



Grain Handling

GRAIN WAGONS MODEL 530

Serial Number B32830100 & Higher

Part No. 301101

530 GRAIN WAGON — Introduction

Foreword



This symbol identifies important safety messages. When you see it, read the message that follows and be alert to the **A** 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.



530 GRAIN WAGON — Introduction

Product Information

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

- Machine name
- Model number
- 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.

Purchase Date	_ Model	Serial No.
Dealer	City	
Dealer Contact	PI	none

IMPORTANT

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

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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.

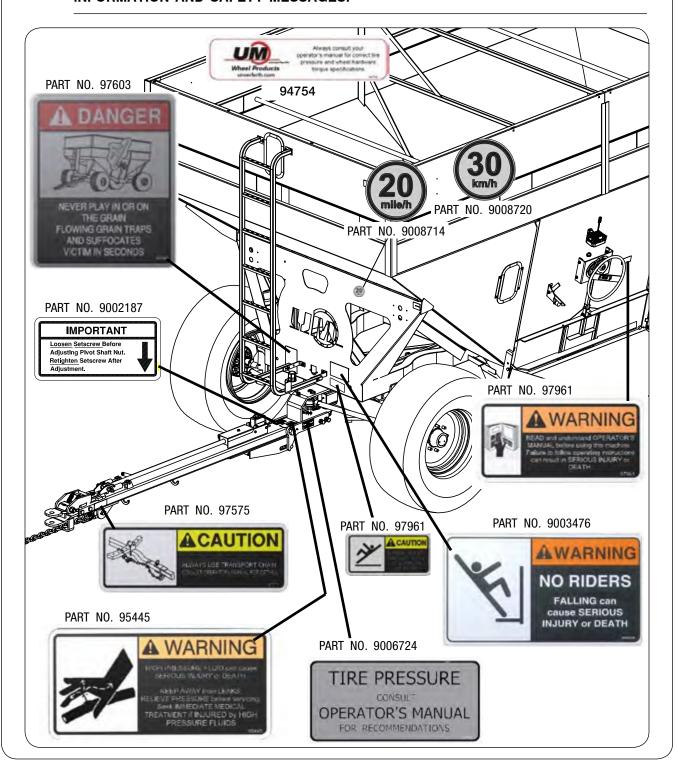
IMPORTANT

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

Safety Decals

A WARNING

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



Following Safety Instructions

 Read and understand this operator's manual and the towing vehicle operator's manual.



- 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 the towing vehicle engine off and remove key before servicing the implement.



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



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

Before Servicing

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



- Ensure that all applicable safety decals are installed and legible.
- To prevent personal injury or death, always ensure that there are people who remain outside the wagon 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.
- Explosive separation of a tire and rim can cause serious injury or death. Only properly trained personnel should attempt to service a tire and wheel assembly.

Before Operating

Do not stand between towing vehicle and implement during hitching.



- Always make certain everyone and everything is clear of the machine before beginning operation.
- Verify that all safety shields are in place and properly secured.



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

During Operation

- Regulate speed to field conditions. Maintain complete control at all times.
- Never lubricate equipment when in operation.
- Use extreme care when operating close to ditches, fences, or on hillsides.
- Do not leave towing vehicle unattended with engine running.

530 GRAIN WAGON — Safety

Before Transporting

- Secure transport chain to towing vehicle before transporting. DO NOT transport without chain.
- Ensure that the towing vehicle has adequate weight and braking capacity to tow this
 unit.
- Check for proper function of all available transport lights. Make sure that all reflectors are clean and in place on machine. Make sure the SMV emblem is 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.
- Use good judgment when transporting equipment on highways. 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.
- 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 pressure before disconnecting hydraulic lines from tractor, loosening any hydraulic fittings or servicing hydraulic system. See hydraulic power unit manual for procedure to relieve pressure.
- High-pressure fluids can penetrate the skin and cause serious injury or death. Use cardboard or wood to detect leaks in the hydraulic system. Seek medical treatment immediately if injured by high-pressure fluids.



- 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.



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530 GRAIN WAGON — Set Up

Pre-Delivery Checklist

After the wagon has been completely assembled, use the following checklist and inspect the wagon. Check off each item as it is found satisfactory or after proper adjustment is made.		
☐ Torque wheel nuts and check tire pressure as specified in MAINTENANCE section.		
☐ Tires are inflated to specified air pressure, located in the Maintenance section.		
☐ Check to be sure all safety decals are correctly located and legible. Replace if damaged.		
☐ Check to be sure all reflective decals are correctly located.		
☐ Check to be sure SMV emblem and SIS decals are in place and shipping cover removed.		
☐ Check to be sure transport lights are working properly.		
☐ Transport chains are properly installed and hardware is torqued to specification. See "Transport		
Chain" in SET UP section.		
☐ Paint all parts scratched in shipment.		

SMV Emblem & SIS Decals

Before the wagon is used the reflective surface of the SMV must face rearward. This may require removal of film protecting the reflective surface or removing and reinstallation of the SMV. When reinstalling the SMV make sure that it is mounted with the wide part of the SMV at the bottom.





The SIS decals (one on the front and one on the rear of the wagon) may require removal of film protecting the decals.



Important Check Points

Tires and Wheels

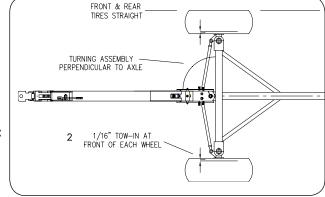
1. Check tire pressures and maintain at recommended values listed in this manual.

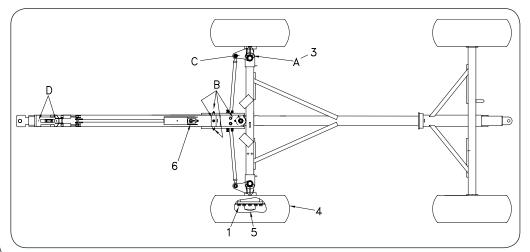
A CAUTION

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

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

- Check toe-in. Improper toe will cause excessive tire wear. Toe should be set at 1/16" per side. To adjust toe, set turning assembly perpendicular to front axle. Then use straight edge or sight front tire straight with rear tire. Once straight, turn 1/16". Tighten locknuts.
- 3. Grease all lube points daily during busy season:
 - A. 2 on each front spindle pivot
 - B. 4 on turning assembly pivot
 - C. 1 on each tie rod end
 - D. 2 on tongue on telescope latch plate.





TIRES

For questions regarding new tire warranty, please contact your local original equipment tire dealer. Used tires carry no warranty.

See "Tire Warranty"

Section.

Important Check Points (continued)

4. Wheel hubs (check grease after first season of use.)

<u>NOTE</u>: The bearings are pressure packed with grease. An empty hub cavity does <u>not</u> indicate a lack of grease. It is not beneficial to fill the cavity.

- 5. Maintain brake fluid level in master cylinder. Lubricate push pipe and guides to ensure free movement. Adjust brake shoes as necessary: Rotate wheel for forward movement only. Tighten adjusting cog nut until you cannot rotate wheel by hand, then back off the adjustment until 3 4 threads are showing. And then additional threads may be necessary. See "Brake System" for detailed instructions.
- 6. When hauling corrosive materials such as fertilizers, it is advisable after use to wash out all excess materials to prevent premature rusting.

IMPORTANT

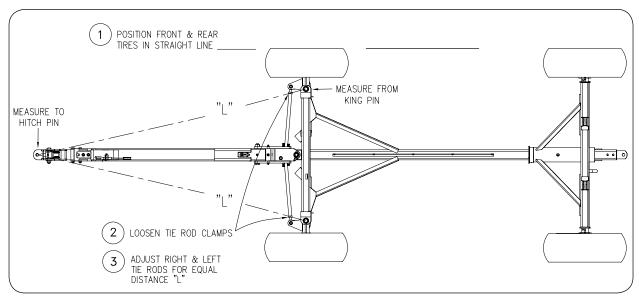
• It is extremely important that the spindles are <u>never</u> welded to by the customer. Special manufacturing processes are utilized at the factory, and spindle weldments should always be replaced if repairs are necessary.

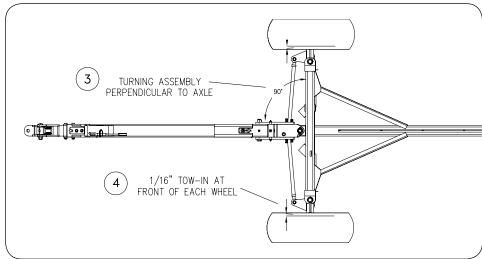
Important Check Points (continued)

Tongue and Wheel Alignment

Please refer to the following information for specific tongue/wheel alignment. If the tongue does not pull perpendicular to the front axle, the grain wagon can "dog-track".

- 1. Use a straight edge or string to set front tires straight with rear tires.
- 2. Loosen right and left tie rod clamps.
- 3. Adjust distances "L" from the hitch pin to the right and left king pins equal on each side until tongue is perpendicular to front axle.
- 4. Again check that front and rear wheels are in a straight line. Set 1/16" Toe-In at front of each wheel. Tighten tie rod clamps.
- 5. Check tracking of wagon.



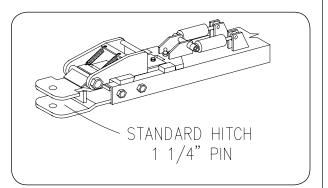


Hitch

The standard hitch pin size for your grain wagon is 1 1/4".

IMPORTANT

 Failure to use the correct size hitch pin can cause premature failure of hitch clevis and tractor drawbar.



Transport Chain



CAUTION

- ALWAYS USE TRANSPORT CHAIN WHEN TRANSPORTING IMPLEMENTS. FAILURE TO USE CHAIN COULD CAUSE PERSONAL INJURY OR DAMAGE IF IMPLEMENTS BECOME DISENGAGED.
- REPLACE TRANSPORT CHAIN IF ANY LINK OR END FITTING IS BROKEN, STRETCHED, OR DAMAGED. DO NOT WELD TRANSPORT CHAIN.

Current model grain wagons feature a transport chain as standard equipment. This transport chain is sized for towing of one Model 530 grain wagon, fully loaded.

When multiple grain wagons are towed, the transport chain on the lead wagon must be sized accordingly.

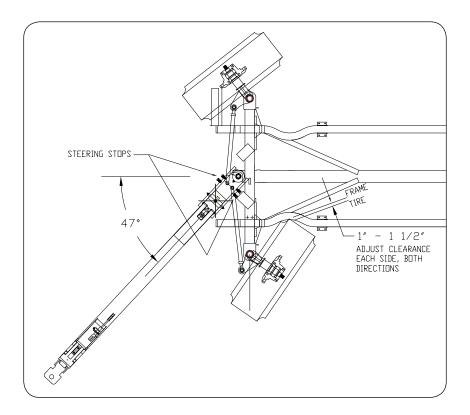


Transport Chain Part No.	Model	Max. Weight of Towed Unit(s) (lbs.)
95055	530	40,500
9003269	Option	60,500

Steering

Axle Stop Adjustment

Turn wheels both directions on level ground and adjust axle stop bolts for 1 - 1 1/2" clear-ance between inside tire edge and nearest frame.



Brake System

A WARNING

- HIGH-PRESSURE FLUIDS CAN PENETRATE THE SKIN AND CAUSE SERIOUS INJURY OR DEATH. 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.

Sliding Hitch and Latch

The braking system on your running gear is designed to release automatically when you back up. Before adjusting individual brake shoes, inspect the master cylinder push plate for proper contact when the sliding hitch and latch mechanism is pulled forward.

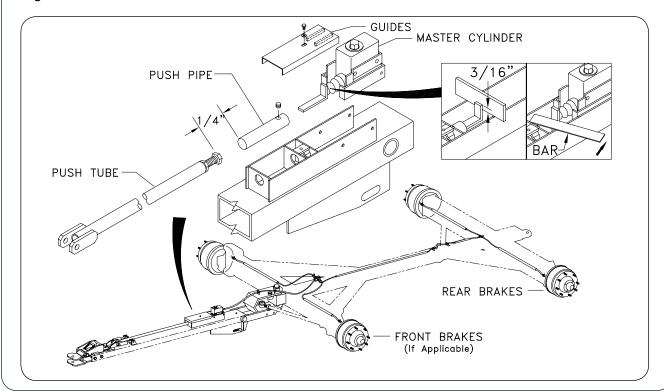
NOTE: A maximum 1/4" gap is necessary to prevent possible "dragging" of brakes. Press lightly on plunger to eliminate play and set gap as close to 3/16" as possible for optimum performance.

Check the push tube for alignment and free movement in the tongue.

Master Cylinder

Brake fluid level may be checked by removing cap on master cylinder. Verify brake fluid level is to the neck of the cap. If not, refill level with a heavy-duty brake fluid that meets DOT-3. Do not clean any brake components in gasoline, kerosene, or oil.

NOTE: The cap o-ring should be lubricated with brake fluid prior to hand tightening. Hand tighten ONLY!



Brake System (continued)

Brake Bleeding

Use ONLY quality DOT-3 heavy-duty brake fluid.

If pressure bleeding equipment is available, follow the manufacturer's instructions in bleeding the system.

Manual Bleeding

Fill master cylinder with fluid. Bleed rear brakes first (farthest from master cylinder). Loosen the bleeder screw located in wheel cylinder one turn. The system is now open to the atmosphere through a passage drilled in the screw. Securely install bleeder hose to bleed screw on first wheel cylinder to be bled.

Submerge the loose end of bleeder hose in a glass container filled approximately 1/3 full with brake fluid to observe expelled air bubbles while stroking master cylinder.

NOTE: The bleed hose must have a snug connection at bleed screw and remain submerged in brake fluid to avoid re-entry of air into the system.

Position a flat tool bar between master cylinder "L" bracket and housing (see illustration on previous page) and pump master cylinder with long steady strokes. Continue to stroke master cylinder until bubbles stop rising to surface of fluid in glass jar. Remove hose and re-tighten bleeder screw.

Repeat bleeding operation at each wheel cylinder. During the bleeding process, replenish the brake fluid, so the level does not fall below the 1/2 full level in the master cylinder reservoir. After bleeding is completed, make sure master cylinder reservoir is filled and filler cap is securely in place.

NOTE: The cap o-ring should be lubricated with brake fluid prior to hand tightening. Hand tighten ONLY!

