

Grain Handling

AVALANCHE® DOUBLE-AUGER GRAIN CART MODEL 2596

Serial Number B38650100 & Higher

Part No. 276464

Brent 2596 — 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.



Product Information

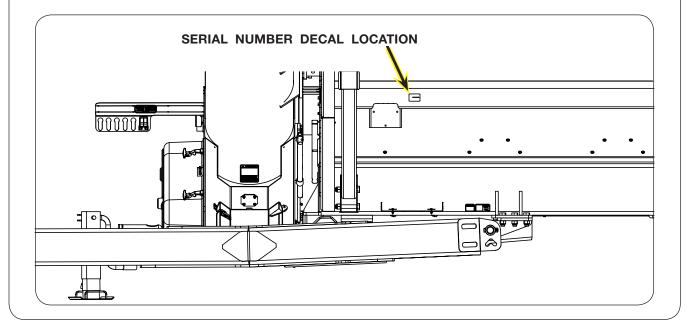
When ordering parts or when requesting further information or assistance, always give the following information:

- 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. The serial number decal is located at the left-front corner of your grain cart.

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



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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Section I

Safety

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General Hazard Information

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

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

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

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



REMEMBER:

THINK SAFETY A CAREFUL OPERATOR IS THE BEST INSURANCE AGAINST AN ACCIDENT!

SIGNAL WORDS



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

A WARNING

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



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

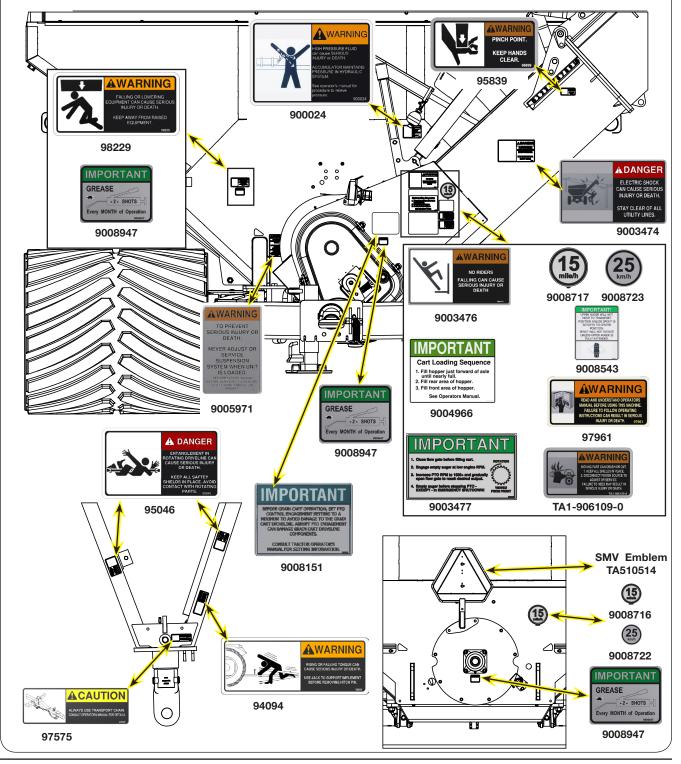
IMPORTANT

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

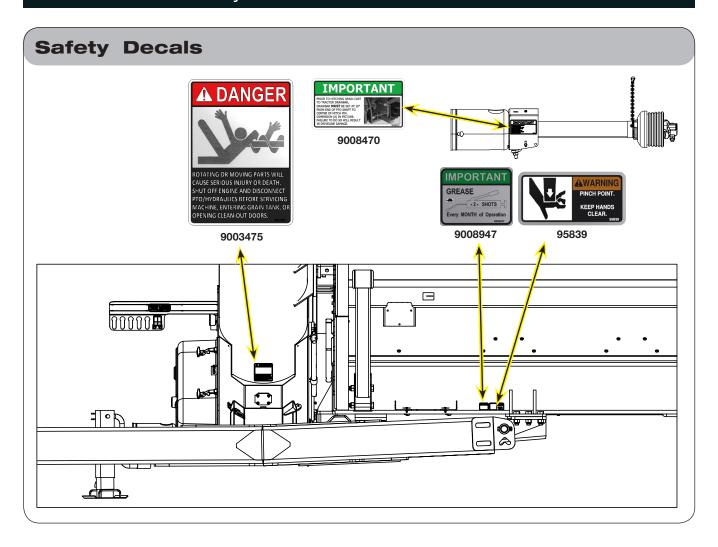
Safety Decals

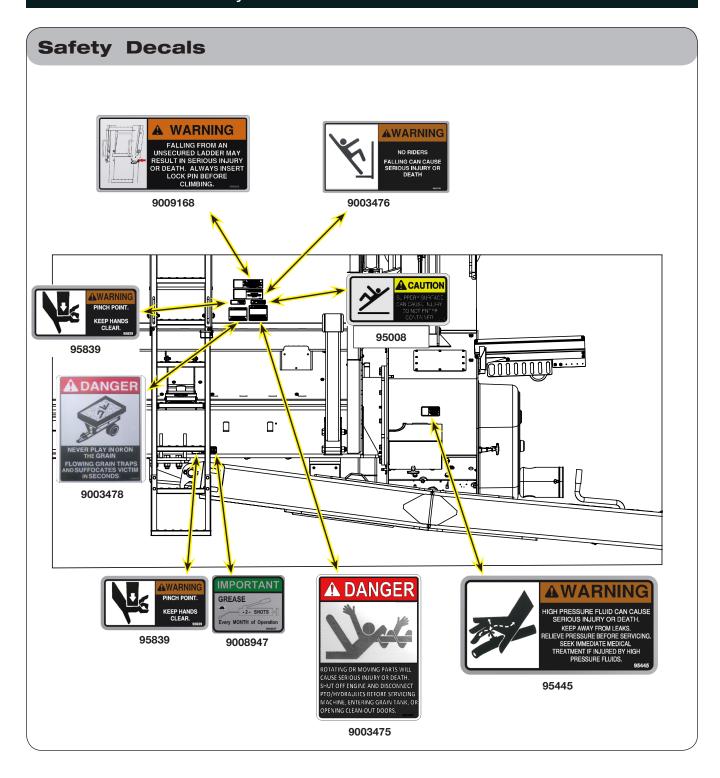
A WARNING

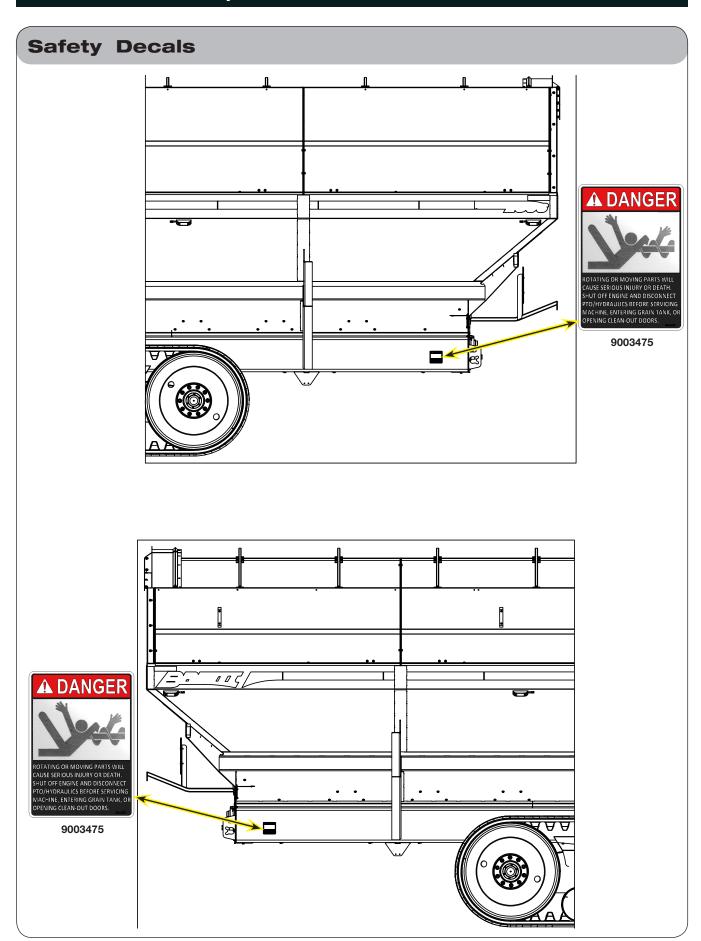
 REPLACE LOST, DAMAGED, PAINTED, OR UNREADABLE DECALS IMMEDIATELY. IF PARTS THAT HAVE DECALS ARE REPLACED, ALSO MAKE SURE TO INSTALL NEW DECALS. THESE DECALS INFORM AND REMIND THE OPERATOR WITH OPERATIONAL INFORMATION AND SAFETY MESSAGES.



