.

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:
 - o End fittings damaged, displaced, or leaking.
 - o Outer covering chafed/cut or wire reinforcing exposed.
 - o Outer covering ballooning locally.
 - o 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.



SECTION II Set Up

Pre-Delivery Checklist	2-2
Set Up	
Assemble Hitch or Gooseneck to Undercarriage	2-4
Ladder Installation	
Deluxe Ladder Installation (Option)	2-7
Moving 21' Conveyor from Shipping to Operating	
Hopper Cover	
UM2520 Scale Package With Auto Conveyor Shut Off (Option)	2-11
Scale Platform for Units Less Undercarriage (Option)	2-14
Scale Platform Riser Pads For Units Less Undercarriage (Option)	
6" Conveyor 3-Stage Telescopic Downspout (Option)	2-17
8" Conveyor 3-Stage Telescopic Downspout (Option)	2-17
4' Flex Spout for 6" Conveyor	
4' Flex Spout for 8" Conveyor	
2-Stage Telescopic Downspout for 8" Conveyor	
Pintle Hitch & Clevis Hitch (Options)	
AG Decal Package, Decal Placement	

FOR LED WORK LIGHT INFORMATION, PLEASE REFER TO YOUR LED WORK LIGHT MANUAL. FOR ELECTRIC TARP INFORMATION, PLEASE REFER TO YOUR ELECTRIC TARP MANUAL. FOR T&G LUBRICANT APPLICATOR INFORMATION, PLEASE REFER TO YOUR T&G LUBRICANT APPLICATOR MANUAL.

Pre-Delivery Checklist

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

is r	made.
	Torque wheel nuts as specified in Maintenance section.
	Torque all axle mounting hardware to 120 ftlbs.
	Verify the lift assist tension bolt for 6" conveyor has a measurement of 1 3/4" and the
	8" conveyor has 1 5/8" measurement.
	Tires are inflated to specified air pressure.
	All grease fittings have been lubricated.
	Verify all safety decals are correctly located and legible. Replace if damaged.
	Verify all reflective decals are correctly located.
	Check belt alignment and tension.
	Verify transport lights are working properly.
	Transport chains are properly installed and hardware is torqued to specification.
	Paint all parts scratched in shipment.
	If applicable, charge the wireless remote control batteries.

Set Up

A 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 PER-SONAL 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 7,000 LBS. SPECIFIC LOAD RATINGS FOR INDIVIDUAL LOADS WILL BE GIVEN AT THE APPROPRIATE TIME IN THE INSTRUCTIONS.
- EYE PROTECTION AND OTHER APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT MUST BE WORN WHILE SERVICING THE IMPLEMENT.

IMPORTANT

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

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.

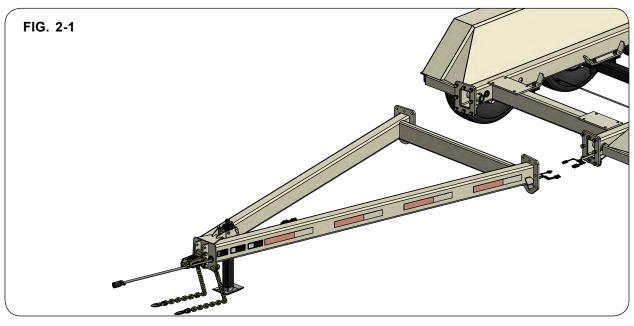
See your Unverferth dealer for additional brackets, reflectors, or lights to meet your requirements.

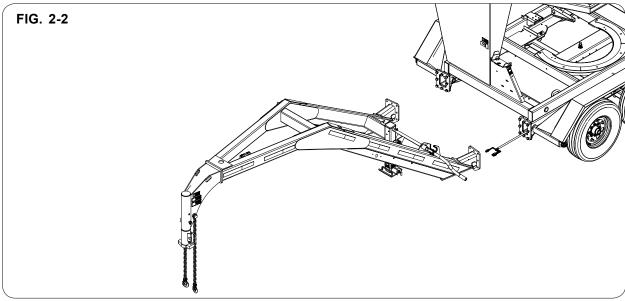
For your safety, and the safety of others, use proper tools and equipment and always use safe working procedures. Refer to these instructions before starting any work on the machine.

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

Assemble Hitch or Gooseneck to Undercarriage

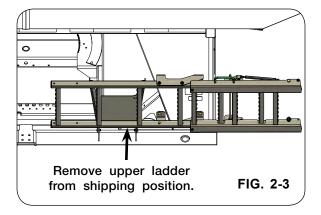
- 1. If the unit was shipped with a hitch installed, torque 5/8"-11UNC retaining hardware to 120-135 ft.-lbs. If it was shipped without a hitch installed, proceed to step 2.
- 2. Place jack stand rated for minimum 1000 lbs. capacity under front of undercarriage frame. Raise hitch using a safe lifting device with a minimum 1000 lbs. capacity, and place the hitch in line with the undercarriage.
- 3. Connect the electrical connections, and push extra wire harness into tubes. Move hitch against undercarriage frame being careful not to pinch the wiring harness.
- 4. Bolt the hitch to undercarriage using 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 function of the lighting. See Maintenance section for the schematic, if needed.



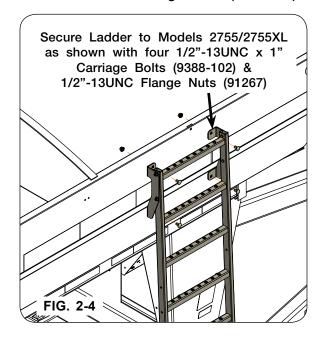


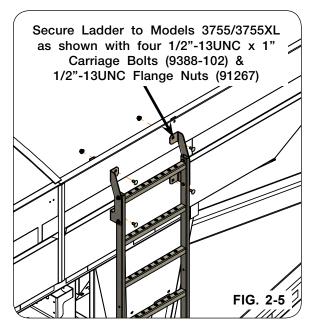
Ladder Installation

 Remove upper ladder from the side of the box (FIG. 2-3). The hardware can be discarded.



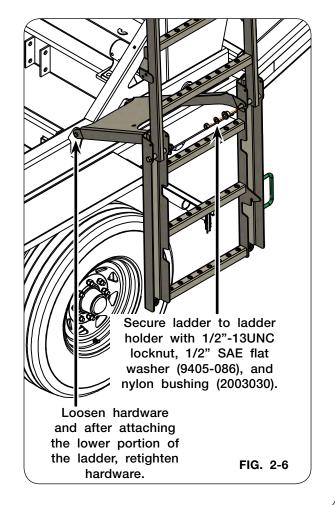
2. Attach the upper ladder to the right side of the box, using the predrilled holes at the top. Note the positioning of the mounting brackets. Secure in place using four 1/2"-13UNC x 1" carriage bolts (9388-102) and 1/2"-13UNC flange nuts (91267).





Ladder Installation (continued)

- 3. Slightly loosen the hardware connecting the ladder holder to the undercarriage.
- Remove the 1/2"-13UNC locknut (9800), 1/2" SAE flat washer (9405-086), and nylon bushing (2003030) from ladder as shown in FIG. 2-6. 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.



Deluxe Ladder Installation (Option)

- 1. Using a safe lifting device rated for 150 lbs. remove upper ladder from the rear of the Seed Runner box. Retain hardware to mount new deluxe ladder.
- 2. Using a safe lifting device rated for 150 lbs. position 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. 2-7.



Deluxe Ladder Installation (Option) (continued)

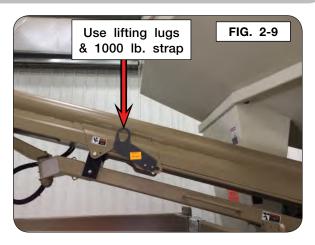
- Remove the 3/8"-16UNC locknut (9928), 3/8" SAE flat washer (9405-074), and nylon bushing (2003029) and 3/8"-16UNC x 1 1/4" capscrews (9390-056) from ladder as shown in FIG. 2-8.
- 4. Attach the ladder to the box with the hardware provided.



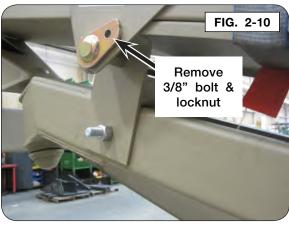
Secure ladder with 3/8"-16UNC locknut, 3/8" SAE flat washer (9405-086), nylon bushing (2003029), and 3/8"-16UNC x 1 1/4" capscrews (9390-056).

Moving 21' Conveyor from Shipping to Operating Position

1. Lift conveyor using minimum 1,000 lb. strap and lift. Discard lifting lugs after usage.



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



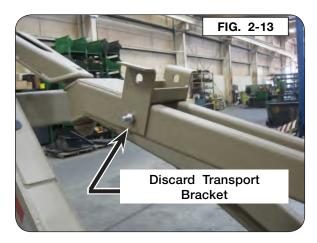
Moving 21' Conveyor from Shipping to Operating Position (continued)

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



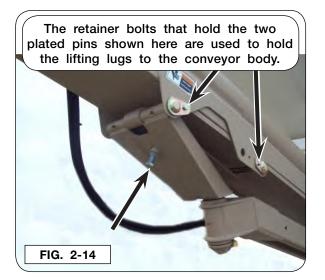


4. Hoist conveyor, remove and discard transport bracket.

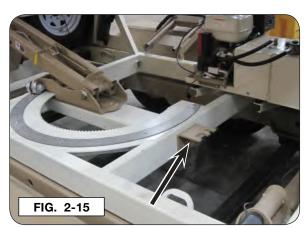


Moving 21' Conveyor from Shipping to Operating Position (continued)

 Move conveyor forward to operating position. Insert pin into working position and fasten using 3/8" bolt and locknut.



- 6. Hopper end of conveyor can be latched into normal operating position.
- 7. Remove and discard lower transport bracket.
- 8. Adjust spring assist. Refer to OPERATION section "Adjustable Spring Assist".



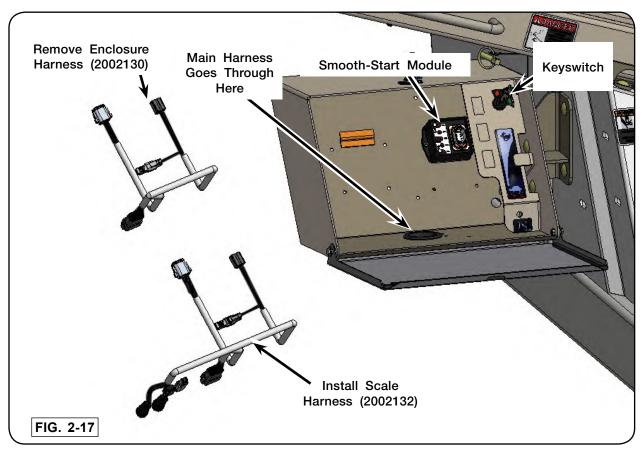
Hopper Cover (#9501361)

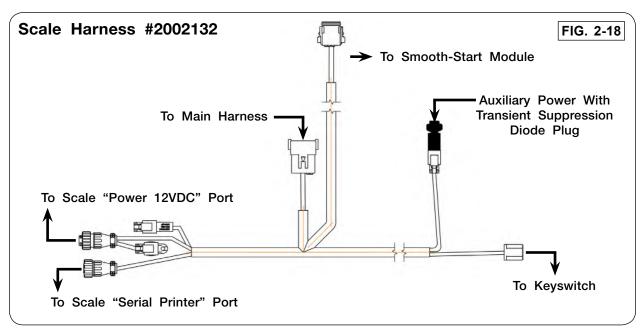
1. Install hopper cover.



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

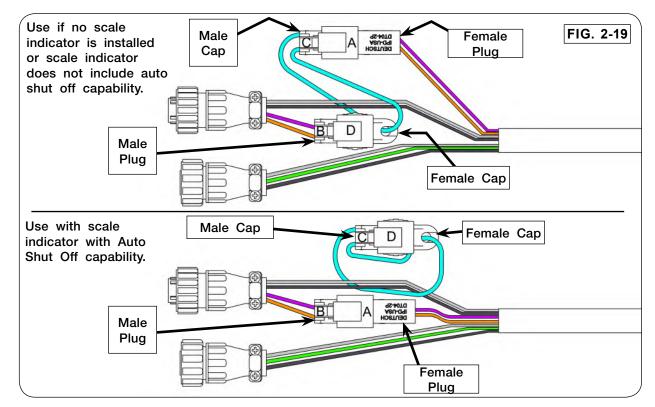
1. Remove current enclosure harness (2002130) and replace with scale harness (2002132). Make connections to ignition switch, main control harness, and Smooth-Start module.





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

- 2. Convert the harness (2002132) to work with the 2520 scale. (FIG. 2-19)
 - 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. 2-19.
 - D. Connect the female cap and male cap. Refer to FIG. 2-19.



- 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. 2-20



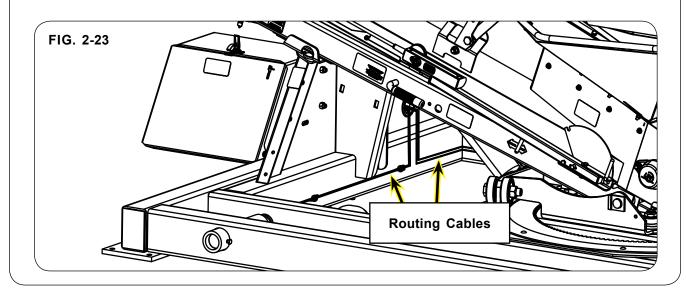
UM2520 Scale Package (#2003617TS) (Option) With Conveyor Auto Shut Off (continued)

5. Remove two hold down brackets from one side of the box. Assemble load bar into scale bracket (29477TS) using two 3/8"-16UNC x 3 1/2" capscrews (9390-065) and 3/8"-16UNC top locknuts (9928). The load bars must be assembled so the arrow on the backside of the load bar is pointing down. The serial number decal on the load bar should be on the bottom side and the bending direction decal should be pointing towards the ground (FIG. 2-22). Using a safe lifting device with a minimum 7,000 lb. lift capacity, carefully lift one side of box approximately 1". Slide load bar into bushing on inside of box. Fasten bracket 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.





6. Route load bar cables along inside edge of box and fasten using the cable ties (9000106). Be certain cables will not get pinched or worn. FIG. 2-23



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

7. Route cables from load bars into opening at bottom of enclosure and connect to the scale indicator (902034) ports. FIG. 2-24



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

Lift Seed Runner box using safe lifting devices rated for minimum 7,000 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 load bars into the bushing on the inside of the Seed Runner tender as shown below.

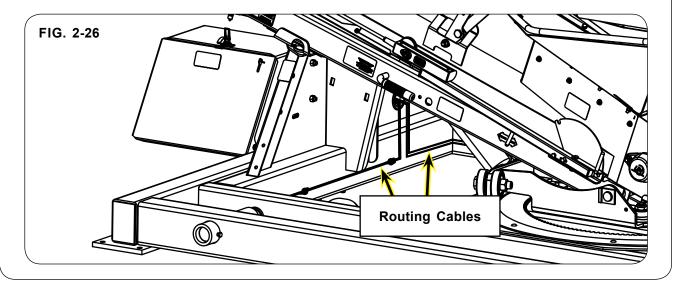


Arrange the scale base weldments (#25746TS) around the Seed Runner tender. Secure the scale base weldments together with eight 5/8"-11UNC x 2" capscrews (9390-124) and 5/8"-11UNC locknuts (9801).

Secure the load 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 load bars must be assembled so the arrow on the backside of the load bar is pointing down. Repeat this process for all four corners of the box.

Route load 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 load bars into opening at bottom of enclosure and connect to the scale indicator (902485) ports. Connect power cord (9002746) to indicator, and fasten indicator into enclosure using two 1/4" x 3/4" bolts (9390-003) and lock nuts (9928).

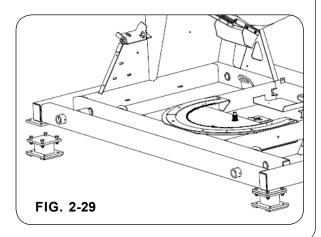


Scale Platform Riser Pads (Option) for Units Less Undercarriage (#2000945TS)

- 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 Seed Runner tender.
- Attach the riser pads to the bottom of the Seed Runner, using the appropriate hardware provided.
- 4. Lower the front of the Seed Runner tender.
- 5. Using a safe lifting device rated for 7,000 lbs., lift the rear of the Seed Runner tender.
- 6. Attach the riser pads to the bottom of the Seed Runner tender, using the appropriate hardware provided.
- 7. Lower the rear of the unit.
- 8. Secure the riser pads to the truck/trailer frame.





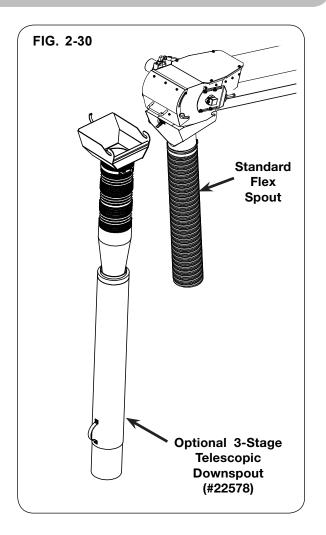


3-Stage 6'-10' Telescopic Downspout (Option) For 6" Conveyor (#22578)

- 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. Lower the conveyor to approximately 4-5 feet off the ground, shut off the engine and remove the ignition key.
- 2. Remove the 4' flex spout from the conveyor.
- 3. Slip the optional telescopic downspout (22578) with T-bolt clamp ring (98060) over the conveyor tube end and tighten.

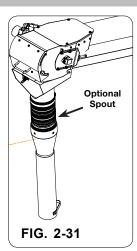
NOTE: The standard 4' flex spout is intended for bulk seed loading into large central-fill planter seed hoppers (35 to 100 bushels). It has flex hose attachment at the discharge end of the conveyor and requires no manual holding or maneuvering of the spout during operation.

The optional 6' to 10' telescoping spout is intended for manual filling of smaller individual planter seed hoppers, requiring increased operator holding, lifting, maneuvering of the long spout assembly while filling. The spout therefore is downsized with a metal adapter for a smaller 6" flex hose and smaller diameter spout for more manageable handling of the spout. The operator is encouraged to slow the conveyor speed for proper operation.



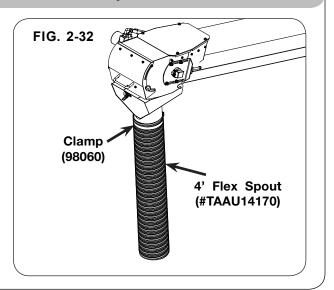
3-Stage 6'-10' Telescopic Downspout (Option) For 8" Conveyor (#29782)

- 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. 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.



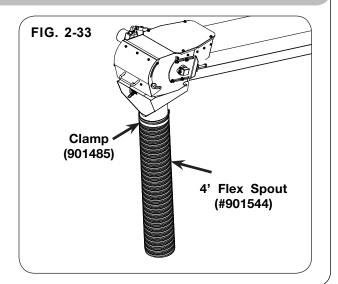
4' Flex Spout for 6" Conveyor (#TAAU14170)

- Park the empty unit 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 (98060) and spout from the conveyor.
- 3. Slip the 4' flex spout over the conveyor tube end and tighten with T-bolt clamp ring (98060).



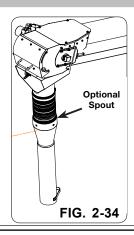
4' Flex Spout for 8" Conveyor (#901544)

- 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. 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).



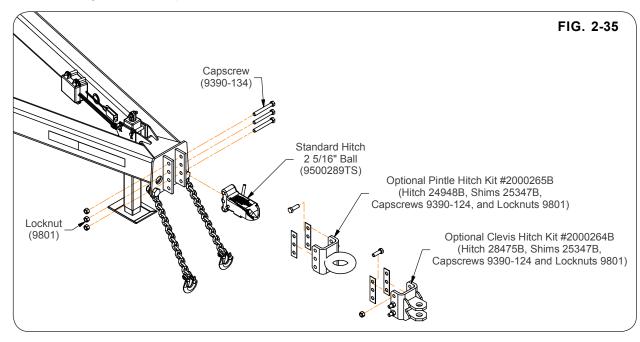
2-Stage Telescopic Downspout for 8" Conveyor (#27642TS)

- 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. 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.



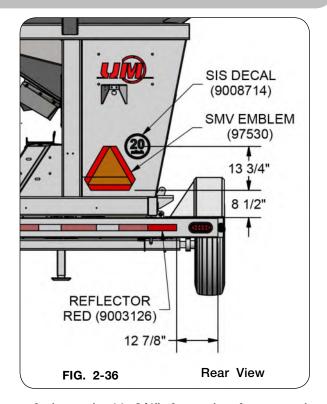
Hitch (Options) Pintle Hitch (#24948B) & Clevis Hitch (#28475B)

- 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.

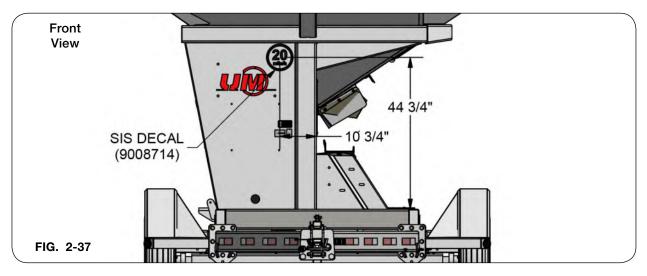


AG Decal Package, Decal Placement

- 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)

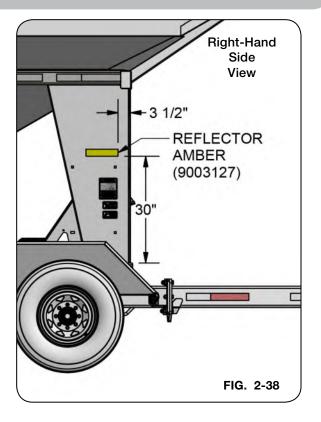


4. Attach the SIS decal (9008714) to the front of the unit 44 3/4" from the frame and 10 3/4" from the side of the panel as shown in FIG. 2-37.

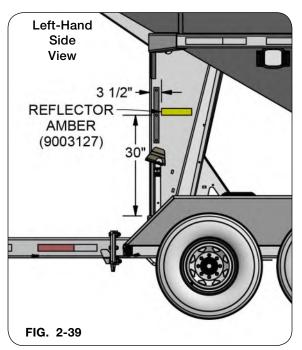


AG Decal Package, Decal Placement (continued)

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)



Seed Runner 2755/2755XL/3755/3755XL — Set Up

Notes

SECTION III Operation

Preparing lowing Vehicle	. 3-2
Preparing Implement	3-3
Hydraulic System	. 3-3
Lubrication	. 3-3
Tires/Wheels	. 3-3
Connecting Seed Runner Tender to Towing Vehicle	. 3-4
Transport Chains	. 3-4
Transporting	. 3-5
Hydraulic Power Unit Operation	. 3-7
Before Staring Engine	. 3-9
Cold Start Ball Valve	3-10
Starting Engine	3-10
Adjusting Hydraulic Pressure Relief Valve	3-12
Conveyor Belt Electronic Speed Control Valve	3-14
Conveyor Belt Manual Speed Control Valve	3-14
Pivoting Conveyor Side-to-Side	3-15
Raising and Lowering Conveyor	3-15
Filling Planter or Drill	3-16
Filling Seed Runner Tender from Another Wagon or Bulk Container (Self-Filling)	3-17
Spring Assist Adjustment	3-21
Ladder	3-22
Deluxe Ladder (Option)	3-23
Tarp	3-24
3-Function Wireless Remote (Option)	3-25
6-Function Wireless Remote (Option)	3-25
7-Function Wireless Remote (Option)	3-26
Override Box Options	3-26
UM2520 Electronic Scale	3-27
Downloader Module (Option)	3-31
Auto-Shutdown Feature for UM2520 Scale ONLY (Option)	3-32
UM2520 Scale Weight Calibration (Option)	3-33
Filling Individual Planter Boxes	
Filling a Central Fill System or Larger Quantity	
Hydraulic Jack (Option)	
Gooseneck Cushion Hitch Height/Air Pressure Adjustment	

FOR LED WORK LIGHT INFORMATION, PLEASE REFER TO YOUR LED WORK LIGHT MANUAL. FOR ELECTRIC TARP INFORMATION, PLEASE REFER TO YOUR ELECTRIC TARP MANUAL. FOR T&G LUBRICANT APPLICATOR INFORMATION, PLEASE REFER TO YOUR T&G LUBRICANT APPLICATOR MANUAL.

Preparing Towing Vehicle

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. Check vehicle 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 3755/3755XL

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

Model 2755/2755XL

- Gross Vehicle Weight Rating is 19,500 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 unit is being pulled across.

Towing vehicle hitch - ball, pintle hook or drawbar 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.

Tires/Wheels



CAUTION

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

A 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 tender 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 gooseneck hitch is also available with 2 5/16" coupler.

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 ball or pintle hook. 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 CHAIN WHEN TRANSPORTING IMPLEMENTS. FAILURE TO USE A TRANSPORT CHAIN COULD CAUSE PERSONAL INJURY IF IMPLEMENT BECOMES DISENGAGED.
- REPLACE TRANSPORT CHAIN IF ANY LINK OR END FITTING IS BROKEN, STRETCHED, DAMAGED OR NOT FUNCTIONING. DO NOT WELD TRANSPORT CHAIN.
- USE ONLY AN UNVERFERTH DOT TRANSPORT CHAIN WITH A WEIGHT RATING EX-CEEDING THE GROSS COMBINED WEIGHT OF ALL TOWED IMPLEMENTS. CONTACT YOUR UNVERFERTH DEALER FOR ADDITIONAL INFORMATION.

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.



Transporting

▲ DANGER

ELECTROCUTION WILL CAUSE SERIOUS INJURY OR DEATH. ELECTROCUTION CAN OCCUR WITHOUT DIRECT CONTACT. KEEP AWAY FROM ALL UTILITY LINES AND DEVICES.



WARNING

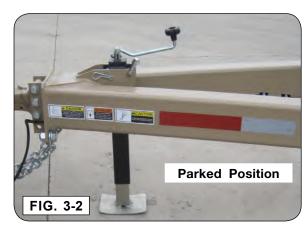
- THE REAR HOPPER OF THE SEED TENDER BOX SHOULD ALWAYS BE EMPTIED FIRST.
 THIS WILL MAINTAIN WEIGHT ON THE HITCH OF THE TOWING VEHICLE. EMPTYING
 THE FRONT HOPPER FIRST WITH THE REAR HOPPER FULL COULD RESULT IN NEGATIVE TONGUE WEIGHT ON THE UNDERCARRIAGE AND REDUCED CONTROL OF THE
 UNDERCARRIAGE WHEN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

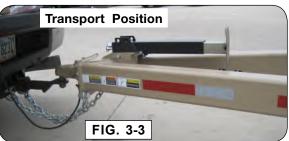
A CAUTION

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

IMPORTANT

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





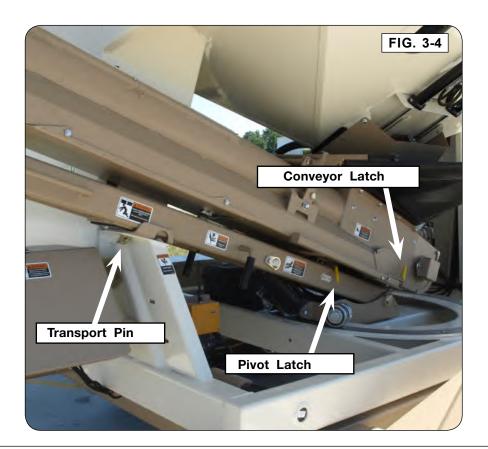
Transporting (continued)

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

A 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 SERVIC-ING. 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.

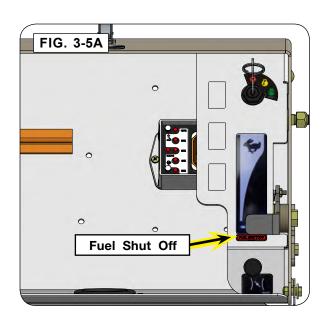
Hydraulic Power Unit (continued)

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.

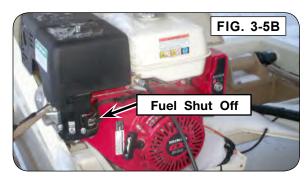
• BRIGGS & STRATTON ENGINE:

Before transporting and when engine is not in use, place throttle lever in the FUEL SHUTOFF area. (FIG. 3-5A)



HONDA ENGINE:

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. 3-5B.



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

Hydraulic Power Unit (continued)

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.





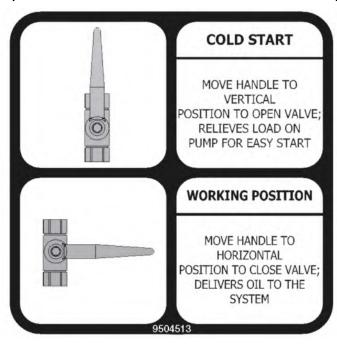


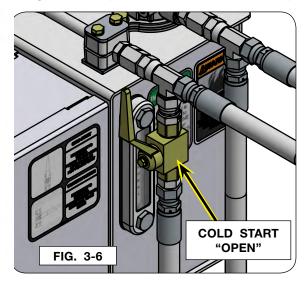


Hydraulic Power Unit (continued)

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).

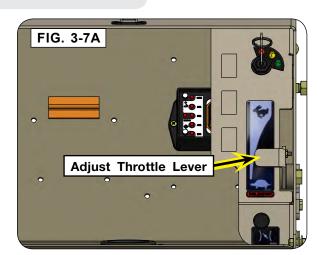




Starting Engine

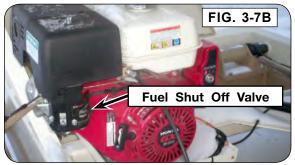
1. BRIGGS & STRATTON ENGINE:

Place throttle lever above the FUEL SHUTOFF area.



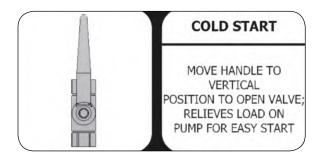
HONDA ENGINE:

Turn fuel shut off valve to <ON> position.

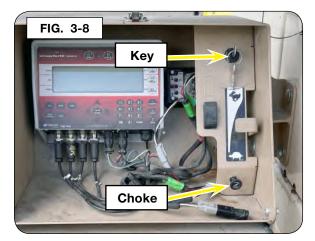


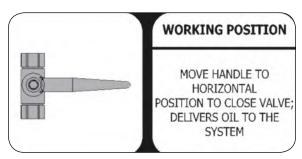
Hydraulic Power Unit (continued)

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



- 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.
- 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. 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.

A WARNING

- FAILURE TO REPLACE THE CAP ON THE RELIEF VALVE BEFORE STARTING THE EN-GINE 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

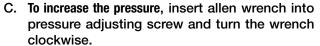
• This Seed Runner® tender can be adjusted to provide system pressures from 1,000 PSI up to 2500 PSI. When adjusting the relief to allow the system to exceed 1800 PSI, the engine will tend to bog down due to the load and in high load applications, may cause the engine to stall.

Hydraulic Power Unit (continued)

IMPORTANT

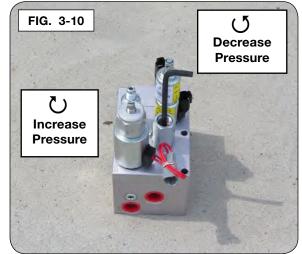
- It will be necessary to install a pressure gauge into the hydraulic system to accurately adjust the relief valve.
- B. Remove the cap from the relief valve on the directional control valve with an allen wrench (FIG. 3-9).

NOTE: Do not start engine with cap removed.



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



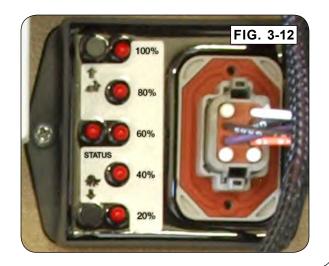


- D. Replace the cap on the relief valve and tighten (FIG. 3-11).
- E. Start engine, fully raise the conveyor then read the system pressure while the conveyor raise control is engaged. Repeat steps B through D until the desired relief pressure is achieved.



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% increments by flashing and 20% increments by being on continuously.



Conveyor Belt Manual Speed Control Valve

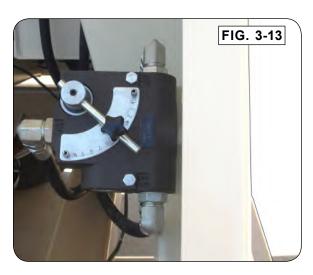
Speed of conveyor belt is controlled independently from engine speed by using the flow control valve mounted on rear standard. Slower conveyor belt speed is needed for certain types of seed. (Ex. - peanuts)

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.

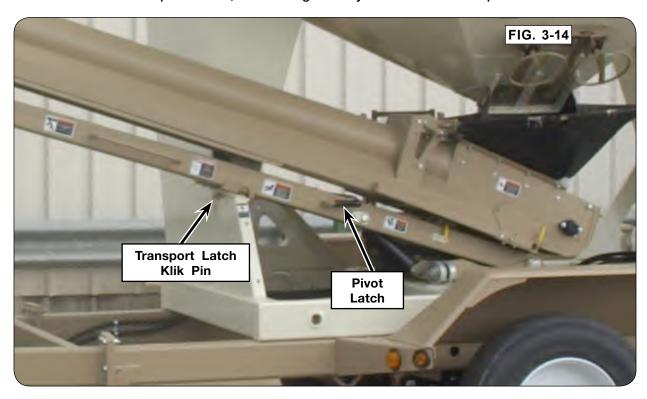
How To Adjust Speed Control Valve

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.