IMPORTANT

• Saltwater, granular fertilizers and other corrosive materials are destructive to metal. To prolong the life of a braking system used under corrosive conditions, flush the actuator periodically with a high pressure water hose. Be sure to re-grease bearings and oil all moving parts after the unit has dried. At the end of the season, when unit is to be stored, remove the brake drums and clean inside the brakes. Pack wheel bearings before drum is installed. CAUTION: Do not pack hub full of grease. Excessive grease may leak into brake drums causing brake failure.

Electrical Hook-Up

This Grain Wagon is supplied with a seven-point SAE connector plug which will connect with the receptacle found on most newer tractors. If your tractor does not have this type of receptacle, an SAE J-560 seven-point socket can be purchased from your Unverferth dealer (order Part #92824).

The wiring schematic for this wagon complies with ASABE Standards. Always verify correct electrical function before using this wagon.

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.

Wires:

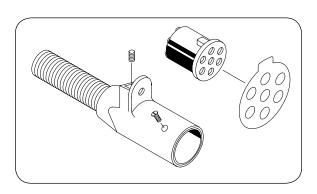
White = Ground

Green = Right amber flashing lamp

Yellow = Left amber flashing lamp

Brown = Tail light

Blue = Chute Light



IMPORTANT

• Connect harness to tractor with sufficient slack and lock harness under small loop in spring. To retract harness, stow connector under large loop in spring.

NOTE: Refer to the MAINTENANCE section for wiring schematics.

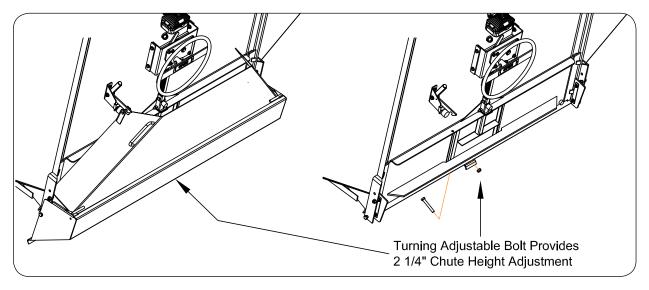
NOTE: Wiring specifications may be different for older tractor models. Consult your tractor operator's manual or dealer for proper wiring and installation.

Wiring Harness with Brake Light Functionality

This product may be equipped with brake light functionality which will activate the high intensity mode of the red tail lights when braking. The "RED" terminal of your tractor's electrical socket may or may not energize when the brakes are applied. Check your tractor's owner's manual. If your tractor does not energize the "RED" terminal when the brakes are applied, contact your dealer.

Adjustable Chute

Your grain wagon features an adjustable-height unloading chute. The adjustment bolt is located under the door area of the grain wagon. When the bolt is turned in (clockwise), the unloading height of the chute increases. When the bolt is turned out (counter-clockwise), the chute height is lowered.



Adjustable Transport Latch

Adjust the rubber bumper so there is adequate pressure on the latch to properly retain chute during transport.





A WARNING

- EYE PROTECTION AND OTHER APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT MUST BE WORN WHILE SERVICING IMPLEMENT.
- KEEP HANDS CLEAR OF PINCH POINT AREAS

NOTE: All capscrews and nuts which tighten directly against the plastic fenders must have a flat washer to provide adequate surface bearing.

Do not tighten fasteners during assembly. After all fenders are attached, visually align fenders with tires and tighten all fasteners.

Rear Fenders

1. Bolt rear top and bottom arms to frame with capscrews and flange nuts.

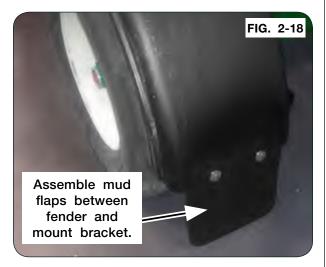




Rear Fenders

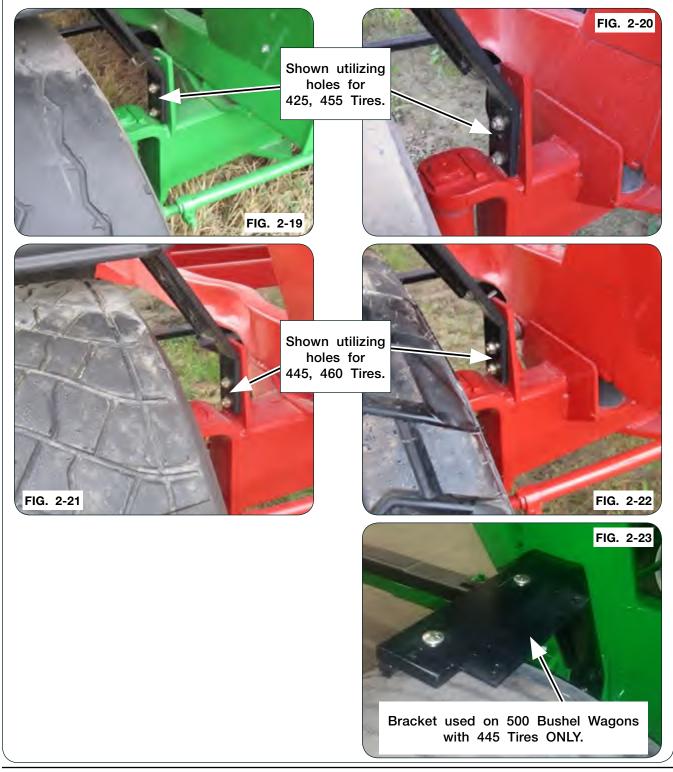
- 2. Position rear fenders over top arms and secure with capscrews, fender washers and lock nuts.
- 3. Assemble mud flaps and bottom arms (RH & LH) to rear fenders as shown with capscrews, fender washers, and lock nuts. Make sure fender is straight and tighten hardware.





Front Fenders

- 4. Bolt front top arms to frame with capscrews and flange nuts.
- 5. Use the fender mount plate (300672B) for mounting the front fender to the top arms on the standard tire fender kit.



Front Fenders

6. Mount tube to frame brackets with flange bolts and flange nuts. Refer to previous page for bolt and bracket locations.



Assemble tube to rear of bracket as shown. Center from side to side.

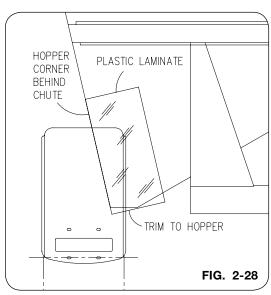
 Position front fenders over top arms and secure with capscrews, fender washers and lock nuts. Once fenders are completely assembled and clear tires, then tube and brackets must be tight and square with equally tightened threads on U-bolts.



- 8. Bolt front fenders to tube with 3/8" x 2 1/2" capscrews, fender washers and lock nuts in top holes.
- 9. Assemble mud flaps and back plates to front fenders with 3/8" x 1" capscrews, fender washers and lock nuts in bottom holes.



10. Visually align fenders from front or rear and tighten all fasteners. Align edge of 12" x 26" plastic laminate with rear edge of hopper (behind chute) and apply. Trim laminate as required for hopper profile.

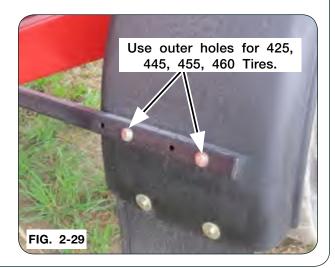


530 GRAIN WAGON — Set Up

Fender Installation - Optional

Fenders for 425, 445, 455, 460 Tires Sizes

Use these hole locations when using Tire Sizes specified.



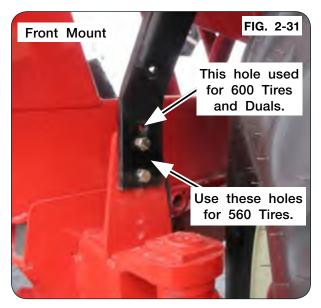
Fender Installation for Wide Fenders - Optional

Fenders for 560, 600 & Dual Tires Sizes

Use these hole locations when using larger tires sizes (560, 600 & Duals) for clearance purposes.







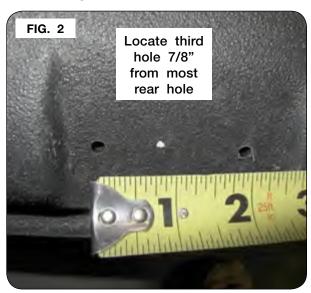


A WARNING

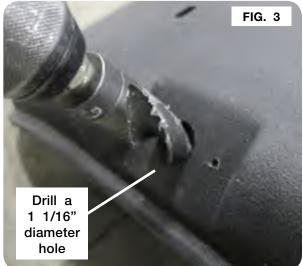
• EYE PROTECTION AND OTHER APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT MUST BE WORN WHILE SERVICING IMPLEMENT.

Fender Light Installation - Optional

- Center mounting bezel in molded fender relief.
 Once located, use mounting bezel as a template and drill two 3/16" diameter mounting holes thru fender. See figure 1.
- Remove mounting bezel and measure 7/8" from most rearward hole (farthest from fender front edge) to locate third hole, see figure 2. Mark location and drill a 1 1/16" diameter hole. See figure 3.







Fender Light Installation - Optional

Assemble mounting bezel to fender using provided hardware. Position light terminals over 1 1/16" diameter hole and push light into mounting bezel for a snap fit, see figure 4. On the underside of fender, align the wire terminal harness to the light and firmly push-on. See figure 5.

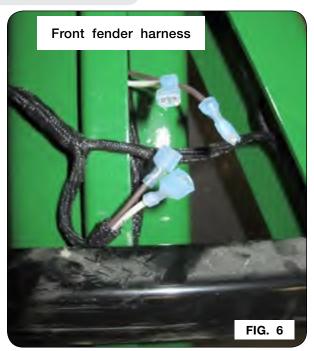


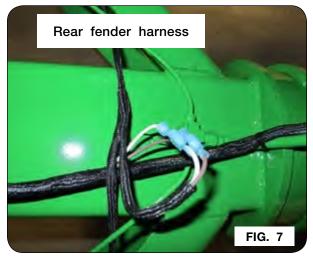


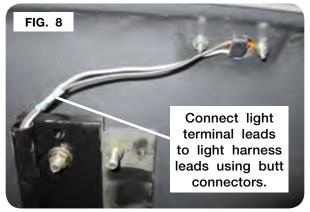
Fender Light Installation - Optional (continued)

4. Locate front and rear fender harness center break-out leads over main harness leads on the running gear center pull tube and connect the same color wires. Route harness leads along running gear brace structures and up along each fender mounting bracket and conduit tube.

5. Connect each light terminal lead to light harness leads with butt connectors, see figure 8. Connect main harness to tractor and turn on tail lights to confirm fender light operation.



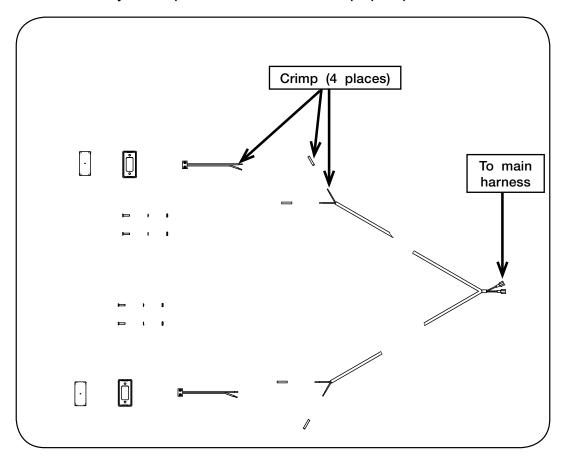




Fender Installation - Optional (continued)

Wiring (Where Applicable)

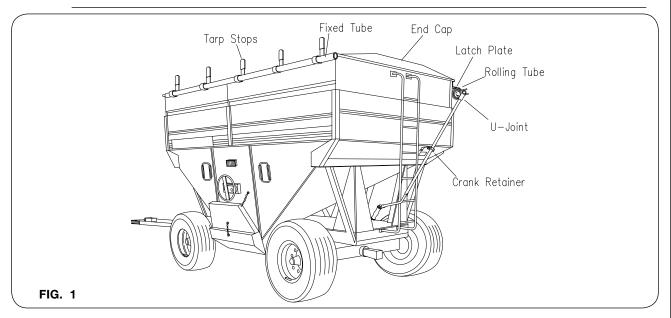
- 6. Install perimeter wiring harness and connect to main harness. Crimp light wires to harness connectors. Assemble lights to fenders, with ground eyelets on mounting bolts.
- 7. Connect electrical system to power source and check for proper operation.



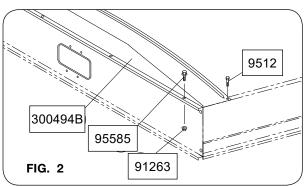
Weather Guard Tarp Installation - Optional

A WARNING

- 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 250 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 IMPLEMENT.
- TIPPING OR MOVEMENT OF THE MACHINE CAN CAUSE SERIOUS INJURY OR DEATH.
 BE SURE MACHINE IS SECURELY BLOCKED.
- TO PREVENT PERSONAL INJURY OR DEATH, ALWAYS ENSURE THAT THERE ARE PEOPLE WHO REMAIN OUTSIDE THE WAGON 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 IMPLE-MENT.



- 1. Install the side board extensions to the box.
- Assemble the end caps (300494B) to the front and rear side boards with flange screws (95585) and flange nuts (91263). Fasten to right and left side boards with 1/4" x 1" selfdrilling screw (9512). See FIG. 2.

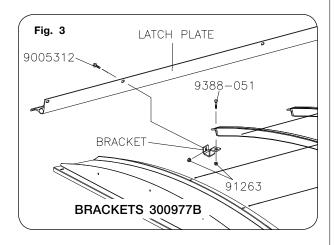


Weather Guard Tarp Installation (continued)

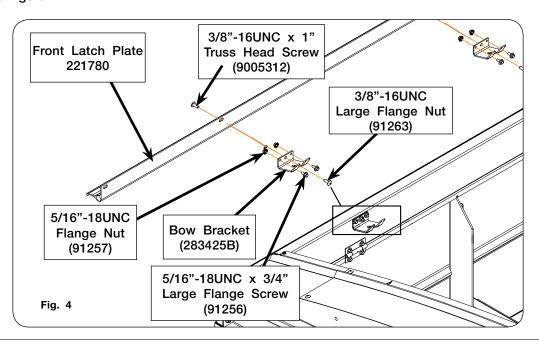
3. Assemble the bow brackets and latch plates:

Models Using Bow Brackets - 300977B Assemble bow brackets (300977B) and latch plate to the right side panel or side board with torx head screw (9005312) and flange nut (91263). Secure to side board using capscrew (9388-051) and flange nut (91263). See Figure 3.