Brent 2596 — Safety







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 tractor engine off and remove key before servicing.



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



- Never attempt to operate implement unless you are in the driver's seat.
- Never enter a cart containing grain. Flowing grain traps and suffocates victims in seconds.



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.
- When working around the implement, be careful not to be cut by sharp edges.
- Secure drawbar pin with safety latch and lock tractor drawbar in fixed position.
- Add sufficient ballast to tractor to maintain steering and braking control at all times. Do not exceed tractor's lift capacity or ballast capacity.

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.
- When working around the implement, be careful not to be cut by sharp edges.
- To prevent personal injury or death, always ensure that there are people who remain outside the cart to assist the person working inside, and that all safe workplace practices are followed. There are restricted mobility and limited exit paths when working inside the implement.
- Secure drawbar pin with safety lock and lock tractor drawbar in fixed position.
- 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 unattended with engine running.

Before Transporting

- Secure transport chain to towing vehicle before transporting. DO NOT transport without chain.
- 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 and SIS decals are visible to approaching traffic.
- This implement is not equipped with brakes. Ensure that the towing vehicle has adequate weight and braking capacity to tow this unit.

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 15 m.p.h. 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 m.p.h. during off-highway travel.
- Slow down before making sharp turns to avoid tipping. Drive slowly over rough ground and side slopes.
- Do not transport grain cart on roads while loaded.
- 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.

Driveline Safety

Do not allow children near equipment that is running or engaged.



- Do not exceed 1000 r.p.m. PTO speed.
- Disengage the PTO, stop the tractor engine, and remove key from ignition before making inspections, or performing maintenance and repairs.
- Inspect the driveline, quick disconnect, overload shear-bolt limiter or clutch, and shielding often. Repair immediately. Use replacement parts and attaching hardware equivalent to the original equipment. Only alterations described in this manual for overall length adjustment are allowed. Any other alteration is prohibited.
- Avoid excessively long hardware or exposed and protruding parts which can snag and cause entanglement.
- Lubricate the driveline as recommended in the MAINTENANCE section.
- Keep hoses, wiring, ropes, etc. from dangling too close to the driveline.
- Install driveline and shields according to recommended lengths and attaching methods with recommended hardware. The driveline shield should rotate independently a full rotation and telescope freely. The retaining chain must be secured to the implement safety shield.
- Adjust drawbar to height and length recommended in the OPERATION section.
- Use caution when turning to avoid contact between tractor tires and driveline.
- Check the length of the telescoping members to insure the driveline will not bottom out or separate when turning and/or going over rough terrain.
- Proper extended and collapsed lengths of the telescoping PTO shaft must be verified before first
 operation with each and every tractor. If the extended length of the PTO shaft is insufficient, it may
 become uncoupled during operation and cause serious injury or death from contact with uncontrolled flailing of PTO shaft assembly components.

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. Use cardboard or wood to detect leaks in the hydraulic system. Seek medical treatment immediately if injured by high-pressure fluids.



- Accumulators used in this hydraulic system can retain fluid under pressure even after tractor hydraulic valve is placed in FLOAT. See tractor operators manual for procedure to relieve pressure.
- Hydraulic system must be purged of air before operating to prevent serious injury or death.
- Do not bend or strike high-pressure lines. Do not install bent or damaged tubes or hoses.
- Repair all oil leaks. Leaks can cause fires, personal injury, and environmental damage.
- Route hoses and lines carefully to prevent premature failure due to kinking and rubbing against other parts. Make sure that all clamps, guards and shields are installed correctly.
- Check hydraulic hoses and tubes carefully. Replace components as necessary if any of the following conditions are found:
 - End fittings damaged, displaced, or leaking.
 - 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

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| Video System Set Up (Optional) | |
| , | |

Set Up Checklist

| After the cart has been completely assembled, use the following checklist and inspect the cart. Check off each item as it is found satisfactory or after proper adjustment is made. |
|---|
| ☐ Set or Calibrate tractor PTO control engagement to MINIMUM setting. Refer to tractor operator's manual for setting information. |
| ☐ Remove auger spout cylinder stop. |
| ☐ Verify track has been aligned and is properly conditioned. (If applicable) |
| ☐ Lubricate all grease fittings and check gearbox oil level. |
| ☐ Inspect cleanout door assembly for play or movement, refer to "Vertical & Horizontal Clean-Out Door Operation" in the OPERATION section. |
| □ Verify all safety decals are correctly located and legible. Replace if damaged. |
| ☐ Verify all reflective decals are correctly located. |
| ☐ Check SMV decal and SIS decals are in place, clean and visible. |
| ☐ Verify transport lights are working properly. |
| □ Verify PTO length, see "Verify Telescoping PTO Shaft Length" in MAINTENANCE section. |
| ☐ Align and properly tension belts/chains. See "Belt Tightener Adjustment" and "V-Belt Alignment" in MAINTENANCE section. |
| ☐ Ensure safety screens over horizontal auger are in place and properly secured. |
| ☐ Install transport chains and torque hardware to specification. See "Transport Chain Connection" in OPERATION section. |
| ☐ Paint all parts scratched in shipment. |
| ☐ Test run the augers. See "Auger Operation" in OPERATION section. |

Basic Cart Set Up

A WARNING

- TO PREVENT PERSONAL INJURY OR DEATH, ALWAYS ENSURE THAT THERE ARE PEOPLE
 WHO REMAIN OUTSIDE THE CART TO ASSIST THE PERSON WORKING INSIDE AND THAT
 ALL SAFE WORKPLACE PRACTICES ARE FOLLOWED. THERE ARE RESTRICTED MOBILITY
 AND LIMITED EXIT PATHS WHEN WORKING INSIDE THE IMPLEMENT.
- 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.
- RELIEVE THE HYDRAULIC SYSTEM OF ALL PRESSURE BEFORE ADJUSTING OR SERVICING.
 SEE THE HYDRAULIC POWER UNIT OPERATOR'S MANUAL FOR PROPER PROCEDURES.
- HYDRAULIC SYSTEM MUST BE PURGED OF AIR BEFORE OPERATING TO PREVENT SERI-OUS INJURY OR DEATH.
- MOVING OR ROTATING COMPONENTS CAN CAUSE SERIOUS INJURY OR DEATH. ENSURE SERVICE COVERS, CHAIN/BELT COVERS AND CLEAN-OUT DOOR ARE IN PLACE AND SE-CURELY FASTENED BEFORE OPERATING UNIT.
- UNHITCHING A LOADED CART CAN CAUSE SERIOUS INJURY OR DEATH DUE TO THE TONGUE RISING OR FALLING. ALWAYS HAVE A LOADED CART ATTACHED TO A TRAC-TOR. THE JACK IS INTENDED TO SUPPORT AN EMPTY CART ONLY.
- 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.



Due to shipping requirements and various dealer installed options, some initial cart setup will be required after it arrives from the factory. Use the following procedures as needed for initial cart setup.



Auger Spout Cylinder Stop Removal

Remove and discard the stop on the spout tilt cylinder at the front of the cart, before operating the spout. (FIG. 2-1 & 2-2)

IMPORTANT

Cylinder stop must be removed before operating the auger spout. Failure to remove stop will
result in damage to the cylinder and spout.





Hydraulic System

Check all hoses and cylinders for signs of leakage. Hoses should not be kinked, twisted or rubbing against sharp edges. Re-route or repair hoses as necessary. Refer to SAFETY section for additional information on safe repair and inspection of hydraulic components.