• WHEN THE SEED RUNNER 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. 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 tender box shortly before last planter box is full, and let conveyor empty out.

<u>NOTE</u>: When using Seed Runner tender to fill individual planter boxes, the cover plate must be installed over 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.

A 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.

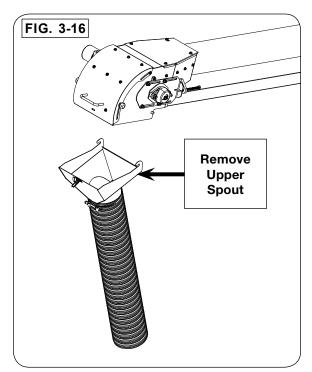
Filling Seed Runner Tender From Another Wagon or Bulk Container (Self-Filling)

WARNING

- THE SEED RUNNER TENDER 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. 3-15)

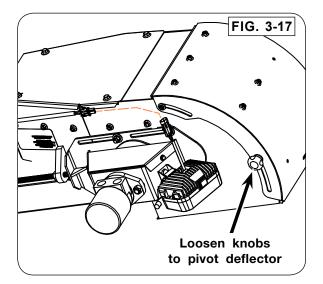


2. Remove upper spout from conveyor by releasing latch and sliding spout off of conveyor. (FIG. 3-16)



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

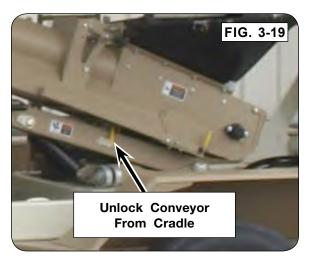
3. Loosen the two knobs on the side of the deflector, pivot deflector up, and tighten knobs to hold deflector in place. (FIG. 3-17)



 Raise conveyor about half way up and position it at a 45 degree angle from the box. (FIG. 3-18)



5. Unlatch conveyor from lower cradle. (FIG. 3-19)

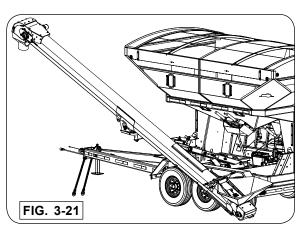


Filling Seed Runner From Another Wagon or Bulk Container (Self-Filling) (continued)

6. Lower flexible hopper by sliding lever back.



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



Filling Seed Runner 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.
- 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

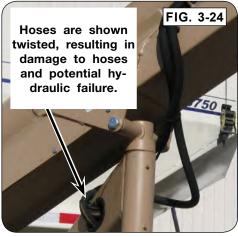
 When pivoting conveyor, be certain to pivot back in the direction it originally came from. Do not pivot conveyor round and around. Doing so will twist hydraulic hoses at pivot point resulting in damage to hoses and potential hydraulic failure.

IMPORTANT

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









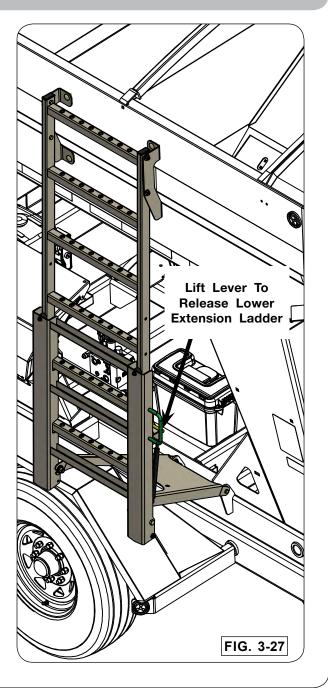
Spring Assist Adjustment

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 bolt 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. 3-27 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. 3-28 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 when removing tarp from box.
- 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 handle 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 set up instructions and parts listing.



Override Box Options



Override Box 2 & 3 Function (2009341)

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



Override Box 6 Function (2009333)



Override Box 7 Function (2010504)

UM2520 Electronic Scale

Basic Operation

To ensure that the maximum error is within the scale manufacturer's accuracy of +/- 1%, the Seed Runner tender must be stationary and on level ground when using the scale.

NOTE: Scale turns on as soon as power is applied.

- 1. Zero balance scale by pushing and holding the "Zero" button. This should be done where Seed Runner tender is going to be unloaded (on level ground if possible).
- 2. Load Seed Runner tender and let scale total up weight. When Seed Runner tender is full, drive up to planter wagon or truck and stop. After scale settles on a number, push the "Tare" button. Scale indicator will show zero.
- Start unloading Seed Runner tender. When planter wagon or truck is full or Seed Runner tender is empty, the negative amount shown on scale is actual product in planter wagon or truck.
- 4. Push the "Net/Gross" button. This will put the scale back into the gross weighing mode again. If the Seed Runner tender has grain in it yet, it will tell you how much weight is left on the Seed Runner tender. You can now load the Seed Runner tender again and repeat the same unloading process.
- 5. It is recommended to periodically fully empty the Seed Runner tender and rebalance the scale.

NOTE: Refer to your scale indicator manual for additional operating information.



UM2520 Electronic Scale (continued)

Detailed Procedures

To Zero / Balance the Scale

- 1. Press the [NET/GROSS] key and within three seconds,
- 2. Press the [ZERO] key.

The **[ZERO]** key will "balance off" empty undercarriage, bin, or platform weight.

The "ZERO" message is displayed and the scale is placed in the GROSS mode.

Pressing only the [ZERO] key will cause the message "TO ZERO / BALANCE PRESS NET/GROSS -- THEN ZERO" to be displayed.



If the supply power is below the "low battery threshold" (10.5 Volts), the message "INDICATOR CANNOT BE ZERO/BALANCED -- LOW BATTERY VOLTAGE" is displayed. The message "LO BAT" will be periodically shown on the display (approx. every five seconds) to alert the operator of the low battery condition.

Loss of power does not affect the ZERO/BALANCE or "Set Up/Calibration" values.

UM2410 & UM2520 Electronic Scale (continued)

Detailed Procedures (continued)

To Select Gross Mode

GROSS mode displays the weight change since it was last ZERO/BALANCED.

1. Press [NET / GROSS].

The scale is in **GROSS** mode if there is a flashing arrow pointing toward the word **GROSS**, next to the display.

To Select Net Mode

NET mode displays the weight change after a TARE has been performed. TARE is a temporary "zero" or reference point.

- Press [TARE] key for 3 seconds to set a temporary "zero" point and enter the NET mode.
- 2. If in Gross mode, press [NET / GROSS] key.

The [NET/GROSS] key is an alternating action key. If the scale is in the GROSS mode, pressing the [NET/GROSS] key will place it in the NET mode. If the scale is in the NET mode, pressing the [NET/GROSS] key will place it in the GROSS mode.

If the TARE function has not been previously performed, the Seed Runner will stay in the GROSS mode and the message "FOR NET MODE PRESS TARE" will scroll across the display.

The scale is in **NET** mode if there is a flashing arrow pointing toward the word **NET**, next to the display.

To Print (Optional Feature)

Press the **PRINT** key. Scale data will be sent to the printer or data downloader.







UM2410 & UM2520 Electronic Scale (continued)

Detailed Procedures (continued)

To Change the Set Up & Calibration Numbers

- 1. Press [ON] to turn on the scale.
- To enter Short Form Calibration & Set Up press and hold the [ZERO] key, then press the [ON] key and hold until the message displayed is "SET UP".
- Next, the actual SET UP number is displayed. (NOTE: Factory SET UP number is 146040.)
- 4. Press the [ZERO] key for additional help information during Set Up and Calibration.
- If the correct SET UP number is displayed, press the [ON] key to advance to the CAL number.

(NOTE: Factory CAL number is 32640.)

- A. Press the [SELECT] key to cause the "flashing" digit to count upward.
- B. Press the **[FUNCTION]** key to select which digit is flashing.
- When the correct SET UP number is displayed, press the [ON] key to advance to the CAL number.

This displays the CAL message, followed by the CAL number.

The CAL number is not a weight. It is a reference value the indicator uses to determine the weight. This number directly affects the accuracy of the scale system.

NOTE: For units with serial number D71830100 to D71830154 using an adapter cable between the indicator and load bars, use cal number 15011,

Change the CAL number using the same method described in step 5. When the display shows the correct number, press the [ON] key. This causes the number to be stored permanently in the indicator and returns the indicator to the weighing mode.

SET UP

146040

32640

32641

CAL

32640

15011

To Return to Weigh Mode

1. To exit set up without changing any values, press and hold the [TARE] key, then press the [ON] key.

Downloader Module Option

Getting Started

Load the DTU (Data Transfer Utilities) software on your PC. Instructions are included with the CD-Rom Software.

1. System Requirements for Computer

• Windows 98/2000/NT operating system: Pentium 100 PC or better

Serial Port: 100 MB of free disk space

• CD-Rom Drive: 32 MB of RAM

2. Connect Cable to Computer

The cable included with your DDL Kit, connects to the serial port on your computer. The serial port is referred to as "COM port." If your computer has more than one COM port, they will usually be named COM1, COM2, etc. This cable has a 9-pin D-sub connector. The cable must be securely connected to a COM port to function.

3. Connect DDL to Indicator

Connect DDL to Serial/Printer port (J904) on Digi-Star indicator, which is located on bottom panel. Press the "Print Key." When indicator printing is completed, remove DDL.

3a. DDL Set Up Requirements

Use of the DDL (Data Downloader) with the EZII series indicators requires the latest software version. It is recommended that you call the Digi-Star Service Department for the latest software version and upgrade, if necessary to become current, before attaching and using a DDL.

Menu 2 in the long form set up contains some features that must be set for the DDL to function properly. They are:

SCOREM 0 COM IN DOWNLD C1 DLY .10



4. Connect DDL to Cable

Simply fasten module on the black circular plastic connector opposite computer connector. The module will lock on the cable connection with a twist of the fastener on module. Be sure that the module is secured on cable.

5. Operate the DDL from Computer

Follow Data Transfer Utilities (DTU) software instructions included with the CD-Rom software.

Refer to the Manufacturer's Operation and Installation Manual for complete instructions, trouble-shooting, and scale set up/configuration guide or visit www.digi-star.com on the Web.

Auto-Shutdown Feature for UM2520 Scale ONLY (Option)

- 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.
- 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.



<u>NOTE</u>: 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.

UM2520 Scale Weight 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.

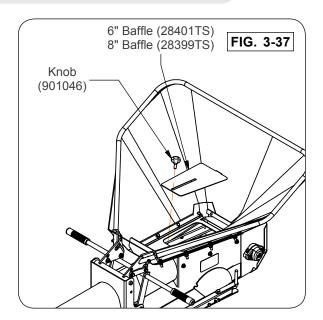
<u>Note</u>: These calibration steps are to quantify the amount of grain in the downspout when the conveyor turns off.

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".
- The scale will flash "PRESET". With the Seed Runner tender engine running, press the hand-held control button to turn on the conveyor.
- Increase the throttle so the engine is at a desired constant speed that will be used during normal operation.

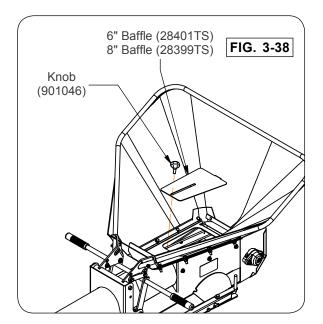


- 5. Open the flow door(s) of the Seed Runner tender to a desired amount that will be used during normal operation.
- 6. Once the conveyor turns off, record the number displayed on the indicator (Example: 0, 10, 20, etc.).
- 7. To verify the unload amount, perform the procedure again. Press the conveyor 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.
- 12. Once the conveyor auto shut off is calibrated, refer to the operator's manual for normal operation.

UM2520 Scale Weight Calibration (Option) (continued)

Filling a Central Fill System or Larger Quantity

- 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 tender engine running, turn on the conveyor.
- 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 tender 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.).
- 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.
- 12. When the conveyor auto shut off is calibrated, refer to the operator's manual for normal operation.

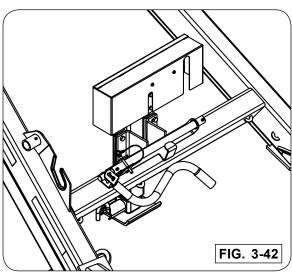
Seed Runner 2755/2755XL/3755/3755XL — Operation

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.



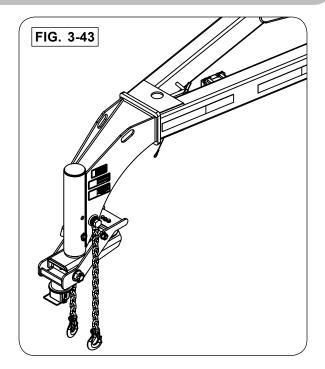
Gooseneck Cushion Hitch Height/Air Pressure Adjustment

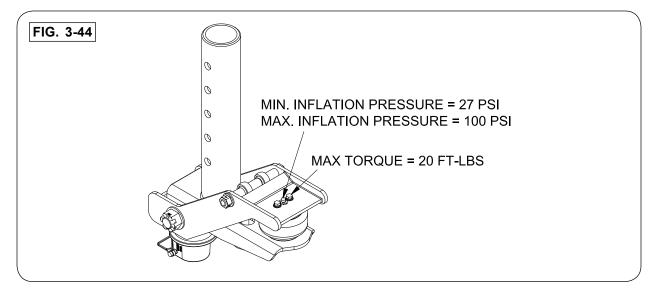
Make sure seed tender is running level when loaded.

Adjust the air pressure as needed to get the desired ride quality for customer's set up.

Min. Inflation Pressure = 27 PSI Max. Inflation Pressure = 100 PSI

<u>NOTE</u>: Do not over tighten the air bag retaining hardware.





SECTION IV Maintenance

Lubrication	4-2
Conveyor Bearings	4-2
Pivot Points	4-2
Hydraulic Power Unit	4-2
Gooseneck Cushion Hitch	4-3
Gooseneck Cushion Hitch Torque and Air Pressure	4-3
Hub Assembly	4-4
Hydraulic System	4-4
Purge Hydraulic System	4-5
Relieving Hydraulic Pressure	4-5
Conveyor Belt	4-6
Belt Tension	4-6
Belt Tracking	4-7
Manual Control of Conveyor	4-9
Pull Start Engine	4-10
Belt Stretcher (Option)	4-11
Brake Cleaning and Inspection	4-13
Brake Lubrication	4-13
Magnets	4-13
Shoes and Linings	4-14
How To Measure Voltage	4-14
How To Measure Amperage	4-15
Brake Drum Inspection	
Bearing Inspection	4-16
Bearing Lubrication	4-16
Troubleshooting Brakes	4-17
Power Pak	4-17
Battery Warranty	
Wheels and Tires	
Wheel Nut Torque Requirements	
Tire Pressure	
Tire Warranty	
Complete Torque Chart Capscrews	
Hydraulic Fittings	
Storage	
Troubleshooting	
Conveyor Raise/Lower Cylinder Not Working Properly	
Smooth-Start Module Troubleshooting	
Scale Troubleshooting	
Scale "Short Form" Set Up & Calibration	
Auto Conveyor Shut Off Troubleshooting	
Tank Lights and Magnetic Reed Switch	
Adjusting Proximity Switch	
Tarp Adjustment Procedures	
Electrical Schematics	
Stackable Valve Manual Override Operation & Wire Schematic	
Hydraulic Schematic for Conveyor	4-54

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

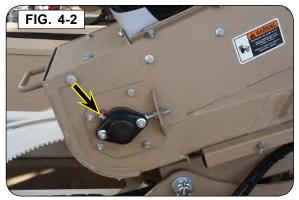
Lubricate these bearings every 8 hours of operation and at the end of each season before storage. Use only one stroke of grease per bearing.

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.

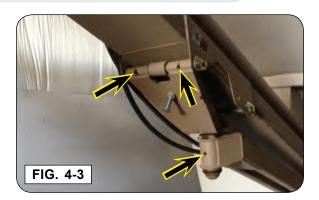
<u>NOTE</u>: Excessive lubrication of these bearings will result in premature failure.





Pivot Points

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



Hydraulic Power Unit

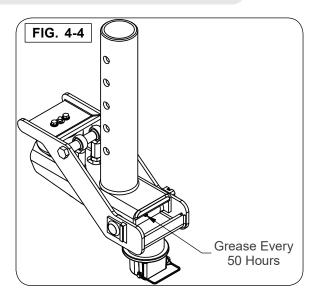
Inspect hydraulic oil level in reservoir daily. The level should be 1 to 1-1/2 inches from the top of the sight gauge. Add the appropriate amount of Chevron 1000 THF hydraulic oil as needed. Most farm tractor type hydraulic oils are acceptable. DO NOT use Automatic Transmission Fluid! DO NOT mix different 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

Gooseneck Cushion Hitch

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



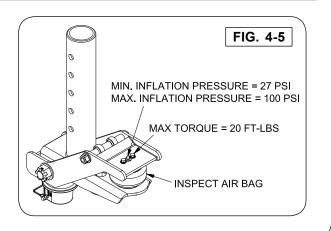
Gooseneck Cushion Hitch Torque and Air Pressure

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.



Hub Assembly

The wheel bearings should be cleaned, repacked and adjusted every 12 months or 2,500 miles, whichever comes first. Use a number 2 wheel bearing grease to repack the bearings. Use the following instructions to properly tighten the wheel bearings:

- 1. Use grease to lubricate the seal lip.
- 2. Place the hub onto the spindle. Rotate the hub while installing the hub so that the seal lip does not fold under as the lip goes on the seal face of the spindle.
- 3. Be sure the outer cone slides on the spindle and cup.
- 4. Assemble the washer and nut onto the spindle and spin hub as tightening nut and when hub stops turning back the nut off to the closet hole and insert cotter pin. Do not bend the cotter pin.
- 5. Check for looseness in the hub. There should be none to slight wiggle. If excessive wiggle is present, repeat the procedure starting with step 4.

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.

Hydraulic System (continued)

Purge Hydraulic System

A WARNING

- RELIEVE HYDRAULIC SYSTEM OF ALL PRESSURE BEFORE ADJUSTING OR SERVIC-ING. 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.

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 if relieved.

Conveyor Belt

A 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 and second use and then after the
2 hours of initial use. Thereafter, belt tension and 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.

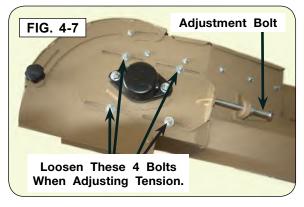
How To Tension Belt

- 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. 4-6 shows 1 1/2").
- Keep the tape measure pressed up against the belt and pull down gently on center lug of conveyor belt in the middle of the access door. The belt should deflect 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

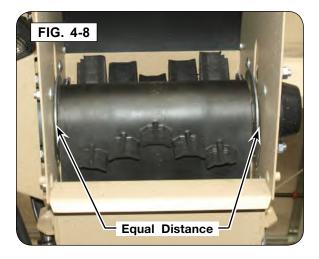
Belt tracking must be done every time tension is adjusted.

Conveyor Belt (continued)

Belt Tracking

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.



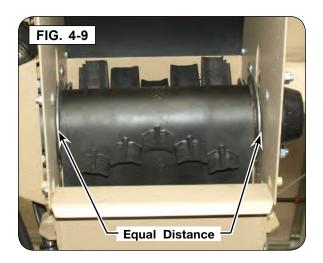
Adjust by loosening, DO NOT REMOVE, the four bolts on the side of the conveyor. Operate conveyor at slow speed, and tighten or loosen the adjustment bolt until belt is running in the center of the pulley.

A WARNING

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

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)

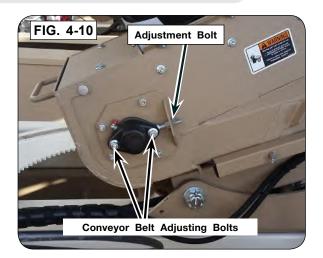
Belt Tracking (continued)

Adjust by loosening (DO NOT REMOVE) the 2 bolts holding on the bearing.

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

A WARNING

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



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

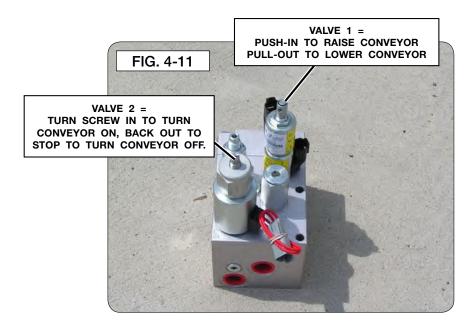
Manual Control Of Conveyor

If the Seed Runner is equipped with a wireless control, refer to "Override Box" instruction sheet #2009490 included with the override box on how to connect and operate the override box.

Should the wired switch not work to operate the conveyor, use the override buttons on the valve for operation. These are the 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. 4-11).

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. 4-11).



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

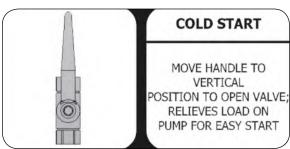
Pull Start Engine

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:

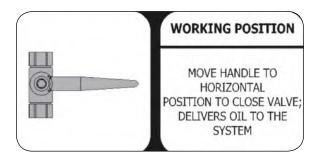
1. Flip the override switch to the "pull start" position. (FIG. 4-13)



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



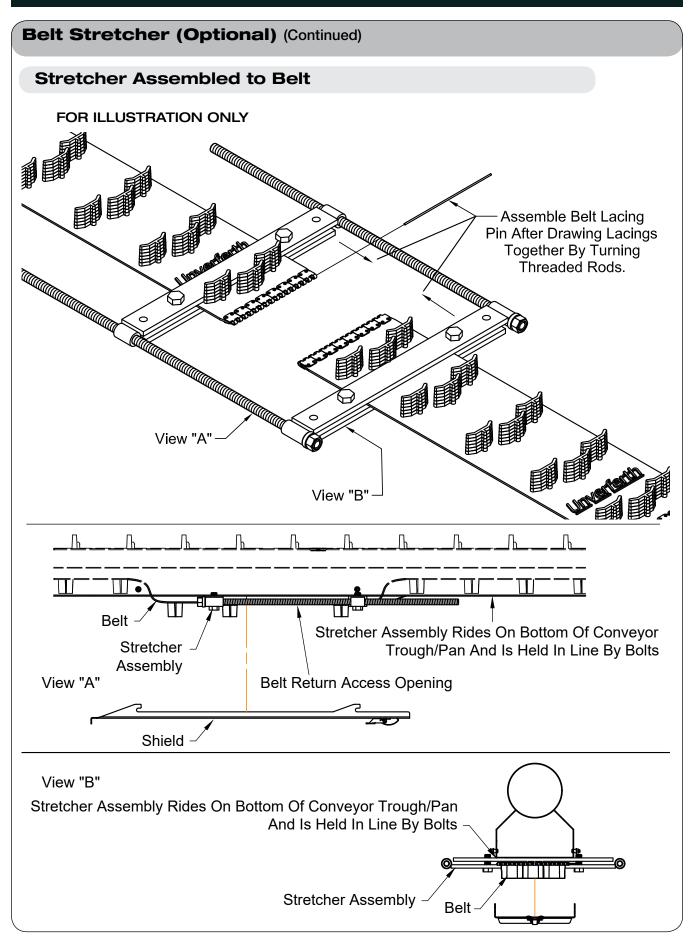
- 3. Pull the choke and then pull start the engine, open the choke as the engine warms.
- Once the engine is running, move the key switch to the on position and flip the override switch back to "key switch" position.
- 5. After the engine has ran for 3 to 5 minutes, then change cold start ball valve to CLOSED (handle horizontal) WORKING POSITION.



Belt Stretcher (Optional) Position Top Bar Weldments Behind Cleats As Shown Guide Sleeve Pass Threaded Rods Through Guide Sleeves, And Into Threaded Sleeves, Being Sure To Have Thrust Bearings Installed 5 As Shown. Threaded Sleeve 3 Use Inner Holes for 6" & 8" Belts -Use Outer Holes for 12" Belts Install Bottom Bars Across Underside Of Belt, And Secure With

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

Four 5/8"-11UNC x 1 1/2" Capscrews Through Top Bars As Shown.



Brake Cleaning and Inspection

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

A WARNING

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

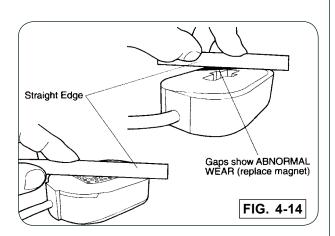
Brake Lubrication

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

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

Magnets

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



Brake Cleaning and Inspection (continued)

Shoes and Linings

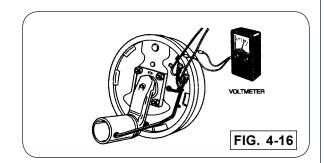
A simple visual inspection of your brake linings will tell if they are usable. Replacement is necessary if the lining is worn (to within 1/16" or less), contaminated with grease or oil, or abnormally scored or gouged. Hairline heat cracks are normal in bonded linings and should not be cause for concern. 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 burnished to seat in the new components. This should be done by applying the brakes 20 to 30 times from an initial speed of 40 m.p.h., slowing the vehicle to 20 m.p.h. Allow ample time for brakes to cool between applications. This procedure allows the brake shoes to seat in to the drum surface.



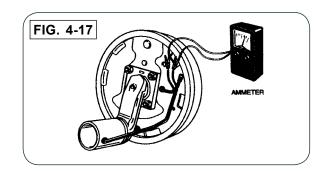
How to Measure Voltage

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



How to Measure Amperage

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



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

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.

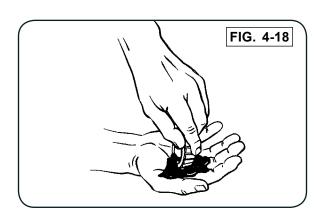
Bearing Inspection

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.

Bearing Lubrication

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

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



Troubleshooting Brakes

Most electric brake malfunctions, that cannot be corrected by either brake adjustments or synchronization adjustments, can generally be traced to electrical system failure. Voltmeters and 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.

<u>NOTE</u>: 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 engine dealers and service centers:

BRIGGS & STRATTON

US www.vanguardpower.com

Please provide Briggs & Stratton with the following engine information: 14 MAX HP/24.9 CU IN; 25V3

HONDA

<u>US</u> www.engines.honda.com <u>Canada</u> www.honda.ca

Please provide Honda with the following engine information:

11.7 HP/23.7 CU IN; GX390 UT2QNR2

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:

A 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 SE-RIOUS INJURY OR DEATH.
- HIGH-PRESSURE FLUIDS CAN PENETRATE THE SKIN AND CAUSE SE-RIOUS 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)

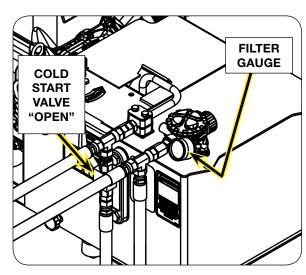
Replace the initial filter after 3 hours of use with the additional oil filter provided. It is not necessary to replace the hydraulic fluid at this time. When the filter is replaced after the initial filter replacement, it is important that the hydraulic fluid be replaced too. It takes approximately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

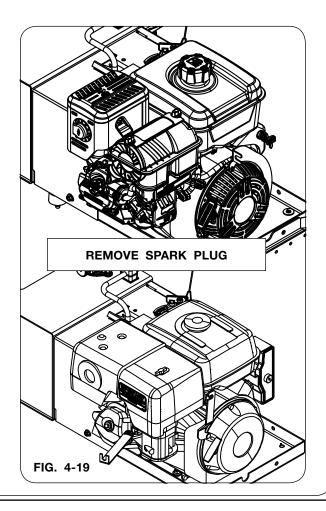
IMPORTANT

- 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.

 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.





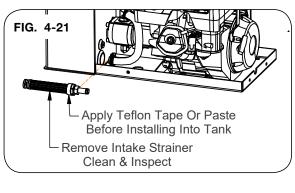
Power Pak (continued)

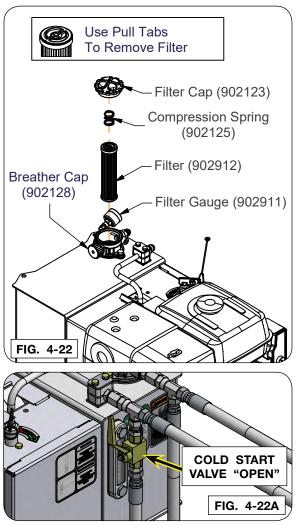
- Make sure a proper container is available to drain hydraulic oil. Remove hydraulic fluid o-ring drain plug (99692) and drain hydraulic oil into container, FIG. 4-20.
- FIG. 4-20
 O-Ring Drain Plug (99692)
- 3. Using a 1 7/8" wrench, remove intake strainer from tank. Clean strainer of all debris and 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.
- 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. <u>DO NOT</u> 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)
- 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.
- Reinstall spark plug and start engine. Run for 3-5 minutes before changing cold start valve to the CLOSED (handle horizontal) position.

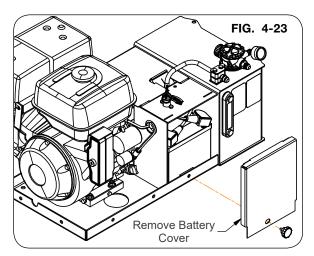


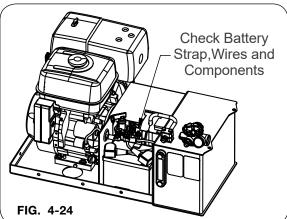


Power Pak (continued)

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.

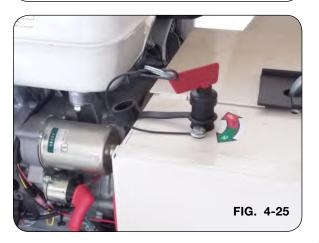
Be sure battery strap is secure preventing battery from shifting inside compartment.





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

Wheels and Tires

Wheel Nut Torque Requirements

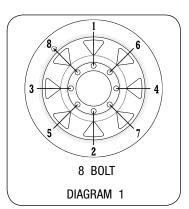


CAUTION

• 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	
9/16-18 (UNF)	110 ftlbs.	



Tire Pressure

The following is to be used as a general guide for tire inflation and figures can vary depending on specific brand of tire used. It is important that tires are inspected after unit is loaded. The maximum load carrying capacity of the tire is achieved by running the maximum PSI. Consult your local tire dealer before changing the operating PSI of your tires. DO NOT EXCEED MAXIMUM RECOMMENDED TIRE PRESSURE.

TIRE SIZE	PSI
235/85R16 LRE	80

(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:

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

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

Complete Torque Chart

Capscrews - Grade 5

NOTE:

• Grade 5 capscrews can be identified by three radial dashes on the head.



- For wheel torque requirements, refer to Wheels and Tires.
- Tighten U-bolts evenly and equally to have the same number of threads exposed on each end.

SIZE	FOOT POUNDS	NEWTON METERS
1/4-20	8-10	11-13
1/4-28	9-11	12-15
5/16-18	15-17	20-23
5/16-24	17-19	23-26
3/8-16	25-28	34-38
3/8-24	28-31	38-42
7/16-14	40-45	54-61
7/16-20	45-50	61-68
1/2-13	62-68	84-92
1/2-20	68-75	92-102
9/16-12	90-98	122-133
9/16-18	100-110	134-148
5/8-11	120-135	162-183
5/8-18	124-137	168-186
3/4-10	200-220	270-300
3/4-16	210-230	285-310
7/8-9	330-350	425-475
7/8-14	360-380	460-515
1-8	500-525	675-710
1-14	540-560	730-760
1 1/8-7	600-635	815-860
1 1/8-12	665-700	920-950
1 1/4-7	850-895	1150-1215
1 1/4-12	940-990	1275-1340
1 3/8-6	1125-1175	1525-1590
1 3/8-12	1280-1335	1735-1810
1 1/2-6	1500-1560	2035-2115
1 1/2-12	1685-1755	2285-2380

IMPORTANT

Follow these torque recommendations except when specified in text.

Hydraulic Fittings - Torque and Installation

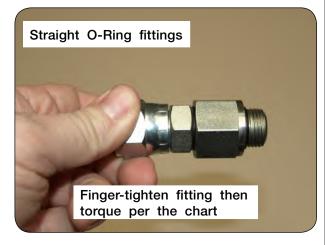
Tightening O-Ring Fittings

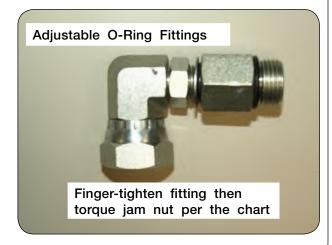
- Inspect components for damage or contamination. Do not connect any other type of fitting to an O-ring fitting.
- 2. For adjustable fittings, insure the jam nut and washer are fully backed up.
- 3. Lubricate the O-ring and threads on the fitting.
- 4. Turn the fitting into the port until it is finger tight.
- 5. For adjustable fittings, set in the desired position.
- 6. Using a wrench, torque the fitting to the value in the below table. For adjustable fittings the jam nut will be tightened.

NOTE: Never use a power tool to install a fitting.

Dash Size	Thread Size	Straight Stud Torque (Ft-Lbs)	Adjustable Stud Torque (Ft-Lbs)
-5	1/2-20	14-19	10-14
-6	9/16-18	18-24	12-16
-8	3/4-16	27-43	20-30
-10	7/8-14	36-48	30-36
-12	1-1/16-12	65-75	44-54
-14	1-3/16-12	75-99	53-70
-16	1-5/16-12	85-123	59-80
-20	1-5/8"-12	115-161	75-100
-24	1-7/8"-12	125-170	105-125







Hydraulic Fittings - Torque and Installation

Tightening JIC Fittings

- Inspect all components for damage or contamination. Do not connect any other type of fitting to a JIC fitting.
- 2. Lubricate the threads.
- 3. Turn the fitting into the port until it bottoms out.
- Use one wrench on the fixed hex on the hose to prevent twisting and a second on the swivel. Tighten the fitting another 60 degrees (or one flat)

NOTE: Never use a power tool to install a fitting





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 the appropriate amount of Chevron 1000 THF 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. Lack of charge may result in the battery freezing and breaking over the winter.