Models using Bow Brackets - 283425B Assemble the bow brackets (283425B) to the inside, right hand side of the wagon with 5/16"-18UNC x 3/4" large flange screws (91256) and 5/16"-18UNC flange nuts (91257). See Figure 4.

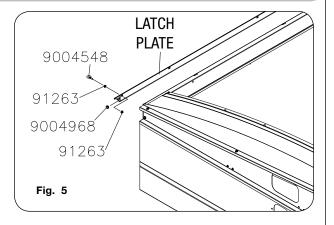


Attach the latch plates to the outside, right-hand side of the wagon with 3/8"-16UNC x 1" truss head screws (9005312), 3/8"-16UNC large flange nuts (91263), and through the bow bracket (283425B). See Figure 4.



4. Secure latch plate to front of panel with eyebolt (9004548) and two flange nuts (91263). See Figure 5.

The latch plates are divided in the center of the wagon with pre punched holes for ease of assembly. Locate the front and rear latch plates. Looking at the right side of the wagon, position the front latch plate on the front right sideboard. The holes should line up with the existing tarp bow holes. Use the provided hardware to attach the latch plates. Repeat for rear latch plate.

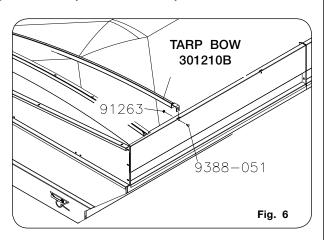


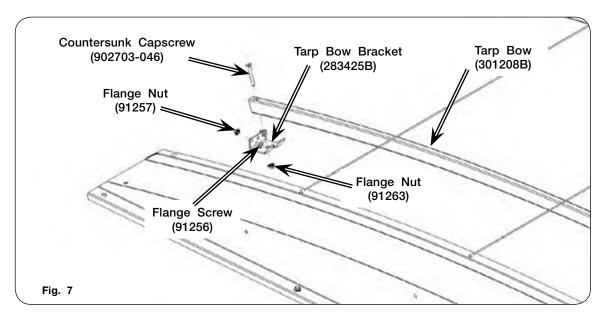
NOTE: If holes are not drilled in the sideboards or panels for attaching latch plates, locate the hold position by attaching latch plates to the right side panel or boards using the existing bow bracket holes and provided hardware. Drill the necessary holes with 7/16" drill bit through the center of the open slots of the latch plate. Finish assembling the latch plate with the provided hardware.

5. Assemble the tarp bows:

Models Using Tarp Bows - 301210B Assemble the tarp bows (301210B) to the left side panels or sideboards with carriage bolts (9388-051) and flange nuts (91263). See Figure 6.

Models Using Tarp Bows - 301208B Assemble the tarp bows (301208B) to the bow mounting brackets with countersunk capscrews (902703-046) and flange nuts (91263). See Figure 7.

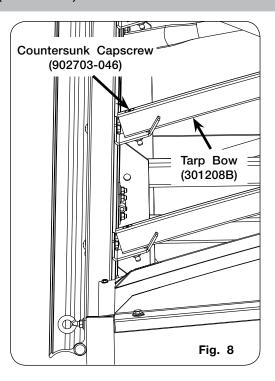




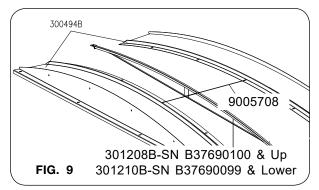
Weather Guard Tarp Installation (continued)

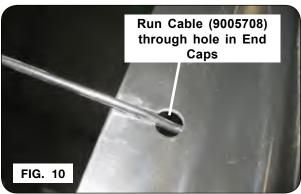
NOTE: Ensure countersunk capscrews (902703-046) are flush with the top of bow weldment (301208B). See Figure 8.

6. Tighten all hardware.

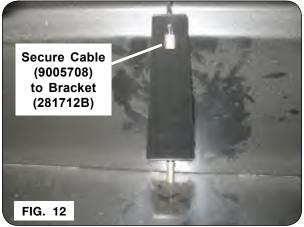


7. Attach the cable assemblies (9005708) to the rear end cap holes, see FIG. 10. Run cables over the top of the bows (301208B - SN B37690100 & Up; 301210B - SN B37690099 & Lower). Route cables through holes in front end caps (FIG. 9). Insert capscrew (TA0-907131-0) through hole in front end cap and into bracket with U-nut assembly (281712B). Secure cables to the slot in bracket assembly (281712B) (FIG. 12). To tighten cables, tighten capscrew (TA0-907131-0) on outside of wagon until bracket makes cables snug tight. Do not overtighten. Plug the remaining holes in the rear end cap with plug (9005727).









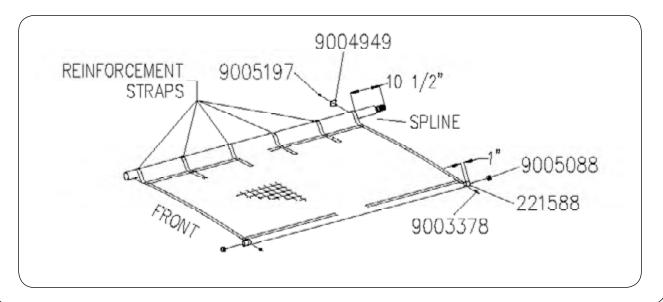
- 8. (2-person operation) On a clean floor, lay the tarp out flat with the raw edge of the hems and pockets down and the exterior side facing up.
- 9. Insert the small 1 1/8" fixed tube weldment by sliding it into the small pocket of the tarp. Leave 1" of the tube sticking out one end and drill a 3/16" hole through the center of the outer reinforcement strap and tube. Fasten with a rivet (9003378). At the other end, pull on the tarp by hand to stretch it until there is 1" of tube sticking out. Drill hole and install rivet. Press the 1 1/8" plugs (9005088) into each end of the tube. See Fig. 13.

INSTALLATION TIP:

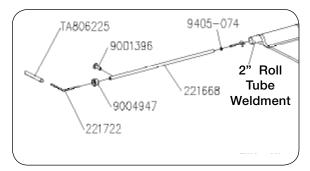
Tarp is designed to be stretched the length of the tube to reduce wrinkling. For easier assembly apply liberal dusting of baby powder on tube and inside of tube pockets before sliding tubes in pockets.

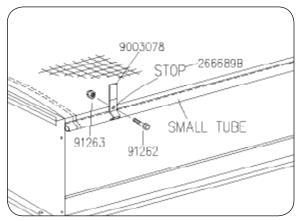
10. Insert the 2" roll tube into the large pocket, with the splined shaft to the rear. Measure 10 1/2" from the end of the spline to the start of the tarp. Install the first U-clamp (9004949) and self-drilling screws (9005197) to the first reinforcement strap, to secure the tarp to the tube. Work down the roll tube putting the U-clamps and self-drilling screws on each reinforcement strap. Make sure to keep the tarp pulled tight to reduce wrinkling. See Fig. 13.

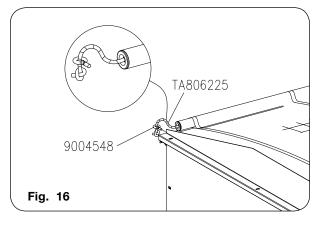
Grain wagons with any unused holes on the side of the wagon need to be plugged. Use pre-drilled 1/8" locator holes in the right-hand side of the wagon. Install with 1/4" self-tapping screws and nuts provided.

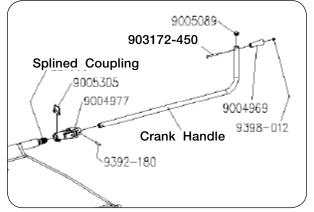


- 11. Insert knotted stretch rope (221722) through flat washer (9405-074), plastic tube (221668) and end plug (9004947). Place these items as an assembly into front end of 2" roll tube weldment and press the end plug into the end of the tube. Screw self-drilling screw (9001396) through the side of roll tube, into end plug (9004947) to retain plug into tube. Slide hose (TA806225) over bungee. See Fig. 14.
- 12. Using an appropriate lifting device rated at a minimum of 250 lbs., position the tarp on top of the left side of the wagon. Hand roll the tarp into open position. Place the 1 1/8" stationary tube side of the tarp on top of the left side of the box, centered from front to back of box. BE CAREFUL NOT TO LET THE TARP ROLL OFF OF THE BOX. Assemble the tarp and stops (266689B) (with caps) to the left side boards by poking a hole through the tarp and using flange screws (91262) and flange nuts (91263). Assemble the center stop through the bow weldment, the front and rear stops should be 1 foot in from the ends of the wagon. See Fig. 15.
- 13. Unroll the tarp making sure hose (TA806225) remains over end of stretch cord. Insert stretch cord through the top of the eye bolt (9004548). With the tarp rolled up under the latch plate, leave 2 or 3 inches of slack in the stretch cord and knot below the eyebolt. Cut off additional cord a couple inches below the knot. To keep cord from fraying, use a lighter to heat and sear loose strands. See Fig. 16.
- 14. Insert U-joint (9004977) over splined coupling and secure with wire lynch pin (9005305). Insert crank handle into U-joint and secure with roll pin (9392-180). Insert round head bolt (903172-450) into bottom hole of crank handle (221748) and slide plastic handle (9004969) onto bolt securing with locknut (9398-012). Insert 1 1/4" plug (9005089) into end of handle. See Fig. 17.



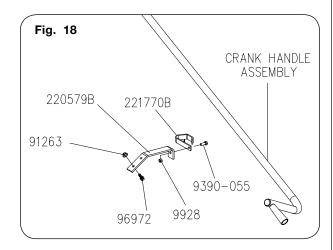






Hand Crank Handle

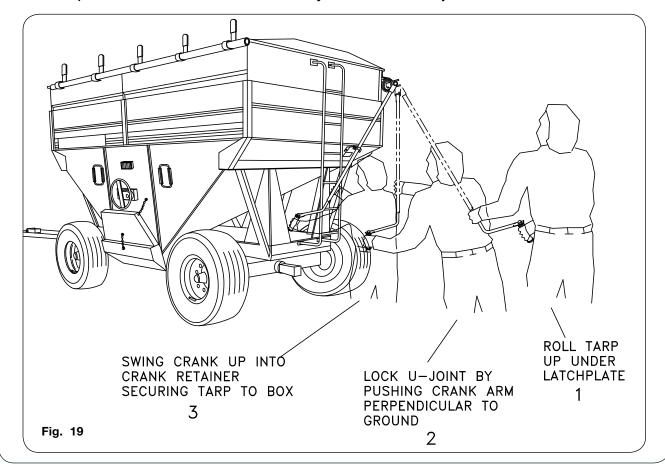
15. Locate the bracket just above the box fold line, centered on the box. Using self-tapping screws (96972) mount bracket to box and secure using flange nut (91263). Attach handle holder (220579B) to bracket (221770B) using capscrew (9390-055) and locknut (9928). See Fig. 18



16. Tighten tarp by holding the crank handle firmly with both hands and roll the main tarp tube counterclockwise up under the latch plate. Next, bring the crank handle down perpendicular to the ground. Continue by lifting it up into the crank handle retainer. See Fig. 19.

NOTE: A slight bow in crank handle tube should indicate adequate tension.

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



Unloading Side Reversal - Optional

A WARNING

- 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 4,000 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 IMPLEMENT.
- KEEP HANDS CLEAR OF PINCH POINT AREAS.
- 1. Park the empty wagon 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, remove the ignition key.



- 2. Using a safe lifting device rated for a minimum capacity of 4000 lbs. and lift height of 36 inches. Attach lifting harness to hopper so that the hopper will remain level while being lifted.
- Disconnect taillights and remove 7-pin connector from rear header. Remove main harness from rear panel and fold securely down on rear axle. Disconnect chute light harness from main harness and secure to undercarriage.
- 4. If so equipped, remove all fenders, related mounting brackets and clearance light harness from undercarriage.
- 5. Relieve spring tension on front axle hold down bracket by loosening and backing out hex capscrew approximately 2". Remove hold down pin at undercarriage attachment point and remove capscrews from elastic bumpers. Slide out bumper brackets when hopper weight is removed.
- 6. Remove rear axle pins and slowly lift hopper off running gear. Raise hopper high enough for lower discharge chute to clear tire height and hold down bracket.
- 7. If lifting device can rotate slowly turn the hopper 180° and re-align over running gear. If lifting device cannot rotate roll out running gear, reverse direction, and roll back under suspended hopper.
- 8. Align undercarriage with rear axle brackets and front axle hold down bracket. Slowly lower hopper down on running gear.
- 9. Reinstall rear axle pins to secure undercarriage to running gear.
- 10. Re-install hold down bracket to undercarriage with pin. Slightly lift undercarriage 1/2" off front axle and install bumper brackets. Set undercarriage back down on axle, reassemble spring retainer and hex nuts to hold down spring shaft, and tighten nuts to end of threads for maximum spring tension.
- 11. Remove tail lights, related wire harness, and mounting bracket with SMV sign from front and reinstall to rear. Route chute light harnesses from front to rear conduit, reconnect wire harness, and test all light functions. Secure harness to frame with tie wraps.
- 12. Reinstall fender mounting brackets, fenders, and clearance light harness. Check tire-to-fender clearances and adjust as needed. Check clearance light operation.
- 13. Remove ladder from rear and reinstall to front.
- 14. Remove existing reflectors and install Reflector Kit #221451 Locate (2) Amber to Front and (2) Red to Rear.

Section III Operation

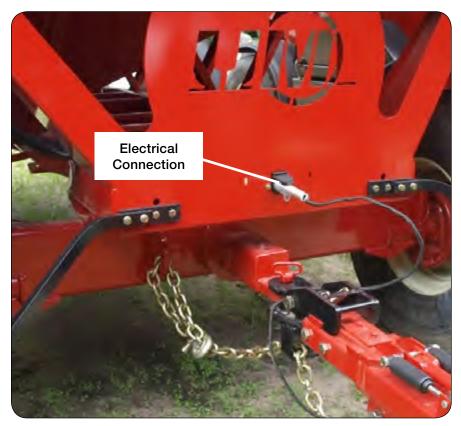
Tandem	Operation	3-2
Chute		3-3
Weather	Guard Operation	3-4

530 GRAIN WAGON — Operation

Tandem Operation

When pulling wagons in the tandem option, please do the following:

- 1. Connect the electrical cord.
- 2. Hook up the safety chain on the lead wagon that is sized for the total load.
- 4. Allow enough slack for turning oscillation in the field. Be sure to prevent the electrical cord from dragging or catching.