Track Set Up

Track Nuts



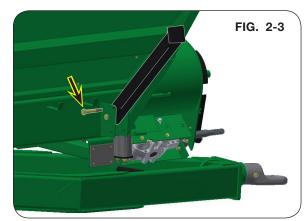
 IMPROPERLY TORQUED WHEEL NUTS/BOLTS CAN CAUSE A LOSS OF IMPLEMENT CONTROL AND MACHINE DAMAGE. WHEEL NUTS/BOLTS MUST BE CHECKED REGU-LARLY. SEE TORQUE PAGE IN THE "MAINTENANCE" SECTION FOR PROPER WHEEL NUT/BOLT SPECIFICATIONS. WARRANTY DOES NOT COVER FAILURES CAUSED BY IMPROPERLY TORQUED WHEEL NUTS/BOLTS.

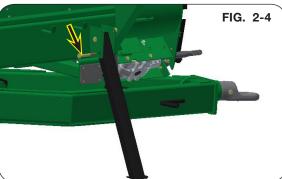
IMPORTANT

• The horizontal cleanout door lynch pin (9005305) is shipped in the toolbox and grain cart tongue is in transport position from the factory. Closing the horizontal cleanout doors with the tongue in transport position will cause damage to cleanout doors and components.

Repositioning Tongue

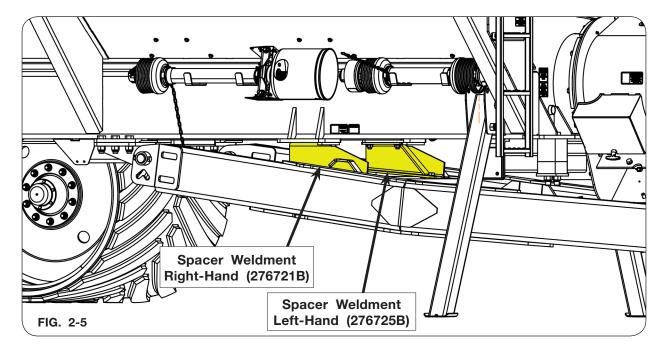
- 1. Using a safe lifting device rated at a minimum of 7,000 lbs., raise the front of the cart.
- 2. Remove and save the 1"-8UNC x 6" capscrew (9390-195) and 1"-8UNC elastic locknut (9398-026) (FIG. 2-3). Rotate the support stand weldment (276748B) down. Reinstall the 1"-8UNC x 6" capscrew (9390-195) and 1"-8UNC elastic locknut (9398-026) (FIG. 2-4). Repeat process on the opposite side of the grain cart.



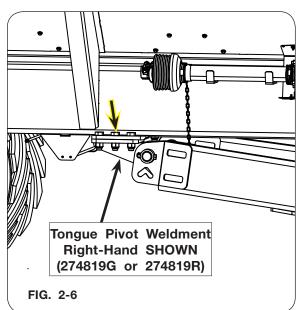




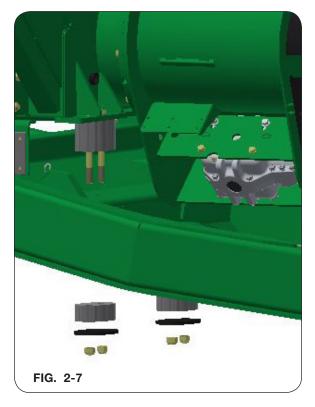
- 3. Use stands rated for a minimum of 2,000 lbs. to support the tongue.
- 4. Remove and discard the 3/4"-10UNC locknuts (9003399), 3/4" SAE flat washers (9405-104), 3/4"-10UNC x 2 1/4" capscrews (9390-146), and spacer weldments (left-hand 276725B and right-hand 276721B) from the tongue weldment. (FIG. 2-5)



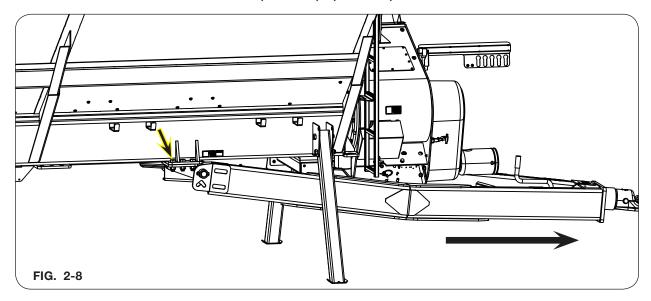
5. Remove and save the 1"-14UNS x 3" capscrews (9390-409) and 1"-14UNS elastic lock nuts (9008441) from the tongue pivot weldments (left-hand 274818G or 274818R; right-hand 274819G or 274819R). (FIG. 2-6)



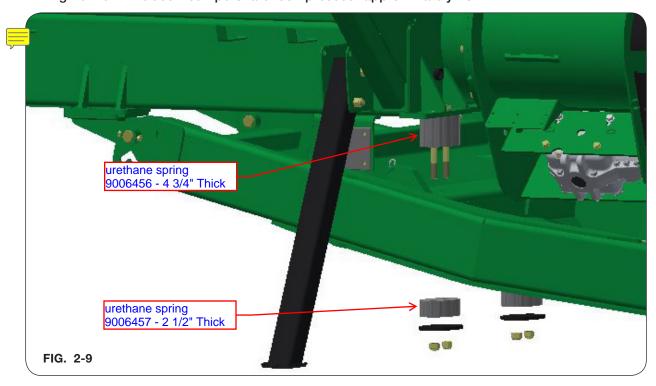
Remove and save the 1"-8UNC x 10 1/2" capscrews (9390-465), spring retainer plates (271687B), both urethane springs (9006456 and 9006457), and 1"-8UNC elastic lock nuts (9398-026). (FIG. 2-7)



- 7. Using a safe lifting device rated at a minimum of 2,000 lbs., slide the tongue weldment forward until the holes in the tongue pivot weldments align with the holes in the grain cart. (FIG. 2-8)
- 8. Secure the tongue pivot weldment to the cart with 1"-14UNS x 3" capscrews (9390-409) and 1"-14UNS elastic lock nuts (9008441). (FIG. 2-8)



9. Place the urethane springs (9006456), and spring retainer plates (271687B) under the tongue weldment and secure to the grain cart with urethane springs (9006457) 1"-8UNC x 10 1/2" capscrews (9390-465) and 1"-8UNC elastic lock nuts (9398-026) (FIG. 2-9). Tighten until rubber bumpers are compressed approximately 1/4".

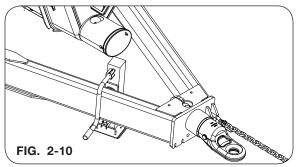


10. STANDARD JACKSTAND

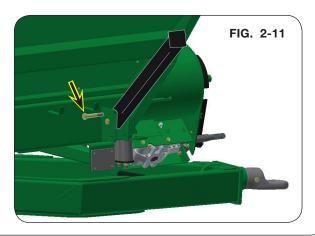
Rotate and lower the grain cart jackstand. (FIG. 2-10)

HYDRAULIC JACK OPTION

Use the tractor hydraulics to lower the jackstand.



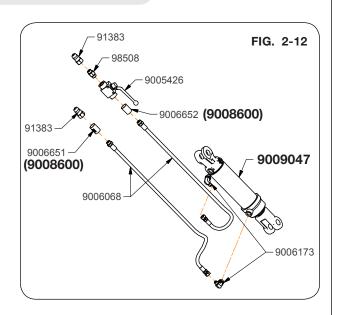
- 11. Remove the 1"-8UNC x 6" capscrew (9390-195) and 1"-8UNC elastic locknut (9398-026). Rotate the support stand weldment (276748B) up. Reinstall the 1"-8UNC x 6" capscrew (9390-195) and 1"-8UNC elastic locknut (9398-026). Repeat process on the opposite side of the grain cart. (FIG. 2-11)
- 12. Lower grain cart onto jackstand.



Optional Hydraulic Jack

 Assemble hoses (9006068) and fittings to cylinder (9009047) as shown in FIG. 2-12. The valve needs to be assembled to the hose on the base end of the cylinder. Assemble the fittings on the cylinder so they face each other, then store the hydraulic hoses on the hose caddy.