Once engine is shut off turn the battery disconnect switch to the off position.

Replace all worn, torn or faded decals and reflectors.

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

CORRECTION		
Undercarriage Swaying, Tire Wear, Lights		
Check tire pressure Check tongue and steering hardware, tighten appropriately		
Check tire pressure		
Service wheel bearings		
Check wires and connections		
Replace lamps		
Conveyor Will Not Turn Over or Develop Proper Speed/Torque		
Check output and delivery, change if necessary		
Cold start ball valve is open; close cold start ball valve		
Shut off and lock-out power, open clean-out door and remove excess material (make sure spout is clear)		
Fill to proper level		
Check belt tension and adjust accordingly		
Increase engine speed		
Check pump fluid capacity and correct		
Repair or replace pump		
Replace seals; repair or replace valves or motor		
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		
Check belt tension and adjust accordingly		

roubleshooting (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 service section page 2-3.	
Poly seals on intake and/or discharge end worn.	Replace poly seals	
Pivoting Arm Will Not Raise or L	ower	
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	

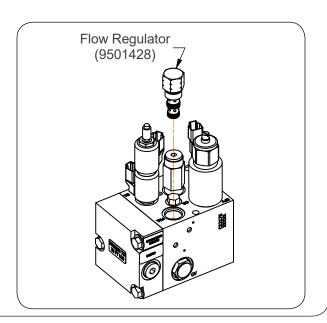
Conveyor Raise/Lower Cylinder Not Working Properly

A WARNING

- RELIEVE HYDRAULIC SYSTEM OF ALL PRESSURE BEFORE ADJUSTING OR SERVIC-ING. 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.

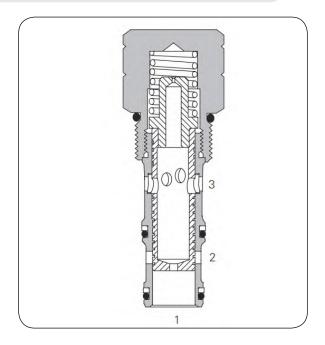


- FALLING OBJECTS CAN CAUSE SERIOUS INJURY OR DEATH. DO NOT WORK UNDER THE MACHINE AT ANY TIME WHILE BEING HOISTED. BE SURE ALL LIFTING DEVICES AND SUPPORTS ARE RATED FOR THE LOADS BEING HOISTED. THESE ASSEMBLY INSTRUCTIONS WILL REQUIRE SAFE LIFTING DEVICES UP TO 1,000 LBS. SPECIFIC LOAD RATINGS FOR INDIVIDUAL LOADS WILL BE GIVEN AT THE APPROPRIATE TIME IN THE INSTRUCTIONS.
- Park the empty seed tender on a firm, level surface. Block the tires 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 the seed tender.
- Position conveyor into the forward transport position with all weight off of the conveyor lift cylinder.
- 3. Relieve hydraulic system pressure.
- 4. Remove the flow regulator (9501428) from the valve block (9500855).

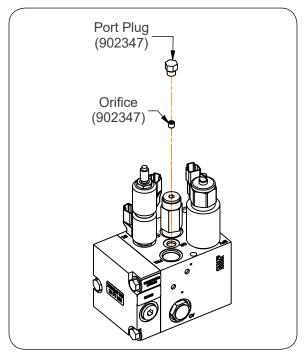


Conveyor Raise/Lower Cylinder Not Working Properly (continued)

5. Flush the flow regulator cartridge. Inspect the small opening in the bottom of the cartridge spool and verify that the spool is free to move approximately 1/8" to 3/16".



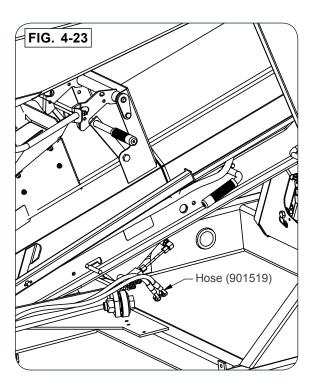
- 6. Access to the orifice (902347) is obtained by removing port plug (902825) and then using an allen wrench to remove the 1/8" pipe plug orifice from the valve body. The orifice should be cleaned and inspected before being reassembled into the block.
- 7. Verify the raise and lower function using the operator control. If further adjustments are required, continue with the following procedures.



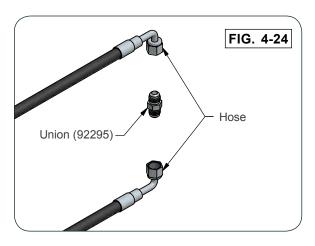
Conveyor Raise/Lower Cylinder Not Working Properly (continued)

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.

- 8. Park the Seed Runner tender 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.
- 9. 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 (900573) and that cylinder pin (82381) will freely rotate.

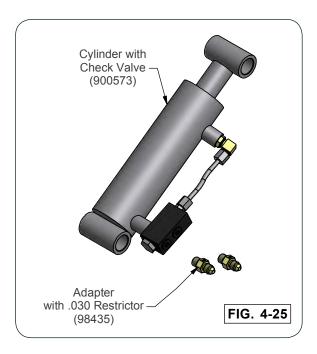


- 10. Remove the two hoses (901519) from the cylinder (900573) and connect the two hoses (901519) together using union fitting (92295). Tighten the connections as directed by the "Hydraulic Fittings Torque and Installation" in the MAINTENANCE section of this manual.
- 11. To flush the two hoses (901519), operate the Seed Runner tender 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).

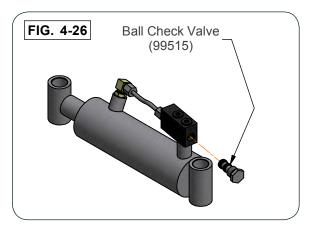


Conveyor Raise/Lower Cylinder Not Working Properly (continued)

12. Once this is completed, shut the engine off. Note the orientation of the two adapter fittings with restrictor (9003744) on the lift cylinder (900573) and remove the two adapter fittings with restrictor (9003744). Flush the fittings and make sure that there is nothing obstructing the 0.030" orifice in each fitting. If the fitting is obstructed, replace adapter fittings with restrictor (9003744).



13. 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.



- 14. Reinstall the orifice fittings (98435) in the same orientation as they were removed. Tighten the connections as directed by the "Hydraulic Fittings Torque and Installation" in the MAINTENANCE section of this manual.
- 15. Relieve the hydraulic system of all pressure before servicing. See Relieving Hydraulic Pressure in the MAINTENANCE section of this manual. Remove the union fitting (92295) from the two hoses (901519) and reinstall the hoses in their original location on the lift cylinder (900573).
- 16. If the conveyor is supported by a lifting device, slowly lower it into the transport position and remove the lifting device.
- 17. Verify the raise and lower function using the operator control.

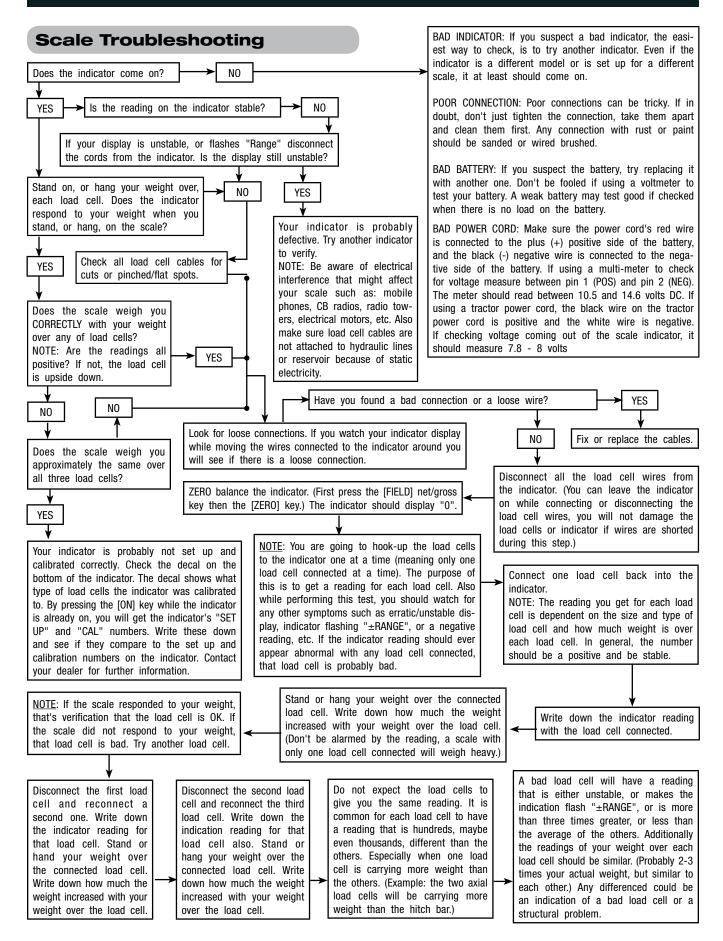
Smooth-Start Module Troubleshooting

This module, located inside the common enclosure at the front of the machine, is used to control the conveyor belt speed and reduce the wear on the conveyor component. by gradually bringing the belt up to operating speed.

If the system is not operating as expected, 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 "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 Set Up & Calibration procedure allows you to change the "SET UP" 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 "SET UP" 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 SET UP & CAL numbers with the Example table below and record the numbers on your UM indicator.

Example Table:

ORIGINAL	SEED RUNNER
SET UP#	127060
CAL#	24080

SET	HP#	CAL#
SE I	UF#	UAL#

Keep this information for future reference. See next page for more SET UP#'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

SET UP# 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

 $3.064 \div 3$ Trails = 1.021 CAL Multiplier

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

24080 X 1.021 = 24586

You should not modify your "SET UP" number. Only your "CAL" number.

Scale Matching Example:

Original

SET UP# CAL#

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

$$(Trail\ 1) + (Trail\ 2) + (Trail\ 3) = "X"$$

"X"
$$\div$$
 3 Trails = _____ CAL Multiplier

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

_____ X ____ = ____

Follow the instructions "To change the Set Up / Calibration Numbers" shown in the indicator operator's manual.

Seed Runner 2755/2755XL/3755/3755XL — Maintenance

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, 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. Also on the 4 pin scale connector check between terminal one (white wire) and terminal two (black wire), this should also read +12 volts. If the reading is -12 volts the power wire polarity needs 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.



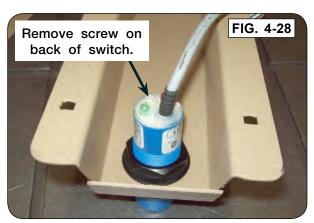
Adjusting Proximity Switch

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 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 ½" 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.

Tarp Adjustment Procedures

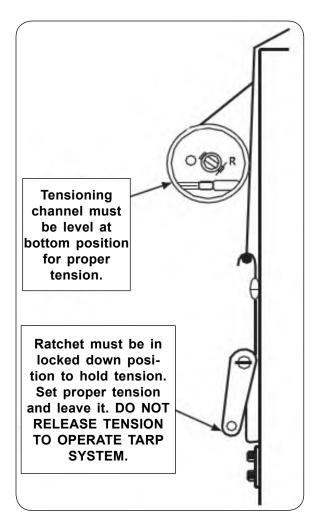
Cable Tension

With tarp covering the Seed Runner tender, wind the cable around the spool and attach to the ratchet. Tighten the ratchet until the groove in the spool is positioned horizontally at the bottom of the spool as shown.

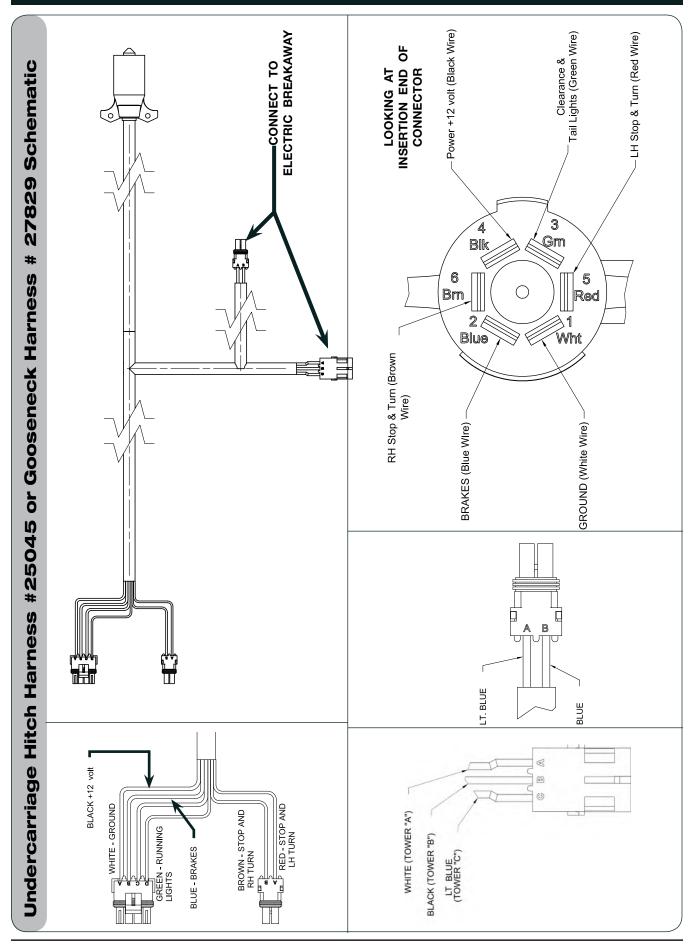
Maintaining correct tension on the tarp cables is important to ensure a weather-tight seal on the edges of the tarp.

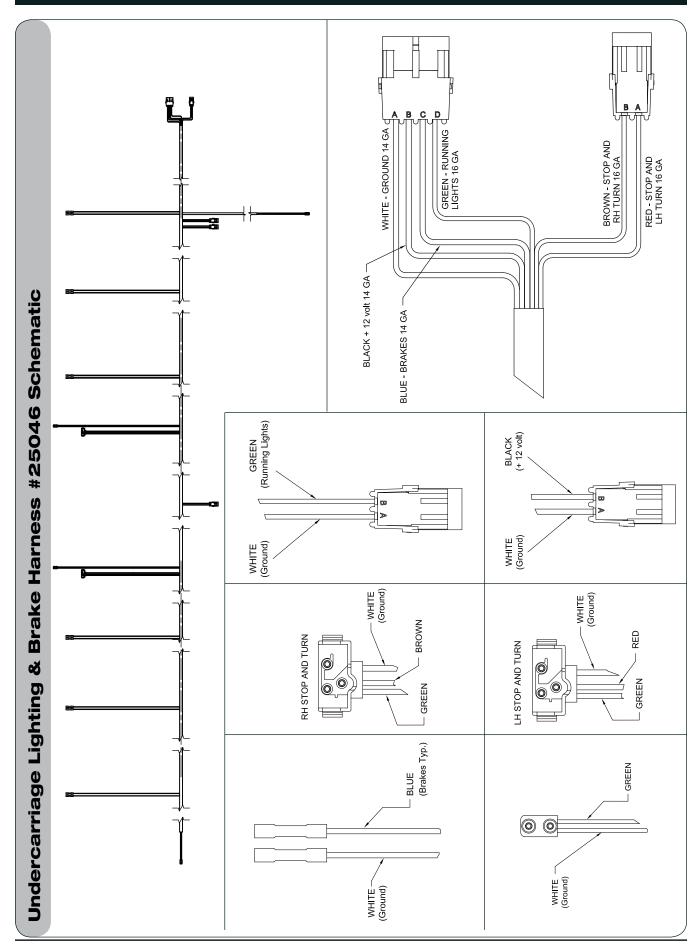
Cable tension is easily determined by poisiton of the tnesion channel on front and rear spools. As tension is applied with ratchet, the spool turns. Watch the tension channel on side of spool.

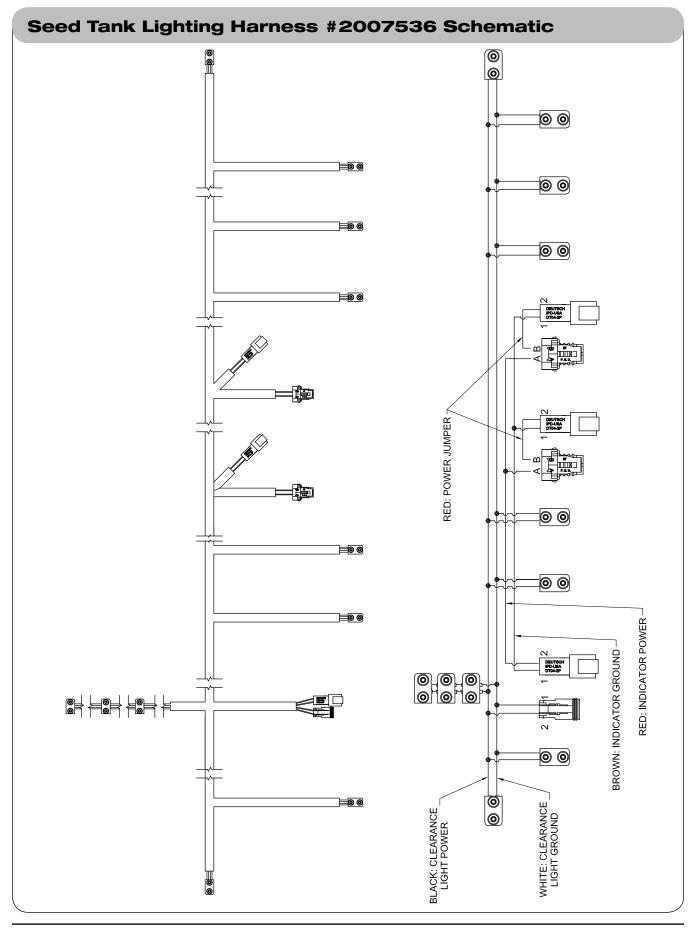
Proper tension is achieved when the tension channel is level at the bottom.

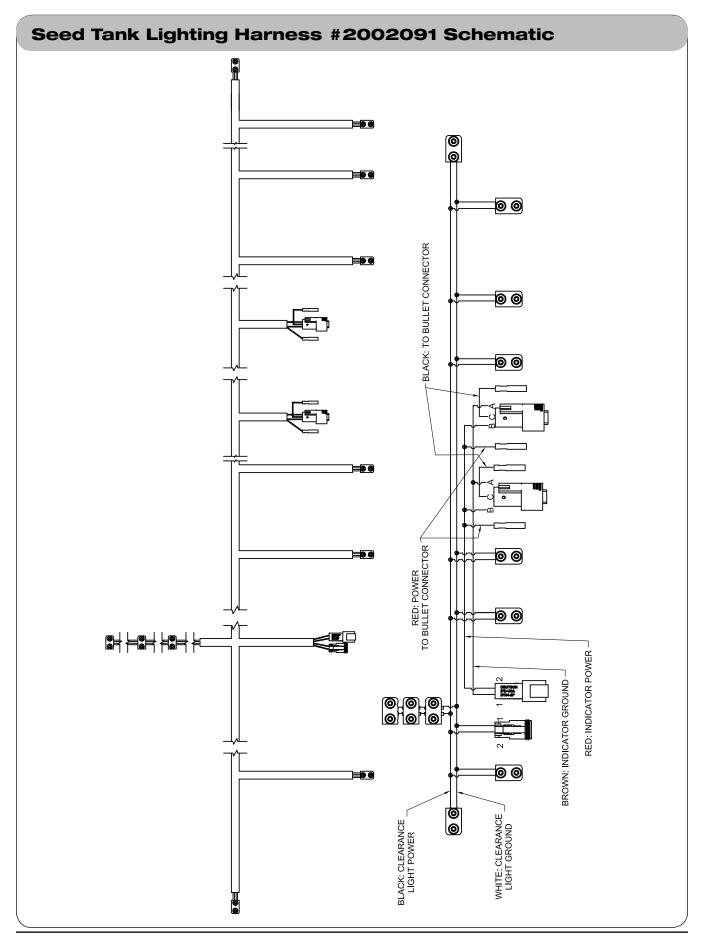


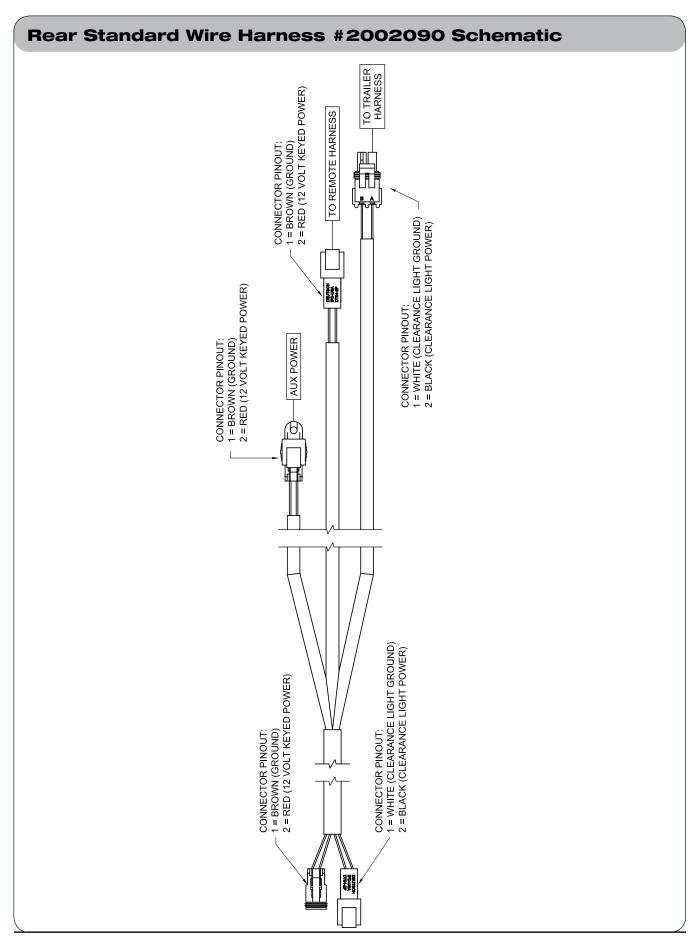


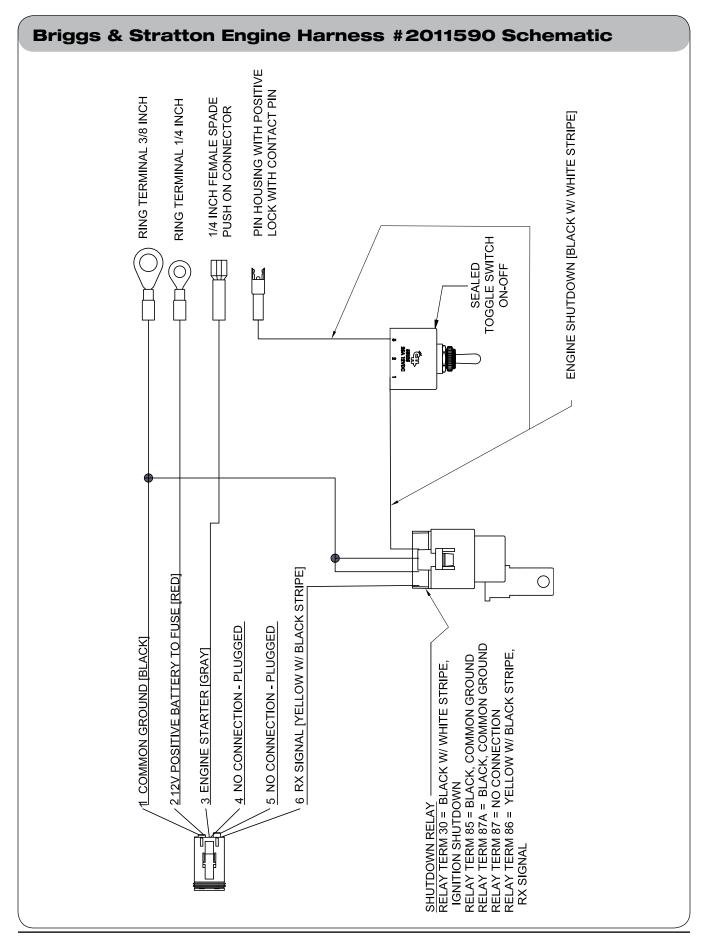


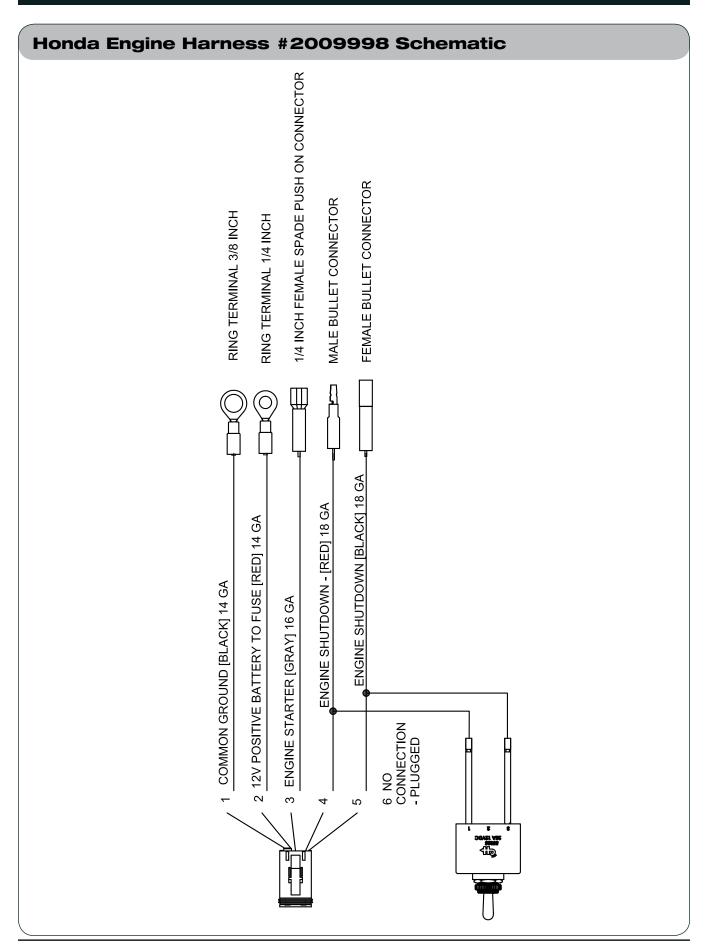


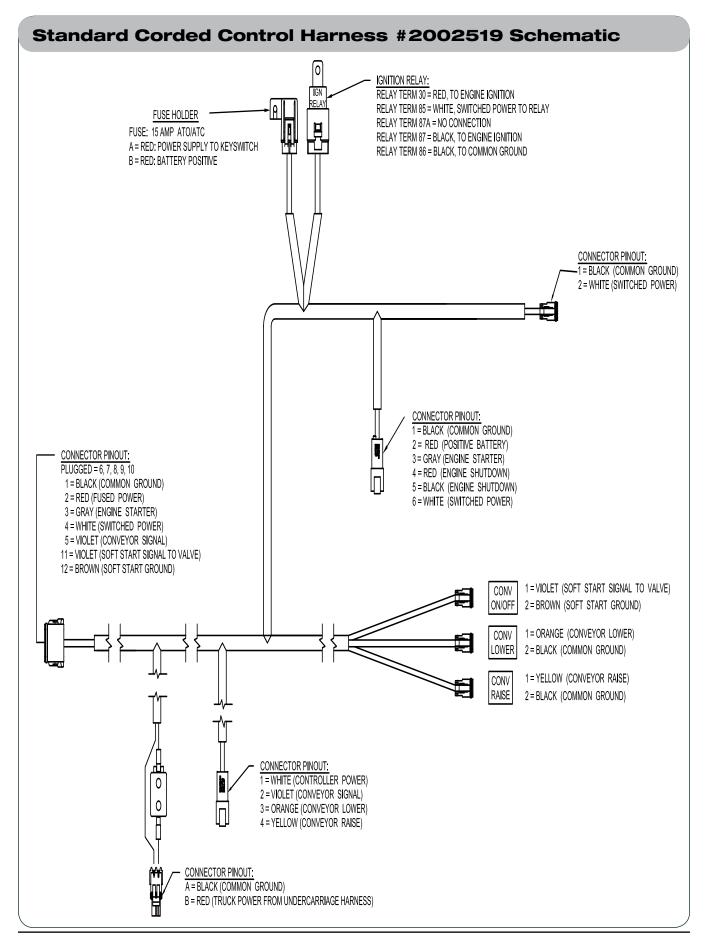


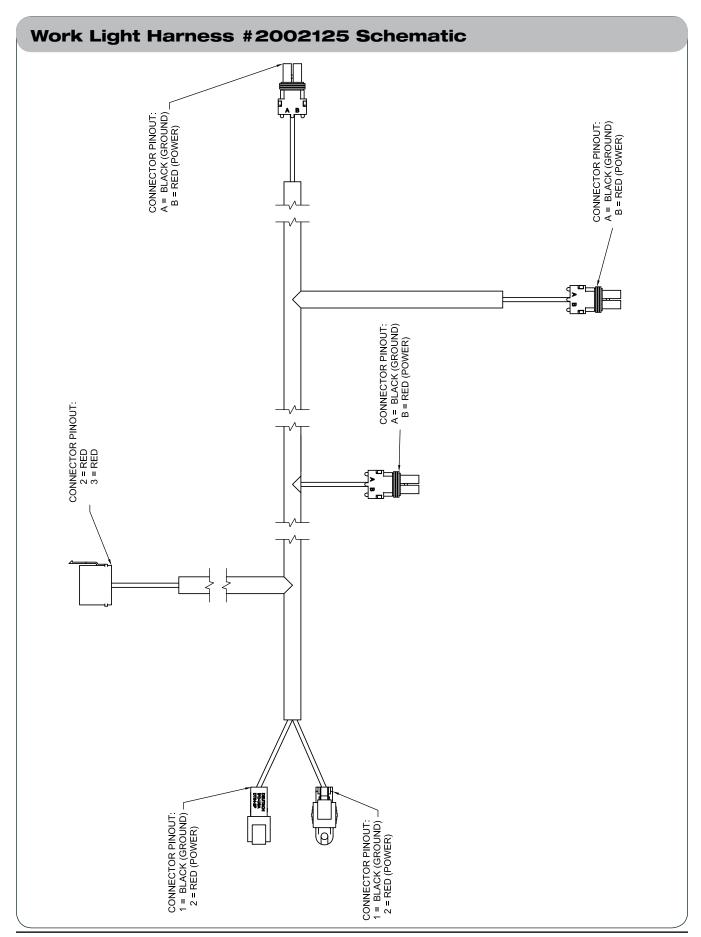


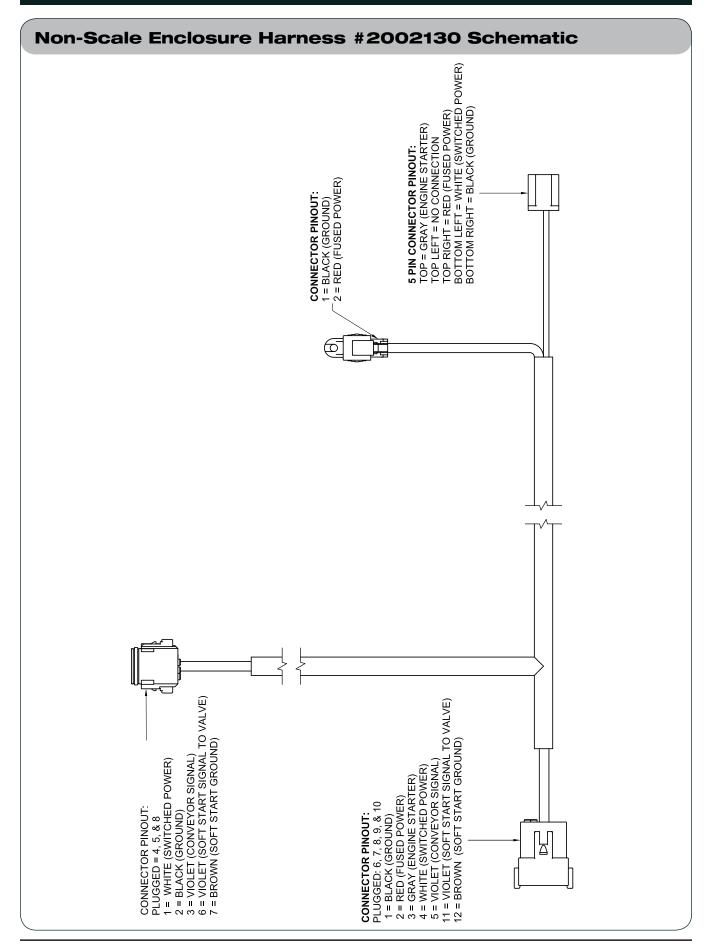


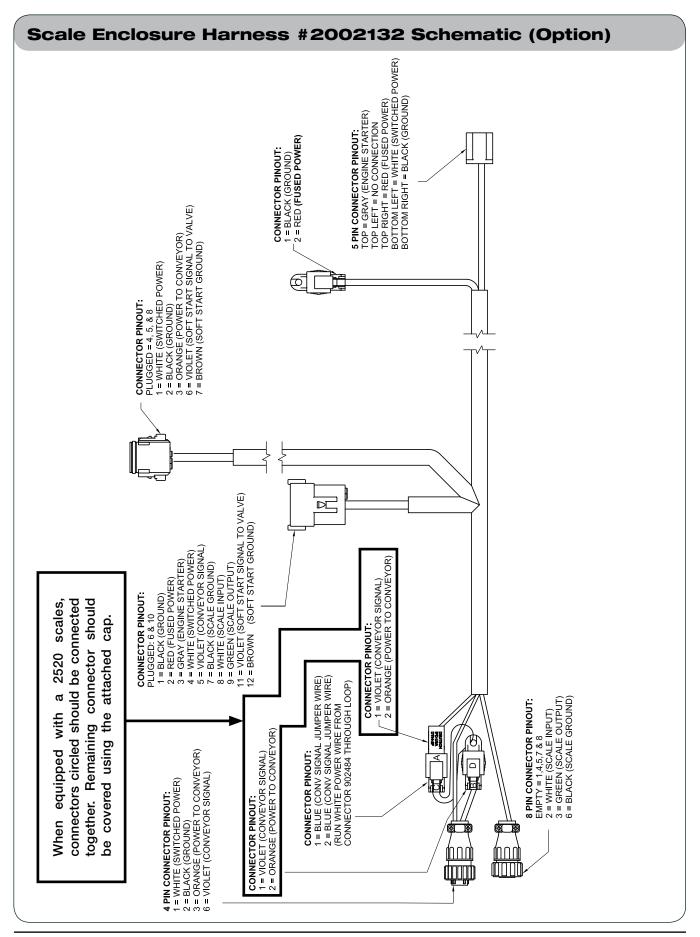












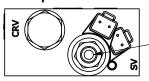
Sensor Wiring Adapter Harness #2006715 Schematic **√**_0 16 GA WHITE 16 GA BLACK FEMALE CONNECTOR 2-PIN Ω

Beginning with serial number D62740100.