Chute

Moving Chute to Unload Position:

While using the chute handle, push the handle on the catch latch toward the wagon. Lower the chute in a controlled manner until the chute rests against the adjustable height stop bolt.

Moving Chute to Transport Position:

Use the chute handle to lift the chute into the catch latch making sure the latch is fully engaged into the catch latch hook. The chute should be securely retained between the latch hook and the bumper. If it is not, adjust the bumper position. Refer to "Adjustable Transport Latch" in Set Up section.





Weather Guard Tarp

A WARNING

- TO PREVENT PERSONAL INJURY OR DEATH, DO NOT ALLOW ANYONE ON A CLOSED TARP. TARP SYSTEM IS NOT DESIGNED TO SUPPORT A PERSON.
- FALLING OBJECTS CAN CAUSE SERIOUS INJURY OR DEATH. REMOVE ACCUMULATED WATER/SNOW/ICE OR ANY OTHER OBJECTS FROM TARP BEFORE OPENING TARP.

IMPORTANT

- Do not open or close tarp while moving or in high wind conditions. Damage to the tarp may
 occur.
- Tarp should not be used if it is torn or the bungee cords are frayed or show damage. If water pools on the tarp, adjust tension of tarp cables and/or arm springs as required.

Always use adequate caution when operating tarp.

Make sure tarp is open before unloading or loading.

Make sure nobody is near the tarp system before and during operating.

Do not operate tarp with wagon hoisted in an elevated position.

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

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

Tarp may be fully opened or completely closed while in transit. However, the closed position is recommended.

Ensure everyone who operates the tarp is familiar with the correct procedures outlined in this manual.

Weather Guard Tarp (continued)

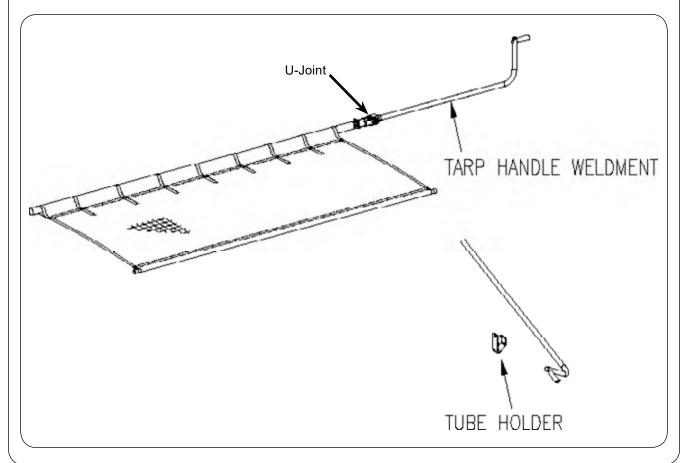
Procedure

- 1. Using both hands, carefully remove crank handle from holder.
- 2. Roll tarp to the desired location, choosing either a fully open or fully closed position.
- 3. To close the tarp, roll the main tarp tube clockwise up under the latch plate. Next, bring the crank handle down perpendicular to the ground. Continue by lifting it up into the crank retainer.

NOTE: A slight bow in crank handle tube should indicate adequate tension.

NOTE: Crank U-joint may need to be re-indexed on tarp tube to achieve correct tension.

- 4. Place crank handle in holder.
- 5. To open tarp, turn the main tarp tube counter clockwise until the tarp is fully open. Place crank handle in crank holder.



530 GRAIN WAGON — Operation

Notes	

SECTION IV Maintenance

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13" Surge Brake information — Brake Shoe Centering	
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Seasonal Storage

Your wagon 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.

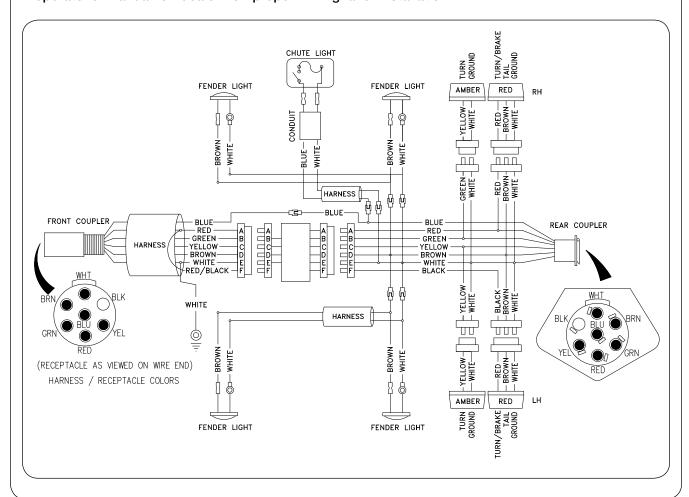
Do the following before placing the wagon in storage:

- 1. Remove dirt and trash which could cause rusting.
- Wash the wagon if it was used to haul corrosive materials such as fertilizer.
- 3. Slide hitch out from tongue to clean the inside of the tongue tube. Remove any dirt and grain material from inside, which could hold moisture causing rust or interference with the tongue function.
- 4. Repaint any chipped or scraped areas.
- 5. Check the brake fluid level.
- 6. Remove the cover ahead of the brake master cylinder and inspect. Remove any dirt and debris. Reinstall cover.
- 7. Check grease after each season of use on all wheel hubs.
- 8. Inspect for damage or worn parts, replace before next season.
- 9. Store the wagon inside, away from animals.
- 10. Replace all worn, torn or faded decals and reflectors.
- 11. Fully open the door to remove any remaining grain, and allow the moisture to drain.
- 12. Store the transport chain on the hooks under the tongue.

Electrical Schematic

The following schematics comply with ANSI/ASABE Standards for tractors.

<u>NOTE</u>: Wiring specifications may be different for older tractor models. Consult your tractor operator's manual or dealer for proper wiring and installation.

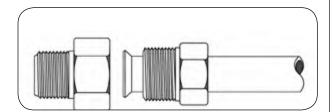


Brake Line Fittings - Torque and Installation

INVERTED FLARE

- Lubricate threads and assemble to fitting body.
 Nut should be turned hand tight.
- Tighten assembly with wrench until a solid feeling is encountered. From that point, apply a one-sixth turn.

NOTE: Do not over-torque as it may damage the fitting or split the tubing at the flare.



Brake System

Brake Shoe Adjustment

A WARNING

- 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 2,000 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 IMPLEMENT.
- TIPPING OR MOVEMENT OF THE MACHINE CAN CAUSE SERIOUS INJURY OR DEATH. BE SURE MACHINE IS SECURELY BLOCKED.
- POTENTIAL ASBESTOS DUST HAZARD SOME BRAKE LININGS MAY CONTAIN ASBESTOS DUST, WHICH HAS BEEN LINKED TO SERIOUS OR FATAL ILLNESSES. CERTAIN PRECAU-TIONS 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 BUSHING FOR CLEANING (DUST CAN BE REMOVED WITH A DAMP BRUSH).

NOTE: Be sure to read preceding "SET UP" section on sliding hitch and latch adjustment before proceeding to this step.

Brakes are set at factory, however, it may become necessary to adjust shoes after the first season. The brakes incorporate a "Back-up" feature that makes it necessary to rotate the wheels in the direction of forward rotation only when making adjustments. Use a safe lifting device rated for 1 ton to lift an empty wagon. Lift each wheel until the tire is no longer contacting the ground. Tighten the brake adjusting cog nut (located in the slot on the brake backing plate) until you cannot rotate wheel by hand, then back off the adjustment until 3 - 4 threads are showing. And then additional threads may be necessary.

NOTE: If all 4 brakes are dragging, check tongue components to make sure parts work freely, nothing is binding or sticking.







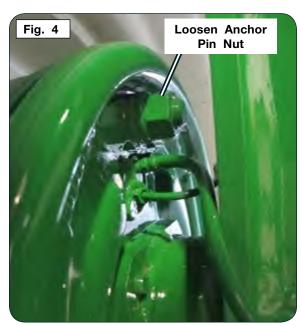
13" Surge Brake Information

Brake Shoe Centering

(2 Person Operation ~ 15 to 20 Minutes Per Brake Assembly)

A WARNING

- WHEN WORKING AROUND THE MA-CHINE, BE SURE IT IS SECURELY BLOCKED; FAILURE TO DO SO COULD RESULT IN TIPPING OR MOVEMENT OF MACHINE, CAUSING SEVERE BODILY HARM.
- EYE PROTECTION AND OTHER AP-PROPRIATE PERSONAL PROTECTIVE EQUIPMENT MUST BE WORN WHILE SERVICING IMPLEMENT.
- KEEP HANDS CLEAR OF PINCH POINT AREAS.
- Park the empty wagon on a firm, level surface. Properly chock the tires not being serviced. Remove master cylinder cover on tongue of the wagon (Fig. 1 & 2). Make sure the master cylinder is not being actuated.
- Use lifting device rated for 12,000 lbs. to lift the axle to allow the tire with the brakes needing adjustment to spin freely (Fig. 3). Loosen anchor pin nut on the back of brake assembly back plate with 1 1/8" socket (Fig. 4).









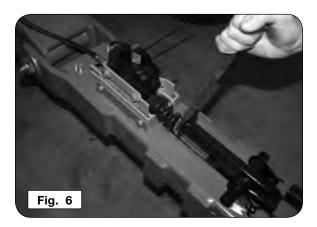
13" Surge Brake Information (continued)

- Spin tire in direction of forward travel of the wagon. While tire is spinning, increase the brakes using the shoe adjustment star wheel until full contact of brakes can be heard (Fig. 5).
- 4. While tire is spinning, slowly apply and hold pressure to the master cylinder (Fig. 6). While holding pressure to the master cylinder, retighten anchor pin nut to 200-220 ft.-lbs (Fig. 7). This should center the brake shoe assembly within the brake drum.

NOTE: While applying pressure to the master cylinder, make sure the push tab remains vertical so parts can move freely when actuating the brakes. Refer to "Brake System — Trouble-shooting Guide" in this section for additional information.

- Release pressure to master cylinder. Spin tire in direction of forward travel of the wagon.
- 6. While tire is spinning, back off brake adjusting screw to 3.5 or 4 threads showing and apply master cylinder. Repeat this process until slight brake contact is heard. If brake contact is still severe, repeat steps 2-6 a second time.
- Lower axle setting the tire on the ground. Install master cylinder cover. Remove chocks from tires.
- 8. Tow the unit for at least one mile applying the brakes several times. Periodically stop and feel the brake drums for excessive heat.
- 9. Adjust brake shoe adjustment screw in or out depending on feel of brakes.







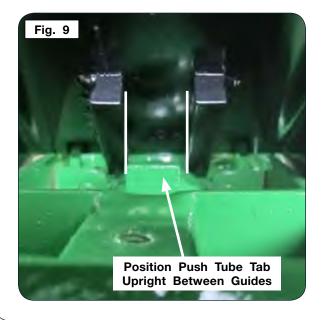
Brake System - Troubleshooting Guide

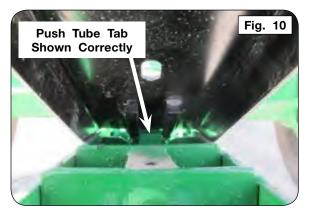
SYMPTOM	REMEDY
BRAKES DRAGGING/LOCK-UP	1. Flush brake system
	Disassemble slave cylinders inside brake clusters. Clean cylinder and cylinder walls. Reassemble and adjust.
	3. Install new brake fluid.
BRAKE DRUMS HOT/ONE OR MORE BRAKES DRAG	 Re-adjust brakes. Tighten brake shoes down to brake drum, then back off the adjustment until 3 - 4 threads are showing. And then additional threads may be necessary. Be sure each brake assembly has the same adjustment. This will equalize the brake system caus- ing each brake to pull the same amount of weight.

IMPORTANT

 Position/rotate the push tube tab sraight up/ down so the parts can move freely when using the actuating brakes.







Tarp - Troubleshooting Guide

PROBABLE CAUSE	CORRECTION			
	Bows may be bent or adjusted too low.			
Tarp sags in middle areas	Missing or loose ridge strap. Replace or retighten.			
	U-joint may need to be adjusted on splinded shaft to provide more tension.			
	Consult your local dealer for repairs.			
Holes or tears in tarp	Order tarp repart kit from dealer.			
Tiolog of today in talp	When new tarp or parts are needed always replace with original parts.			

Tarp - Inspection and Maintenance

A WARNING

- TO PREVENT PERSONAL INJURY OR DEATH, DO NOT ALLOW ANYONE ON A CLOSED TARP. TARP SYSTEM IS NOT DESIGNED TO SUPPORT A PERSON.
- FALLING OBJECTS CAN CAUSE SERIOUS INJURY OR DEATH. REMOVE ACCUMULATED WATER/SNOW/ICE OR ANY OTHER OBJECTS FROM TARP BEFORE OPENING TARP.

IMPORTANT

- Do not open or close tarp while moving or in high wind conditions. Damage to the tarp may occur.
- Tarp should not be used if it is torn or the bungee cords are frayed or show damage. If water pools on the tarp adjust tension of tarp cables and/or arm springs as required.

Periodic preventive maintenance should be practiced. Inspect tarp and hardware often for abrasions or loosened bolts that may need adjustment and/or repair. Check bungee cords for wear and adjust tension at the beginning of the season and again half way through the season. Cable spools are factory greased, but over time and use may require re-greasing.

Tears in tarp should addressed before further tarp operation. If water pools on tarp, adjust tension of tarp cables and/or arm springs.

If installed correctly, tarp should always operate as well as when first installed. If tarp does not pass this simple inspection, make all appropriate repairs or adjustments immediately before serious damage occurs.

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 THERE-AFTER. 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				
3/4-16 (UNF)	365 ftlbs.			

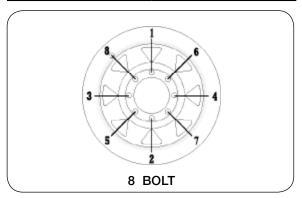


DIAGRAM 1

Wheels and Tires (continued)

Tire Pressure

• The following is to be used as a general guide for tire inflation and figures can vary depending on the specific tire size used. It is important that tires are inspected after unit is loaded. Start with pressure indicated by your tire size and bushel capacity. The tire should stand up with no side-wall buckling or distress as tire rolls. Record the pressure needed to support the full load and maintain this pressure to achieve proper tire life. Do not exceed maximum recommended tire pressure* or maximum rated speed**.