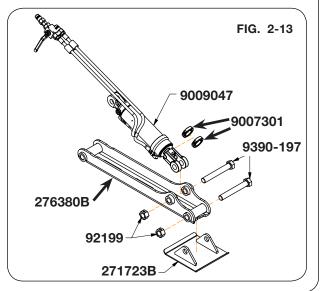
NOTE: For units SN B40240100 and higher, sleeve hose markers - raise and lower jack (9006651 and 9006652) are replaced with hose grips - black - raise and lower jack (9008600 Qty. 2)



- 2. Attach shaft collars (9007301) to the rod end of the cylinder as shown in FIG. 2-13.
- Assemble the cylinder (9009047) and jack foot (271723B) to the jack leg weldment (276380B) as shown in FIG. 2-13 using 1"-8UNC x 7" capscrew (9390-197) and 1"-8UNC locknut (92199).

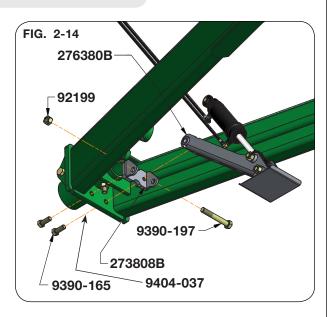
NOTE: Ensure all jack leg weldment (276380B) joints can pivot freely, especially jack foot (271723B).

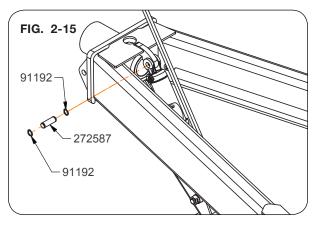
4. Tighten 1" hardware to jack leg weldment. (FIG. 2-13)



Optional Hydraulic Jack (continued)

- Mounting bracket (273808B) must be attached to the jack leg weldment (276380B) using 1"-8UNC x 7" capscrew (9390-197) and 1"-8UNC locknut (92199), before mounting to the tongue of the cart. (FIG. 2-14)
- 6. Tighten 1" hardware to jack leg weldment and allow the joint to pivot. (FIG. 2-14)
- 7. Then attach the mounting bracket (273808B) to the back side of the front hitch plate with two 7/8"-9UNC x 2 1/4" capscrews (9390-165) and 7/8" lock washers (9404-037). See FIG. 2-14.
- 8. Torque 7/8" hardware to 330 ft.-lbs. (FIG. 2-14)
- 9. Align the base end of the cylinder with the lug on the top of the tongue and assemble the cylinder pin (272587) and snap rings (91192) shown in FIG. 2-15.
- 10. Cycle the hydraulic cylinder several times to ensure that the air is purged from the cylinder.

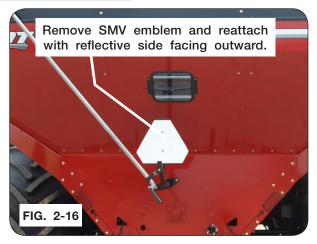




SMV Emblem & SIS Decal

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. (FIG. 2-16)



For the SIS decals (one on the front and one on the rear of the cart) make sure both decals are clean and visible. (FIG. 2-17)

For front and rear M.P.H. SIS decals, order 9008717 & 9008716.

For front and rear K.P.H. SIS decals, order 9008723 & 9008722.



Driveline Set Up

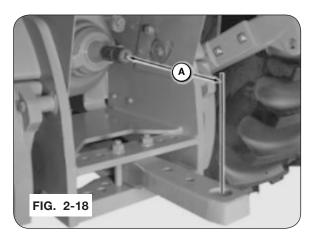
DANGER

ENTANGLEMENT WITH THE DRIVELINE WILL CAUSE SERIOUS INJURY OR DEATH.
KEEP ALL GUARDS AND SHIELDS IN GOOD CONDITION AND PROPERLY INSTALLED
AT ALL TIMES. AVOID PERSONAL ATTIRE SUCH AS LOOSE FITTING CLOTHING, SHOE
STRINGS, DRAWSTRINGS, PANTS CUFFS, LONG HAIR, ETC. THAT CAN BECOME ENTANGLED IN A ROTATING DRIVELINE.

IMPORTANT

• Prior to hitching grain cart to tractor drawbar, drawbar MUST be set at 20" from end of PTO shaft to center of hitch pin. dimension (A) in picture. Failure to do so will result in driveline damage. (FIG. 2-18)

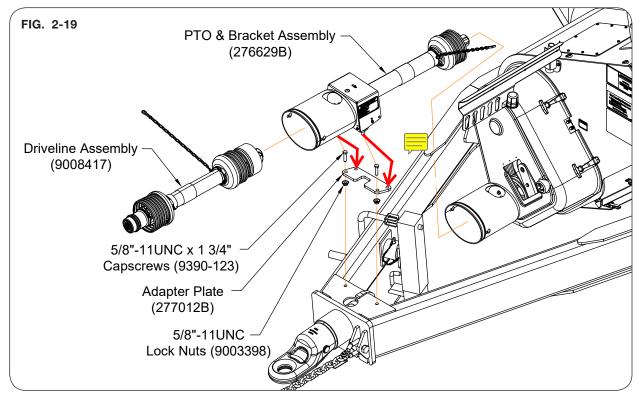
Clean and grease the implement gearbox splined shaft. Gearbox shaft guard has access doors for installing and removing of driveline.



Driveline Set Up (continued)

NOTE: Ensure mounting holes on the adapter plate (277012B) are offset to left-hand side of the tongue. (FIG. 2-19)

Attach the PTO and bracket assembly (276629B) yoke end to the implement gearbox splined shaft. Attach the other end to the adapter plate (277012B) bolted on the tongue weldment with capscrews and lock nuts. (FIG. 2-19)

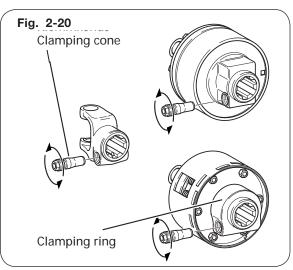


Engage the driveline assembly (9008417) cut-out clutch end onto the PTO and bracket assembly (276629B) splined shaft end until retaining groove of PTO and bracket shaft aligns with clamping cone hole. (FIG. 2-19)

Insert clamping cone into threaded hole, hand tighten. Torque cone to 75 ft.-lb. (FIG. 2-20)

NOTE: See MAINTENANCE section - PTO Quick Disconnect - for disassembly instructions.

Attach the anti-rotation chains on each driveline and verify that each of the shields can turn one revolution. (FIG. 2-19)



Horizontal Cleanout Door Inspection

A WARNING

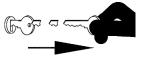
- MOVING OR ROTATING COMPONENTS CAN CAUSE SERIOUS INJURY OR DEATH. ENSURE SERVICE COVERS, CHAIN/BELT COVERS AND CLEANOUT DOORS ARE IN PLACE AND SECURELY FASTENED BEFORE OPERATING UNIT.
- KEEP HANDS CLEAR OF PINCH POINT AREAS.
- TIPPING OR MOVEMENT OF THE MACHINE CAN CAUSE SERIOUS INJURY OR DEATH. BE SURE THE MACHINE IS SECURELY BLOCKED.
- EYE PROTECTION AND OTHER APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT MUST BE WORN WHILE SERVICING THE IMPLEMENT.

NOTE: For cleanout door assembly operation, refer to "Vertical & Horizontal Cleanout Door Operation" in the OPERATION section.

NOTE: This procedure is a **two-person** process. One person operates the tensioner handle while the second person inspects the horizontal cleanout doors.

- Park the unit on a firm, level surface. Block the wheels/tracks on the machine to keep the unit from moving. Set the vehicle parking brake, shut off the engine and remove the ignition key.
- Use the tensioner handle, located on the left-hand side of the grain cart, behind the first panel to open and close the horizontal cleanout doors.
- Insert tensioner handle into cleanout door receiver coupler on the rear panel, and remove lynch pin from rockshaft. Keep lynch pin.
- 4. Rotate tensioner handle clockwise to open the doors. (Fig. 2-21 & 2-22)
- 5. Clean the door area of debris that may prevent the door from shutting completely. (Fig. 2-21 & 2-22)
- 6. Inspect the cleanout door and rockshaft for loose hardware. Do not torque hardware. (Fig. 2-21 & 2-22)

(Continued on next page.)