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.

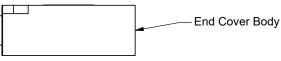
Hydraulic Jack Option



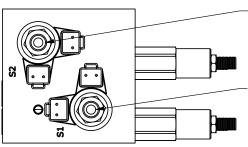
Pull Out/Push In to manually operate the jack.

ALL





3 Function



Front Door

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

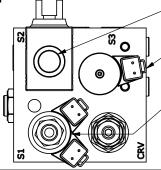
BROWN Wire Labeled: Door Open - Bottom Solenoid

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

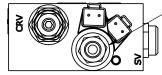
Conveyor Tilt-Down

Pull up and 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

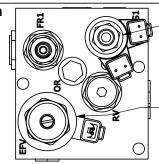


Conveyor Swing

- * 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

Seed Runner 2755/2755XL/3755/3755XL — Maintenance Prior to serial number D62740100. **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. Optional Hydraulic Jack Valve (9500615) Push in to manually operate the jack. **ALL Functions** Valve End Cover Assembly (9500306)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 and turn either direction to tilt conveyor down. Valve Assembly GREEN Wire Labeled: Tilt-Down - Round Solenoid (9500461) 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 Valve Assembly -* Push in to swing conveyor in reverse. (9500817)BLUE Wire Labeled: Swing Reverse - Bottom Solenoid 3 Function **Front Door** * Pull out to close front door. GRAY Wired Labeled: Door Close - Top Solenoid Valve Assembly * Push in to open front door. (9501021) BROWN Wired Labeled: Door Open - Bottom Solenoid Rear Door Valve Assembly * Pull out to close rear door. (9501021)GREEN Wired Labeled: Door Close - Top Solenoid * Push in to open rear door. WHITE Wired Labeled: Door Open - 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

0

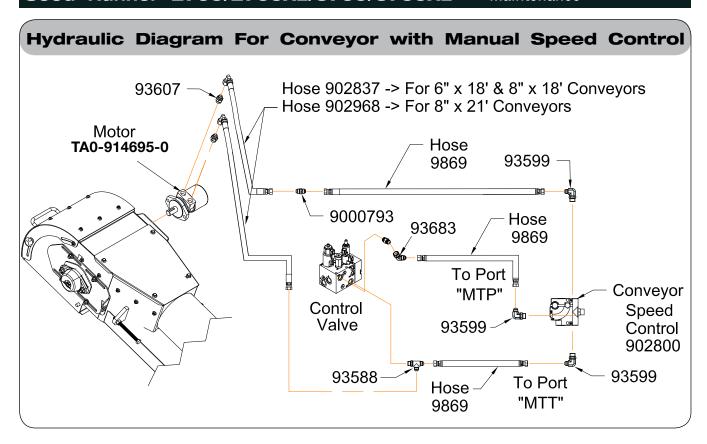
Valve Assembly

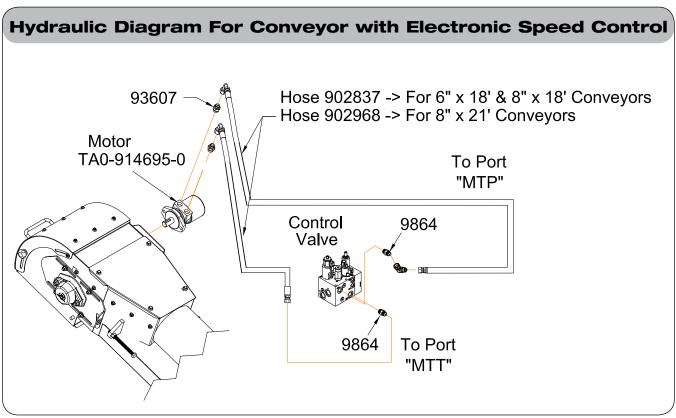
2 Function Control

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

2003034 Rev. 2

Seed Runner 2755/2755XL/3755/3755XL — Maintenance



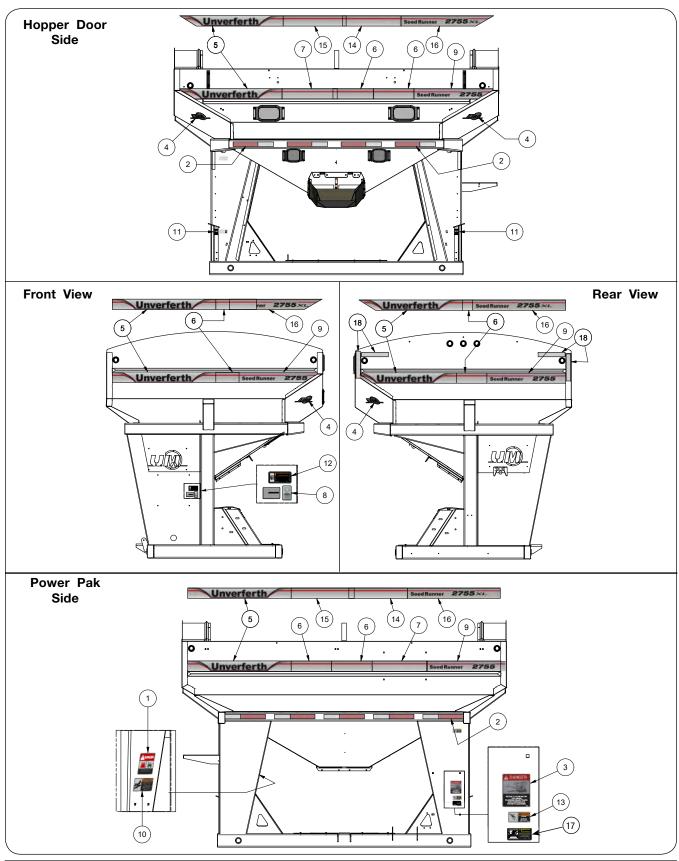


SECTION V Parts

Box Decals — Models 2755/2755XL5-2
Touch-Up Paint5-3
Box Decals — Models 3755/3755XL5-4
Ladder Components5-6
Deluxe Ladder Components (Option)5-8
Door and Window Components5-12
Pivot Segments, Transport Brackets
and Accent Components For Models 2755/37555-14
Pivot Segments, Transport Brackets and
Accent Components For Models 2755XL/3755XL5-15
Pivot Assembly Components
6" x 18' & 8" x 18' Conveyors5-16
Pivot Assembly Components - 8" x 21' Conveyors5-18
Conveyor Arm Components
6" x 18' & 8" x 18' Conveyors5-20
Conveyor Arm Components - 8" x 21' Conveyors5-22
Conveyor Latch Components5-24
Hopper & Handle Components - 6" Tube Conveyors5-26
Hopper & Handle Components - 8" Tube Conveyors5-28
Stand, Cleanout Door, Shield, & Idler End Components
6" Tube Conveyors5-30
Stand, Cleanout Door, Shield, & Idler End Components
8" Tube Conveyors5-32
Discharge Spout Components — 6" Tube Conveyor5-34
Discharge Spout Components — 8" Tube Conveyor5-36
Hydraulic Components5-38
Valve Shield Components5-40
Stackable Valve Assembly - 2 Function Components5-42
Briggs & Stratton Power Pak Components5-44
Honda Power Pak Components5-46
Muffler Shield, Relay Mount &
Power Pak Mounting Components5-48
Box Electrical Components5-50
Enclosure and Master Keyswitch Components
Briggs & Stratton Power Pak5-52
Enclosure and Master Keyswitch Components
Honda Power Pak5-54
2-Function Electrical Components5-56
Dry Erase Set5-57

Cable Return Tarp System Components
2755/2755XL ALL &
3755/3755XL (D69140099 & Lower)5-5
Cable Return Tarp System Components
3755/3755XL (D69140100 & Up)5-6
Undercarriage Bumper Hitch Components5-6
Undercarriage Frame Components
For Serial Number D69140100 & Up5-6
Undercarriage Frame Components
For Serial Number D69140099 & Lower5-6
Undercarriage Fender Components
For Serial Number D69140100 & Up5-6
Undercarriage Fender Components For Serial Number D69140099 & Lower5-6
Axle & Wheel Components
Undercarriage Electrical Components
Electric Breakaway Components
Telescopic Spout Components (Option)5-7
Hopper Cover
LED Work Light Kit (Option)
UM2520 Scale Components (Option)
Gooseneck Hitch Components (Option)5-7
Seed Tender Remote Override Box
3-Function Wireless Remote Control (Option)5-8
6 & 7-Function Wireless Remote Control (Option)5-8
Scale Platform for Units Less Undercarriage (Option)5-8
Riser Pads (Option)
Electric Tarp Kit (Option)5-8
Spare Tires (Option)
Hydraulic Jack for Bumper Hitch (Option)5-8
Hydraulic Jack for Gooseneck Hitch (Option)5-8
License Plate/Lamp Holder Assembly Kit #254815-9
T&G Applicator (Optional) Kit #2004448IV5-9
Toolbox Components5-9
AG Decal Package (Option)
SMV, SIS Decals, & Reflectors5-9

Box Decals - Models 2755/2755XL



Box Decals - Models 2755/2755XL

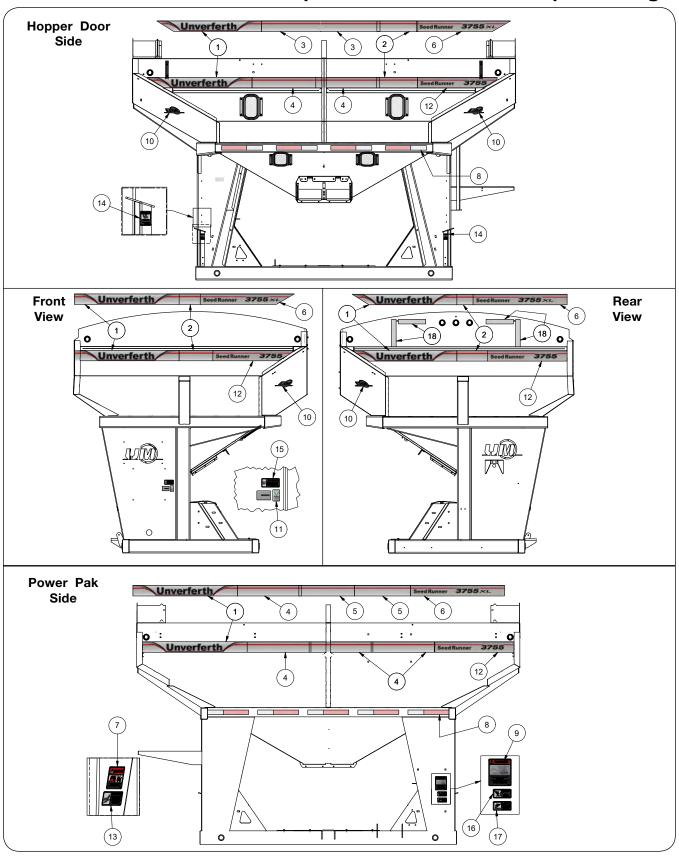
Please visit www.unverferth.com/parts/ for the most current parts listing.

ITEM	PART NO.	DESCRIPTION	QTY.	NOTES
1	235161	Decal, "Danger" (Flammable)	1	
2	25003	Conspicuity Marking (11" Red/7" White)	7	
3	901580	Decal, "Danger" (Never Play in/on the Grain)	1	
4	901607	Decal, UM Oval	2	
5	901832	Decal, "Unverferth" (4.626 x 46)	4	
6	901834	Decal, Stripe (4.626 x 18)	6	
7	901989	Decal, Stripe (4.626 x 24 1/2)	2	For Model 2755 ONLY
8	91605	Decal, FEMA	1	
9	9501200	Decal, Seed Runner 2755 (4.626 x 35)	4	For Model 2755 ONLY
10	95445	Decal, "Warning" (High-Pressure Leaks)	1	
11	97048	Decal, "Warning" (Pinch Point)	2	
12	97961	Decal, "Warning" (Read & Understand)	1	
13	98350	Decal, "Warning" (No Riders)	1	
14	901854	Decal, Stripe (4.626 x 26)	2	For Model 2755XL ONLY
15	901855	Decal, Stripe (4.626 x 28)	2	For Model 2755XL ONLY
16	9501291	Decal, Seed Runner 2755XL (4.626 x 41.3)	4	For Model 2755XL ONLY
17	95008	Decal, "Caution" (Slipper Surface)	1	
18	902362	Conspicuity Marking (White)	4	

Touch-Up Paint

PAINT	PART NO.
Ivory White - Spray Paint (12oz)	901210
Radiant Brass/Tan Speckle - Finishing Paint (12oz)	901297
Tan Base Coat - Spray Paint (12oz)	9500474

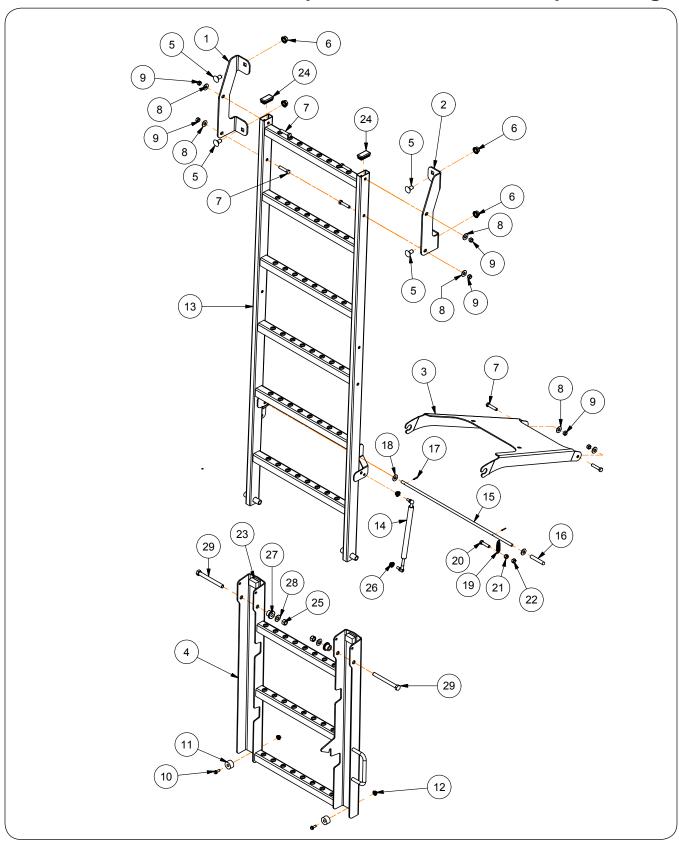
Box Decals - Models 3755/3755XL



Box Decals - Models 3755/3755XL

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	For Model 3755XL ONLY
4	901855	Docal String (4.626 v. 20)	1	For Model 3755XL ONLY
4	901000	Decal, Stripe (4.626 x 28)	5	For Model 3755 ONLY
5	901989	Decal, Stripe (4.626 x 24 1/2)	2	For Model 3755XL ONLY
6	9501196	Decal, Seed Runner 3755XL (4.626 x 41.3)	4	For Model 3755XL ONLY
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	9501292	Decal, Seed Runner 3755 (4.626 x 35)	4	For Model 3755 ONLY
13	95445	Decal, "Warning" (High-Pressure Leaks)	1	
14	97048	Decal, "Warning" (Pinch Point)	2	
15	97961	Decal, "Warning" (Read & Understand)	1	
16	98350	Decal, "Warning" (No Riders)	1	
17	95008	Decal, "Caution" (Slipper Surface)	1	
18	902362	Conspicuity Marking (White)	4	

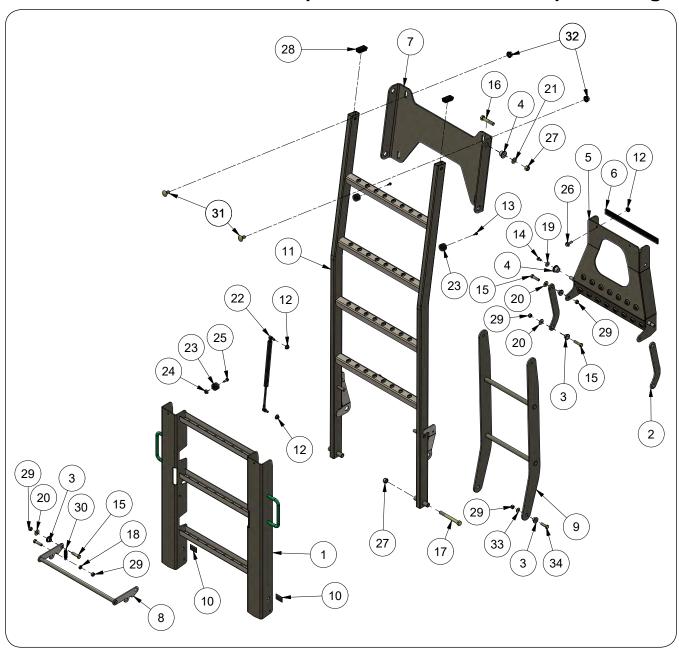
Ladder Components



Ladder Components

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"	6
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	2
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

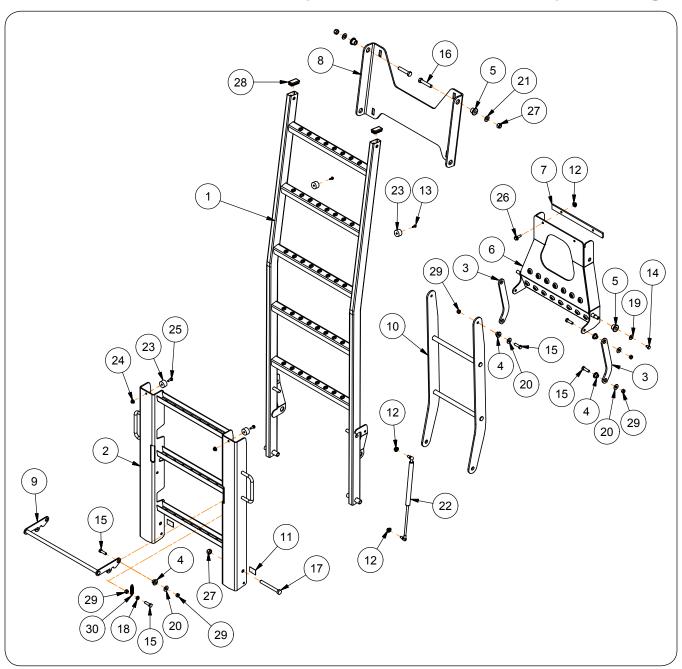
Deluxe Ladder Components (Option) Models 2755/2755XL



Deluxe Ladder Components (Option) Models 2755/2755XL

ITEM	PART NO.	DESCRIPTION	QTY
	2005395TS	Deluxe Ladder Assembly (Includes items 1-34)	-
1	2002896TS	Ladder Extension Weldment	1
2	2002917TS	Link	2
3	2003029	Nylon Bushing	8
4	2003030	Nylon Bushing	4
5	2003065TS	Step Weldment	1
6	2003102	UHMW Strip	1
7	2003104TS	Ladder Bracket	1
8	2003232TS	Latch Weldment	1
9	2003278TS	Link Weldment	1
10	2004072	Rubber Pad 3/32" x 1" x 1 1/2"	2
11	2005598TS	Ladder Weldment	1
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	9390-057	Capscrew 3/8"-16UNC x 1 1/2"	10
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	8
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	10
30	99860	Extension Spring	2
31	9388-102	Carriage Bolt, 1/2"-13UNC x 1" G5	2
32	91267	Flange Nut, 1/2"-13UNC	2
33	9405-074	Flat Washer 3/8" SAE	2
34	9390-056	Capscrew 3/8"-16UNC x 1 1/4"	2

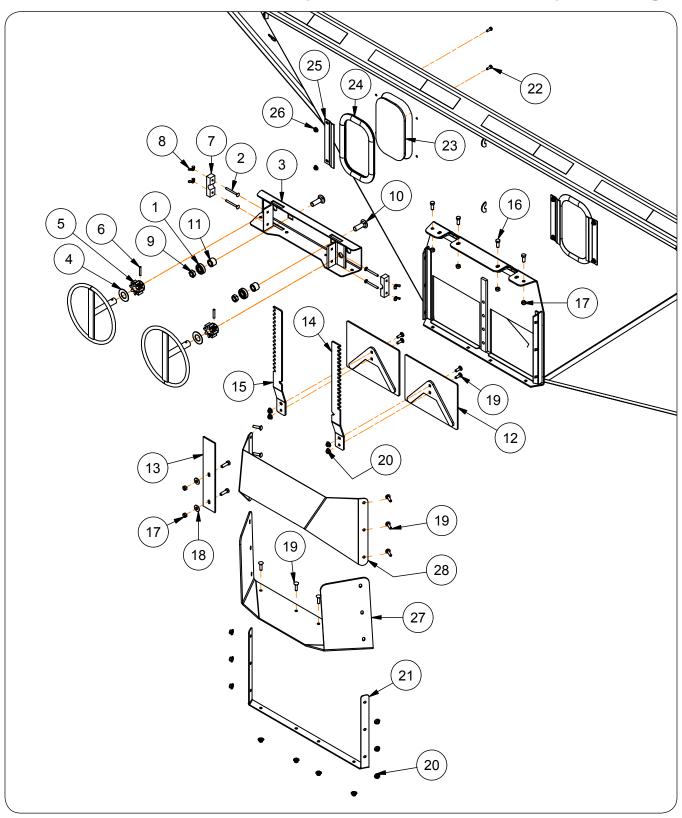
Deluxe Ladder Components (Option) Models 3755/3755XL



Deluxe Ladder Components (Option) Models 3755/3755XL

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	8
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	9390-057	Capscrew 3/8"-16UNC x 1 1/2"	10
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	8
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	10
30	99860	Extension Spring	2

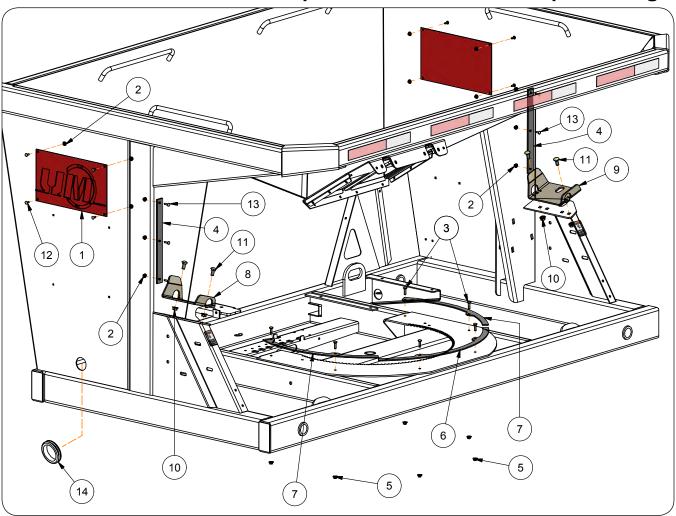
Door and Window Components



Door and Window Components

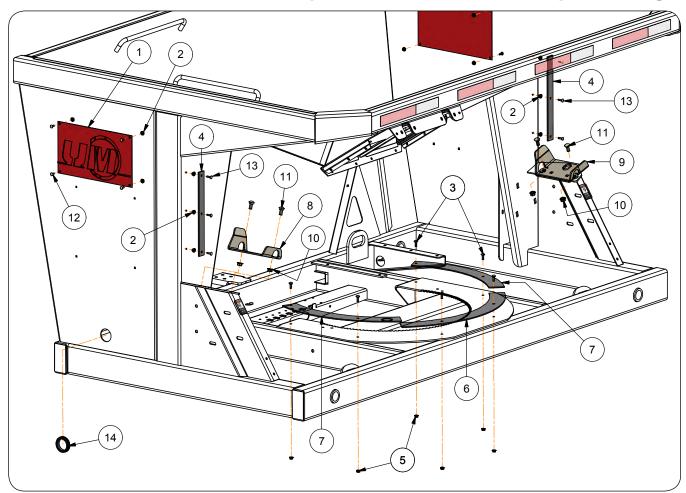
ITEM	PART NO.	DESCRIPTION	QTY	NOTES
1	95789	Bearing/Sealed 17mm Bore	2	
2	9388-009	Carriage Bolt 1/4"-20UNC x 2 1/2	4	Grade 5
3	2003164TS	Door Wheel Weldment	1	=Tan Speckle=
4	9072	Flat Washer	2	
5	22005B	Gear 8 Tooth	2	=Black=
6	91144-162	Spiral Pin 1/4" Dia. x 1 1/2	2	WAS ROLL PIN
7	901158	Brake Block 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	9390-055	Capscrew 3/8"-16UNC x 1	6	Grade 5
17	9928	Locknut 3/8"-16UNC	8	
18	9405-076	Flat Washer 3/8" USS	2	
19	9388-025	Carriage Bolt 5/16"-18UNC x 1"	4	Grade 5
20	91257	Hex Nut/Large Flange 5/16"-18UNC	20	
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	
	2002566B	Window Bracket/Retainer 8" Long	8	Models 3755/3755XL
25			4	Models 2755/2755XL - Used on Bottom Windows
	2003447B	Window Bracket/Retainer 5 1/2" Long	4	Models 2755/2755XL - Used on Top Windows
26	97189	Large Flange Nut 1/4"-20UNC	30	
27	2004554	Rubber Chute	1	
28	2004777TS	Chute Deflector	1	=Tan Speckle=

Pivot Segments, Transport Brackets, and Accent ComponentsFor Models 2755/3755



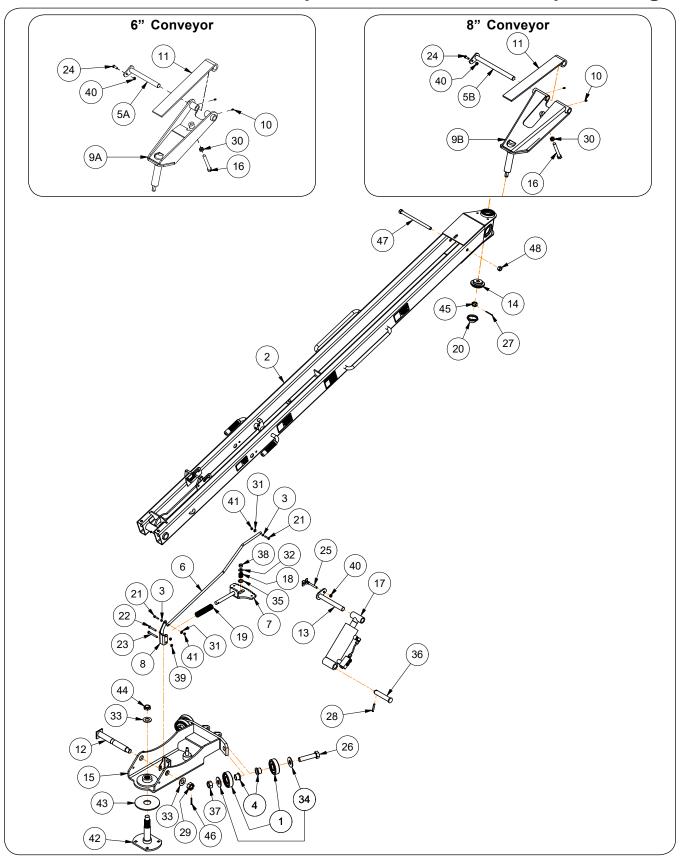
ITEM	PART NO.	DESCRIPTION	QTY	NOTES
1	27915R	Accent Panel =RED=	2	
2	97189	Hex Nut/Large Flange 1/4"-20UNC	14	
3	9007908-025	Carriage Bolt 5/16"-18UNC x 1"	16	Stainless Steel
4	2004385	Wear Strip 1 1/2 x 16 1/2	2	
5	9005639	Flange Nut 5/16"-18UNC	16	Stainless Steel
6	29885	Segment (Center)	1	
7	29886	Segment (Ends)	2	
8	29992TS	Bracket Left-Hand	1	
9	29993TS	Bracket Right-Hand	1	
10	91267	Flange Nut 1/2"-13UNC	4	
11	9388-103	Carriage Bolt 1/2"-13UNC x 1 1/4"	4	Grade 5
12	9388-002	Carriage Bolt 1/4"-20UNC x 3/4"	8	Grade 5
13	9388-003	Carriage Bolt 1/4"-20UNC x 1"	6	Grade 5
14	901334	Grommet 1/4"W x 2 1/2" Dia. Groove, 2 1/4" ID	1	

Pivot Segments, Transport Brackets, and Accent ComponentsFor Models 2755XL/3755XL



ITEM	PART NO.	DESCRIPTION	QTY	NOTES
1	27915R	Accent Panel =RED=	2	
2	97189	Hex Nut/Large Flange 1/4-20UNC	14	
3	9007908-025	Carriage Bolt 5/16-18UNC x 1	16	Stainless Steel
4	2004385	Wear Strip 1 1/2 x 16 1/2	2	
5	9005639	Flange Nut 5/16-18UNC	16	Stainless Steel
6	28018	Segment (Center)	1	
7	28019	Segment (Ends)	2	
8	29992TS	Bracket Left-Hand	1	
9	29993TS	Bracket Right-Hand	1	
10	91267	Flange Nut 1/2-13UNC	4	
11	9388-103	Carriage Bolt 1/2-13UNC x 1 1/4	4	Grade 5
12	9388-002	Carriage Bolt 1/4-20UNC x 3/4	8	Grade 5
13	9388-003	Carriage Bolt 1/4-20UNC x 1	6	Grade 5
14	901334	Grommet	1	

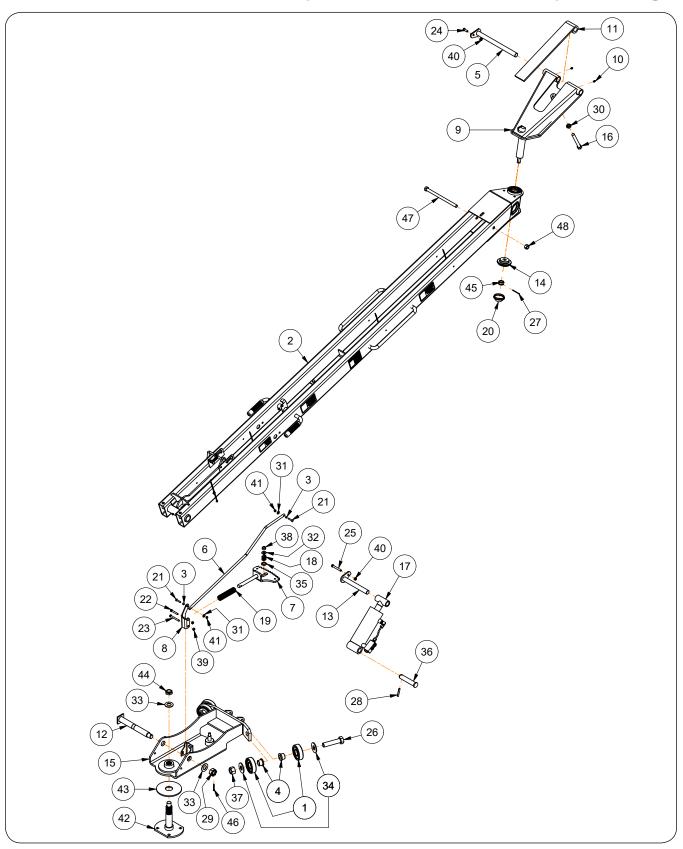
Pivot Assembly Components For 6" x 18' & 8" x 18' Conveyors