RECOMMENDED

TIRE PRESSURES

TIRE SIZE	LOAD INDEX/	MAX PSI					
TINE SIZE	PLY RATING	450 BU	550 BU	625 BU	650 BU	750 BU	
385/65R22.5 (Used Tire)		65 psi	65 psi	-	-	-	
425/65R22.5 (Used Tire)		65 psi	65 psi	85 psi	85 psi	-	
445/65R22.5 (Used Tire)		-	65 psi	85 psi	85 psi	-	
455/55R22.5 (Used Tire)		-	-	85 psi	85 psi	85 psi	
460/65R22.5 (New Tire)	168A8	-	58 psi	66 psi	68 psi	73* psi	
560/65R22.5 (New Tire)	161D	-	-	56** psi	56** psi	56** psi	
600/50-22.5 (New Tire)	169A8	-	-	-	-	46** psi	
315/80R22.5 (Used Tire)		-	-	-	-	85 psi	

*MAX psi @ 19 mph

** MAX psi @ 25 mph

Tire Warranty

For questions regarding new tire warranty, please contact your local original equipment tire dealer. USED TIRES CARRY NO WARRANTY.

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.

530 GRAIN WAGON — Maintenance

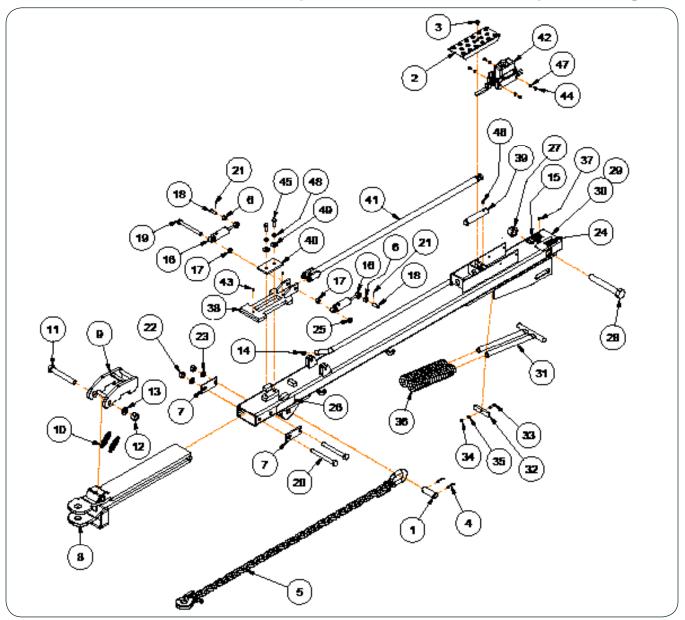
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Tongue

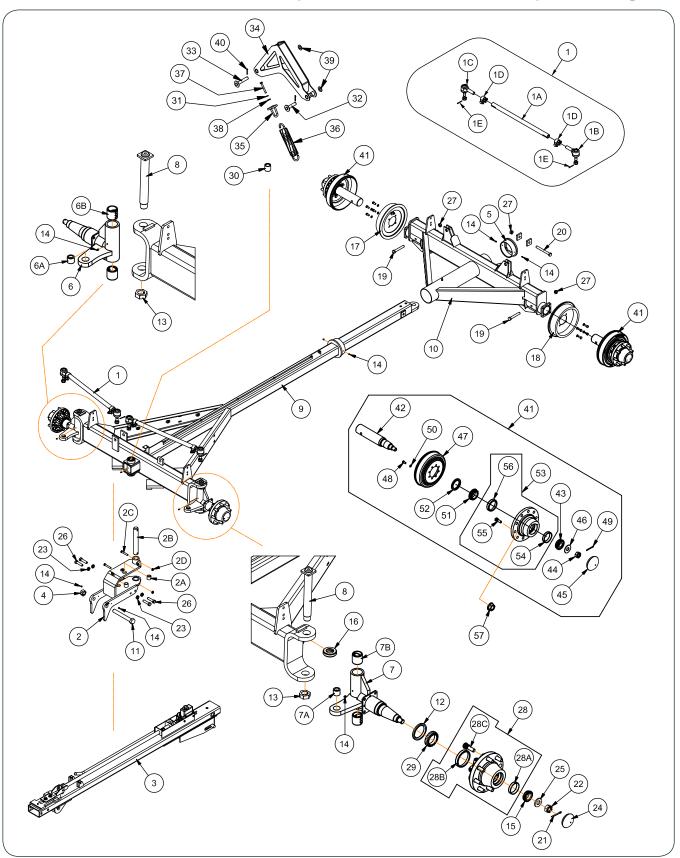


ITEM	DESCRIPTION	PART NO.	QTY.	NOTES
1	Pin 1 1/4" Dia. x 3 3/4"	250151	1	
2	Step Weldment =Black=	301207B	1	
3	Large Flange Screw 5/16"-18UNC x 3/4"	91256	1	
4	Roll Pin, 5/16" Dia. x 2"	9392-159	2	
5	Transport Chain	95055	1	
6	Shock Bushing	300035	2	
7	Shim, Hitch	300081B	2	
8	Hitch Weldment	221092B	1	
9	Latch Weldment	300110B	1	
10	Extension Spring, 1" x 3 1/4"	9002044	2	
11	Capscrew, 1"-8UNC x 7"	9390-197	1	

Tongue

	ITEM		DESCRIPTION	PART NO.	QTY.	NOTES
	12		Hex Nut, 1"-8UNC	9394-020	1	
	13		Lock Washer, 1"	9404-041	1	
	14		Snap Bushing .812" OD	9001815	2	
	15		Decal, Tongue Pivot	9002187	1	
	16		Shock Absorber	91667	2	
	17		Spacer	9190	2	
	18		Clevis Pin, 1/2 Dia. x 1 1/2"	92966	2	
	19		Capscrew, 5/8"-11UNC x 6 1/2"	9390-137	1	
	20		Capscrew, 3/4"-10UNC x 7"	9390-159	2	
	21		Cotter Pin, 1/8 Dia. x 1"	9391-023	2	
	22		Hex Nut, 3/4"-10 UNC	9394-016	2	
	23		Lock Washer, 3/4"	9404-033	2	
	24		Decal, WARNING "High-Pressure Fluid"	95445	1	
	25		Locknut, 5/8"-11UNC	95905	1	
	26		Decal, CAUTION "Transport Chain"	97575	1	
			Tongue Pivot Nut with Setscrew	300189	1	
	27		Setscrew 5/16"-18UNC x 2"	9399-073	-	
	28		Tongue Pivot Bolt 1 1/4"-7UNC x 9"	9001783	1	
			Tongue Assembly =Green=	300097G	1	
	29		Tongue Assembly =Red=	300097R	-	Includes Items 30 through 49
l [Tongue Weldment =Green=	300993G		
	3	0	Tongue Weldment =Red=	300993R	 1	Includes Items 31 through 37
		31	Balance Rod	222189B	1 1	
		32	Retainer, Spring	8-603027	1	
		33	Capscrew, 3/8"-16UNC x 1 1/2"	9390-057	1 1	
		34	Hex Nut 3/8"-16UNC	9394-006	2	
		35	Lock Washer, 3/8"	9404-021	2	
		36	Spring, 2 1/2 x 15/32 Wire x 12	9003880B	2	
		37	Grease Zerk	91160	1	
	3	8	Latch Plate Assembly	300032B	1	
			Push Tube	300037B	1	
	3	9	Push Tube Kit	300258	<u> </u>	Includes Push Tube & Item 46
	4	0	Brace Bracket	300082B	1	
	-		Push Pipe Kit	300260	1	Includes Pipe, Capscrew & Nut
	41		Capscrew 3/4"-10UNC x 2" Full Threaded	95739	 	included tipe, expected a stat
			Hex Jam Nut 3/4"-10UNC	9395-016	-	
			Master Cylinder w/Spring Bracket	92968	1	
			Seal Kit for Master Cylinder	9001031	 -	
	42 43 44		Fill Cap	92540	 -	
			Adapter with 0.0156" Orifice	9003774	<u> </u>	Dryseal
			Grease Zerk	91160	2	,
			Capscrew, 5/16"-18UNC x 1/2"	9390-026	4	
		5	Capscrew, 1/2"-13UNC x 1 1/4"	9390-100	2	
		6	Setscrew, 1/2"-13UNC x 1/2"	9399-106	1	
		.7	Lock Washer, 5/16"	9404-019	4	
		8	Lock Washer, 1/2"	9404-025	2	
		.9	Flat Washer, 1/2"	9405-088	2	
ш	49			0.00		J.

Running Gear



Running Gear

	ITEM	DESCRIPTION	PART NO.	QTY	NOTES
	1	Tie Rod Assembly Complete =Green=	300004G	2	
		Tie Rod Assembly Complete =Red=	300004R	2	
	1A	Tie Rod Pipe Tube	8-402026	1	
	1B	Tie Rod End - Left-Hand Thread	92580	1	
	1C	Tie Rod End - Right-Hand Thread	92581	1	
	1D	Tie Rod Clamp	93668	2	
	1E	Cotter Pin, 5/32 Dia. x 2	9391-037	2	
		Turning Weldment =Green=	300015G	1	
	2	Turning Weldment =Red=	300015R	1	
	2A	Tie Rod Bushing Tube	8-603021	2	
	2B	Shaft, 1.735 Dia. x 12	8-603022	1	
	2C	Capscrew, 1/2-13UNC x 3	9390-107	2	Grade 5
	2D	Locknut, 1/2-13UNC	94981	2	
		Tongue Assembly =Green=	300097G	1	
	3	Tongue Assembly =Red=	300097R	1	
	4	Tongue Pivot Nut Assembly	300189	1	
		Rear Axle Retainer Weldment =Green=	300220G	1	
	5	Rear Axle Retainer Weldment =Red=	300220R	1	
		Front Spindle Weldment, Right-Hand =Green=	300686G	1	
	6	Front Spindle Weldment, Right-Hand =Red=	300686R	1	
	6A	Tie Rod Bushing Tube	8-603021	1	
	6B	Split Tension Bushing	9006088	2	
	_	Front Spindle Weldment, Left-Hand =Green=	300687G	1	
	7	Front Spindle Weldment, Left-Hand =Red=	300687R	1	
	7A	Tie Rod Bushing Tube	8-603021	1	
	7B	Split Tension Bushing	9006088	2	
	8	King Pin Weldment	300761	2	
		Front Axle Weldment =Green=	301089G	1	
	9	Front Axle Weldment =Red=	301089R	1	
	10	Axle Weldment =Green=	301090G	1	
	10	Axle Weldment =Red=	301090R	1	
	11	Tongue Pivot Bolt	9001782	1	
	12	Grease Seal	9004501	2	
	13	Hex Jam Nut, 1 1/2-6UNC w/Set Screw	9006386	2	
	14	Grease Zerk	91160	9	
	15	Bearing Cone, 1.625" ID	9247	2	
	16	Thrust Bearing	92583	2	
	17	Dight Hand Drake Chater	9007016	2	Serial Number B37690100 & Up
L		Right-Hand Brake Cluster	93669	2	Prior to Serial Number B37690100
	18	Left-Hand Brake Cluster	9007017	2	Serial Number B37690100 & Up
L			93670	2	Prior to Serial Number B37690100
	19	Capscrew, 3/4-10UNC x 5	9390-155	2	Grade 5
	20	Capscrew, 3/4-10UNC x 7	9390-159	2	Grade 5
	21	Cotter Pin, 1/4 Dia x 2 1/2	9391-061	2	
	22	Slotted Nut, 1-14UNS	9393-020	2	Grade 2
	23	Hex Jam Nut, 3/4-10UNC	9395-016	4	Grade 5
	24	Hub Cap =Black=	9442B	2	
	25	Flat Washer, 1"	9448	2	
		•			•

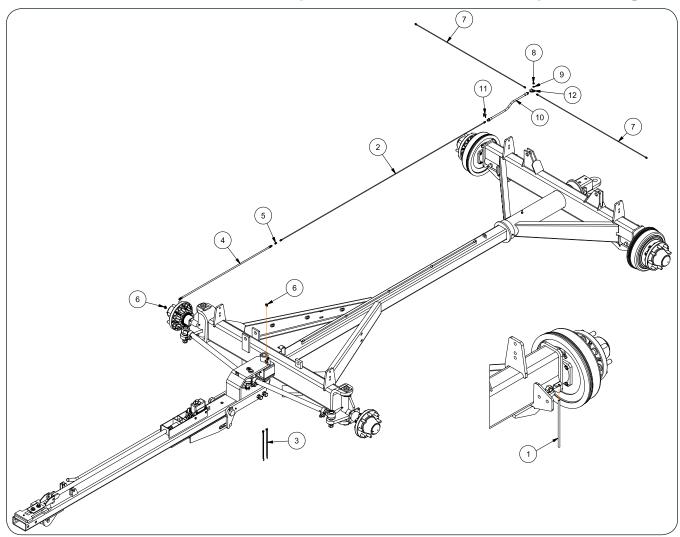
530 GRAIN WAGON — Parts

Running Gear (continued)