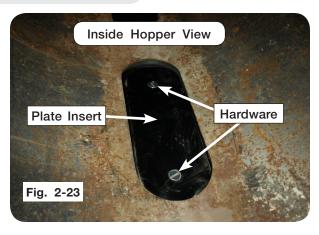


Horizontal Cleanout Door Inspection

- 7. If plate insert needs adjustment, loosen the two flat head machine screws holding the plate in position. (Fig. 2-23)
- 8. Ensure the plate inserts are aligned and fit into the belly pan cut-outs. (Fig. 2-23)
- NOTE: As the tensioner handle is rotated counter-clockwise near the end of the close position, the coiled springs will extend to apply pressure to cleanout doors. If the doors do not close or visual door perimeter gaps are present, adjust the front to rear rockshaft starting at step 9. If doors close, go to step 13.
- Loosen all the hardware in the slotted brackets connecting the cleanout door rockshaft to the grain cart tube. (Fig. 2-24)
- 10. Starting at the front of the cart, using a jack, push the rockshaft up and toward the runner tube. (Fig. 2-24)

NOTE: Ideal distance between the runner tube and rockshaft is 3 1/4".

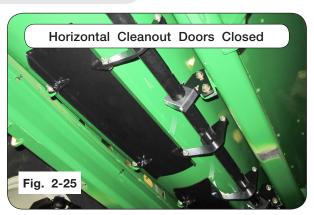
- 11. When the rockshaft is in position, torque the hardware previously loosened to 28 ft.-lbs.
- 12. Continue repositioning the rockshaft moving toward the back of the cart.

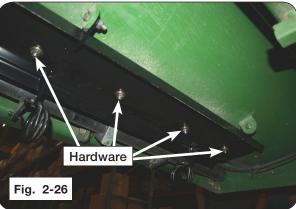




Horizontal Cleanout Door Inspection

- 13. Rotate the tensioner handle counter-clockwise to close the doors allowing the plate to fit and seal into the belly pan opening. (Fig. 2-25 & 2-26)
- 14. Open the doors and torque plate hardware to 17 ft.-lbs. (Fig. 2-26)
- 15. Close the doors and ensure all doors seal. (Fig. 2-26)
- 16. Insert lynch pin into rockshaft and return handle to storage location.





Basic Cart Set Up (continued)

Upper Ladder Extension to Operating Position

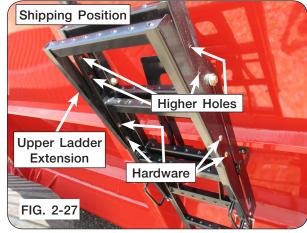
A WARNING

- FALLING OR LOWERING EQUIPMENT CAN CAUSE SERIOUS INJURY OR DEATH. KEEP EVERYONE AWAY FROM EQUIPMENT WHEN SUSPENDED, RAISING, OR LOWERING.
- KEEP HANDS CLEAR OF PINCH POINT AREAS.
- DO NOT ALLOW ANYONE TO RIDE ON THE LADDER. MAKE SURE EVERYONE IS CLEAR BEFORE OPERATING MACHINE OR TOWING VEHICLE.
- TO PREVENT PERSONAL INJURY OR DEATH, ALWAYS ENSURE THAT THERE ARE PEOPLE WHO REMAIN OUTSIDE THE CART TO ASSIST THE PERSON WORKING INSIDE, AND THAT ALL SAFE WORKPLACE PRACTICES ARE FOLLOWED. THERE ARE RESTRICTED MOBILITY AND LIMITED EXIT PATHS WHEN WORKING INSIDE THE IMPLEMENT.
- NEVER ENTER A CART CONTAINING GRAIN. FLOWING GRAIN TRAPS AND SUFFOCATES VICTIMS IN SECONDS.

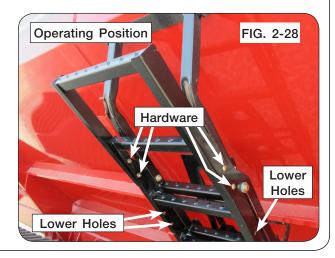
NOTE: Ensure ladder and steps are free from snow/debris before changing ladder positions and climbing.

NOTE: To change ladder assembly positions, refer to "Ladder Operation" in the OPERATION section.

1. Move the upper ladder extension (289707B) from shipping position by removing the 5/16"-18UNC x 3/4" carriage bolts (9388-024), 5/16" flat washers (9405-064) and 5/16"-18UNC lock nuts (9008441). Keep hardware for next step. (FIG. 2-27)



- Using hardware from step 1, attach upper ladder extension to the higher set of holes to be in operating position. (FIG. 2-27 & FIG. 2-28)
- 3. Torque hardware to 17 ft.-lbs.



Basic Cart Set Up (continued)

Belt Engagement

A WARNING

 MOVING OR ROTATING COMPONENTS CAN CAUSE SERIOUS INJURY OR DEATH. ENSURE SERVICE COVERS, CHAIN/BELT COVERS AND CLEAN-OUT DOORS ARE IN PLACE AND SECURELY FASTENED BEFORE OPERATING UNIT.

The unit is shipped without the tension applied to the belts. To engage the tensioner use the belt tensioner handle, located on the left-hand side of the grain cart, behind the first panel. Verify the belts are correctly aligned and are seated in both sheaves. If belt hangs over edge of sheave, detention idler, adjust and retention idler.





Basic Set Up (continued)

Operational Check

A WARNING

 MOVING OR ROTATING COMPONENTS CAN CAUSE SERIOUS INJURY OR DEATH. ENSURE SERVICE COVERS, CHAIN/BELT COVERS AND CLEAN-OUT DOOR ARE IN PLACE AND SE-CURELY FASTENED BEFORE OPERATING UNIT.

IMPORTANT

 Before running the auger pivot, the vertical auger clean-out door must be closed to prevent machine damage.

Once set-up has been completed, run the cart to check for operation and functionality:

- 1. Lights Work and Turn
- 2. Flow Door
- 3. Flow Door Indicator
- 4. Auger Fold
- 5. Auger Pivot
- 6. Spout Rotate & Pivot (if applicable)
- 7. Auger Startup & Shut-down







Video System Set-Up (Optional)

Rear Bracket Location (2596 Grain Cart Only)

- 1. Attach mount bracket (265771B) to the rear undercarriage plate, as shown in FIG. 2-34.
- 2. Assemble camera (9006274) to the camera mount bracket.
- Connect the 65' cable wire (9004513) to the camera.
- 4. Route the cable down to the left-hand side of the runner and out the front of the cart. ENSURE THERE IS ENOUGH SLACK AT THE JOINTS TO PREVENT OVEREXTEND-ING THE WIRE WHEN FOLDING. Use zip ties (9000107) to attach the cable to the runner as necessary. (FIG. 2-34)

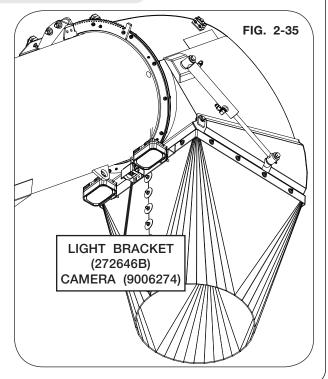


NOTE: If more cable length is needed, connect 16' camera cable (9007174).

Vertical Auger Work Light Location

- 1. Assemble camera (9006274) to the light bracket (272646B), as shown in FIG. 2-35.
- 2. Connect the 65' cable wire (9004513) to the camera.
- Route the cable down along the vertical auger the front of the cart. ENSURE THERE IS ENOUGH SLACK AT THE JOINTS TO PREVENT OVEREXTENDING THE WIRE WHEN FOLDING. Use zip ties (9000107) to attach the cable to the vertical auger tube as necessary. (FIG. 2-35)

NOTE: If more cable length is needed, connect 16' camera cable (9007174).