Pivot Assembly Components For 6" x 18' & 8" x 18' Conveyors

ITEM	PART NO.	DESCRIPTION	QTY	NOTES NOTES
1	2000189	Bearing Assembly	2	NOTES
2	2001716TS	Conveyor Arm Assembly	1	
3	22018	Bushing 3/8" Dia.	2	
4	23951	Bushing 3/6 bia.	2	
5A	2001834	Pin Weldment For 6" Conveyor		
5B	25436	Pin Weldment For 8" Conveyor	1	
6	28021TS	Push Rod	1	
7	28453TS	Latch Weldment	1	
8	28454TS	Channel	1	
9A	2001804TS	Upper Pivot Weldment For 6" Conveyor	<u> </u>	
9B	28491TS	Upper Pivot Weldment For 8" Conveyor	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		1	
15	29890TS	Retainer Cap Pivot Weldment	1	
-			1	
16 17	9002131	Capscrew 5/8"-11UNC x 5 (Full Threaded)		
	29037	Hydraulic Cylinder 2 1/2 x 5 Replacement Kit	1	
18 19	902602	Compression Spring	1	
-	902616	Compression Spring	1	
20	9162	Hub Cap		Crada E
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	9390-187	Capscrew, 1"-8UNC x 3"	2	Grade 5
27	9391-037	Cotter Pin, 5/32" Dia. x 2"	2	
28	9392-159	Roll Pin, 5/16" Dia. x 2"	1	
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	2	
35	9500091	Nylon Washer	1	
36	9500423	Pin 1" Dia. x 5 1/2"	1	
37	9663	Locknut, 1"-8UNC	2	
38	9800	Locknut, 1/2"-13UNC	1	
39	9807	Locknut, 5/16"-18UNC	3	
40	9928	Locknut, 3/8"-16UNC		
41	9936	Locknut, 1/4"-20	2	
42	29895TS	Splined Shaft 2" Dia.	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" G5	1	
48	9801	Lock Nut, 5/8"-11UNC	1	<u> </u>

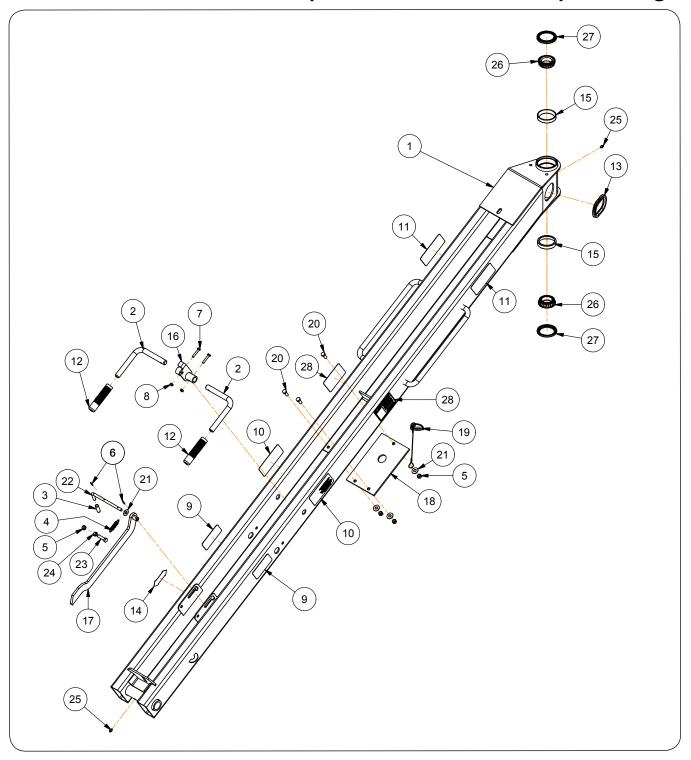
Pivot Assembly Components For 8" x 21' Conveyor



Pivot Assembly Components For 8" x 21' Conveyor

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 2 1/2 x 5 w/Check Valve	1	
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	9500423	Pin 1" Dia. x 5 1/8"	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	Splined Shaft 2" Dia.	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	

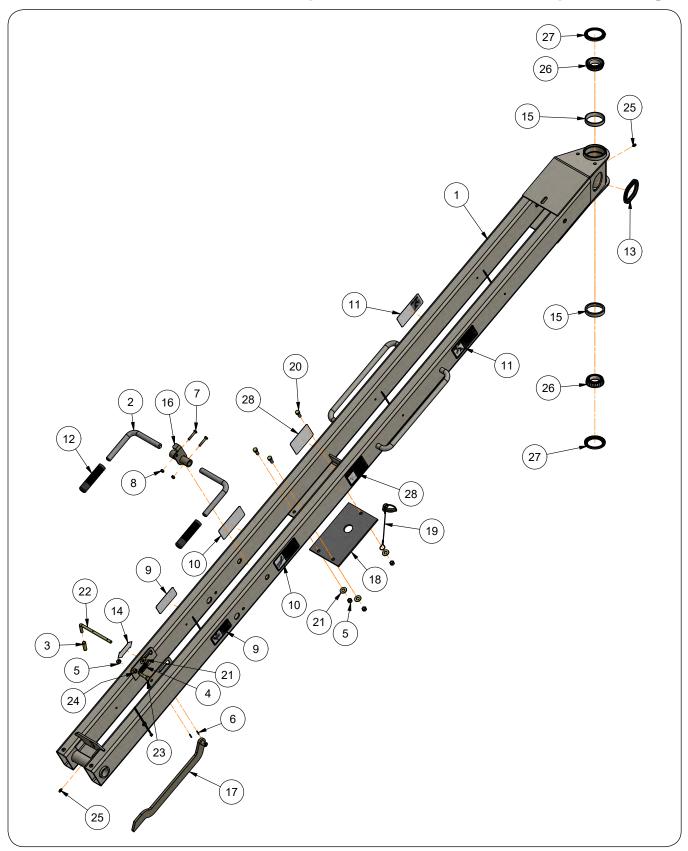
Conveyor Arm Components For 6" x 18' & 8" x 18' Conveyors



Conveyor Arm Components For 6" x 18' & 8" x 18' Conveyors

ITEM	PART NO.	DESCRIPTION	QTY	NOTES
1	2001716TS	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/Klik 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	

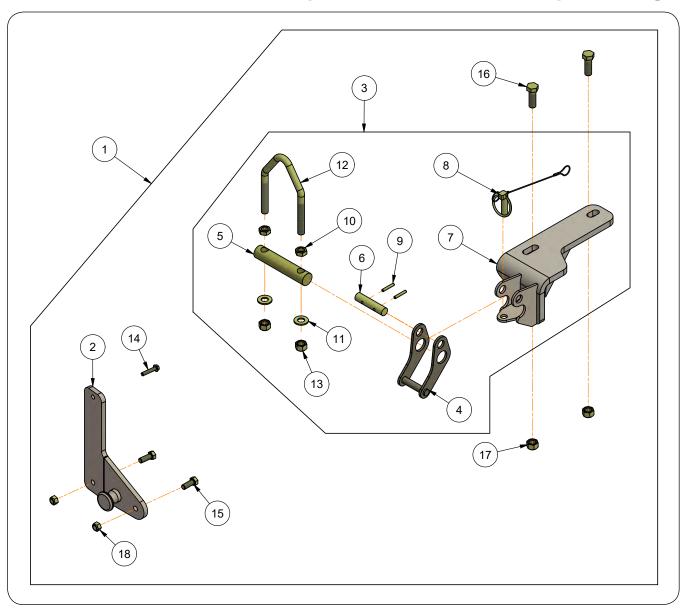
Conveyor Arm Components For 8" x 21' Conveyors



Conveyor Arm Components For 8" x 21' Conveyors

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	Lock Nut/Top, 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" G5	2	
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 3/4"D 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/Klik Pin	1	
20	9390-055	Capscrew ,3/8"-16UNC x 1" G5	3	
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" G5	1	
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	

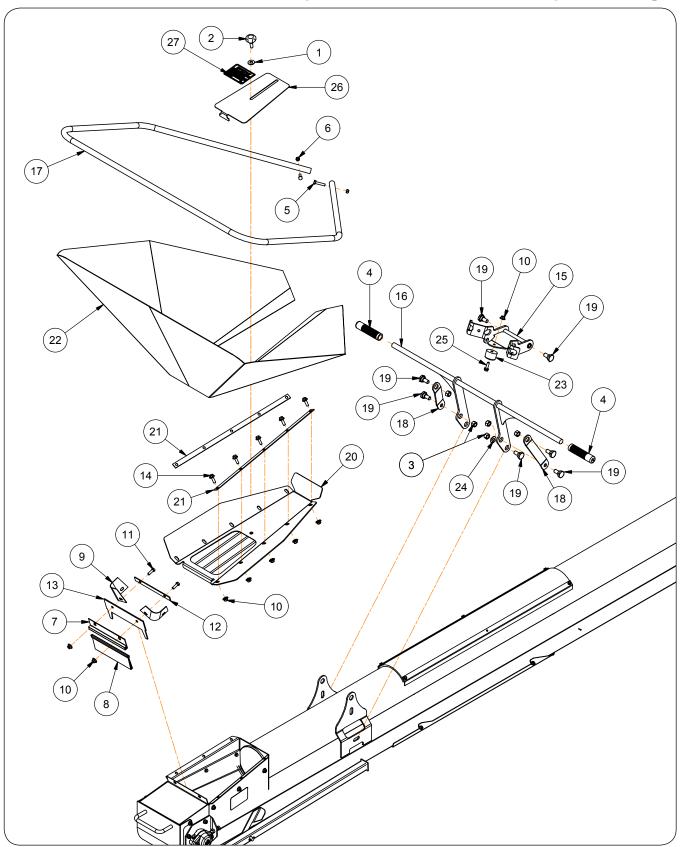
Conveyor Latch Components



Conveyor Latch Components

ITEM	PART NO.	DESCRIPTION	QTY	NOTES
1	2007563TS	Conveyor Latch Kit	1	Includes Items 2 through 18
2	2005628TS	Latch Weldment	1	
3	2007495TS	Latch Assembly	1	Includes Items 4 through 13
4	2005585TS	Handle Weldment	1	
5	2005589	Pin, 1" Dia. x 5"	1	
6	2005613	Pin, 5/8" Dia. x 2 3/4"	1	
7	2007496TS	Latch Base Weldment	1	
8	901170	Lynch Pin w/Lanyard	1	
9	91144-121	Spiral Pin, 3/16" Dia. x 1 1/8"	2	
10	9395-010	Hex Jam Nut ,1/2"-13UNC	2	
11	9405-086	Flat Washer, 1/2" SAE	2	
12	9501761	U-Bolt, 1/2"-13UNC	1	
13	9800	Lock Nut/Top, 1/2"-13UNC	2	
14	903161-005	Flange Screw, 1/4"-20UNC x 1 1/4" G5	1	
15	9390-055	Capscrew, 3/8"-16UNC x 1" G5	2	
16	9390-101	Capscrew, 1/2"-13UNC x 1 1/2" G%	2	
17	9800	Lock Nut/Top, 1/2"-13UNC	2	
18	9928	Lock Nut/Top, 3/8"-16UNC	2	

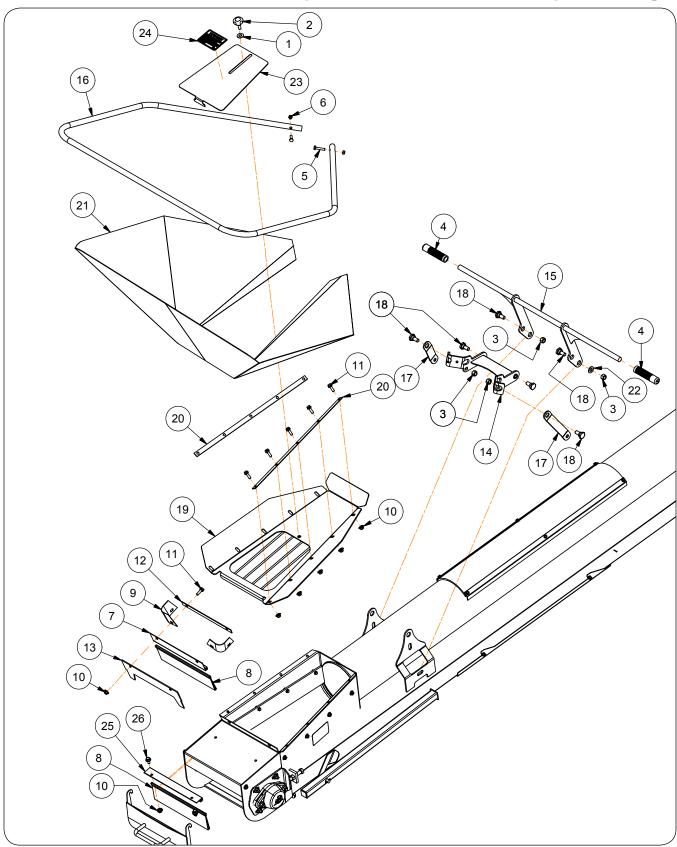
Hopper and Handle Components – 6" Tube Conveyor



Hopper and Handle Components — 6" Tube Conveyor

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	24964	Brush Holder w/Slots	1	
8	901111	Nylon Brush	1	
9	24986	Poly Strip	2	
10	91257	Hex Nut/Large Flange 5/16"-18UNC	11	
11	9390-030	Capscrew 5/16"-18UNC x 1"	2	Grade 5
12	28486TS	Plate/Strap 3/4" x 7 1/2"	1	=Tan Speckle=
13	26865	Belting/Seal	1	
14	97604	Flange Screw 5/16"-18UNC x 1"	10	Grade 5
15	2003821TS	Pivot Weldment	1	=Tan Speckle=
16	2003824TS	Handle Weldment	1	=Tan Speckle=
17	2003825TS	Tube	1	=Tan Speckle=
18	2003176TS	Link	2	=Tan Speckle=
19	2003191	Shoulder Bolt 1/2"-13UNC x 1.18	8	
20	2003830TS	Grate Weldment	1	=Tan Speckle=
21	2003197TS	Plate/Strap 3/4" x 23"	2	=Tan Speckle=
22	2003828	Hopper Vinyl	1	
23	901169	Rubber Bumper	1	
24	9405-086	Flat Washer 1/2" SAE	2	
25	901044	Flange Screw 5/16"-18UNC x 1"	1	Grade 5
26	28401TS	Cover Plate	1	=Tan Speckle=
27	902635	Decal, IMPORTANT (Operation)	1	

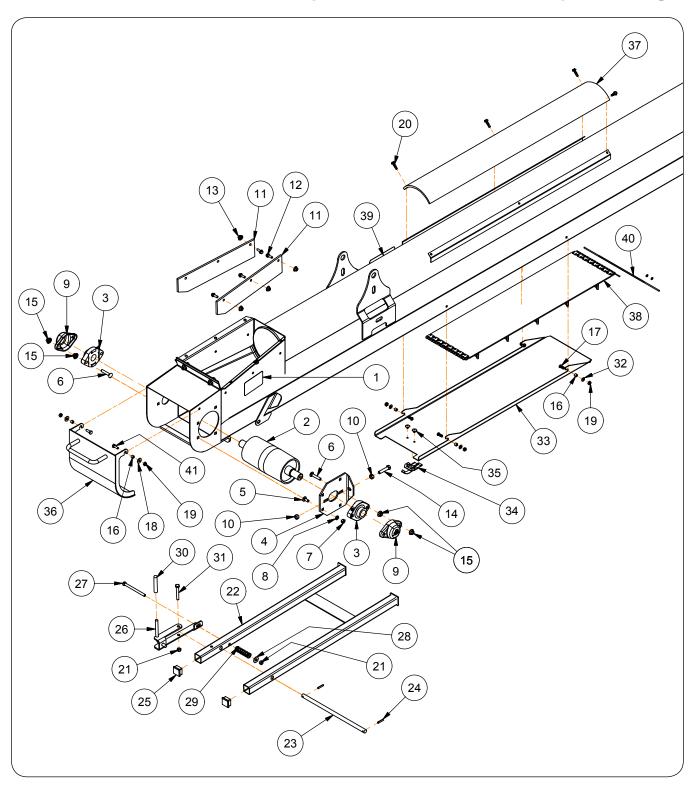
Hopper and Handle Components — 8" Tube Conveyor



Hopper and Handle Components — 8" Tube Conveyor

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=

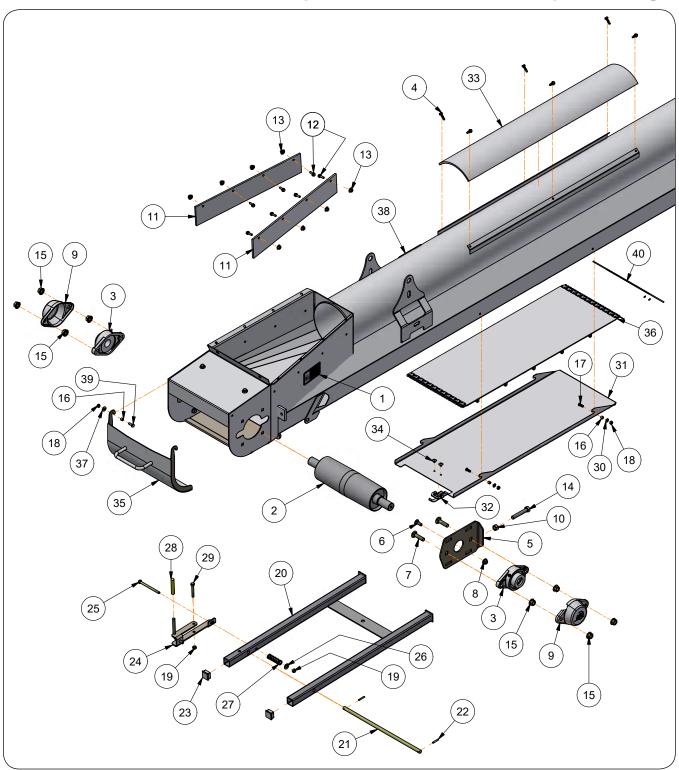
Stand, Cleanout Door, Shield, & Idler End ComponentsFor 6" Tube Conveyor



Stand, Cleanout Door, Shield, & Idler End ComponentsFor 6" Tube Conveyor

ITEM	PART NO.	DESCRIPTION	QTY	NOTES
1	TA1-906109-0	Decal, WARNING "Moving Parts"	2	
2	900608	Idler Pulley	1	
3	TA0-903088-0	Bearing w/Flange (Includes Zerk, Setscrew & Single Lip Seal)	4	
4	23912TS	Adjustment Plate	1	=Tan Speckle=
5	9388-024	Carriage Bolt 5/16"-18UNC x 3/4"	4	Grade 5
6	9500341	Carriage Bolt 5/16"-18UNC x 1 3/4"	8	Grade 5 - Full Threaded
7	9394-004	Hex Nut, 5/16"-18UNC	16	GRADE 5
8	9404-019	Lock Washer 5/16"	16	
9	9500310	Idler Cover	3	=Tan Speckle=
10	9394-006	Hex Nut 3/8"-16UNC	10	Grade 5
11	24756	Poly Strip 3" x 14 5/32"	2	
12	97420	Flange Screw 1/4"-20UNC x 3/4"	14	Grade 5
13	97189	Hex Nut/Lrg Flg 1/4"-20UNC	18	Grade 5
14	TA0-907104-0	Capscrew 3/8"-16UNC x 1 3/4"	1	Grade 5
15	91257	Large Flange Hex Nut, 5/16"-18UNC	8	Grade 5
16	22018	Bushing	8	
17	9003829	Capscrew/Button Head Socket 1/4"-20UNC x 3/4"	8	Grade 5
18	9405-064	Flat Washer 1/4" USS	4	
19	9936	Locknut 1/4"-20UNC	8	
20	9512	Self-Drilling Screw 1/4-14 x 1"	6	
21	9807	Locknut 5/16"-18UNC	4	
22	24943TS	Stand Weldment	1	=Tan Speckle=
23	24946	Pin 1/2" Dia. x 12 1/2"	1	
24	9392-097	Roll Pin 3/16" Dia. x 1"	2	
25	9000117	Plug 1 1/4" Square	2	
26	27110TS	Latch Weldment	1	=Tan Speckle=
27	9390-042	Capscrew 5/16"-18UNC x 4"	1	Grade 5
28	9405-070	Flat Washer 5/16" USS	1	
29	TA510035	Spring 2 1/2" Long	1	
30	9003869	Yellow Hand Grip	1	
31	9390-035	Capscrew 5/16"-18UNC x 2 1/4"	1	Grade 5
32	9405-052	Flat Washer 3/16" USS	4	
33	2003793TS	Shield	1	=Tan Speckle=
34	TA0-902596-0	Draw Blade Latch	1	
35	9500175	Pop Rivet 3/16"	2	
36	2003807TS	Cleanout Door Weldment	1	=Tan Speckle=
37	2003862	Wear Guard 6" x 36"	1	
20	9501224	Conveyor Belt for 6" x 18' Conveyor	1	
38	9501506	Splice Kit	-	
39	2005373TS	Conveyor Weldment 6" Dia. x 18' w/Decals	-	
40	2007527	Splice Pin	-	
41	9390-003	Capscrew 1/4"-20UNC x 3/4" Gr5	2	

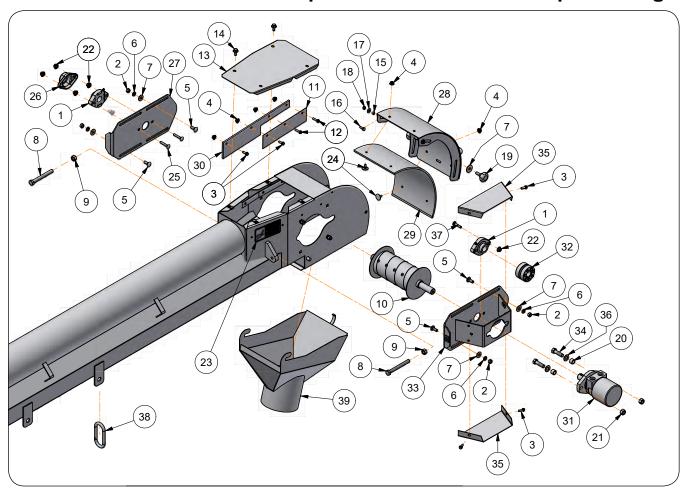
Stand, Cleanout Door, Shield, & Idler End ComponentsFor 8" Tube Conveyors



Stand, Cleanout Door, Shield, & Idler End ComponentsFor 8" Tube Conveyors

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=
	9501250	Conveyor Belt for 8" x 18' Conveyor	1	
36	9501208	Conveyor Belt for 8" x 21' Conveyor	1	
	9501508	Splice Kit	-	
37	9405-064	Flat Washer, 1/4" USS	2	
38	2005374TS	Conveyor Weldment 8" Dia. x 18' w/Decals	-	
30	2005375TS	Conveyor Weldment 8" Dia. x 21' w/Decals	-	
39	9390-003	Capscrew, 1/4"-20UNC x 3/4" G5	2	
40	2007527	Splice Pin	-	

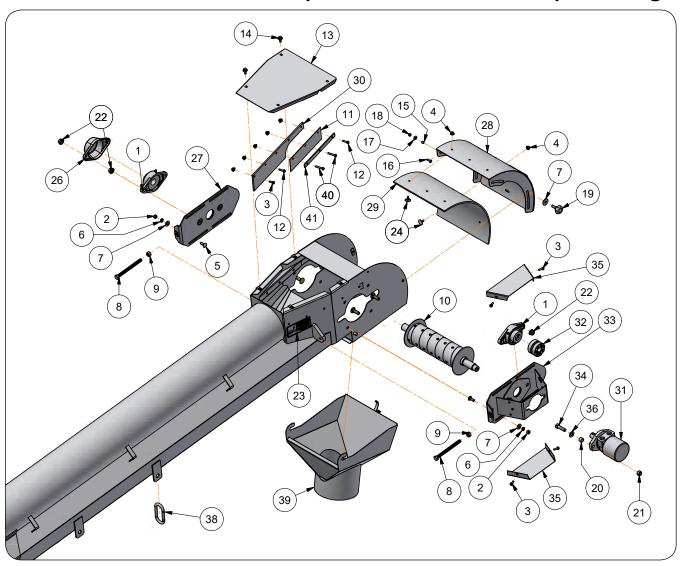
Discharge Spout Components — 6" Tube Conveyor



Discharge Spout Components — 6" Tube Conveyor

ITEM	PART NO.	DESCRIPTION	QTY	NOTES
1	TA0-903088-0	Bearing w/Flange (Includes 90° Zerk)	2	
2	9394-006	Hex Nut 3/8"-16UNC	8	Grade 5
3	97420	Flange Screw 1/4"-20UNC x 3/4"	4	Grade 5
4	97189	Hex Nut/Lrg Flg 1/4"-20UNC	14	Grade 5
5	9388-051	Carriage Bolt 3/8"-16UNC x 1"	8	Grade 5
6	9404-021	Lock Washer 3/8"	8	
7	9405-076	Flat Washer 3/8" USS	10	
8	93400	Capscrew 1/2"-13UNC x 4 1/2"	2	Grade 5
9	9394-010	Hex Nut 1/2"-13UNC	2	Grade 5
10	901077	Drive Pulley	1	
11	24260	Seal 2 1/2" x 10 1/2"	2	
12	901101	Flange Screw 1/4"-20UNC x 1"	4	Grade 5
13	2003730TS	Top Shield/Cover	1	=Tan Speckle=
14	91256	Screw/Lrg Flg 5/16"-18UNC x 3/4"	4	Grade 5
15	22018	Bushing 3/8" Dia.	2	
16	9390-003	Capscrew 1/4"-20UNC x 3/4"	2	Grade 5
17	9405-064	Flat Washer 1/4" USS	2	
18	9936	Locknut 1/4"-20UNC	2	
19	901046	Knob	2	
20	24550	Bushing	2	
21	9800	Locknut 1/2"-13UNC	2	
22	91257	Large Flange Hex Nut 5/16"-18UNC	6	
23	95445	Decal, WARNING (High-Pressure Leaks)	1	
24	902006	Elevator Bolt, 1/4"-20UNC x 3/4"	6	
25	9500341	Carriage Bolt 5/16"-18UNC x 1 3/4"	2	Grade 5/full threaded
26	9500310	Idler Cover	1	
27	2003742TS	Adjustment Plate	1	=Tan Speckle=
28	2003745TS	Deflector Weldment	1	=Tan Speckle=
29	9501256	Neoprene Sheet	1	
30	2003762	Poly Strip	2	
	9500806	Hydraulic Motor	1	
31	901649	Woodruff Key	-	
	91687	Seal Kit	-	
32	9501220	Coupler	1	
33	2003765TS	Adjustment Plate Weldment	1	=Tan Speckle=
34	9390-102	Capscrew 1/2"-13UNC x 1 3/4"	2	Grade 5
35	2003487TS	Shield	2	=Tan Speckle=
36	9405-086	Flat Washer 1/2" SAE	2	
37	9388-027	Carriage Bolt 5/16"-18UNC x 1 1/2"	2	
38	9500155	Spring Snap Hook	1	
39	2003772TS	Spout Weldment w/Metal Latch	1	=Tan Speckle=

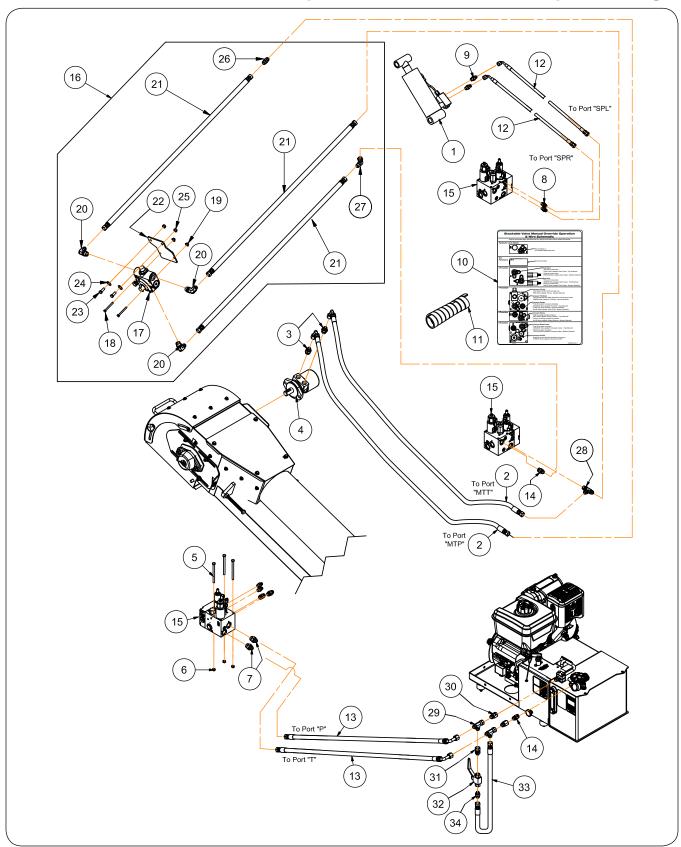
Discharge Spout Components — 8" Tube Conveyor



Discharge Spout Components — 8" Tube Conveyor

ITEM	PART NO.	DESCRIPTION	QTY	NOTES
1	902697	2-Bolt Flange Bearing	4	
2	9394-006	Hex Nut, 3/8"-16UNC	8	
3	97420	Flange Screw, 1/4"-20UNC x 3/4" G5	14	
4	97189	Hex Nut/Large Flange, 1/4"-20UNC	26	
5	9388-051	Carriage Bolt, 3/8"-16UNC x 1" G5	12	
6	9404-021	Lock Washer, 3/8"	8	
7	9405-076	Flat Washer, 3/8" USS	11	
8	97171	Capscrew, 1/2"-13UNC x 6" G5 (Full Threaded)	2	
9	9394-010	Hex Nut, 1/2"-13UNC G5	3	
10	9501222	Drive Pulley	1	
11	25256	Seal, 2 3/4 x 10 1/2	2	
12	901101	Flange Screw, 1/4"-20UNC x 1" G5	4	
13	2003363TS	Top Shield	1	=Tan Speckle=
14	91256	Screw/Large Flange, 5/16"-18UNC x 3/4" G5	6	
15	22018	Bushing	8	
16	9390-003	Capscrew, 1/4"-20UNC x 3/4" G5	8	
17	9405-064	Flat Washer, 1/4" USS	4	
18	9936	Locknut, 1/4"-20UNC	8	
19	901046	Knob	3	
20	24550	Bushing	2	
21	9800	Locknut 1/2"-13UNC	8	
22	91267	Flange Nut 1/2"-13UNC	14	
23	95445	Decal, WARNING "High-Pressure Fluid"	1	
24	902006	Elevator Bolt 1/4"-20UNC x 3/4" G5	8	
25	9388-106	Carriage Bolt, 1/2"-13UNC x 2" G5	6	
26	9501223	Cover	3	
27	2003483TS	Adjustment Plate Weldt	1	=Tan Speckle=
28	2003440TS	Deflector Weldment	1	=Tan Speckle=
29	9501210	Neoprene Sheet	1	
30	25257	Poly Strip	2	
31	9500806	Hydraulic Motor	1	=Black=
32	9501220	Fenner Coupler	1	
33	2003486TS	Adjustment Plate Weldment	1	=Tan Speckle=
34	9390-102	Capscrew 1/2"-13UNC x 1 3/4" G5	2	
35	2003487TS	Shield	2	=Tan Speckle=
36	9405-086	Flat Washer 1/2" SAE	4	
37	9388-104	Carriage Bolt, 1/2"-13UNC x 1 1/2" G5 (Full Threaded)	2	
38	9500155	Spring Snap	1	
39	26284TS	Spout Weldment (Pntd)	1	=Tan Speckle=
40	901831	Flange Screw 1/4"-20UNC x 1 1/2"	4	
41	26432B	Strip 3/4 X 10 1/4	2	=Black=

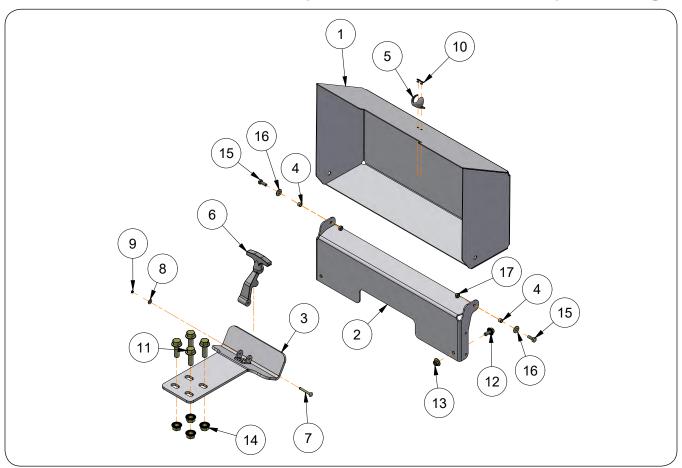
Hydraulic Components



Hydraulic Components

	TEM	PART NO.	DESCRIPTION	QTY	NOTES
		29037	Cylinder 2 1/2 x 5 (3000 PSI) Replacement Kit	1	For 6" x 18' &
	1	98435	Adapter 9/16-18 JIC Male x 9/16-18 O-Ring Male w/ .030 Restrictor	2	8" x 18' Conveyors
L		902806	Cylinder 3 x 5 (3000 PSI)	1	For 8" x 21' Conveyors
		902837	Hose 1/2 x 310 3/4-16 JIC Female x 90° Medium Drop 3/4-16 JIC Female	2	For 6" x 18' & 8" x 18' Conveyors
	2	902968	Hose 1/2 x 350 3/4-16 JIC Female x 90° Medium Drop 3/4-16 JIC Female	2	For 8" x 21' Conveyors
	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	2	
	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	
	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	2005688IV	Flow Control Valve Assembly	1	
ΙL	17	902800	Flow Control Valve	1	
╽┟	18	9390-011	Capscrew 1/4"-20UNC x 2 1/2"	2	Grade 5
	19	97189	Hex Nut/Large Flange 1/4"-20UNC	2	
╽┟	20	93599	90° Elbow 3/4-16 JIC Male x 7/8-14 O-Ring Male	3	
	21	9869	Hose 1/2 x 90 3/4-16 JIC Male x 3/4-16 JIC Female	3	
l L	22	2005062IV	Valve Mount Plate	1	
╽┟	23	9390-055	Capscrew 3/8"-18UNC x 1"	2	Grade 5
╽┟	24	9405-076	Flat Washer 3/8" USS	2	
╽┟	25	9928	Locknut 3/8"-16UNC	2	
	26	9000793	Adapter 3/4-16 JIC Male x 3/4-16 JIC Male	1	
Ш	27	93683	90° Elbow 3/4-16 JIC Male x 3/4-16 JIC Female	1	
	28	93588	Tee 3/4-16 JIC Male x 3/4-16 O-Ring Male x 3/4-16 JIC Male	1	
	29	95059	Tee 3/4-16 JIC Male x 3/4-16 JIC Female x 3/4-16 JIC Male	2	
	30	901181	Reducer Adapter 3/4-16 JIC Female x 3/4-16 JIC Male	2	
	31	97664	Adapter 9/16-18 O-Ring Male x 3/4-16 JIC Female	1	
	32	9501014	Cold Start/Ball Valve	1	
	33	9502790	Hose 1/2 x 20 3/4-16 JIC Female x 3/4-16 JIC Female	1	
	34	95475	Adapter 3/4-16 JIC Male x 9/16-18 O-Ring Male	1	