ITEM	DESCRIPTION DESCRIPTION	PART NO.	QTY	NOTES
26	Capscrew, 3/4-10UNC x 3	94733	4	Grade 5
27	Center Locknut, 3/4-10UNC	96732	3	Grade 5
	Hub Subassembly =Green=	300296G		
28	Hub Subassembly =Red=	300296R	2	
28A	,	9349	2	
28B		TA39412	2	
280		9004943	16	
29	Inner Cone	TA37827	2	
30	Bronze Bearing, 2.253 OD x 1.76 ID	92578	6	
31	Lock Washer, 1/2	9404-025	8	
32	Torsion Bar Pin, 1" Dia. x 4 3/4	220151	1	
33	Undercarriage Pin, 1" Dia. x 6	220005	1	
34	Torsion Bar Weldment	301190B	1	Serial Number B32830100 & Higher (Excluding B34530101, B34530111, B34530112, B34530148, B34530150, B34530151, B34530155, B34530156, B34530166, B34530170, B34530171)
		221023B	·	Serial Number B32830099 & Lower (Including B34530101, B34530111, B34530112, B34530148, B34530150, B34530151, B34530155, B34530156, B34530166, B34530166, B34530170, B34530171)
35	Catch Weldment Spring	222187B	1	
36	Torsion Bar Spring	9003872	1	
37	Capscrew, 1/2-13UNC x 4 Gr.5	91552	1	
38	Flat Washer, 1/2	9405-088	1	
39	Flat Washer, 1	9405-116	2	
40	Cotter Pin, 3/16" Dia. x 2	9391-046	2	
41	Hub Sub Assembly	300454	2	Includes Items 42 - 56
42	Spindle 3 1/4" OD x 18 7/8	300438	2	
43	Bearing Cone #LM501349 1 5/8" ID	9247	2	
44	Slotted Nut 1-14UNS	9393-020	2	
45	Hub Cap =Black=	9442B	2	
46	Spindle Washer 1"	9448	2	
47	Brake Drum 13" (DICO)	92575	2	SN B33500099 & Lower
47	Brake Drum 13" (GVS)	9007018	2	SN B33500100 & Higher
48	Capscrew 1/2-20UNF x 1 Gr.5	9390-323	32	
49	Cotter Pin 1/4" Dia. x 2 1/2	9391-061	2	
50	Lock Washer 1/2"	9404-025	32	
51	Inner Bearing Cone #39250	TA37827	2	
52	Seal 3 1/8" ID #31414SA	9004501	2	
	Hub Sub Assembly =Green=	300296G		
53	Hub Sub Assembly =Red=	300296R	2	
	·	9349	2	
l F	4 Bearing Cup #LM501310 2 891" OD	9.049		
 -	64 Bearing Cup #LM501310 2.891" OD 65 Drive-In Stud Bolt 3/4-16UNF x 2 3/4	+		
5	4 Bearing Cup #LM501310 2.891" OD 5 Drive-In Stud Bolt 3/4-16UNF x 2 3/4 6 Bearing Cup #39412 4 1/8" OD	9004943 TA39412	20	

Brake Components

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

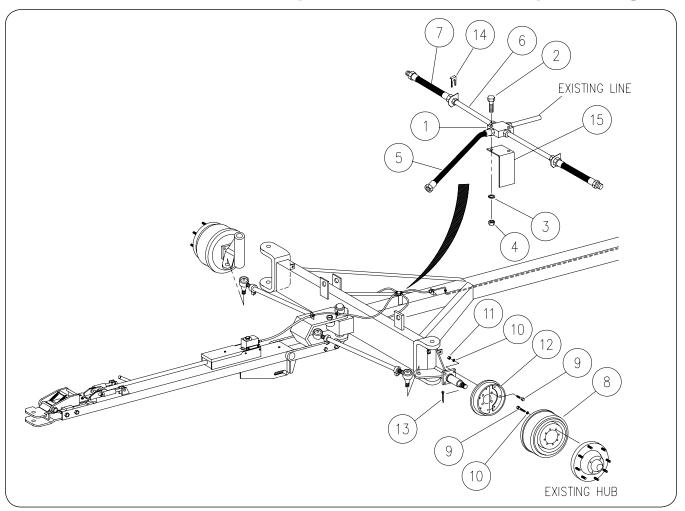


ITEM	DESCRIPTION	PART NO.	QTY.	NOTES
1	Bleeder Hose, 5/16 Dia. x 3/16 Dia. x 10"	300480	2	
2	Bundyweld Tube, 3/16 Dia. x 93"	9001190	1	
3	Cable Tie, 11"	9003735	2	
4	Brake Hose, 42"	9005636	1	
5	Union, 3/16IF x 5/8	9005637	1	
6	Rubber Grommet, 7/16" ID	9005653	2	
7	Bundyweld Brake Line, 50"	92819	2	
8	Hex Nut, 5/16-18UNC Gr.5	9394-004	1	
9	Lock Washer 5/16"	9404-019	1	
10	Brake Hose, 18 7/8"	94089	1	
11	Brake Hose Clip	9464	1	
12	Tee with Mounting Bracket	9465	1	

NOTE: The cap O-ring should be lubricated with brake fluid prior to hand tightening. Hand tighten ONLY!

Brake Components

- Customer-Installed Front Brakes (Optional)

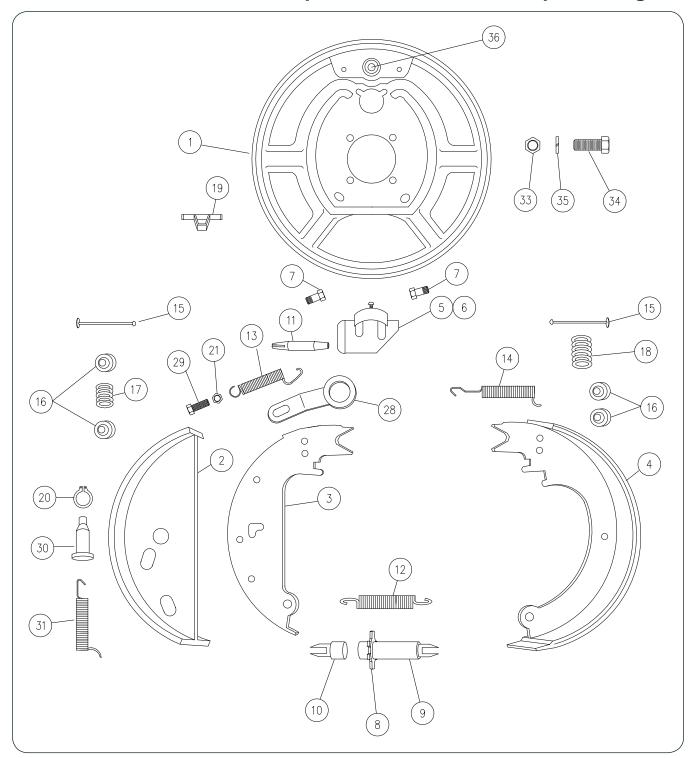


Brake Components

- Customer-Installed Front Brakes (Optional)

ITEM	DESCRIPTION	PART NO.	QTY.	NOTES
	Front Brake Package	300170	OPT.	Includes Items 1 Thru 16
1	Brake Cross	300184	1	
2	Capscrew, 1/4-20 UNC x 1 1/4	9390-006	2	
3	Lock Washer, 1/4	9404-017	2	
4	Hex Nut, 1/4-20 UNC	9394-002	2	
5	Brake Hose, 18 7/8"	94089	1	S/N B26890100 & Lower
6	Brake Line, 30"	92568	2	
7	Brake Hose, 13"	9461	2	
8	Brake Drum 13"	9007018	2	
9	Capscrew, 1/2-20 UNF x 1	9390-323	24	
10	Lock Washer, 1/2	9404-025	24	
11	Hex Nut, 1/2-20 UNF	9394-009	16	
	Proko Aggambly DH	9007016	1	S/N B33490100 & Higher
12	Brake Assembly, RH	93669	I	S/N B33490099 & Lower
12	Proko Aggambly III	9007017	4	S/N B33490100 & Higher
	Brake Assembly, LH	93670	1	S/N B33490099 & Lower
13	Cotter Pin, 1/4 Dia. x 3	9391-062	2	
14	Clip, Brake Hose	9464	3	
15	Not Applicable	-	-	

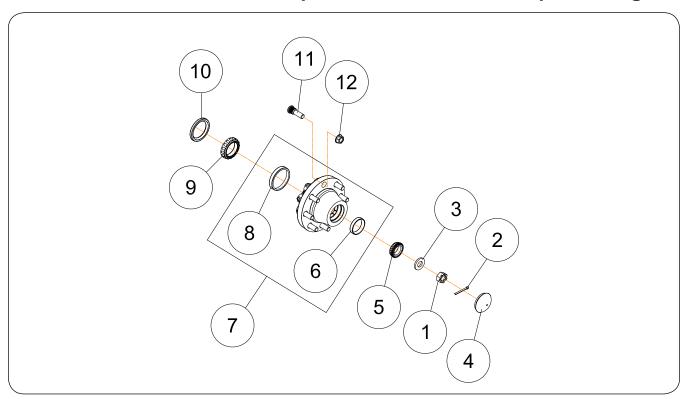
13" Brake Components



13" Brake Components

ITEM	DESCRIPTION	PART NO.	QTY.	NOTES
	RH Cluster Complete	9007016		
	LH Cluster Complete	9007017		
	Wheel Cylinder Repair Kit	9007045	1	
		•	Į.	
1	Back Plate Assembly	9007022	1	
2	Front Brake Shoe Assembly	9007023	1	
3	Front Shoe Lever	9007024	1	
4	Rear Brake Shoe Assembly	9007025	1	
5	Wheel Cylinder Assembly - Right	9007026	1	
6	Wheel Cylinder Assembly - Left	9007027	1	
7	Wheel Cylinder Fastener	9007028	2	
8	Adjuster Nut	9007029	1	
9	Adjuster Screw Assembly	9007030	1	
10	Socket - Adjuster	9007031	1	
11	Push Rod - Wheel Cylinder	9007032	1	
12	Spring - Adjusting Screw (yellow)	9007033	1	
13	Spring - Front Lever (Red)	9007034	1	
14	Spring - Rear Shoe (Orange)	9007035	1	
15	Pin - Shoe Hold Down	9007036	2	
16	Cup - Shoe Hold Down	9007037	4	
17	Spring - Front Hold Down (Yellow)	9007038	1	
18	Spring - Rear Hold Down (Black)	9007039	1	
19	Adjusting Hole Plug	9007040	1	
20	Brake Cluster Retaining Ring	9007041	1	
21	Locknut 5/16-18 UNC	93531	1	
22-27	Not Applicable	-	-	
28	Travel Link	9007043	1	
29	Travel Link Bolt - Capscrew 5/16-18 UNC x 5/8	9390-027		
30	Pin - Front Shoe	9007044	1	
31	Spring - Front Shoe	9007042	1	
33	Hex Nut, 1/2-20 UNF	9394-009	4	
34	Capscrew, 1/2-20 UNF x 1	9390-323	4	
35	Lock Washer, 1/2	9404-025	4	
	Stud - Brake Shoe Anchor	9004072	1	
36	Lock Washer - Brake Shoe Anchor	9004073	1	
1	Nut - Brake Shoe Anchor	9004074	1	

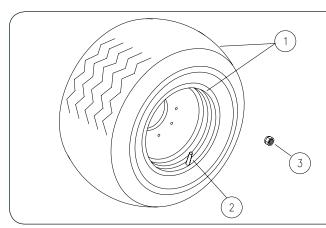
Hub Components



ITEM	DESCRIPTION	PART NO.	QTY.	NOTES
1	Slotted Hex Nut, 1-14 UNS	9393-020	1	
2	Cotter Pin, 1/4 Dia. x 2 1/2	9391-061	1	
3	Washer, Spindle	9448	1	
4	Hub Cap	9442B	1	
5	Bearing Cone, Outer	9247	1	Ref #LM501349
6	Bearing Cup, Outer	9349	1	Ref #LM501310
7	Hub, Machined w/Cups =Green=	300296G	1	lockedes blame C O 9 44
'	Hub, Machined w/Cups =Red=	300296R] '	Includes Items 6, 8, & 11
8	Bearing Cup, Inner	TA39412	1	Ref #39412
9	Bearing Cone, Inner	TA37827	1	Ref #39250
10	Seal	9004501	1	
11	Stud Bolt, 3/4-16 UNF x 2 5/8	9004943	8	
12	Flange Nut 3/4-16 UNF	92458	8	Grade 8

Wheels and Tires

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



TIRES

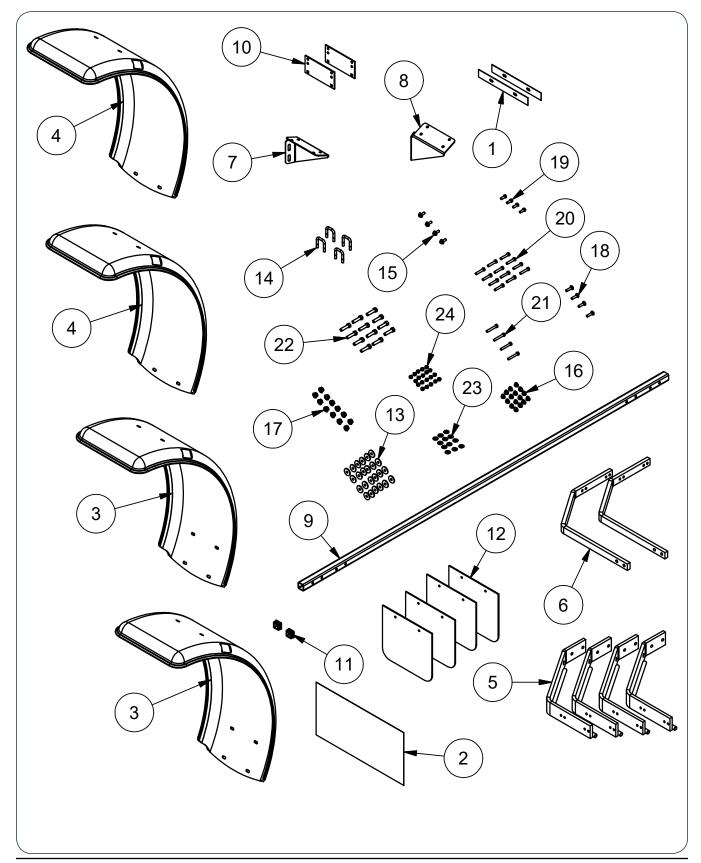
For questions regarding new tire warranty, please contact your local original equipment tire dealer. Used tires carry no warranty.

ITEM	DESCRIPTION	PART NO.	QTY	NOTES
	Wheel & Tire Asy =Sliver Mist=	17262SM	4	425/65R22.5 Metric - Used SN B38710100 & Higher
	Wheel & Tire Asy	17262	4	425/65R22.5 Metric - Used SN B38710099 & Lower
	Wheel & Tire Asy =Sliver Mist=	17263SM	4	445/65R22.5 - Used SN B38710100 & Higher
	Wheel & Tire Asy	17263	4	445/65R22.5 - Used SN B38710099 & Lower
1	Wheel Only =Sliver Mist=	9004747SM	4	W13.5x22.5 8-Bolt SN B38710100 & Higher
	Wheel Only	9004747	4	W13.5x22.5 8-Bolt SN B38710099 & Lower
	Wheel & Tire Asy =Sliver Mist=	9004747SM/902563	4	13 x 22.5 / 460/65R22.5 Metric - New SN B38710100 & Higher
	Wheel & Tire Asy	9004747/902563	4	13 x 22.5 / 460/65R22.5 Metric - New SN B38710099 & Lower
2	Valve Stem	93300	4	
3	Wheel Nut, 3/4-16UNF	92458	4	*See Important note

IMPORTANT

• Use correct wheel nuts for specific wheel design.