Section III Operation

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FOR SCALE INFORMATION, PLEASE REFER TO YOUR SCALE MANUAL.
FOR TRACK INFORMATION, PLEASE REFER TO YOUR TRACK MANUAL.
FOR UHARVEST INFORMATION, PLEASE REFER TO YOUR UHARVEST MANUAL.
FOR ELECTRIC TARP INFORMATION, PLEASE REFER TO YOUR ELECTRIC TARP MANUAL.
FOR WATER DELIVERY SYSTEM INFORMATION, PLEASE REFER TO YOUR WATER DELIVERY SYSTEM MANUAL.

Operating Checklist

| | Read and understand all safety precautions before operating cart. R.V. antifreeze needs to be completely flushed from the Water Delivery System and disposed of properly. Make certain the Water Delivery System only contains water before placing the Water Delivery System in service. (If applicable) |
|---|--|
| | Set or Calibrate tractor PTO control engagement to MINIMUM setting. Refer to tractor operator's manual for setting information. |
| | · |
| _ | Verify track has been aligned and is properly conditioned. (If applicable) |
| | Lubricate all grease fittings and check gearbox oil level. |
| | Inspect cleanout door assembly for play or movement, refer to "Vertical & Horizontal |
| | Clean-Out Door Operation" in the OPERATION section. |
| | Test operation and functionality of flow door indicator, auger fold, auger pivot, spout |
| | rotate, and spout tilt. |
| | Verify all reflective decals are correctly located. |
| | Check SMV sign and SIS decals are clearly visible with the cart attached to the tractor. |
| | Verify transport lights are working properly. Check and follow all regulations before towing |
| | on a road or highway. |
| | Verify that hitch height and length when attached to the tractor are sufficient to prevent |
| | severe bends in PTO U-joint angles. |
| | Verify PTO length, see "Verify Telescoping PTO Shaft Length" in MAINTENANCE section. |
| | Align and properly tension belts/chains. See "Belt Tightener Adjustment" and "V-Belt Align- |
| | ment" in MAINTENANCE section. |
| | Ensure safety screens over horizontal auger are in place and properly secured. |
| | Install transport chains and torque hardware to specification. See "Transport Chain Con- |
| | nection" in OPERATION section. |
| | Test run the augers. See "Auger Operation" in OPERATION section. |
| _ | iest full the augers. See Auger Operation III OPERATION section. |

Preparing Tractor

Before operating cart, read the tractor Operator's Manual and gain an understanding of its safe methods of operation.

Check the tractor brakes and transport lights. Make sure they are in proper working order.

Check if the tractor has multiple PTO engagement modulation settings and has the latest PTO engagement software from the OEM. If unsure, contact your local dealer for tractor capabilities and recommended setting for grain cart operation.

Tractor drawbar should be adjusted so that the distance from the end of the PTO shaft on the tractor to the center line of the hitch pin is 20". If this is not done, the driveline on the cart will be damaged.

Check the tractor hydraulic oil reservoir and add oil if needed.

Verify that the tractor is adequately ballasted for drawbar operation at the anticipated draft load. See tractor manual for ballasting instructions.

If possible, adjust the tractor drawbar vertically so the topside of the drawbar is approximately 17-22 inches from the ground. Ensure that the drawbar is locked in the center position.

(Continued on next page)

Preparing Tractor (continued)

NOTE: The grain cart hitch and tractor drawbar must be of the same Category.



CAUTION

• USE OF NON-MATCHING CATEGORY HITCH AND TRACTOR DRAWBAR CONNECTION WILL RESULT IN POOR HITCH PERFORMANCE AS WELL AS DAMAGE TO TRACTOR, IMPLEMENT OR BOTH.

Hitch pin sizes for each Category to help identify which Category drawbar you have. Category 5-23/4" Dia. (70 mm)

On tractors equipped with a 3-point hitch, raise and secure the linkage to prevent interference with the cart tongue, hydraulic hoses and the implement driveline during turning. It may be necessary to remove tractor 3-point quick attach to avoid damage during turning.

Preparing Cart

Perform the service checks below. Repair or replace any damaged or worn parts before operating.

Hardware

Check for loose bolts and nuts, and tighten as needed. Check again after the first half-day of operation.

Pivot Pins

Check that all pins are in place and in good condition. Replace any worn, damaged or missing pins.

Hitch

Check hitch wear plates for damage and wear. Be aware of the size of hitch adapter bushing that is being used. Select correct size for the hitch pin/draw bar you are using.

Auger

Inspect auger for damage and wear.

Hydraulic System

Check all hoses and cylinders for signs of leakage. Hoses should not be kinked, twisted or rubbing against sharp edges. Re-route or repair hoses as necessary. Refer to SAFETY section for additional information on safe repair and inspection of hydraulic components.

Track 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 THE MAINTENANCE SECTION FOR PROPER WHEEL NUT/BOLT SPECIFICATIONS. WARRANTY DOES NOT COVER FAILURES CAUSED BY IMPROPERLY TORQUED WHEEL NUTS/BOLTS.

Lubrication

Lubricate the cart as outlined in the MAINTENANCE section of this manual.

Video System (Optional)

IMPORTANT

• Do not operate video system below 15°F. Damage to video system can occur.

The video system includes its own operation instruction sheet.

Hitching to Tractor

Drawbar Connection

This cart is intended to be hitched to a tractor drawbar. Do not attempt to hitch to any other location on the tractor other than the drawbar.

The cart is equipped standard with a single tang hitch. A 2 3/4" hitch pin (CAT 5) diameter must only be used with a clevis-type tractor drawbar.

<u>NOTE</u>: Use of the proper hitch pin will prevent excessive wear and tear on both the cart and tractor.

Lock tractor drawbar in center position.

Set tractor drawbar length to 20" from the end of the tractor PTO shaft to center of hitch tang pinhole.

Before inserting hitch pin, apply wearshoe (281899 - CAT 5) between tractor hitch and grain cart hitch (Figure 3-1).

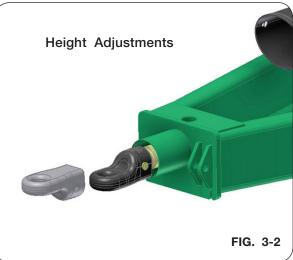
A WARNING

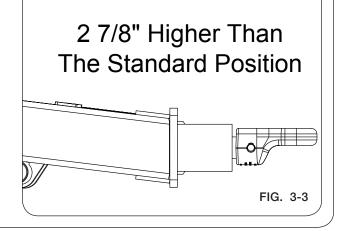
 CRUSHING CAN CAUSE SERIOUS INJURY OR DEATH. DO NOT STAND BETWEEN TOWING VEHICLE AND IMPLEMENT WHEN HITCHING. AL-WAYS ENGAGE PARKING BRAKE AND STOP ENGINE BEFORE INSERTING HITCH PINS OR SECURING LATCHES.

After inserting drawbar pin, secure drawbar pin with a locking device to help prevent uncoupling during use.

NOTE: Hitch tang can be flipped providing a drawbar connection height difference of 2 7/8" (Figure 3-2 & 3-3). Position the hitch tang to help assure a level cart when loaded, or the rear of the hopper slightly higher than the front, to maintain rear slope cleanout. Whenever the hitch tang is flipped, the driveline clearances need to be reviewed.







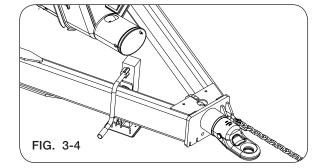
Hitching to Tractor (continued)

WARNING

• UNHITCHING A LOADED CART CAN CAUSE SERIOUS INJURY OR DEATH DUE TO TONGUE RISING OR FALLING. ALWAYS HAVE A LOADED CART ATTACHED TO A TRACTOR. THE JACK IS INTENDED TO SUPPORT AN EMPTY CART ONLY.

Jack Usage

Use jack to support an empty grain cart, never a loaded grain cart. Always have a loaded grain cart hooked to tractor. Attach jack to right inside frame using pin and hair pin. Pivot the jack 90 degrees and reinstall pin for field use. (Fig. 3-4)



IMPORTANT

 After cart is hitched to tractor, pivot jack to storage location.