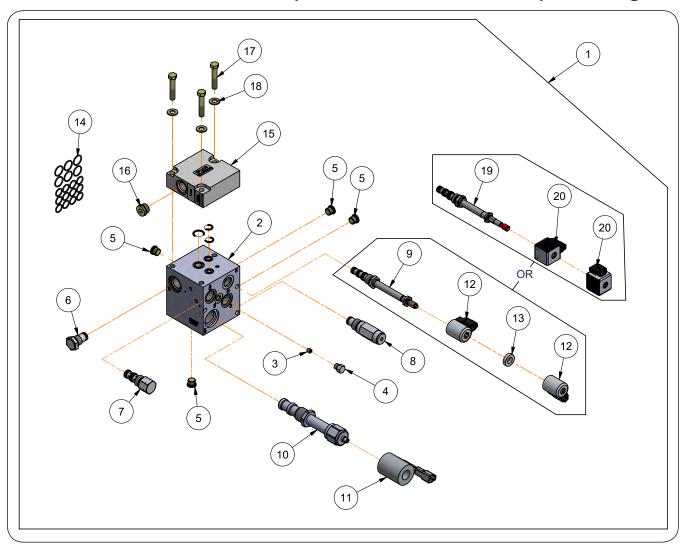
Valve Shield Components



Valve Shield Components

ITEM	PART NO.	DESCRIPTION		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	

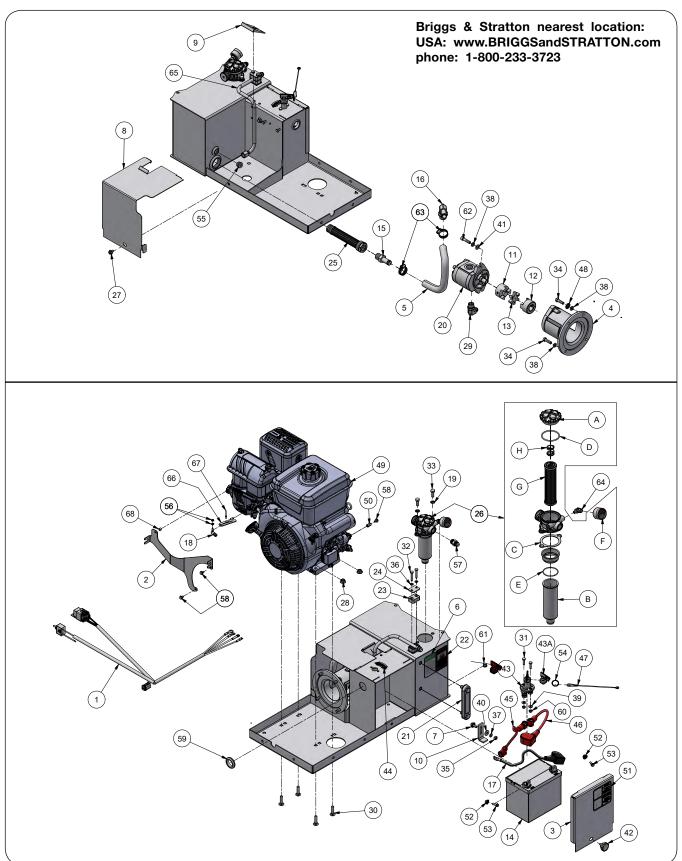
Stackable Valve Assembly - 2 Function Components



Stackable Valve Assembly - 2 Function Components

ITEM	PART NO.	DESCRIPTION		NOTES
1	9500855	Valve Assembly w/End Cover Assembly		Includes items 2 - 18
2	N/A	Valve Body Only		
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	
6	902853	Seal Kit	-	
7	9501428	Flow Regulator	1	
	9500116	Seal Kit	-	
8	902918	Relief Cartridge	1	
l °	903032	Seal Kit	-	
	902842	Cartridge Valve, 3/4"-16UNF (3 Position, 4 Way)	3	
9	902849	Seal Kit for 3 Position, 4 Way Cartridge Valve - For Round Coi		For Round Coils
	902813	Coil Nut, 1/2"-20UNF	-	
10	9500131 Cartridge - Proportional 1 1/16"-8UNC Thread		1	
10	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

Briggs & Stratton Power Pak Components

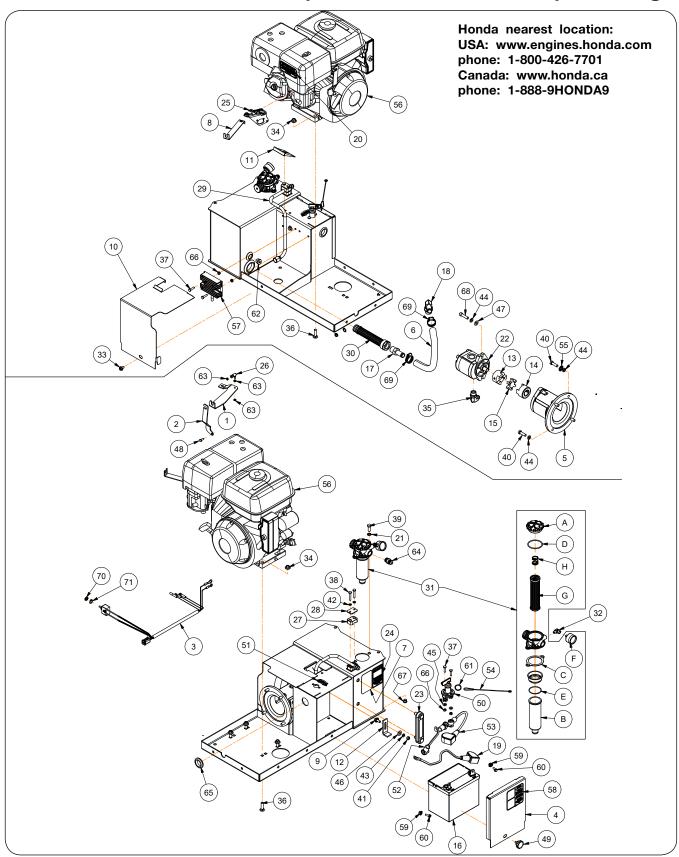


Briggs & Stratton Power Pak Components

ITEM	PART NO.	QTY	DESCRIPTION	
		Engine Harness		
2	2011330 2012277B	1	Throttle Bracket	
3	25508IV	1	Battery Cover	
4	25515	1	Pump/Motor Mount Weldment	
5	25519	1	Hydraulic Hose 3/4"	
6	26823	1	Decal, IMPORTANT (Battery)	
	20023	'	Flange Screw,	
7	91256	1	5/16"-18UNC x 3/4" G5	
8	28668IV	1	Pump Shroud	
9	28670	1	Flap Seal Trim	
10	28671B	1	Battery Hold Down Strap	
11	901370	1	Jaw Coupling 5/8" Bore	
12	901371	1	Jaw Coupling 1" Bore	
13	901372	1	Coupler Insert/Spider	
14	-	1	Battery 12-Volt Top Post	
			(Purchase Battery Locally)	
15	901379	1	Straight 3/4" Hose ID Insert x 3/4-14 NPTF Male	
16	901380	1	90° Elbow 3/4" Hose Insert	
47	001404		x 1 1/16-12 O-ring Male	
17	901404	1	Battery Cable 14" (Black)	
18	902368	1	Quick Disconnect Ball Joint	
19 901567 2			Internal Lock Washer, 3/8"	
20	901694	1	Pump 10 CU	
	903056 - Key		•	
21	901771	1	Site Gauge Assembly	
22	902026	1	Decal, WARNING (Sparks)	
23	902892	1	Clamp Body (2-Halves)	
24	902893	1	Cover Plate - Clamp	
25	902910	1	Suction Strainer w/Magnet	
26	902915	1	In-Tank Return Filter 9.2GPM	
<u>A</u>	902123	-	Cover	
В	902124	-	Bowl	
C	902905	-	Gasket	
<u>D</u>	902906	-	0-Ring 2 5/16" Dia.	
<u> E</u>	902907	-	0-Ring 1 31/32" Dia.	
F	902911	-	Filter Gauge	
G	902912	-	Filter Replacement	
H	902125	-	Compression Spring	
1 2/ 1 Uli3161-111/1 1 2 1 ° °		Large Flange Screw 5/16"-18UNC x 1/2"		
28	91263	4	Large Flange Nut 3/8"-16UNC	
29	93599	1	90° Elbow 3/4-16 JIC Male x 7/8-14 O-ring Adj. Male	
20 Carriage Bolt 3/8"-1		Carriage Bolt 3/8"-16UNC x 1 1/2" (Grade 5)		
		Capscrew 1/4"-20UNC x 1" (Grade 5)		

	1			
ITEM	PART NO.	QTY	DESCRIPTION	
32	9390-007	2	Capscrew 1/4"-20UNC	
			x 1 1/2" (Grade 5)	
33	9390-055	2	Capscrew 3/8"-16UNC x 1"	
34	9390-056	4	Capscrew 3/8"-16UNC x 1 1/4"	
35	9394-004	1	Hex Nut 5/16"-18UNC	
36	9404-017	2	Lock Washer 1/4"	
37	9404-019	1	Lock Washer 5/16"	
38	9404-021	6	Lock Washer 3/8"	
39	9405-062	2	Flat Washer 1/4" SAE	
40	9405-070	1	Flat Washer 5/16" USS	
41	9405-074	2	Flat Washer 3/8" SAE	
42	9501669	1	Fluted Knob	
43	9502619	1	Battery Disconnect Switch	
43	9502620	-	Service Key	
44	9502623	1	Decal, On/Off Switch	
45	9502625	1	Battery Cable 14 13/16" (Red)	
	9502626		Batter Cable 14 13/16" (Red)	
46	901405	1	Non-Disconnect Cable 18"	
	901405		(Red)	
47	9502661	1	Nylon Lanyard 8"	
48	9504045	1	Lock Washer, 3/8" Internal/ External Tooth	
49	9504303	1	Vanguard 400 Gas Engine	
50	9504348	1	Hex Coupling Nut M6 x 1.0	
51	9504513	1	Decal, Cold Start Valve	
52	97189	2	Large Flange Hex Nut 1/4"-20UNC	
53	97420	2	Flange Screw 1/4"-20UNC x 3/4"	
54	97489	1	Split Ring 1"	
			Plug 3/4-16 O-ring Male	
55	98048	1	w/Hollow Hex Socket	
56	9830-016	3	Hex Nut #10-32 (Grade 2)	
57	9864	1	Adapter 3/4-16JIC Male x 3/4-16 O-ring Male	
58	98788	1	Flange Screw, M6-1 x 10mm	
59	98830	1	Grommet/Rubber 1 1/4" Dia.	
60	9936	2	Locknut 1/4"-20UNC	
61	99692	1	O-Ring Plug	
	00002		Socket Head 3/8"-16UNC	
62	99888-065	2	x 1 1/2" (Grade 8)	
63	TA800912	2	Hose Clamp SAE#16	
64	9006817	1	Adapter Street 90° Elbow	
65	902898	1	Hydraulic Steel Line 1/2" OD	
66	2012279B	1	Motor Plate	
67	TA0-908394-0	1	Pop Rivet, 1/8"	
68	22018	1	Bushing, 3/8" Dia. x 9/32"	

Honda Power Pak Components

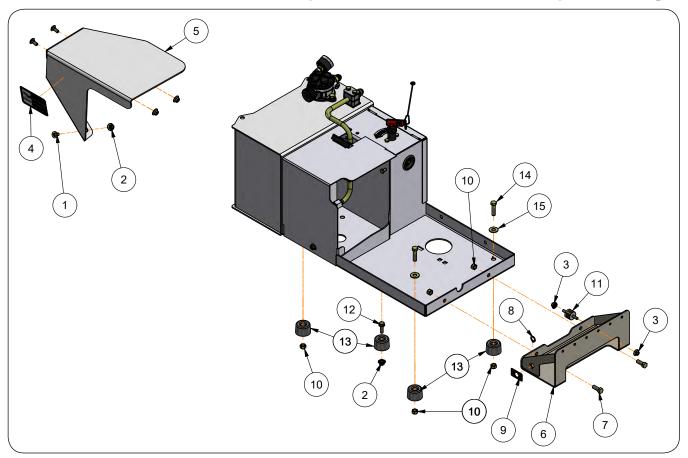


Honda Power Pak Components

ITEM PART NO. QTY DE		QTY	DESCRIPTION	
1 2007490B		1	Throttle Bracket	
2 2007491B 1 Throttle Vertical Support		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	
10	001404	1	x 1 1/16-12 O-ring Male	
19	901404	l l	Battery Cable 14" (Black)	
20	901507	1	Decal, IMPORTANT (Close Fuel Valve)	
21	901567	2	Internal Lock Washer	
22	901694	1 Pump 10 CU		
	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	
Α	902123	-	Cover	
В	902124	-	Bowl	
С	902905	-	Gasket	
D 902906 - 0-R		-	0-Ring 2 5/16" Dia.	
E	902907	- 0-Ring 1 31/32" Dia.		
F 902911 -		-	Filter Gauge	
G	902912	-	Filter Replacement	
Н	902125	-	Compression Spring	
		1	Adapter Street 90° Elbow	
33 903161-014 2			Flange Screw, 5/16"-18UNC x 1/2" G5	

34 91263	ITEM	PART NO.	QTY	DESCRIPTION		
36 9388-053 4 Carriage Bolt 3/8-16UNC x						
X ///s-14 U-ring Adj. Male Carriage Bolt 3/8-16UNC x 1 1/2 (Grade 5) 2 Capscrew 1/4-20UNC x 1 (Grade 5) 38 9390-005 2 Capscrew 1/4-20UNC x 1 1/2 (Grade 5) 39 9390-055 2 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 3/8" 45 9405-062 2 Flat Washer 3/8" SAE 46 9405-070 1 Flat Washer 3/8" SAE 48 94917-038 1 Capscrew M6x16 49 9501669 1 Fluted Knob 95026219 1 Battery Disconnect Switch 52 9502625 1 Battery Cable 14 13/16" (Red) Non-Disconnect Cable 18" (Red) Non-Disconnect Cable 18" (Red) S4 950453 1 Lock Washer, 3/8" Internal/External Tooth Fluted Knob 1 Lock Washer, 3/8" Internal/External Tooth Fluted Knob S4 9504048 1 Honda 11.7 Net HP S6 9504048 1 Honda 11.7 Net HP S7 9504051 1 Rectifier S8 9504513 1 Decal, Cold Start Valve Large Flange Hex Nut 1/4-20UNC 60 97420 2 Flange Screw 1/4-20UNC x 3/4 59 9888 1 Plug 3/4-16 O-ring Male W/Hollow Hex Socket 63 9830-016 3 Hex Nut #10-32 (Grade 2) Adapter 3/4-16 JIC Male x 3/4-16 O-ring Male 66 9936 2 Locknut 1/4-20UNC 67 99692 1 O-Ring Plug Socket Head 3/8-16UNC x 1 1/2 (Grade 8) Socket Head 3/8-16UN	25	02500	1	90° Elbow 3/4-16 JIC Male		
36 9388-U53 4 1 1/2 (Grade 5)	35	93099	<u>'</u>	·		
38 9390-007 2 Capscrew 1/4-20UNC x 1 1/2 (Grade 5) 39 9390-055 2 Capscrew 3/8-16UNC x 1 G5 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 3/8" 44 9404-021 6 Lock Washer 3/8" 45 9405-062 2 Flat Washer 3/8" 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 9502620 - Service Key 51 9502623 1 Decal, On/Off Switch 52 9502625 1 Battery Cable 14 13/16" (Red) 54 9502662 1 Battery Cable 14 13/16" (Red) 55 9504045 1 Lock Washer, 3/8" Internal/ External Tooth 56 9504045 1 Lock Washer, 3/8" Internal/ External Tooth 56 9504045 1 Rectifier 58 9504513 1 Decal, Cold Start Valve 59 97189 2 Large Flange Hex Nut	36	9388-053	4			
38 9390-007 2 Capscrew 1/4-20UNC x 1 1/2 (Grade 5) 39 9390-055 2 Capscrew 3/8-16UNC x 1 G5 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 3/8" 45 9405-062 2 Flat Washer 1/4" SAE 46 9405-070 1 Flat Washer 3/8" SAE 46 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 50 9502620 - Service Key 51 9502623 1 Battery Cable 14 13/16" (Red) 52 9502625 1 Battery Cable 14 13/16" (Red) 54 9502661 1 Nylon Lanyard 8" 55 9504045 1	37	9390-005	2	· ·		
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 9502619 1 Battery Disconnect Switch 9502620 - Service Key 51 9502623 1 Decal, On/Off Switch 52 9502625 1 Battery Cable 14 13/16" (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	38	9390-007	2	Capscrew 1/4-20UNC x 1 1/2		
1	39	9390-055	2	Capscrew 3/8-16UNC x 1 G5		
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 9502619 1 Battery Disconnect Switch 9502620 - Service Key 51 9502623 1 Decal, On/Off Switch 52 9502625 1 Battery Cable 14 13/16" (Red) Non-Disconnect Cable 18" (Red) Non-Disconnect Cable 18" (Red) Non-Disconnect Cable 18" (Red) External Tooth External Tooth External Tooth External Tooth For the service of the service	40	9390-056	4	Capscrew 3/8-16UNC x 1 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 50 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) 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	41	9394-004	1	Hex Nut 5/16-18UNC		
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 50 9502620 - Service Key 51 9502623 1 Decal, On/Off Switch 52 9502625 1 Battery Cable 14 13/16" (Red) 54 9502626 1 Batter Cable 14 13/16" (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 57 9504051 1 Rectifier 58 9504513 1 Decal, Cold Start Valve 59 97189 2 Large Flange Hex N	42	9404-017	2	Lock Washer 1/4"		
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 50 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) 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	43	9404-019	1	Lock Washer 5/16"		
Heat	44	9404-021	6	Lock Washer 3/8"		
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 50 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) Non-Disconnect Cable 18" (Red) Non-Disconnect Cable 18" (Red) 54 9502661 1 Nylon Lanyard 8" 55 9504045 1 Lock Washer, 3/8" Internal/External Tooth 66 9504048 1 Honda 11.7 Net HP 67 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	45	9405-062	2	Flat Washer 1/4" SAE		
48 94917-038 1 Capscrew M6x16 49 9501669 1 Fluted Knob 50 9502619 1 Battery Disconnect Switch 50 9502620 - Service Key 51 9502623 1 Decal, On/Off Switch 52 9502625 1 Battery Cable 14 13/16" (Red) 54 9502626 1 Batter Cable 14 13/16" (Red) Non-Disconnect Cable 18" (Red) Non-Disconnect Cable 18" (Red) Non-Disconnect Cable 18" (Red) Non-Disconnect Cable 18" (Red) Non-Disconnect Cable 18" (Red) Nylon Lanyard 8" Lock Washer, 3/8" Internal/External Tooth External Tooth 56 9504045 1 Honda 11.7 Net HP 56 9504048 1 Honda 11.7 Net HP 59 97189 2 Large Flange Hex Nut 59 97189 2 Large Flange Hex Nut 60 97420 2 Flange Screw 1/4-20UNC 61 97489 1 Split Ring 1" 62 98048 <td>46</td> <td>9405-070</td> <td>1</td> <td>Flat Washer 5/16" USS</td>	46	9405-070	1	Flat Washer 5/16" USS		
49	47	9405-074	2	Flat Washer 3/8" SAE		
9502619	48	94917-038	1	Capscrew M6x16		
50 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) Non-Disconnect Cable 18" (Red) 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 4 Large Flange Hex Nut 1/4-20UNC 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 0-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 Ma	49	9501669	1	Fluted Knob		
9502620		9502619	1	Battery Disconnect Switch		
52 9502625 1 Battery Cable 14 13/16" (Red) 53 9502626 1 Batter Cable 14 13/16" (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 56 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 0-ring Male w/Hollow Hex Socket 63 9830-016 3 Hex Nut #10-32 (Grade 2) 64 9864 1 Adapter 3/4-16 JIC 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	50	50		Service Key		
52 9502625 1 Battery Cable 14 13/16" (Red) 53 9502626 1 Batter Cable 14 13/16" (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 56 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 0-ring Male w/Hollow Hex Socket 63 9830-016 3 Hex Nut #10-32 (Grade 2) 64 9864 1 Adapter 3/4-16 JIC 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	51	9502623	1	Decal, On/Off Switch		
Socket Head 3/8-16UNC Socket Socket	52	9502625	1	Battery Cable 14 13/16" (Red)		
Socket Head 3/8-16UNC Socket Socket Socket Head 3/8-16UNC Socket Head 3/8-16UNC Socket Socket Socket Head 3/8-16UNC Socket Head 3/8-16UN		9502626		Batter Cable 14 13/16" (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 56 9504051 1 Rectifier 57 9504051 1 Rectifier 58 9504513 1 Decal, Cold Start Valve 59 97189 2 Large Flange Hex Nut 1/4-20UNC 2 Flange Screw 1/4-20UNC x 3/4 61 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 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	53	901405	1 1			
55 9504045 1 Lock Washer, 3/8" Internal/External Tooth 56 9504048 1 Honda 11.7 Net HP 56 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)	54	9502661	1			
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)	55	9504045	1	The state of the s		
56 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)		9504048	1			
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)	56		-			
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)	57	9504051	1	4		
59 97189 2 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)	58	9504513	1			
61 97489 1 Split Ring 1" 62 98048 1 Plug 3/4-16 0-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)	59	97189	2			
61 97489 1 Split Ring 1" 62 98048 1 Plug 3/4-16 0-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)	60	97420	2	Flange Screw 1/4-20UNC x 3/4		
62 98048 1 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)	61		1	1		
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)	62	98048	1	Plug 3/4-16 O-ring Male		
64 9864 1 x 3/4-16 0-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)	63	9830-016	3	·		
65 98830 1 Grommet/Rubber 1 1/4" Dia. 66 9936 2 Locknut 1/4-20UNC 67 99692 1 0-Ring Plug 68 99888-065 2 Socket Head 3/8-16UNC x 1 1/2 (Grade 8)	64	9864	1	Adapter 3/4-16JIC Male		
67 99692 1 O-Ring Plug 68 99888-065 2 Socket Head 3/8-16UNC x 1 1/2 (Grade 8)	65	98830	1			
67 99692 1 O-Ring Plug 68 99888-065 2 Socket Head 3/8-16UNC x 1 1/2 (Grade 8)	66	9936	2	Locknut 1/4-20UNC		
68 99888-065 2 Socket Head 3/8-16UNC x 1 1/2 (Grade 8)	67	99692	1			
			2			
	69	TA800912	2			

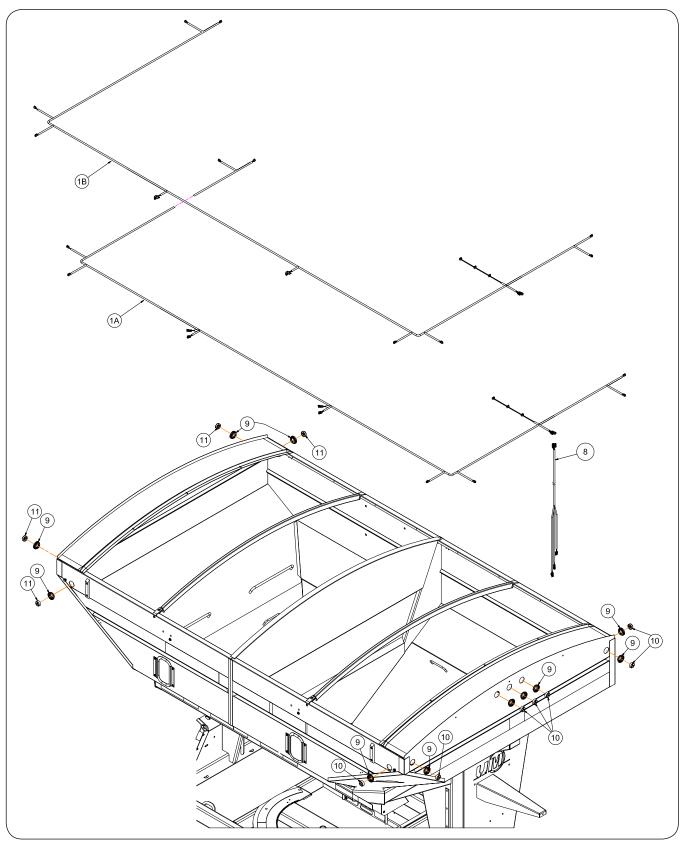
Muffler Shield, Relay Mount, & Power Pak Mounting Components



Muffler Shield, Relay Mount, & Power Pak Mounting Components

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	
	9504512	Decal, Iginition Override (Horizontal - Shown)		
9	9503147	Decal, Iginition 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	

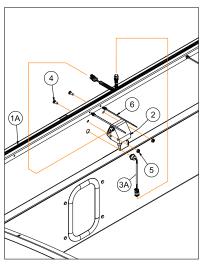
Box Electrical Components



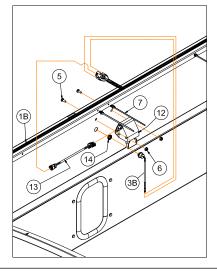
Box Electrical Components

ITEM	PART NO.	DESCRIPTION	QTY	NOTES
1A	2007536	Wire Harness Tank Lighting and Indicators		
1B	2002091	Wire Harness Tank Lighting and Indicators	1	
2	2003011TS	Channel	2	
3A	9502267	Red Indicator Light with 2-Pin Deutsch Plug	0	
3B	902776	Red Indicator Light With Male Bullet Connectors	2	
4	28804	Proximity Switch Assembly	2	
5	902947	Carriage Bolt 1/4"-20UNC x 3/4 (Stainless Steel)	4	
	97189	Large Flange Hex Nut 1/4"-20UNC	4	
6	9004720	Hex Nut 1/4"-20UNC (Stainless Steel)		
7	99599	Cable Tie (Fir Tree)	25	
8	2002090	Rear Tank Harness	2	
9	900956	Grommet Open Back	9	
10	902218	Light/Red LED (2 prong)	6	
11	902219	Light/Amber LED (2 Prong)	3	
12	9501978	Magnetic Reed Switch	1	
13	2006715	Wiring Harness Adapter	2	
14	9501991	Proximity Sensor Grommets	2	

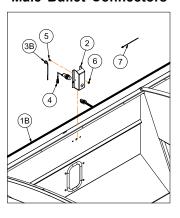
Magnetic Reed Switch & Indicator Light With 2-Pin Deutsch Plug



Magnetic Reed Switch & Indicator Light With Male Bullet Connectors

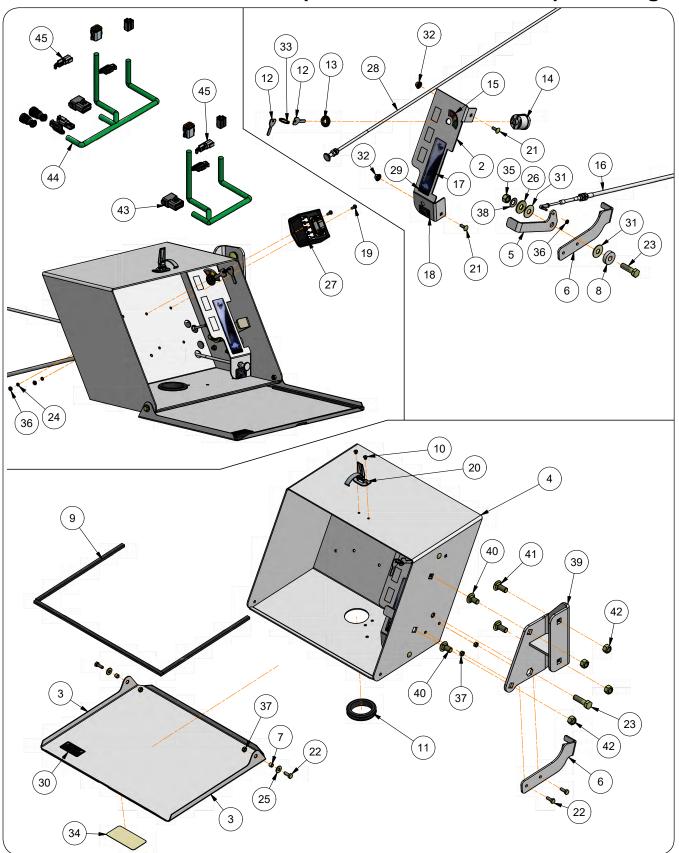


Proximity Switch & Indicator Light With Male Bullet Connectors



Enclosure and Master Keyswitch Components

- For Briggs & Stratton Power Pak

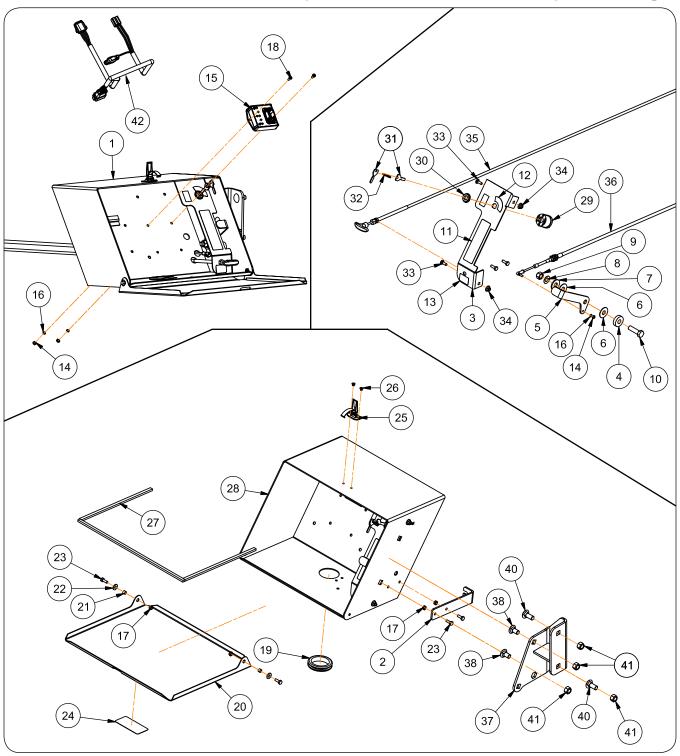


Enclosure and Master Keyswitch Components — For Briggs & Stratton Power Pak

ITEM	PART NO.	DESCRIPTION	QTY	NOTE
1	N/A	Enclosure Assembly (2/3 Function)	1	Includes items 2 through 38
2	2002538TS	Plate-Keyswitch/Throttle/Choke	1	
3	2002539TS	Cover	1	
4	2002540TS	Remote Enclosure Weldment	1	
5	2011586TS	Throttle Lever	1	
6	2011711TS	Cable Mount Bracket	1	
7	22018	Bushing	2	
8	29612	Spacer	1	
9	900152	Foam Strip	3	
10	9003503	Rivet 3/16 x 1/4	2	
11	901334	Grommet 1/4W x 2 1/2D Groove	1	
12	901718	Key	2	
13	901719	Nut - Keyswitch	1	
14	901720	Ignition Switch	1	
15	901811	Keyswitch Decal	1	
16	902273	Control Cable	1	
17	902321	Decal-Throttle	1	
18	902322	Decal-Choke	1	
19	903172-343	Screw #10-32UNF x 1/2" Pan Head Phillips	2	
20	9220	Draw Latch	1	
21	9388-002	Carriage 1/4"-20UNC x 3/4"	2	Grade 5
22	9390-003	Capscrew 1/4"-20UNC x 3/4"	4	Grade 5
23	9390-102	Capscrew 1/2"-13UNC x 1 3/4"	1	Grade 5
24	9404-013	Lock Washer #10 (.190)	3	
25	9405-064	Flat Washer 1/4" USS	2	Grade 2
26	9405-088	Flat Washer 1/2" USS	1	Grade 5
27	9501811	Module-Smooth-Start	1	
28	9504315	Choke Cable	1	
29	9504376	Decal, Fuel Shut-Off	1	
30	9504521	Decal, Transient Voltage Suppression Diode	1	
31	95236	Nylon Flat Washer	2	Grade 5
32	97189	Hex Nut/Lrg Flg 1/4"-20UNC	2	
33	97489	Split Ring 1"	1	
34	97961	Decal Warning "Operator Man"	1	
35	9800	Lock Nut/Top, 1/2"-13UNC	1	
36	9830-016	Hex Nut #10-32UNF	8	Grade 2
37	9936	Locknut 1/4"-20UNC	4	
38	99913	Belleville Washer 1/2"	1	
39	2004988TS	Scale Enclosure Bracket	1	
40	9388-102	Carriage Bolt, 1/2"-13UNC x 1"	2	Grade 5
41	9388-103	Carriage Bolt, 1/2"-13UNC x 1 1/4"	2	Grade 5
42	9800	Lock Nut/Top, 1/2"-13UNC	4	
43	2002130	Non-Scale Front Wiring Harness	1	
44	2002132	Common Scale Front Wiring Harness	1	
45	9504482	Transient Suppression Diode Plug	1	