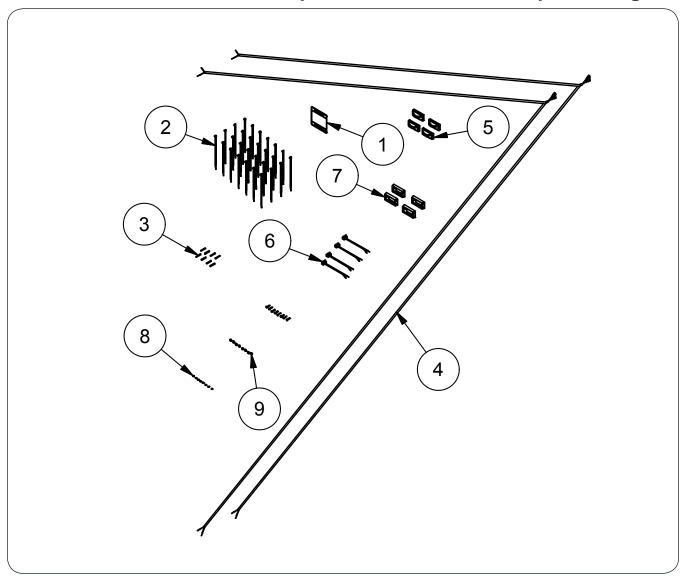
Fender Components



Fender Components

ITEM	DESCRIPTION	PART NO.	QTY	NOTES
	Standard Tire Fender Kit =Black=	301086B	1	
1	Back Fender Plate =Black=	220725B	2	
2	Film, Paint Protection	220890	1	
3	Front Fender	221259	2	
4	Rear Fender	221260	2	
5	Fender Plate Weldment =Black=	300618B	4	
6	Fender Bar Mount =Black=	300620B	2	
7	Fender Bracket, Right-Hand =Black=	300644B	1	
8	Fender Bracket, Left-Hand =Black=	300645B	1	
9	Fender Tube Mount =Black=	300671B	1	
10	Fender Plate Mount =Black=	300672B	2	
11	Plastic Square Plug	9001645	2	
12	Rubber Mud Flap	9001691	4	
13	Fender Washer, 3/8	9005696	24	
14	U-Bolt, 3/8-16UNC x 2.25	91163	4	
15	Flange Screw, 3/8-16UNC x 1 Gr.5	91262	4	
16	Large Flange Nut, 3/8-16UNC Gr.5	91263	16	
17	Flange Nut, 1/2-13UNC	91267	12	
18	Carriage Bolt, 3/8-16UNC x 1 1/2 Gr.5	9388-053	4	
19	Capscrew, 3/8-16UNC x 1 Gr.5	9390-055	4	
20	Capscrew, 3/8-16UNC x 2 Gr.5	9390-059	12	
21	Capscrew, 3/8-16UNC x 2 1/2 Gr.5	9390-061	4	
22	Capscrew, 1/2-13UNC x 1 3/4 Gr.5	9390-102	12	
23	Flat Washer, 3/8	9405-076	12	
24	Lock Nut, 3/8-16UNC Gr.5	9928	20	

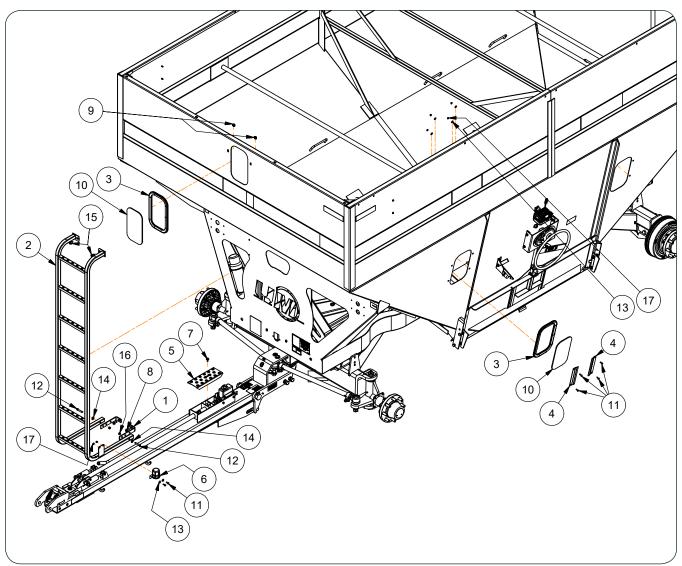
Fender Light Components



Fender Light Components

ITEM	DESCRIPTION	PART NO.	QTY	NOTES
1	Decal, Important Instructions	251027	1	
2	Cable Tie, 6" Long	9000106	28	
3	Butt Connector, 14-16 GA.	9000166	8	
4	Fender Light Harness	9006184	2	
5	Amber LED Light	9006333	4	
6	Pigtail Harness	9006334	4	
7	Bezel Light Mount	9006335	4	
8	Split Lock Washer, #8(.164)	9404-011	8	
9	Hex Nut, #8-32UNC Gr.2	9830-015	8	

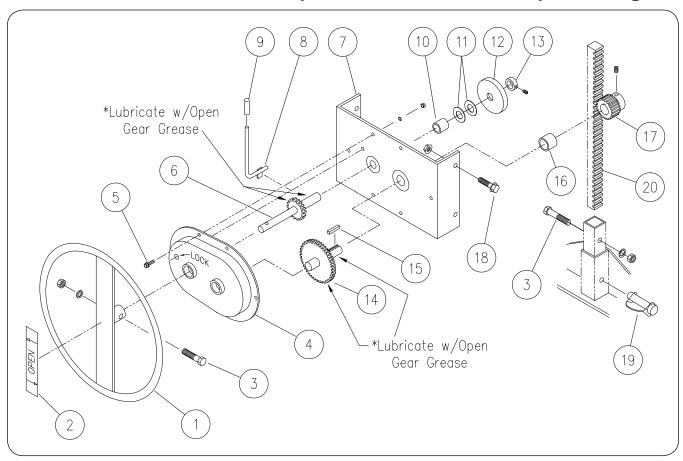
Gravity Box



Gravity Box

ITEM	DESCRIPTION	PART NO.	QTY	NOTES
1	Ladder Bracket =Black=	220288B	2	
2	Ladder Weldment, 81" Long =Black=	220291B	1	
3	Window Molding	271951	4	
4	Window Bracket =Black=	250461B	4	
5	Step Weldment =Black=	301207B	1	
6	Trailer Connector Holder	9001968	1	
7	Flange Screw, 5/16"-18UNC x 3/4" G5	91256	1	
8	Flange Screw, 3/8"-16UNC x 1" G5	91262	2	
9	Large Flange Nut, 3/8"-16UNC	91263	6	
	Window	92403	4	
10	Window Retro-Fit Kit	220512	-	Includes Window & Items 3, 4, 11, 13, 17
11	Capscrew, 1/4"-20UNC x 3/4" G5	9390-003	10	
12	Capscrew, 3/8"-16UNC x 2" G5	9390-059	2	
13	Flat Washer, 1/4"	9405-064	10	
14	Flat Washer, 3/8"	9405-076	2	
15	Large Flange Capscrew, 3/8"-16UNC x 3/4" G5	95585	4	
16	Locknut, 3/8"-16UNC G5	9928	2	
17	Locknut, 1/4"-20UNC G5	9936	10	

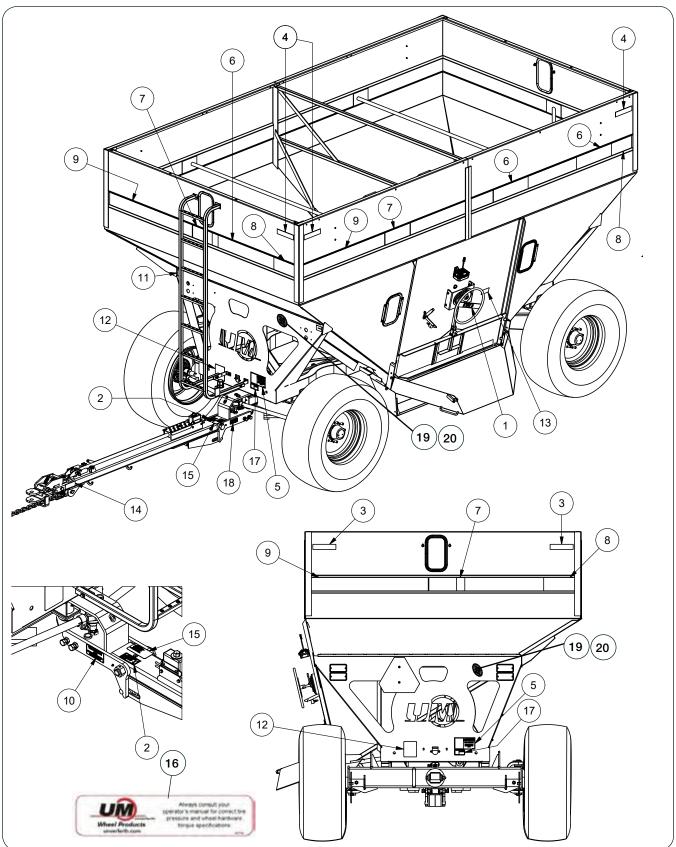
Door Wheel with Gear Reduction



Door Wheel with Gear Reduction

ITEM	DESCRIPTION	PART NO.	QTY	NOTES
	Door Wheel w/Gear Reduction	220800	1	Incl. Items 1 Thru 18
1	Door Wheel Assembly	220060B	1	
2	Decal, Open	9001898	1	
	Capscrew, 3/8"-16UNC x 2"	9390-059	2	
3	Lock Washer, 3/8	9404-021	2	
	Hex Nut, 3/8"-16UNC	9394-006	2	
4	Front Cover	9001699	1	
	Flange Screw, 1/4"-20UNC x 3/4"	9001869	6	
5	Lock Washer, 1/4"	9404-017	6	
	Hex Nut, 1/4"-20UNC	9394-002	6	
6	Input Shaft / Gear	220773	1	*Lubricate w/Open Gear Grease
7	Gear Box Plate Weldment	220822	1	
8	Gear Lock	220768	1	
9	Grip, Caplug	9001803	1	
10	Bushing, 1 x 3/4 x 1	94928	1	Apply liquid thread locker to bronze bushing OD & press into mounting plate bracket
11	Flat Washer, 3/4" SAE	9405-104	2	
12	Plastic Roller	9001879	1	
13	Locking Collar, 3/4"	9001868	1	
14	Output Shaft / Gear	220774	1	*Lubricate w/Open Gear Grease
15	Key, 1/4 x 1/4 x 1 5/8	800713	1	
16	Bushing, 1-1/4 x 1 x 1	94930	1	Apply liquid thread locker to bronze bushing OD & press into mounting plate bracket
17	Spur Gear w/Setscrew	9001809	1	20 Tooth
18	Flange Screw, 3/8"-16UNC x 3/4"	95585	4	
10	Flange Nut, 3/8"-16UNC	91263	4	
19	Lynch Pin, 3/8" Dia. x 2 1/4"	9000938	1	
20	Gear Door Rack	220033B	1	

Decals



Decals

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

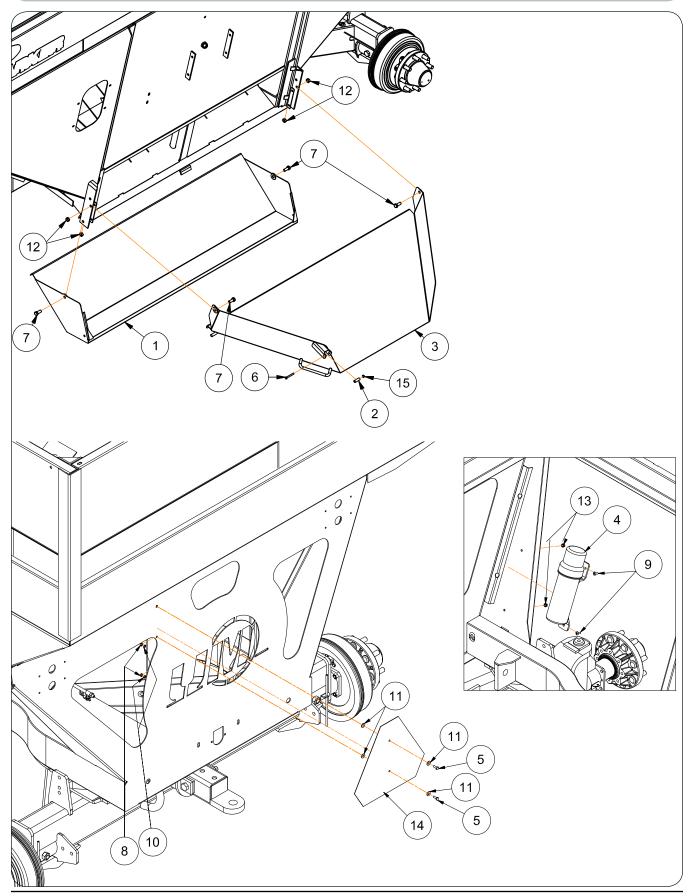
ITEM	DESCRIPTION	PART NO.	QTY	NOTES
1	Decal, Door Open	9001898	1	
2	Decal, Tongue Pivot	9002187	1	
3	Red Reflector - 2 x 9	9003126	2	
4	Amber Reflector - 2 x 9	9003127	5	
5	Decal, WARNING (No Riders)	9003476	1	
6	Decal, Fade Stripe	9004035	8	
7	Decal, Unverferth Tail Swoosh	9004213	4	
8	Decal, 530	9004258	4	
9	Decal, Unverferth	9004298	4	
10	Decal, Tire Pressure	9006724	1	
11	Decal, FEMA	91605	1	
12	Decal, DANGER (Just for Kids)	97603	1	
13	Decal, WARNING (Read and Understand)	97961	1	
14	Decal, CAUTION (Transport Chain)	97575	1	
15	Decal, WARNING (High-Pressure Fluid)	95445	1	
16	Decal, UM Wheel Systems	94754	1	
17	Decal, CAUTION "Slippery Surface"	95008	2	
18	Decal, Grease, Tie-Rod	9008321	1	
19	Decal, Rear SIS 20 MPH	9008714	2	
20	Decal, Rear SIS 20 KPH	9008720	2	