Hitching to Tractor (continued)

Optional Hydraulic Jack Usage

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.

IMPORTANT

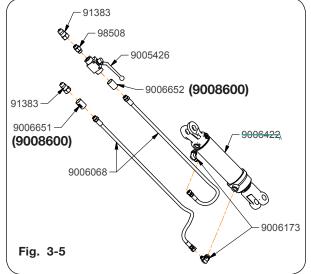
• After cart is hitched to tractor, attach hydraulic hoses to tractor and retract hydraulic cylinder to store hydraulic jack between the frame rails.

NOTE: For units SN B40240100 and higher, sleeve hose markers - raise and lower jack (9006651 and 9006652) are replaced with hose grips - black - raise and lower jack (9008600 Qty. 2)

Use hydraulic jack to support an empty grain cart, never a loaded grain cart. Always have a loaded grain cart hooked to tractor.

Always close the manual valve for the hydraulic jack for in-field use and when unhitched from the tractor.

- 1. Remove hoses from storage slots.
- 2. Attach jack cylinder hose couplers to tractor.
- 3. Open valve to allow hydraulic flow.
- 4. Use tractor hydraulic valve to extend cylinder and lift tongue.
- 5. Once attached to tractor drawbar, retract cylinder to lower tongue and to raise jack into storage position.
- 6. Close valve and then disconnect hose couplers from tractor.
- 7. Place hose couplers into storage caddy. Be sure to route hoses to clear PTO driveline during operation.
- 8. Check for leaks.



Hitching to Tractor (continued)

Transport Chain Connection



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

Always use intermediate chain support when connecting the grain cart directly to a tractor. DO NOT use the intermediate chain support as the chain attaching point. Fig. 3-6 shows how the transport chain must be installed between the tractor and grain cart.

Transport chain should have a minimum rating equal to the gross weight of the implement and all attachments. Never tow a loaded grain cart on public roads. Use only ASABE approved chains. Allow no more slack in the chain than necessary to permit turning.



Hitching to Tractor (continued)

Hydraulic Connections

Clean hydraulic hose couplers before connecting to the tractor. For convenience, this unit is equipped with color hose grips attached to the hydraulic hoses. This will help in identifying the hose function and correct hook up. (FIG. 3-7)

For steering tandem, attach hydraulic hoses labeled "TURN LEFT" and "TURN RIGHT" into tractor hydraulic remote. Connect hydraulic hose "TURN LEFT" to extend port, and "TURN RIGHT" to retract port.

| Color | Function | |
|----------|-------------------------------|--|
| Red | Flow Door Open and Close | |
| Yellow | Spout Tilt In and Out | |
| Tan | Joystick or Spout Rotate | |
| Green | Auger Fold and Unfold | |
| Blue | Auger Pivot Up and Down | |
| Black | Jack Raise and Lower | |
| Orange | ange Water Pump | |
| Optional | Hydraulic Pressure and Return | |

After initial set-up or replacement of any hydraulic component on the cart, air must be removed from the cart's hydraulic system. Reference "Hydraulic System - Purge Hydraulic System" section in the MAINTENANCE section.

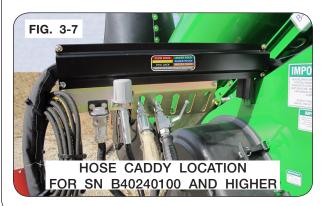
Route hoses away from areas that may cause abrasion or kinking of hoses during operation.

(Continued on next page)

Hitching to Tractor (continued)

Hydraulic Connections

Before disconnecting hoses from tractor, place tractor in park and shut PTO off, operate auger fold and tilt to the lowest positions. Where possible, remove hydraulic pressure loads and avoid potential pressure buildup in the lines from long storage periods such as upper auger not in rest position. If equipped with hydraulic jack, extend jack to desired position, turn valve to closed position. See tractor operator's manual for proper procedure to relieve pressure from the lines. After SCV pressures have been relieved and tractor engine is off, disconnect hoses from tractor. Install couplers into storage slots provided. (FIG. 3-7 & 3-8)





Hitching to Tractor (continued)

Towing

Ensure that the towing vehicle has adequate weight and braking capacity to tow this implement. See the towing vehicle manual for towing capacity. Never tow a loaded grain cart over public roads.

Maximum speed of cart should never exceed 15 m.p.h. Do not exceed 10 m.p.h. during off-highway travel. Do not exceed 8 m.p.h. when cart is fully loaded.

Secure drawbar pin with a locking device and lock tractor drawbar in centered position.

The PTO drive shaft needs to be placed in the storage position on the tongue or properly attached to the tractor. See "Coupling The Cut-Out Clutch" in SET UP section and "PTO Shaft and Clutch" in MAINTENANCE section before connecting the PTO drive shaft to the tractor.

Secure transport chain to tractor chain support before towing.

A CAUTION

• THE STANDARD TRANSPORT CHAIN IS DESIGNED TO SUPPORT AN EMPTY GRAIN CART DURING ROAD TRAVEL.

Regulate speed to road conditions and maintain complete control.

It is probable that this cart is taller, wider and longer than the towing tractor. Become aware of and avoid all obstacles and hazards in the travel path of the equipment, such as power lines, ditches, etc.

Slow down before making sharp turns to avoid tipping. Drive slowly over rough ground and side slopes.

Always have auger folded back into storage/ transport position when auger is not in use. (FIG. 3-9)



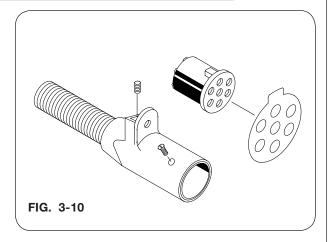
Hitching to Tractor (continued)

Electrical Connections

This cart is equipped with a seven-pin 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 (Part number 92824).

<u>NOTE:</u> 7-pin connector must be plugged into the tractor in order for the spout system to operate.

The wiring schematic for this cart, shown in the MAINTENANCE section, complies with AS-ABE Standards. Always verify correct electrical function before using this cart.



This unit is equipped with Side Marker lights for enhanced visibility. These lights will have different functionality depending upon the tractor lighting selection.

If the tractor field lights switch is on; the Side Marker lights and the amber turn signal lights are on solid and will not flash.

If the flashers and/or turn signal is on; the Side Marker lights flash in unison with their respective side's amber turn lamp.

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.

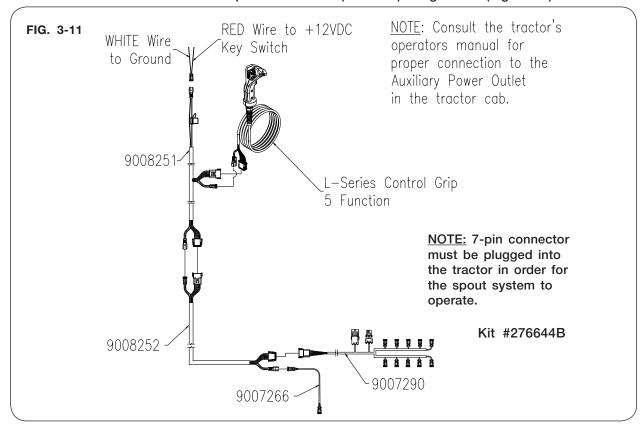
See your Unverferth dealer for additional brackets, reflectors, or lights to meet your requirements.

Optional Electric Over Hydraulic Operation 5 Function Serial Number B39490100 & Higher

Before operating cart, familarize yourself with the functions associated with the joystick controller by operating with an empty cart.

The joystick comes with a mounting pin allowing storage inside the tractor cab when not in use.