Enclosure and Master Keyswitch Components

- For Honda Power Pak

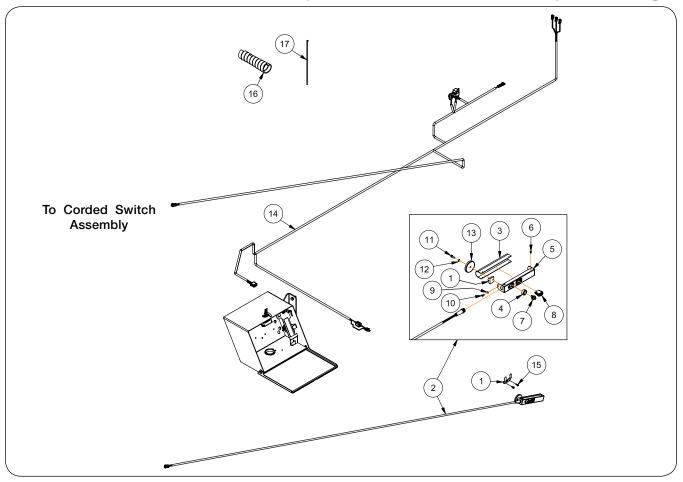


Enclosure and Master Keyswitch Components

- For Honda Power Pak

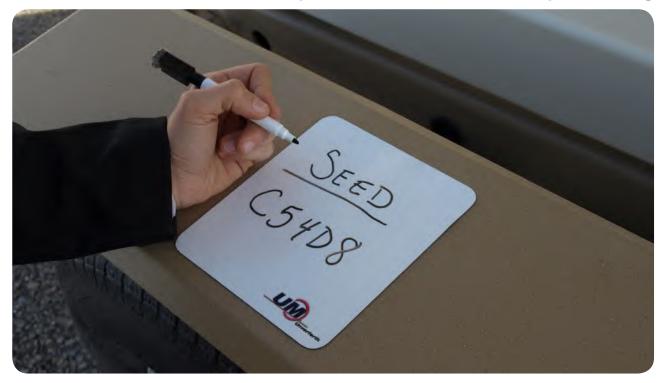
ITEM		PART NO.	DESCRIPTION	QTY	NOTE
1		N/A	Enclosure Assembly (2/3 Function)	1	Includes items 2 through 37
	2	2002630TS	Cable Mount Bracket	1	
	3	2002538TS	Plate-Keyswitch/Throttle/Choke	1	
	4	29612	Spacer	1	
	5	27134TS	Throttle Lever	1	
	6	95236	Nylon Flat Washer	2	Grade 5
	7	9405-088	Flat Washer 1/2 USS	1	Grade 5
	8	99913	Belleville Washer 1/2"	1	
!	9	9800	Locknut 1/2"-13UNC	1	
1	0	9390-101	Capscrew 1/2"-13UNC x 1 1/2"	1	Grade 5
1	1	902321	Decal-Throttle	1	
1	2	901811	Keyswitch Decal	1	
1	3	902322	Decal-Choke	1	
1	4	9830-016	Hex Nut #10-32UNF	8	Grade 2
1	5	9501811	Module-Smooth-Start	1	
1	6	9404-013	Lock Washer #10 (.190)	3	
1	7	9936	Locknut 1/4"-20UNC	4	
1	8	903172-343	Screw #10-32UNF x 1/2" Pan Head Phillips	2	
1	9	901334	Grommet 1/4W x 2 1/2D Groove	1	
2	20	2002539TS	Cover	1	
2	21	22018	Bushing	2	
2	22	9405-064	Flat Washer 1/4 USS	2	Grade 2
2	23	9390-003	Capscrew 1/4"-20UNC x 3/4"	4	Grade 5
2	24	97961	Decal Warning "Operator Man"	1	
2	25	9220	Draw Latch	1	
2	26	9003503	Rivet 3/16 x 1/4	2	
2	27	900152	Foam Strip	3	
2	28	2002540TS	Remote Enclosure Weldment	1	
2	29	901720	Ignition Switch	1	
3	30	901719	Nut - Keyswitch	1	
3	31	901718	Key	2	
3	32	97489	Split Ring 1"	1	
3	33	9388-002	Carriage 1/4"-20UNC x 3/4"	2	Grade 5
3	34	97189	Hex Nut/Lrg Flg 1/4"-20UNC	2	
3	35	902274	Choke Cable	1	
3	86	902273	Control Cable	1	
37		2004988TS	Scale Enclosure Bracket	1	
38		9388-102	Carriage 1/2"-13UNC x 1"	1	Grade 5
39	T	9390-099	Capscrew 1/2"-13UNC x 1 "	1	Grade 5
40	寸	9390-100	Capscrew 1/2"-13UNC x 1 1/4"	2	Grade 5
41	十	9800	Locknut 1/2"-13UNC	4	
<u></u>	\dashv	2002130	Non-Scale Front Wiring Harness (SHOWN)	1	
42	ŀ	2002132	Common Scale Front Wiring Harness	1	
72	ŀ	9504482	Transient Suppression Diode Plug	1	

2-Function Electrical Components



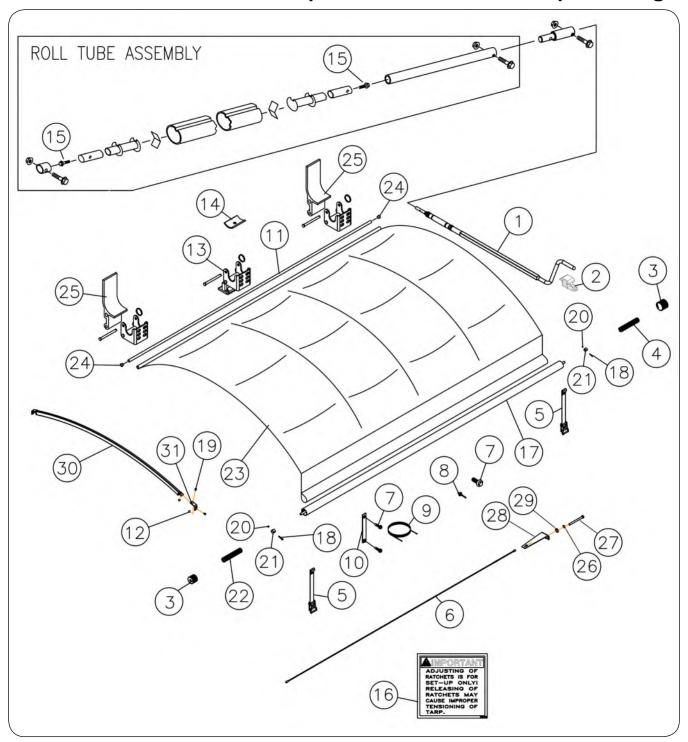
ITEM	PART NO.	DESCRIPTION	QTY	NOTES
1	26505	Switch Retainer	1	Stainless Steel
2	27627	Corded Switch Assembly 194"	1	Includes items 3-13
3	26336	Switch Bottom Plate	1	
4	26906	Button Switch Surround	1	
5	2002158	Switch Cover	1	
6	901853	Pan Head Screw #8 x 3/8	4	Self-Tapping
7	901857	Push Button Switch	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	Specify in Feet
17	94037	Cable Tie 15 1/2"	12	
17	94038	Cable Tie 32"	8	

Dry Erase Set



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

Cable Return Tarp System Components — ALL Models 2755/2755XL & Models 3755/3755XL - Serial Number D69140099 & Lower

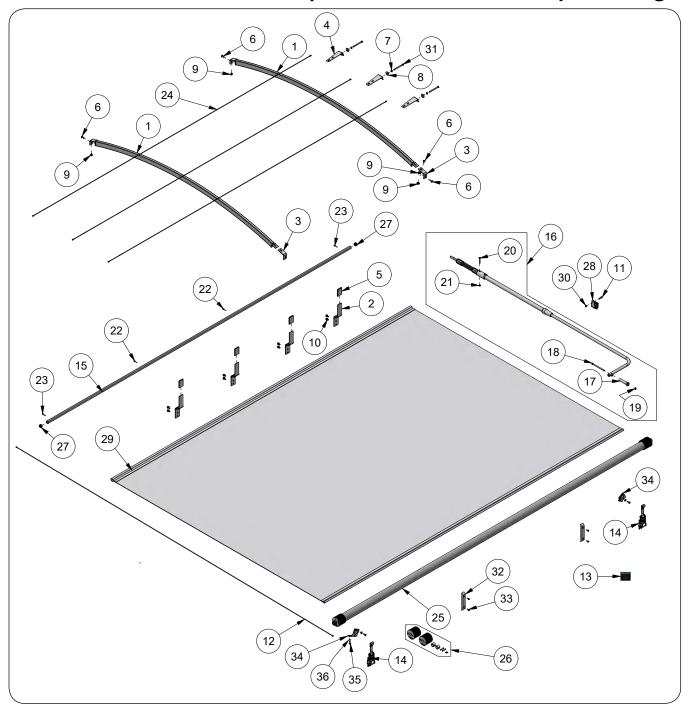


Cable Return Tarp System Components — ALL Models 2755/2755XL & Models 3755/3755XL - Serial Number D69140099 & Lower

ITEM	PART NO.	DESCRIPTION	QTY	NOTES
	9501301	Complete Tarp - Models 2755/2755XL		
	9501302	Complete Tarp - Models 3755/3755XL	 1	
1	9003249	Crank Handle w/ Flexible Shaft	1	
2	9503008	Tube Holder Sub Assembly	1	
3	9503121	Spool Replacement Kit (Includes Cotter Pins, Clevis Pins, Spacers, LH Spool & RH Spool)	1	
4	105826	Spring - RED	1	
5	106042	Ratchet w/ Strap	2	
6	902876	Tarp Cable - Models 2755/2755XL	3	
0	902612	Tarp Cable - Models 3755/3755XL]	
7	96972	Screw/Self-Drilling 3/8"-16UNC x 1	4	
8	9003502	Pop Rivet, 3/16" x 1/8"	2	
0	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	2005078	Stationary Tube - Models 2755/2755XL	1	
11	2005077	Stationary Tube - Models 3755/3755XL	<u>'</u>	
12	91263	Large Flange Hex Nut 3/8-16UNC	6	
13	9501876	Tarp Bracket / Quick Release w/Hardware	3	
14	901525	Tarp Stop Assembly Quick Release	3	
15	9003086	Hardware Bag (Includes Bolts)	1	
16	105876	Decal, Important (Adjusting Rachet)	1	
17	9504388	Roll Tube - Models 2755/2755XL	1 1	Includes Items 18, 20, & 21
17	9504387	Roll Tube - Models 3755/3755XL	<u> </u>	10, 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	
	9501304	Tarp Fabric - For Model 3755/3755XL	1	
23	9501303	Tarp Fabric - For Model 2755/2755XL	<u> </u>	_
	9005581	Tarp Repair Kit	<u> </u>	
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" G5	3	
28	281711B	Bracket 12GA x 2 1/2" x 8 1/4"	3	
29	9005696	Washer 3/8"	3	
30	27195B	Tarp Bow Weldment - Models 2755/2755XL	2	
	2001490TS	Tarp Bow Weldment - Models 3755/3755XL		
31	251122B	Sideboard Tarp Bow Bracket	2	

Cable Return Tarp System Components

Models 3755/3755XL - Serial Number D69140100 & Up

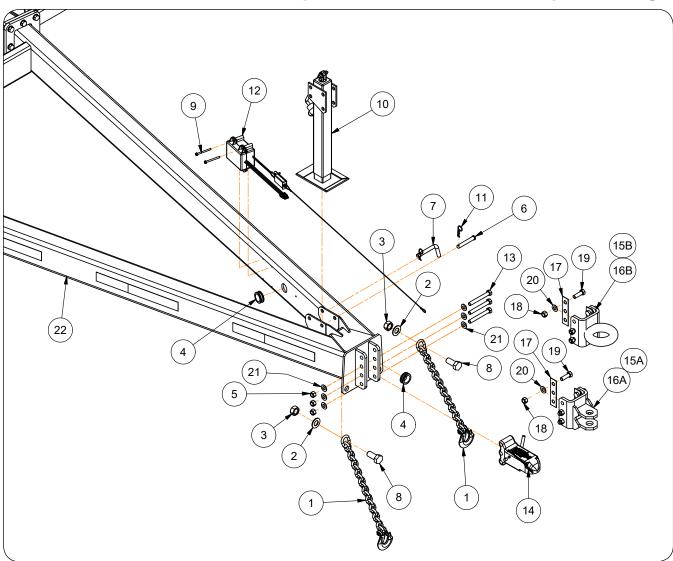


Cable Return Tarp System Components

Models 3755/3755XL - Serial Number D69140100 & Up

ITE	M	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	2	2011539B	Tarp Stop	4	
3	3	251122B	Sideboard Tarp Bow Bracket	2	
4	1	281711B	Bracket 12GA x 2 1/2 x 8 1/4	3	
5	5	9003078	Plastic Cap	4	
6	6	9005312	Truss Head 3/8-16UNC x 1	6	
7	7	9005688	Lock Washer/Ext Tooth 3/8	3	
8	}	9005696	Washer 3/8"	3	
5)	91263	Large Flange Hex Nut 3/8-16UNC	6	
1	0	93649	Flange Screw, 3/8"-16UNC x 3/4"	8	
1	1	9390-055	Capscrew, 3/8"-16UNC x 1" G5	1	
1	2	105828	Roll Tarp Cable	1	
1;	3	105876	Decal, Important (Adjusting Rachet)	1	
1.	4	106042	Ratchet w/ Strap	2	
1.	5	2005077	Stationary Tube	1	
1	6	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	
2	2	9003502	Pop Rivet 3/16" x 1/8"	2	
2	3	9003503	Pop Rivet 3/16" x 1/4"	2	
2	4	902612	Tarp Cable	3	
2	5	9504387	Roll Tube	1	
2	6	9503121	Spool Replacement Kit (Includes Cotter Pins, Clevis Pins, Spacers, LH Spool & RH Spool)	1	
2	7	9501879	Plug 1 3/16"	2	
2	8	9503008	Tube Holder Sub Assembly	1	
2	。	9504193	Tarp Fabric	1	
		9005581	Tarp Repair Kit	-	
3	0	9928	Lock Nut/Top, 3/8"-16UNC	1	
3	1	TA0-907131-0	Capscrew 3/8"-16UNC x 4 1/2 GR5	3	
3:	2	9005307	Poly Strip 1 1/4 x 8	2	
3	3	97420	Flange Screw, 1/4"-20UNC x 3/4" G5	4	
3	4	2010981	Cable Rest Bracket	2	
3	5	9390-053	Capscrew, 3/8"-16UNC x 3/4" G5	4	
3	6	9405-074	Flat Washer, 3/8" SAE	4	

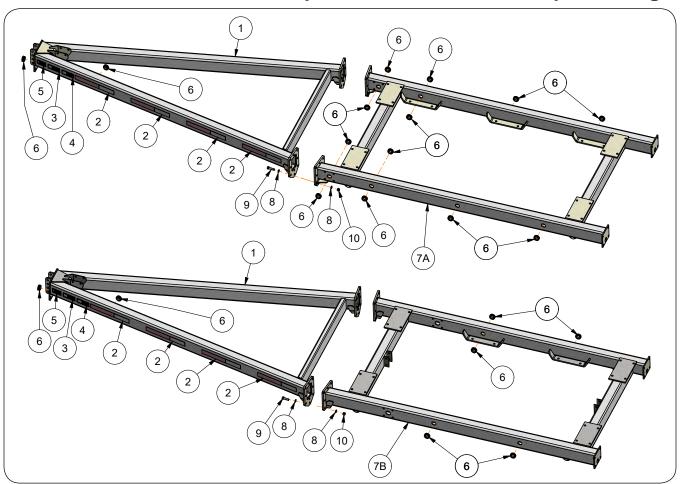
Undercarriage Bumper Hitch Components



Undercarriage Bumper Hitch Components

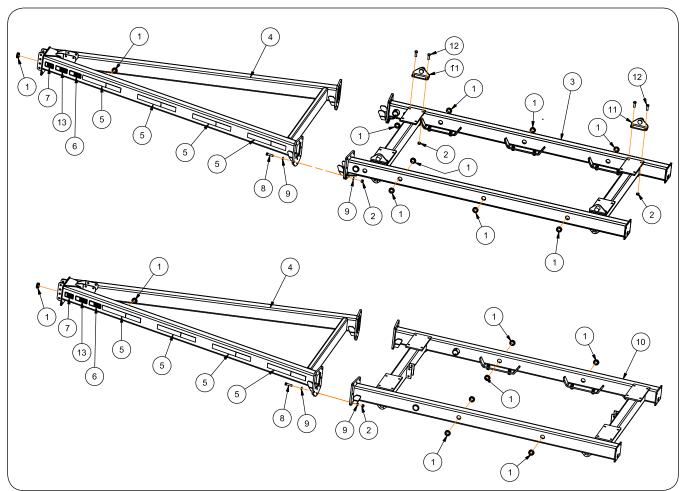
IT	ЕМ	PART NO.	DESCRIPTION	QTY	NOTES
	1	98792	Chain Transport	2	
	2	9405-116	Flat Washer 1"	2	
	3	9663	Locknut 1"-8UNC	2	
	4	98487	Grommet	2	
	5	9801	Locknut 5/8"-11UNC	3	
	6	9805	Clevis Pin 5/8" Dia. x 4"	1	
	7	84979	Bend Pin 5/8" Dia.	1	
	8	91299-184	Capscrew 1"-8UNC x 2 1/4"	2	Grade 8
	9	902238	Flange Bolt, 1/4"-20UNC x 3"	4	Grade 5
	10	902326	Jack Stand Weldment 8000#	1	
'	ا تا	902099	Jack Handle & Mounting Hardware	-	
1	11	9806	Hairpin Cotter	1	
1	12	-	Electric Breakaway Kit	1	See page 5-46
1	13	9390-134	Capscrew 5/8"-11UNC x 5"	3	Grade 5
		2000357TS	Standard Hitch Kit (2 5/16" Ball)	1	Includes Hitch & Items 5 & 13
	14	91160	Grease Zerk	1	
1	5A	2000264B	Clevis Hitch Kit (Option)	-	Includes Items 16A & 17 Through 20
1	5B	2000265B	Pintle Hitch Kit (Option)	-	Includes Items 16B & 17 Through 20
	16A	28475B	Clevis Hitch (Option)	1	Recommend using 1" Dia. Hitch Pin
	16B	24948B	Pintle Hitch Weldment (Option)	1	
	17	25347B	Hitch Shim	1	
	18	9801	Locknut 5/8"-11UNC	6	
	19	9390-124	Capscrew 5/8"-11UNC x 2"	6	Grade 5
	20	9405-098	Flat Washer 5/8" SAE	6	
	21	9405-098	Flat Washer 5/8" SAE	6	
2	22	2009899TS	Hitch 10' Assembly =Tan Speckle=	-	Includes decals, front wiring harness, & items 1 through 14 & 21

Undercarriage Frame Components — For Serial Number D69140100 & Up



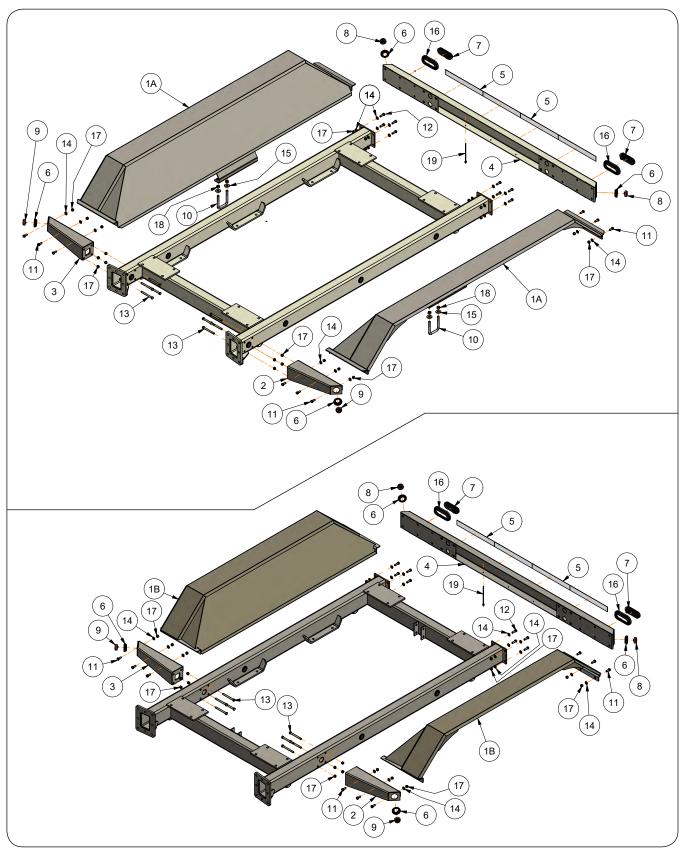
ITEM	PART NO.	DECODIPTION	Q ⁻	ГҮ	NOTES
ITEIVI	PARI NU.	DESCRIPTION	Tandem	Triple	NOTES
1	25788TS	Hitch 10' Weldment =Tan Speckle= Includes Decals	1	1	=Tan Speckle=
2	25003	Conspicuity Marking	8	8	11" Red/7" white
3	9500345	Decal, CAUTION (Unhitching of Trailer)	1	1	
4	9500710	Decal, CAUTION (Transport Chain)	1	1	
5	97961	Decal, WARNING (Read & Understand)	1	1	
6	98487	Grommet 1 3/4" Dia.	7	10	
7A	2010809TS	Triple Axle Undercarriage Weldment	-	1	=Tan Speckle=
7B	2011233TS	Tandem Axle Undercarriage Weldment	1	-	=Tan Speckle=
8	903108	Flat Washer 5/8"	32	32	Stainless Steel
9	9390-126	Capscrew 5/8"-11UNC x 2 1/2"	16	16	Grade 5
10	9801	Locknut 5/8"-11UNC	24	24	

Undercarriage Frame Components — For Serial Number D69140099 & Lower



ITEM	DART NO	DECODIDATION	Q	ГҮ	NOTEC
ITEM	PART NO.	DESCRIPTION	Tandem	Triple	NOTES
1	98487	Grommet 1 3/4" Dia.	7	10	
2	9801	Locknut 5/8"-11UNC	24	24	
3	24897TS	Triple Axle Undercarriage Weldment	-	1	=Tan Speckle=
4	2009899TS	Hitch 10' Assembly =Tan Speckle= Includes Hitch, Decals, Wiring Harness, Transport Chains	1	1	=Tan Speckle=
5	25003	Conspicuity Marking	8	8	11" Red/7" white
6	9500710	Decal, CAUTION (Transport Chain)	1	1	
7	97961	Decal, WARNING (Read & Understand)	1	1	
8	9390-125	Capscrew 5/8"-11UNC x 2 1/4	16	16	Grade 5
9	903108	Flat Washer 5/8"	32	32	Stainless Steel
10	24687TS	Tandem Axle Undercarriage Weldment	1	-	=Tan Speckle=
11	24931TS	Bracket Weldment	4	4	=Tan Speckle=
12	9390-124	Capscrew 5/8"-11UNC x 2	8	8	Grade 5
13	9500345	Decal, CAUTION (Unhitching of Trailer)	1	1	

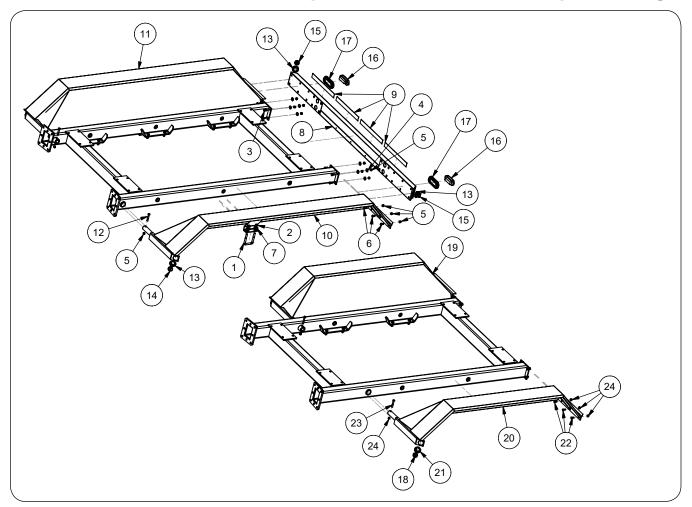
Undercarriage Fender Components — For Serial Number D69140100 & Up



Undercarriage Fender Components — For Serial Number D69140100 & Up

ITEM	PART NO.	DESCRIPTION	QTY	NOTES
1A	2010795TS	Fender Weldment For Triple Axle Undercarriage =Tan Speckle=	2	
1B	2011230TS	Fender Weldment For Tandem Axle Undercarriage =Tan Speckle=	2	
2	2010800TS	Fender Mount LH Weldment =Tan Speckle=	1	
3	2010803TS	Fender Mount RH Weldment =Tan Speckle=	1	
4	25790TS	Light Bar Weldment =Tan Speckle= w/Decals	1	
5	25003	Conspicuity Marking	4	11"Red/7"white
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	91070	U-bolt, 5/8"-11UNC x 5 (4.25C/C)	2	Grade 5
11	9390-100	Capscrew, 1/2"-13UNC x 1 1/4"	8	Grade 5
12	9390-101	Capscrew, 1/2"-13UNC x 1 1/2"	8	Grade 5
13	9390-113	Capscrew, 1/2"-13UNC x 1 1/2"	8	Grade 5
14	9405-086	Flat Washer, 1/2" SAE	8	
15	9405-100	Flat Washer, 5/8" USS	4	
16	97182	Grommet for Panel Light	2	
17	9800	Lock Nut/Top, 1/2"-13UNC	16	
18	9801	Lock Nut/Top, 5/8"-11UNC	38	
19	99599	Cable Tie - Fir Tree	3	

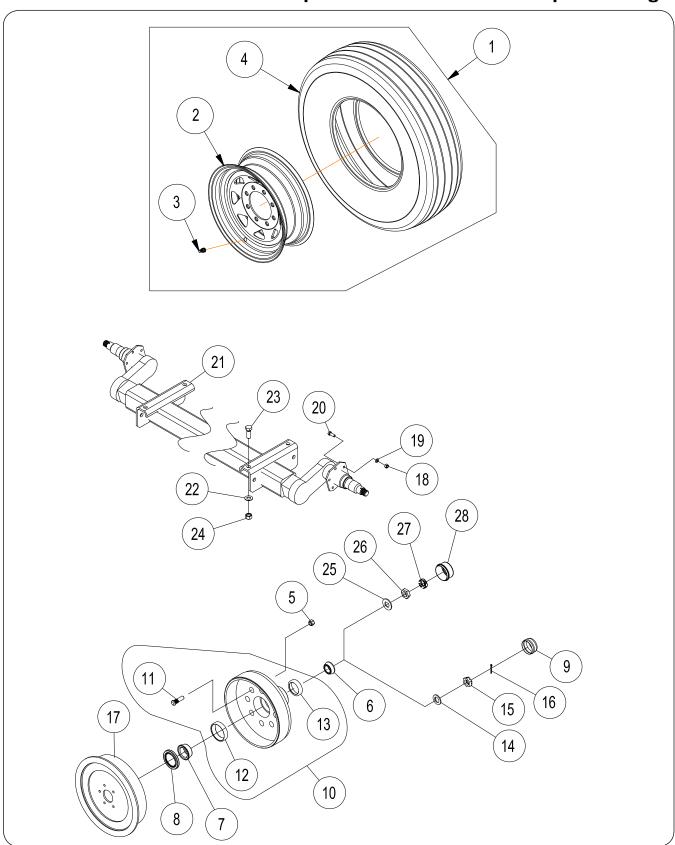
Undercarriage Fender Components — For Serial Number D69140099 & Lower



Undercarriage Fender Components — For Serial Number D69140099 & Lower

ITEM	PART NO.	DESCRIPTION	QTY	NOTES
1	91070	U-bolt 5/8"-11UNC x 5 (4.25C/C)	2	Grade 5
2	9801	Locknut 5/8"-11UNC	38	
3	9390-100	Capscrew 1/2"-13UNC x 1 1/4"	8	Grade 5
4	9405-088	Flat Washer 1/2" USS	8	
5	9800	Locknut 1/2"-13UNC	16	
6	9390-099	Capscrew 1/2"-13UNC x 1"	6	Grade 5
7	9405-100	Flat Washer 5/8" USS	4	
8	25790TS	Light Bar Weldment	1	=Tan Speckle=
9	25003	Conspicuity Marking	4	11"Red/7"white
10	24882TS	Fender LH Weldment - 3755/3755XL	1	=Tan Speckle=
11	24883TS	Fender RH Weldment - 3755/3755XL	1	=Tan Speckle=
12	9390-108	Capscrew 1/2"-13UNC x 3 1/4"	2	Grade 5
13	900956	Open - Back Grommet	4	
14	902219	Light/Amber LED (2 Prong)	2	
15	902218	Light/Red LED (2 Prong)	2	
16	902217	Light/Red LED (3 Prong)	2	
17	97182	Grommet for Panel Light	2	
18	902219	Light/Amber LED (2 Prong)	2	
19	24773TS	Fender RH Weldment - 2755/2755XL	1	=Tan Speckle=
20	24772TS	Fender LH Weldment - 2755/2755XL	1	=Tan Speckle=
21	900956	Grommet Open Back	4	
22	9390-099	Capscrew 1/2"-13UNC x 1"	6	Grade 5
23	9390-108	Capscrew 1/2"-13UNC x 3 1/4"	2	Grade 5
24	9800	Locknut 1/2"-13UNC	16	

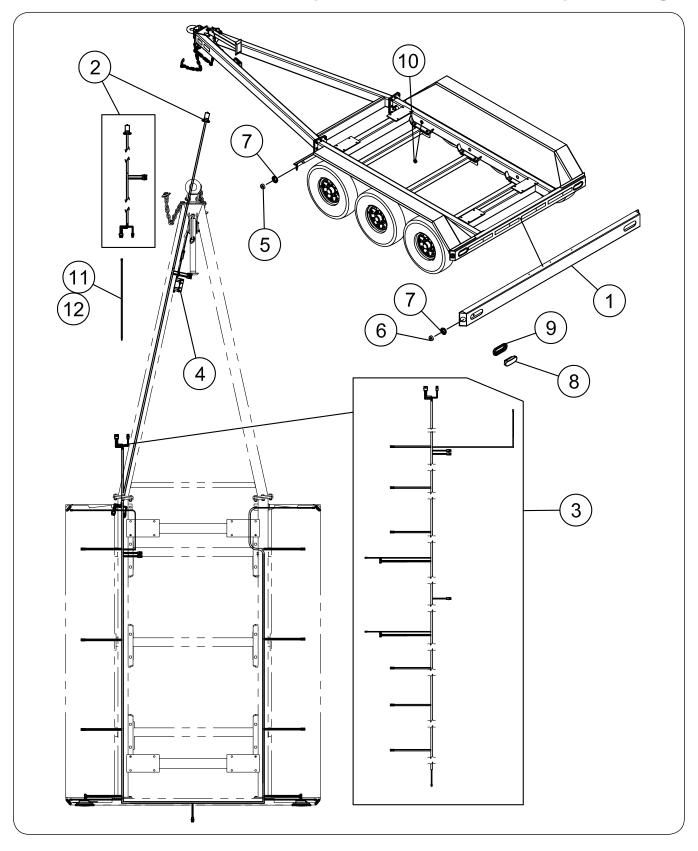
Axle & Wheel Components



Axle & Wheel Components

17514	DADT NO		QT	Υ	NOTEO
ITEM	PART NO.	DESCRIPTION	TANDEM	TRIPLE	NOTES
1	902702	Undercarriage Tire Wheel Assembly	4	6	6x16/ST235/85R16, E-Range
2	98859	Undercarriage Wheel (Only)	4	6	6Wx16D
3	9002500	Valve Stem	4	6	
4	N/A	Tire ST235/85R16 LRE (Radial)	4	6	
5	901669	Tapered Nut 9/16-18UNF	32	48	
6	91824	Outer Bearing Cone 1.25 I.D.	4	6	Ref. #14125A
7	91822	Inner Bearing Cone 1.75 I.D.	4	6	Ref. #25580
8	901509	Seal 3 3/8 0.D. x 2 1/8 I.D. Single Lip	4	6	
9	91887	Hub Cap	4	6	
10	901686	Hub 8 Bolt/Drum Subassembly	4	6	
11	9502240	Stud Bolt 9/16-18 UNF x 2.30	32	48	
12	91812	Bearing Cup 3.265 O.D.	4	6	
13	92687	Bearing Cup 2.717 O.D.	4	6	Ref. #14276
14	901586	Spindle Washer 1.67 O.D. x 1 I.D.	4	6	
15	97344	Spindle Slotted Jam Nut 1-14UNS	4	6	Grade 2
16	9391-035	Cotter Pin 5/32 Dia. x 1 1/2	4	6	
17	97349	Right-Hand Brake Cluster	2	3	
17	97348	Left-Hand Brake Cluster	2	3	
18	9394-006	Hex Nut 3/8-16UNC	16	18	Grade 5
19	9404-021	Lock Washer 3/8"	16	18	
20	9390-055	Capscrew 3/8-16UNC x 1	16	18	Grade 5
21	901099B	Torsion Axle Assembly 7000#	8	12	
22	903108	Flat Washer 5/8" USS	8	12	Grade 5
23	9390-123	Capscrew 5/8-11UNC x 1 3/4	8	12	
24	9801	Locknut 5/8-11UNC	4	6	6x16/ST235/85R16, E-Range
25	9503189	"D" Spindle Washer	4	6	
26	9503187	Jam Nut 15/16"-9UNC	4	6	
27	9503186	Nut Retainer	4	6	
28	91887	Hub Cap	4	6	