Touch-Up Paint

PAINT	SPRAY
Black	97017
Green	97015
Red	97301
Primer, Gray	9500166



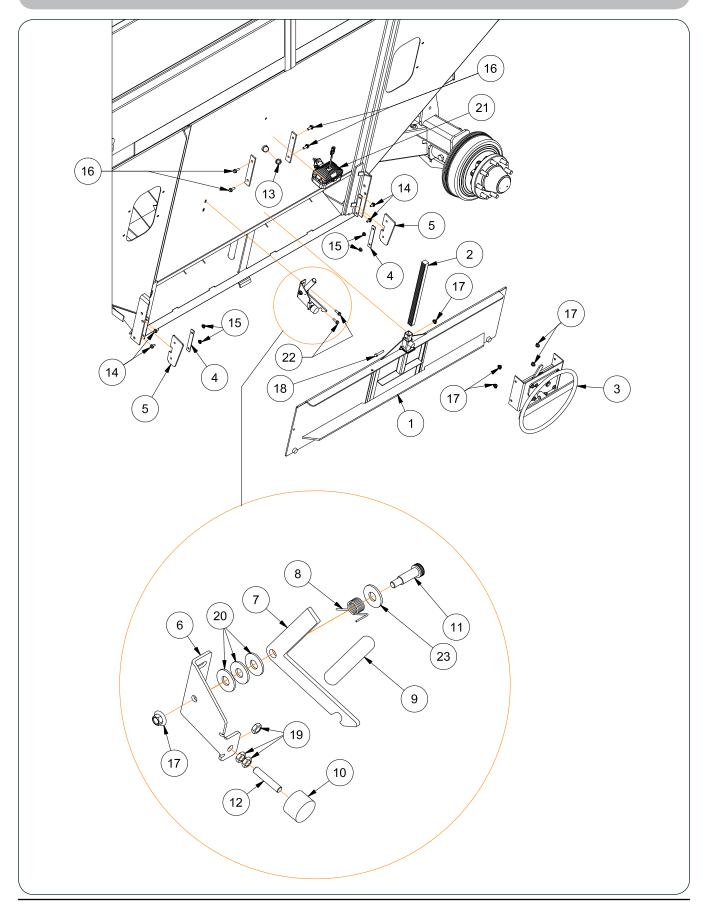
Kick Back Chute and SMV Components



Kick Back Chute and SMV Components

ITEM	DESCRIPTION	PART NO.	QTY	NOTES
1	Kick Back Chute Weldment =Black=	222180B	1	
2	Latch Bushing	301081	1	
3	Chute Weldment =Black=	301082B	1	
4	Manual Holder	900552	1	
5	Capscrew, 1/4-20UNC x 3/4 Gr.5	9390-003	4	
6	Capscrew, 1/4-20UNC x 2 1/4 Gr.5	9390-010	1	
7	Capscrew, 1/2-13UNC x 1 1/4 Gr.5	9390-100	4	
8	Hex Nut, 1/4-20UNC Gr.5	9394-002	2	
9	Phillips Head Machine Screw, 1/4-20UNC x 3/4	903174-535	2	
10	Lock Washer, 1/4	9404-017	2	
11	Flat Washer, 1/4	9405-064	6	
12	Center Locknut, 1/2-13UNC	94981	4	
13	Large Flange Hex Nut, 1/4-20UNC Gr.5	97189	2	
14	SMV Emblem	9829	1	
15	Locknut, 1/4-20UNC Gr.5	9936	3	

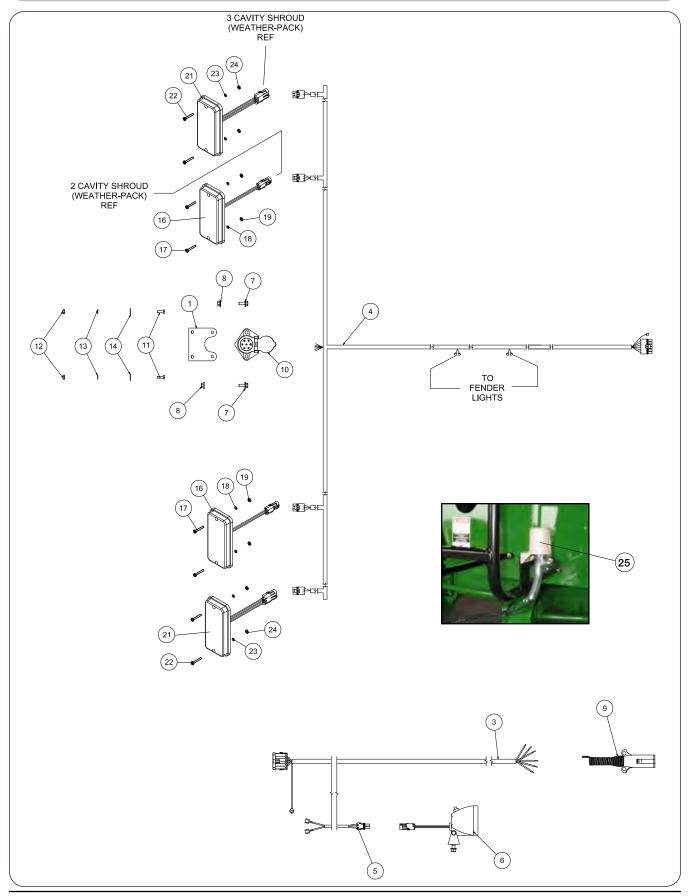
Chute and Latch Components



Chute and Latch Components

ITEM	DESCRIPTION	PART NO.	QTY	NOTES
1	Door Weldment =Black=	220020B	1	
2	Door Rack Bar =Black=	220033B	1	
3	Door Lift Assembly	220800	1	Refer to "Door Wheel with Gear Reduction" in this Section for Parts
4	Deflector Plate =Black=	273687B	2	
5	Deflector	301035	2	
6	Latch Bracket =Black=	301077B	1	
7	Latch Arm Plate =Black=	301079B	1	
8	Torsion Spring	9003053	1	
9	Handle Grip	9006337	1	
10	Rubber Bumper	9006745	1	
11	Shoulder Bolt, 1/2 x 1 1/4	9006746	1	
12	Rod	9006747	1	
13	Snap Bushing, 1"	9006826	1	
14	Flange Screw, 5/16-18UNC x 3/4 Gr.5	91256	4	
15	Large Flange Hex Nut, 5/16-18UNC Gr.5	91257	6	
16	Large Flange Hex Screw, 3/8-16UNC x 1 Gr.5	91262	4	
17	Large Flange Nut, 3/8-16UNC Gr.5	91263	6	
18	Capscrew, 3/8-16UNC x 2 Gr.5	9390-059	1	
19	Hex Jam Nut, 3/8-16UNC Gr.5	9395-006	3	
20	Flat Washer, 1/2 SAE	9405-086	3	
21	Work Light w/Switch	9500801	1	
22	Large Flange Hex Screw, 5/16-18UNC x 1 Gr.5	97604	2	
23	Flat Washer, 1/2 USS	9405-088	1	

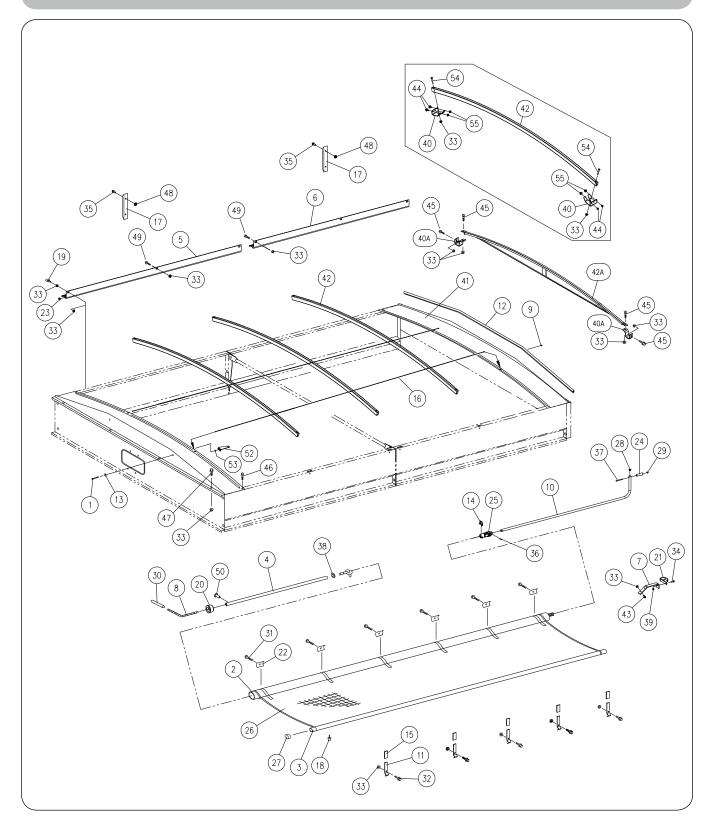
Electrical Components



Electrical Components

ITI	EM	DESCRIPTION	PART NO.	QTY.	NOTES	
1		Bracket - Socket	221527B	1		
3		Wire Harness 218"	9003250	1		
4		Harness - Rear, Wagon	9006699	1		
5		Harness - Chute	9006330	1		
6		Light Assembly	9500801	1		
7		Large Flange Screw, 5/16-18UNC x 3/4 Gr.5	91256	2		
8		Large Flange Nut, 5/16-18UNC Gr.5	91257	2		
9		7-Way Plug	92450	1		
1	0	Socket 7-Way w/ Split Pins	92824	1		
1	1	Capscrew, 1/4-20UNC x 3/4 Gr.5	9390-003	2		
1	2	Hex Nut, 1/4-20UNC Gr.5	9394-002	2		
1	3	Lock Washer, 1/4	9404-017	2		
1	4	Flat Washer, 1/4 USS	9405-064	2		
1	5	LED Light Conversion Kit (Amber)	232168	2		
	16	Tail Light, LED Amber (2-Cavity Shroud)	9006281	1		
	17	Pan Head Machine Screw, #10-32UNF x 1 1/4	903172-350	2		
	18	Lockwasher, #10	9404-013	2		
	19	Nut, #10-32UNF	9830-016	2		
2	20	LED Light Conversion Kit (Red)	232170	2		
	21	Tail Light, LED Red (3-Cavity Shroud)	9006282	1		
	22	Pan Head Machine Screw, #10-32UNF x 1 1/4	903172-350	2		
	23	Lockwasher, #10	9404-013	2		
	24	Nut, #10-32UNF	9830-016	2		
25		Connector Holder	9001968	1		

Weather Guard Tarp Components - Optional



Weather Guard Tarp Components - Optional

ITEM	PART NO.	DESCRIPTION	QTY	NOTES
1	TA0-907131-0	Capscrew, 3/8-16UNC x 4 1/2	3	Grade 5
2	221577	Roll Tube Weldment	1	
3	221580	Fixed Tube Weldment	1	
4	221582	Pipe - 132"	1	
5	221780	Plate - Latch 90" (Front)	1	
6	221781	Plate - Latch 90" (Rear)	1	
7	220579B	Tube Crank Holder Weldment	1	
8	221721	Bungee Cord 3/8" Dia. x 156"	1	
9	9005727	Plug, 7/16	5	
10	221748	Tarp Handle Weldment	1	
11	266689B	Tarp Short Stop Plate	3	
12	9000787	Trim-lok	A/R	
13	9005696	Fender Washer, 3/8"	3	
14	9005305	Lynch Pin 3/8" x 3"	1	
15	9003078	Cap - Plastic (2 x 3)	5	
16	9005708	Cable Assembly, 162"	3	
17	9005307	Deflector	2	
18	9003378	Rivet/Pop 3/16"	2	
19	9004548	Eye Bolt 3/8-16UNC x 1 3/4	1	
20	9004947	Plug 2"	1	
21	221770B	Handle Retainer (Metal)	1	
22	9004949	U-Clamp	6	
23	9004968	Plug 1"	2	
24	9004969	Handle	1 1	
25	9004977	U-Joint w/ 1 3/8-21 Spline	1	
26	9004955	Tarp 130 x 174	1	
27	9005088	Plug 1 1/8 Plug 1 1/4	2	
28	9005089	Elastic Stop Nut 3/8-16UNC	1	
29 30	9398-012 TA806225	Hose 1/2 EPDM	1 1	
31	9005197	Screw/Self Drilling #10-16 x 3/4 Pan Head	6	
32	91262	Screw/Large Flange 3/8-16UNC x 1	5	Grade 5
33	91263	Nut/Large Flange 3/8-16UNC	29	Grade 5
34	9390-055	Capscrew 3/8-16UNC x 1	1	Grade 5
35	9004355	Screw 1/4-20UNC x 1 (Self-Threading)	4	arado o
36	9392-180	Roll Pin 3/8" Dia. x 2"	1	
37	903172-450	Round Head 3/8-16UNC x 4 1/2 Phillips Machine Screw	1	
38	9405-074	Flat Washer 3/8	1	
39	9928	Locknut 3/8-16UNC	1	
40	283425B	Dunglish Fay Cide Decade/Town Day Maldynaut		Serial Number B37690100 & Up
40A	300977B	Bracket For Side Boards/Tarp Bow Weldment	6	Prior to Serial Number B37690100
41	300494B	End Cap Weldment (Front & Rear)	1	
42	301208B	Tarp Bow Weldment	3	Serail Number B37690100 & Up
42A	301210B	Tarp bow weldinent	٥	Prior to Serial Number B37690100
43	96972	Capscrew 3/8-16UNC x 1 (Self-Tapping)	2	Grade 5
44	91256	Large Flange Screw 5/16"-18UNC x 3/4"	12	Serial Number B37690100 & Up
45	9388-051	Carriage Bolt 3/8-16UNC x 1	8	Grade 5
46	9512	Screw/Self Drilling 1/4-14 x 1 Hex Washer Head	4	
47	95585	Capscrew/Large Flange 3/8-16UNC x 3/4	8	Grade 5
48	97189	Hex Nut/Large Flange 1/4-20UNC	4	
49	9005312	Truss Screw 3/8-16UNC x 1 Torx Head Machine Screw	4	Grade 5
50	9001396	Self Drilling Screw #10-16 x 1/2	1	
51	9005581	Tarp Repair Kit	1	Not Shown
52	281712B	Bracket & U-Nut Assembly	3	
53	9005688	Lock Washer, 3/8" External Tooth	3	
54	902703-046	Countersunk Capscrew 3/8"-16UNC x 3"	6	Serial Number B37690100 & Up
55	91257	Large Flange Nut 5/16"-18UNC	12	