Undercarriage Electrical Components

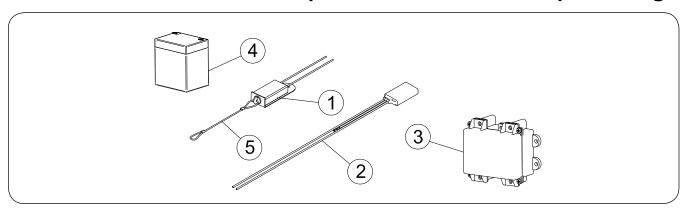


Undercarriage Electrical Components

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

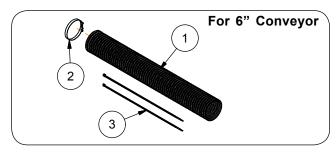
ITEM	PART NO.	DESCRIPTION	QTY	NOTES
4	25790TS	Light Bar Weldment w/Decals	1	For Service Only
'	25003	Conspicuity Marking 18"	4	
2	25045	Wiring Harness - 165" Front	1	Includes Trailer Connector
	900623	Trailer Connector/7 Way Male Body/Female Contacts	-	
3	25046	Wiring Harness - 352" Rear	1	
4	-	Electric 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

Electric Breakaway Components

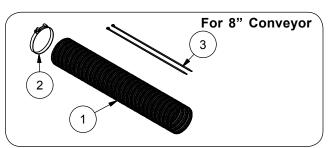


ITEM	PART NO.	DESCRIPTION	QTY	NOTES
1	900786	Breakaway Electric Switch w/Pull Pin	1	
2	N/A	Battery 12V Charger	1	
3	902179	Battery Box w/Decals	1	
4	900789	Battery 12V Rechargeable	1	5.0 AMP-HR
5	901950	Pull Cord Breakaway Switch	1	
6	902764	Battery with Charger & Box (NOT SHOWN)	1	Includes Items 2,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

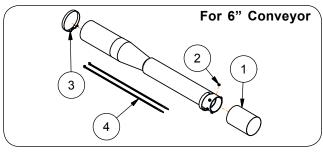
Telescopic Spout Components



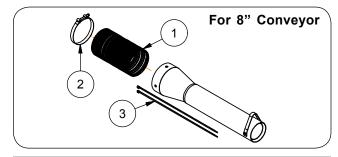
ITEM	PART	DESCRIPTION	
	2005066	Standard Spout Bundle 6" x 48"	-
1	TAAU14170	4' Flex Spout	1
2	98060	Clamp 6" Dia.	1
3	94038	Cable Tie 32" Long	2



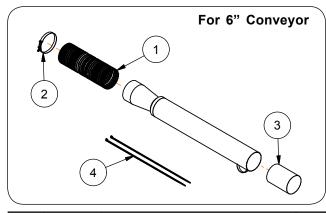
ITEM	PART	DESCRIPTION	QTY
	2005067	Standard Spout Bundle 8" x 48"	-
1	901544	4' Flex Spout	1
2	901485	Clamp 8" Dia.	1
3	94038	Cable Tie 32" Long	2



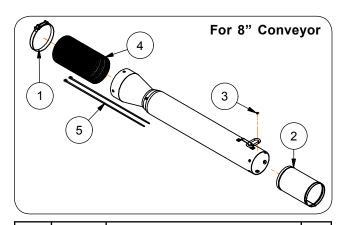
ITEM	PART	DESCRIPTION		
	27629	2-Stage Telescopic Spout (Option)		
1	22577	Canvas Sock	1	
2	9003378	Rivet 3/16"	6	
3	98060	Clamp 6" Dia.	1	
4	94038	Cable Tie 32" Long	2	



ITEM	PART	DESCRIPTION	QTY
	25532	2-Stage Telescopic Spout (Option)	-
1	25752	18"" Flex Spout	1
2	901485	Clamp 8" Dia.	1
3	94038	Cable Tie 32" Long	2



ITEM	PART	DESCRIPTION		
	22578	3-Stage Telescopic Spout (Option)	-	
1	21759	18" Flex Spout	1	
2	98060	Clamp 6" Dia.	1	
3	22577	Canvas Sock	1	
4	94038	Cable Tie 32" Long	2	

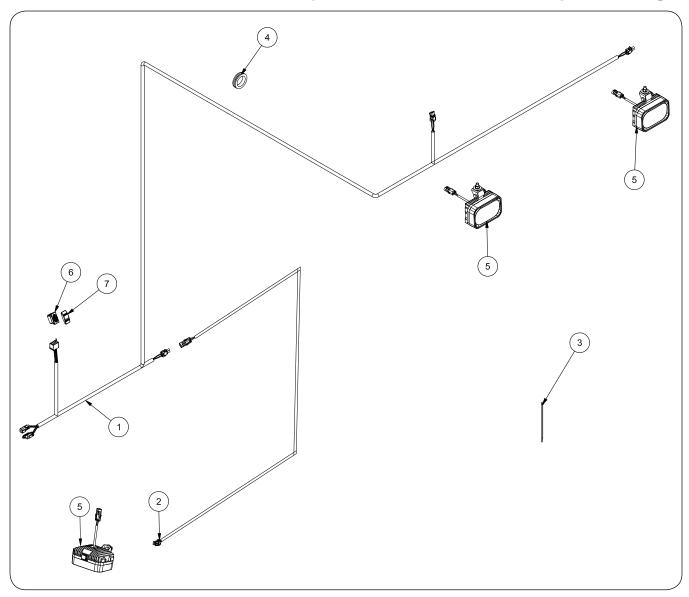


ITEM	PART	DESCRIPTION	
	29782	3-Stage Telescopic Spout (Option)	-
1	901485	Clamp 8" Dia.	1
2	9500173	Vinyl Sock	1
3	9500175	Pop Rivet	2
4	25752	18" Flex Spout	1
5	94038	Cable Tie 32" Long	2

Hopper Cover #9501361

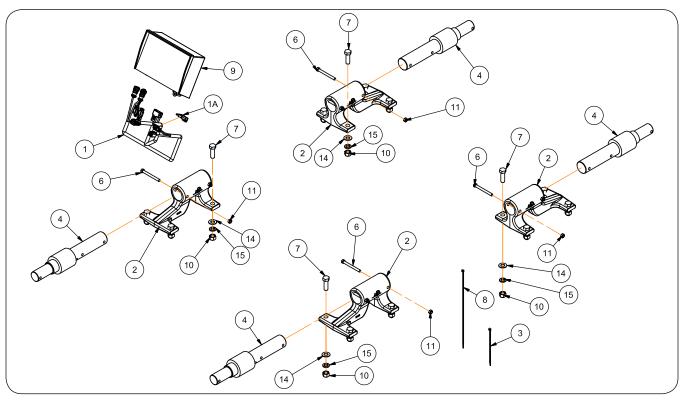


LED Work Light Kit #2004450 (Option)



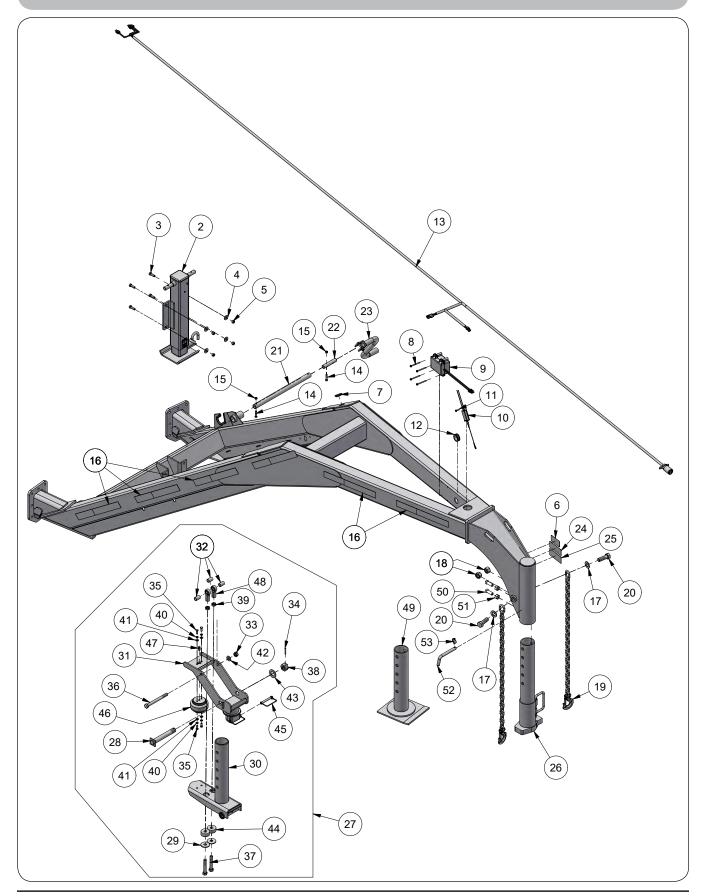
ITEM	PART NO.	DESCRIPTION	QTY	NOTES
	2004450	Light Kit (Option)	1	
1	2002125	Work Light Harness	1	
2	2002489	Wire Harness, 2-Way 420' Long	1	
3	9000106	Cable Tie, 6" Long	20	
4	900513	Grommet 2" Dia. Groove	1	
5	301213	Work Light Replacement	3	
6	9500977	Switch	1	
7	9500978	Switch Actuator	1	

UM2520 Scale Components (Option)



ITEM	PART NO.	DESCRIPTION	QTY	NOTES
	2003617TS	Scale Package Complete with Indicator	-	Includes Items 1 through 12
1	2002132	Common Scale Wire Harness	1	
1A	9504482	Transient Supression Diode Plug	1	MUST Be Plugged Into Auxiliary Power
2	29477TS	Scale Bracket Weldment	4	=Tan Speckle=
3	9000106	Cable Tie 6" Long	14	
	901173	Load Bar, 2 1/8" Dia. x 15 5/8" w/ 21' Cable Quick Connect	4	
4	902063	Load Bar, 2 1/2" Dia. x 15 5/8" w/ 21' Cable with Connector (Must use Adapter Cable)		For Serial #D71830100 to D71830154
	9006863	Adapter Cable		May Use Load Bar & Adapter Cable.
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
14	9003630	Memory Module Downloader Kit	1	(Option)
Α	9004150	Downloader Module	1	
В	9004149	Cable 5'	1	
С	9004152	Interface Cable 1'	1	
D	9004151	Software	1	

Gooseneck Hitch Components (Option)



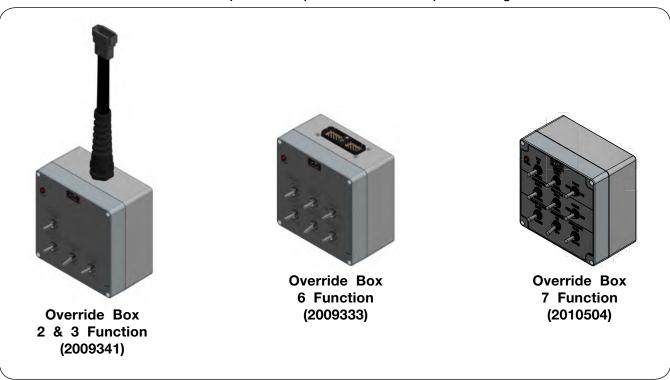
Gooseneck Hitch Components (Option)

ITEM	PART NO.	DESCRIPTION	QTY	NOTES
	2010230TS	Gooseneck Hitch Assembly with Standard Coupler		Includes Items 2-25
	2010231TS	Gooseneck Hitch Assembly with Cushioned Coupler	_	iliciddes items 2-25
2	107905B	Jack Weldment	1	
3	9390-101	Capscrew 1/2"-13UNC x 1 1/2"	4	Grade 5
4	9405-088	Flat Washer 1/2"	4	
5	9800	Locknut 1/2"-13UNC	4	
6	97961	Decal, WARNING (Read and Understand)	1	
7	97422	Plug/Rubber	1	
8	902238	Flange Bolt 1/4"-20UNC x 3"	4	
9		Break Away Switch & Battery w/Charger & Box	1	Refer to "Electric Breakaway Components" in PARTS Section
11	9512	Screw/Self-Drilling 1/4-14 x 1"	1	
12	98487	Grommet/Rubber	1	
13	27829	Wiring Harness Front	1	
14	9390-058	Capscrew 3/8"-16UNC x 1 3/4"	2	Grade 5
15	9928	Locknut 3/8"-16UNC	3	
16	25003	Conspicuity Marking / Reflectors	12	
17	9405-116	Flat Washer 1"	4	
18	9663	Locknut 1"-8UNC	2	
19	98792	Chain w/Hook & C-Link Assembly	2	
20	91299-187	Capscrew 1"-8UNC x 3"	2	Grade 8
21	2001095B	Extension Tube	1	
22	2001097B	Bar 1" Dia. x 5"	1	
23	9500583	Jack Handle	1	
24	9500953	Decal, CAUTION (Always Use Transport Chain)	1	
25	9500952	Decal, CAUTION (Unhitching of Trailer can cause)	1	
26	2003304B	Gooseneck Hitch - Drilled	-	
27	2009544B	Cushion Gooseneck Hitch Assembly (Option)	-	Includes Items 28-48
28	2009330	Pin Weldment 1 1/4" Dia. x 8 1/2"	1	
29	2009331	Washer 2.5" Dia.	2	
30	2009615B	Receiver Weldment	1	
31	2009641B	Coupler Weldment	1	
32	2009812	Tube/Spacer 1" OD x .782" ID x 1 1/2	3	
33	9008442	Lock Nut/Center, 3/4"-10UNC	1	
34	91144-165	Spiral Pin 1/4" Dia. x 1 7/8"	1	
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 set up instructions and parts listing.



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 set up instructions and parts listing.



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 set up instructions and parts listing.



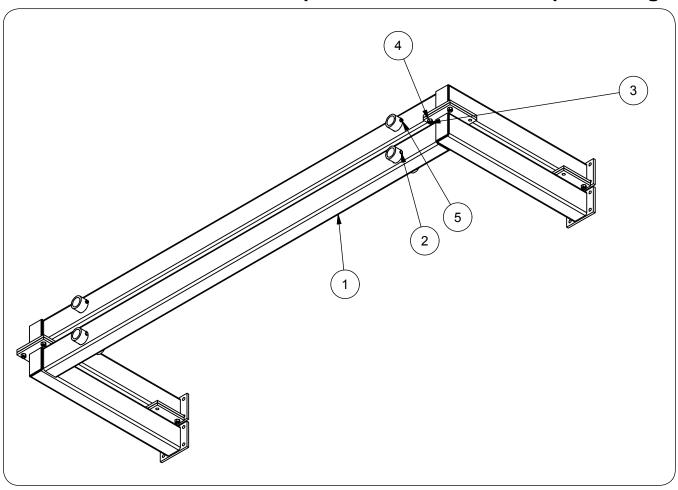
7-Function Wireless Remote Control Pkg #2010449TS (Option)

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

See manual #2010521 for complete set up instructions and parts listing.

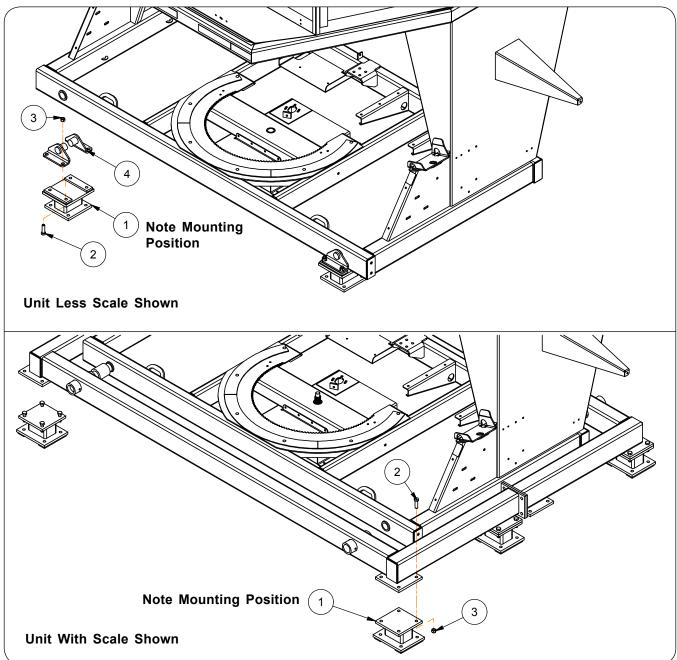


Scale Platform for Units Less Undercarriage (Option)



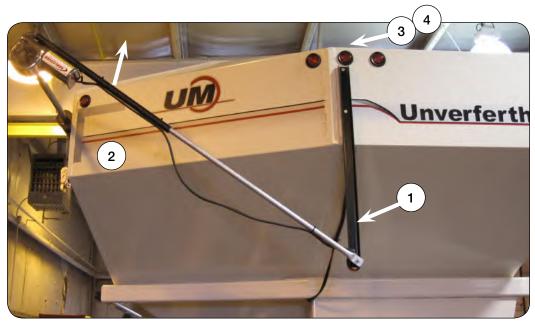
ITEM	PART NO.	DESCRIPTION	QTY	NOTES
	25898TS	Scale Platform for Units Less Undercarriage	-	Includes Items 1-5
1	25746TS	Scale Base	2	
2	9390-065	Capscrew 3/8"-16UNC x 3 1/2	8	
3	9390-124	Capscrew 5/8"-11UNC x 2	8	
4	9801	Locknut 5/8"-11UNC	8	
5	9928	Locknut 3/8"-16UNC	8	

Riser Pads (Bundle #2000945TS) (Option)



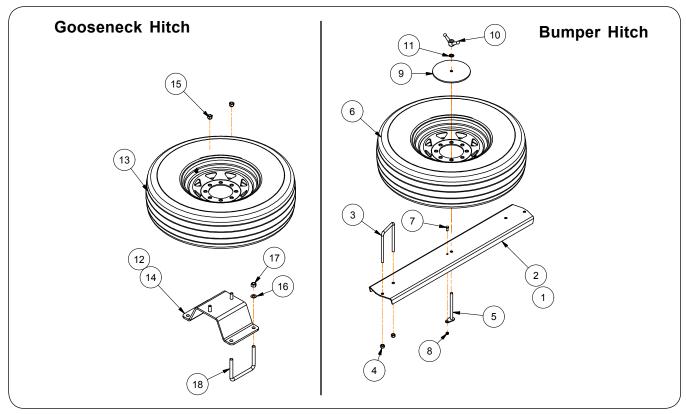
ITEM	PART NO.	DESCRIPTION	QTY	NOTES
	2000945TS	Riser Pads (Option)	1	Includes Items 1 through 4
1	2000350TS	Support Stand with Hardware	6	Includes Items 2 & 3
2	9390-125	Capscrew 5/8"-11UNC x 2 1/4	24	Grade 5
3	9801	Locknut 5/8"-11UNC	24	
4	24931TS	Bracket Weldment	8	

Electric Tarp Kit (#27706) (Option)



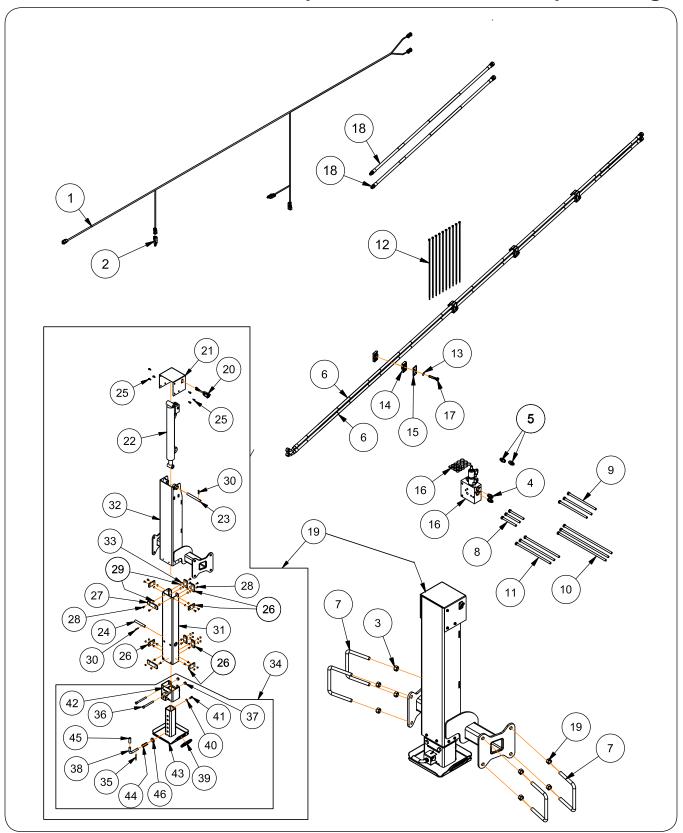
ITEM	PART NO.	DESCRIPTION	QTY	NOTES
	27706	Electric Tarp Kit	-	
1	251132B	Bracket 12GA x 3 1/2 x 35 3/4	1	
2	9004162	Electric Motor Kit	1	
3	9390-055	Capscrew 3/8"-16UNC x 1"	2	Grade 5
4	9928	Locknut 3/8"-16UNC	2	

Spare Tires (Option)



ITEM	PART NO.	DESCRIPTION	QTY	NOTES
_	2000939TS	Spare Tire - For Bumper Hitch - 235/85x16	4	Includes Items 2 through 11
1	2009551TS	Spare Tire - For Bumper Hitch - 235/85x16 Aluminum Wheel	1	
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	902702	Wheel/Tire 6x16 / ST235/85R16	1	Load Range E
	9502990	Wheel/Tire 6x16 / ST235/85R16 LRE Aluminum Wheel	'	
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	2000940TS	Spare Tire - For Gooseneck Hitch - 235/85x16	1	Includes Itams 12 through 19
12	2009552B	Spare Tire - For Gooseneck Hitch - 235/85x16 Aluminum Wheel		Includes Items 13 through 18
13	902702	Wheel/Tire 6x16 ST235/85R16	1	Load Range E
13	9502990	Wheel/Tire 6x16 / ST235/85R16 LRE Aluminum Wheel	'	
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	

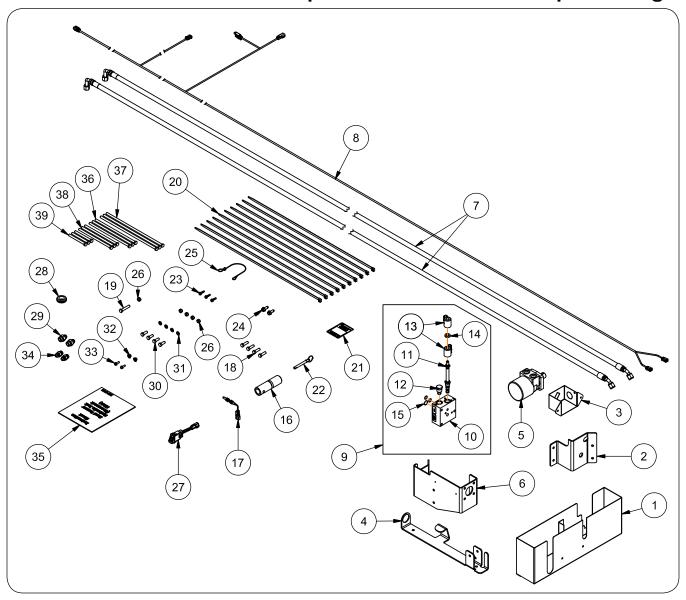
Hydraulic Jack for Bumper Hitch Kit #2012347TS (Option)



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

ITE	М	PART NO.	DESCRIPTION	QTY
1		2002811	Wire Harness 370"	1
2	一门	2005833	Loop Connector	1
3		9801	Locknut, 5/8"-11UNC	
4		900016	Adapter, 9/16"-18 JIC Male x 9/16"-18 O-Ring Male with 0.060 Restrictor	
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	1	9390-9500625	Capscrew, 3/8"-16UNC x 10" G5	3
12	2	94037	Cable Tie, .35 x 15 1/2"	10
13	_	9404-019	Lock Washer, 5/16"	4
14	1	9500058	Clamp Set	4
15	5	9500059	Cover Plate	4
16	Ţ	9501021	Valve Assembly	1
10		9500600	Seal Kit for Stackable Valves	-
17	_	9504377	Self-Drill Screw, 5/16-18 x 2"	4
18	3	9504904	Hydraulic Hose 1/4" x 60" 9/16"-18 JIC Female x 9/16"-18 JIC Male	2
_19)	2011761TS	Hydraulic Jack Assembly	1
2	20	9006061	Rocker Switch	1
	21	2005103TS	Shield Weldment	1
_	22	9501537	Hydraulic Cylinder, 2 1/2" x 20"	1
	23	2005104	Pin, 3/4" Dia. x 6 3/4"	1
_	24	2005105	Pin, 3/4" Dia. x 5 1/8"	1
_	25	97420	Flange Screw, 1/4"-20UNC x 3/4" G5	6
_	26	2005110	Wear Pad, 3/8" x 1 1/2" x 3"	8
_	27	2005111	Wear Pad, 3/8" x 1 1/2" x 5"	2
_	28	9501540	Flat Head Hex Socket Capscrew, 1/4"-20UNC x 3/4"	20
_	29	9936	Locknut/Top, 1 1/4"-20UNC	20
	30	9392-155	Roll Pin, 5/16" Dia. x 1 1/2"	2
	31	2011765TS	Inner Jack Weldment	1
	32	2011763TS	Outer Jack Weldment	1
	33	9405-062	Flat Washer, 1/4" SAE	8
	34	2011750TS	Hydraulic Jack Extension Leg Assembly	1
	35	9392-107	Roll Pin, 3/16" Dia. x 2 1/2"	1
	36	9390-113	Capscrew, 1/2"-13UNC x 5" G5	2
	37	9800	Locknut/Top, 1/2"-13UNC	2
	38	2011768	Pin, 5/8" Dia. x 6 1/2"	
	39	2011770	U-Channel/Black Trim	
	40	9394-006	Hex Nut, 3/8"-16UNC	1
	41	9390-055	Capscrew, 3/8"-16UNC x 1" G5	1
	42	2011747TS	Hydraulic Jack Sleeve Weldment	1
	43	2011749TS	Jack Extension Weldment	1
	44	9504732	Compression Spring	1
	45	9504752	Hand Grip	1
Ш	46	9405-100	Flat Washer, 5/8" USS	1

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

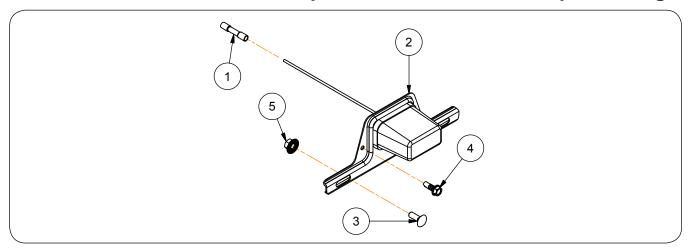


Hydraulic Jack for Gooseneck Hitch Kit #2004087B (Option)

ITI	EM	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	2001187B	Jack Handle Bracket Weldment =Black=	1	
		9500273	Motor/Hyd 4.0 CU IN, 9 GPM, 1800 PSI	1	
,	5	91687	Motor Seal Kit	-	
(3	2000191B	Jack Mount Weldment =Black=	1	
-	7	2000196	Hose 1/2" Dia. x 207" (90° 3/4-16 JIC Female x 45° 3/4-16 JIC Female)	2	3000 PSI
8	3	2002811	Wire Harness 370"	1	
Ç	9	9501021	Hydraulic Jack Valve Assembly (Stackable)	1	
	10	9500659	Valve Body (Stackable)	1	
	11	902842	Cartridge 3 Position, 4 Way	1	
	11	902849	Seal Kit For Cartridge Valve	-	
	10	903136	Hex Head Plug SAE-10, 7/8-14UNF	1	
	12	903166	Hex Head Plug Seal Kit	-	
	13	902811	Coil-Electromagnetic	2	Grade 8
	14	902812	Coil Spacer	1	
	15	9500600	Seal Kit for Stackable Valves	1	
1	6	2000207	Coupler Weldment	1	
1	7	2000190	Magnetic Switch Assembly	1	
1	8	9390-056	Capscrew, 3/8"-16UNC x 1 1/4" G5	4	Grade 5
1	9	9390-059	Capscrew, 3/8"-16UNC x 2" G5	1	Grade 5
2	0	94038	Cable Tie, .35 x 32"	10	
2	1	9500279	Decal, DANGER (Jack Handle)	1	
2	2	9500603	Clevis Pin, 3/8" Dia. x 2.5"	1	
2	3	9512	Screw/Self Drill, 1/4"-14 x 1"	3	
2	4	96972	Screw/Self Tapping, 3/8"-16UNC x 1"	2	
2	5	97879	Nylon Lanyard 10"	1	
2	6	9928	Locknut, 3/8"-16UNC	5	
2	7	9006061	Rocker Switch	1	
2	8	901675	Grommet/Rubber, 1 3/4" OD x 1" ID	1	
2	9	93607	Adapter, 3/4-16 JIC Male x 7/8-14 O-Ring Male	2	
3	0	9390-055	Capscrew, 3/8"-16UNC x 1" G5	4	Grade 5
3	1	9404-021	Lock Washer, 3/8"	4	
3	2	97189	Hex Nut/Large Flange, 1/4"-20UNC	2	Grade 5
3	3	97420	Flange Screw, 1/4"-20UNC x 3/4" G5	2	Grade 5
3	4	95475	Adapter, 3/4-16 JIC Male x 9/16-18 O-Ring Male	2	
3	5	2004726	Instruction Sheet	1	
3	6	9390-9500625	Capscrew, 3/8"-16UNC x 10" G5	3	Grade 5
3	7	9390-752	Capscrew, 3/8"-16UNC x 14" G5	3	Grade 5
3	8	9390-075	Capscrew, 3/8"-16UNC x 8" G5	3	Grade 5
3	9	9390-067	Capscrew, 3/8"-16UNC x 4" G5	3	Grade 5

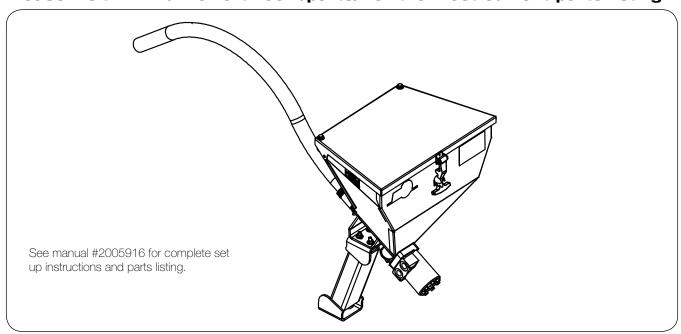
License Plate/Lamp Holder Assembly Kit #25481 (Option)

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

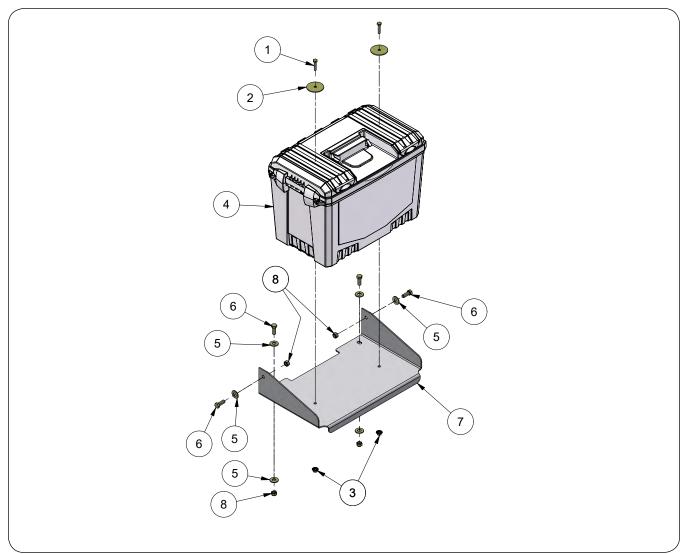


ITEM	PART NO.	DESCRIPTION	QTY	NOTES
1	900368	Sealed Splice Connector	1	
2	93769	License Plate/Lamp Holder	1	
3	9388-002	Carriage Bolt 1/4"-20UNC x 3/4	2	
4	9473	Screw/Self 1/4-14 X 3/4	2	
5	97189	Hex Nut/Large Flange 1/4"-20UNC	2	

T&G Applicator Kit #2004448IV (Optional)

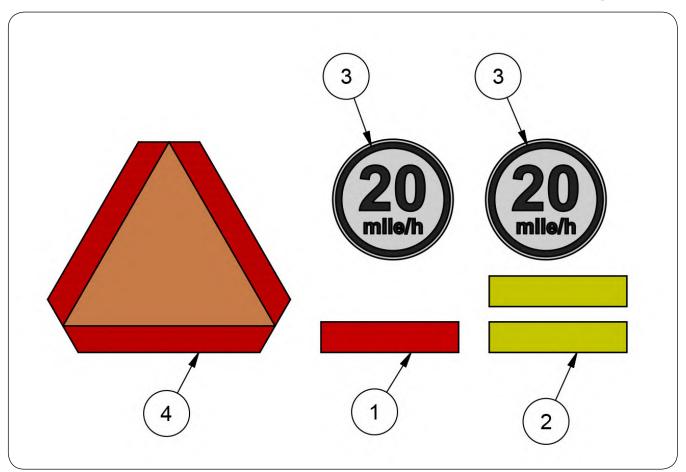


Toolbox Components



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	

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



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	

Notes