- Connect the red wire from power harness (9008251) to a key-switched +12VDC power supply.
 (Fig. 3-11)
- 2. Connect the white wire from power harness (9008251) to ground. (Fig. 3-11)



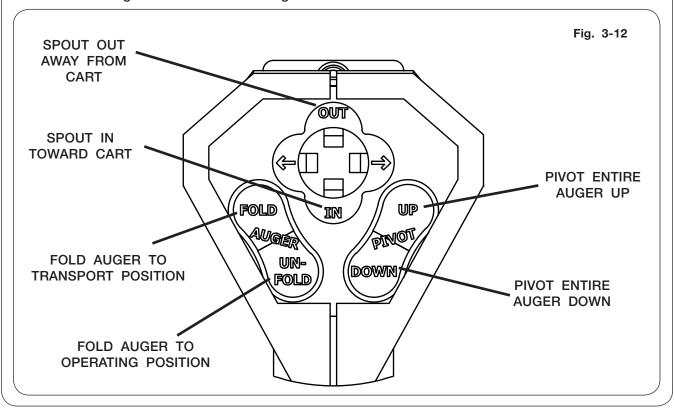
Optional Electric Over Hydraulic Operation 5 Function (continued) Serial Number B39490100 & Higher

- 3. Connect the Hydraulic Pressure and Return hoses to the tractor SCV remote so that the Pressure line is able to be put in continuous detent.
- 4. Place the remote in continuous detent so that the Hydraulic Pressure hose is pressurized and set the hydraulic flow to a maximum 6 gal/min to minimum 4 gal/min.
- To fold auger out from transport to operating position, push down the auger unfold button on joystick face until the upper and lower auger are engaged and fold linkage is over center.

See Fig. 3-12.

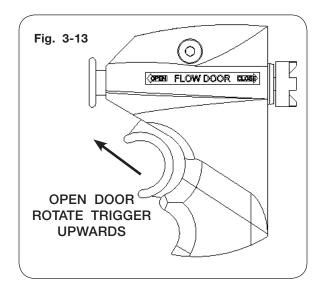
NOTE: Joystick has a double tap feature, which allows the operator to quickly double tap a function in order to operate it for a set time. If the auger fold or auger unfold buttons are double tapped, the function will stay on for 60 seconds to complete the full cycle without holding the buttons down. Pressing either of those buttons during these timed cycles will CANCEL the cycle. This double tap feature only applies to auger fold and unfold functions.

- 6. To pivot spout OUT away from cart, push hat switch toward OUT. Hold the switch until desired position is achieved. See Fig. 3-12.
- 7. To pivot spout IN toward cart, push hat switch toward IN. Hold the switch until desired position is achieved. See Fig. 3-12.
- 8. To pivot the entire auger UP, press and hold the auger pivot UP button until the desired height is achieved. See Fig. 3-12.
- 9. To pivot the entire auger DOWN, press and hold the auger pivot DOWN button until the desired height is achieved. See Fig. 3-12.

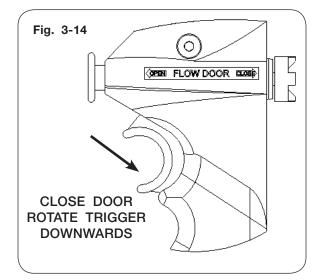


Optional Electric Over Hydraulic Operation 5 Function (continued) Serial Number B39490100 & Higher

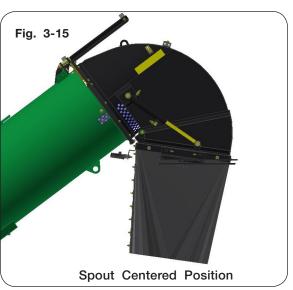
 To open flow door, rotate the switch upwards. Observe flow door indicator to determine when to release trigger and stop flow door movement. See Fig. 3-13.



11. To close flow door, rotate the switch downwards. Observe the flow door indicator and release trigger when door is closed to desired position. See Fig. 3-14.



- 12. To fold auger from operating position to transport position:
- A. Rotate spout to centered position. Align the checker flag decals to locate center as shown in Fig. 3-15.
- B. Press auger FOLD button on joystick.
- C. Hold FOLD button until upper auger is on field rest or in transport position.
- Once unloading is complete, stop hydraulic flow. <u>ALWAYS</u> stop continuous detent when auger functions are not required or active.



Manual Override for Optional Electric Over Hydraulic System Serial Number B39490100 & Higher

A WARNING

- MOVING OR ROTATING AUGER COMPONENTS CAN CAUSE SERIOUS INJURY OR MA-CHINE DAMAGE. BEFORE OPERATING MANUAL OVERRIDE(S), ENSURE EVERYONE IS AWAY FROM THE SPOUT AND THAT THE SPOUT WILL NOT CONTACT ANY OTHER PARTS OF THE GRAIN CART. ALL CONTROL SWITCHES ARE DEACTIVATED WHILE UTILIZING MANUAL OVERRIDE(S).
- MOVING OR ROTATING PTO COMPONENTS CAN CAUSE SERIOUS INJURY OR DEATH. DO NOT OPERATE PTO WHILE UTILIZING MANUAL OVERRIDE(S).

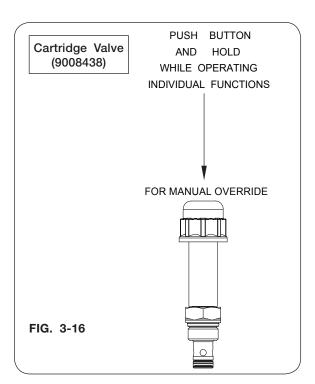
NOTE: Manual override operation is intended for emergency use ONLY and is not intended for continuous operation.

NOTE: 7-pin connector must be plugged into the tractor in order for the spout system to operate.

- 1. Park the empty grain cart on a firm and level surface. Block the tires/tracks on the machine to keep it from moving. Set the tractor's parking brake.
- 2. Connect the Hydraulic Pressure and Return hoses to the tractor SCV remote so that the Pressure line is able to be put in continuous detent.

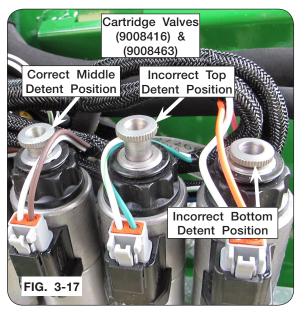
NOTE: Center rotating spout before activating auger fold.

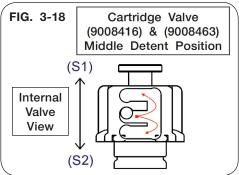
- 3. To operate the manual override functions, place the tractor SCV remote in continuous detent so that the Hydraulic Pressure hose is pressurized.
- 4. Remove cover plate (272606B) from the bottom of the lower auger housing to access the EOH block assembly.
- 5. Push and hold the manual override button on valve (9008438). (FIG. 3-16)



Manual Override for Optional Electric Over Hydraulic System Serial Number B39490100 & Higher

- 6. While holding the manual override button, operate the desired function on valve (9008416) & (9008463) by rotating the manual override knurled knob from the locked neutral position. (FIG. 3-17 & 3-18)
- 7. Push or pull the knob to operate the valve function in the desired direction. (FIG. 3-18)
- 8. Once the desired position is reached, release manual override button on valve (9008438).
- NOTE: Cartridge valve (9008416) & (9008463) must be locked in the middle detent position to function properly. (FIG 3-17 & 3-18)
- Return knurled knob to center and lock valve (9008416) & (9008463) in position. (FIG. 3-17 & 3-18)
- NOTE: Refer to "Troubleshooting" for EOH, vertical auger and/or rotating spout issues in the OPERATION section.
- Turn off hydraulic circuit when done. Correct electric/hydraulic system before continued use. Consult your dealer for service and parts.





Troubleshooting

| Problem | Possible Cause | Corrective Action |
|---|--|---|
| | Not getting 12 Volt power supply to the power harness in the tractor | Check the connections to the main power harness in the tractor cab, and check the 5 AMP fuse in the fuse holder of the main power harness. Replace fuse if necessary. |
| No Electric Over Hydraulic (EOH) Functions work | Not getting good connection at Deutch connectors in the harnesses | Unplug the Deutsch connectors at the hitch point and in the extension harness (if used). Clean up the connectors with electrical contact cleaner. Make sure the connectors are aligned correctly and re-connect them. |
| | Not pressurizing the correct hydraulic hose | Make sure the quick couplers are properly connected to the tractor SCV and the Hydraulic Pressure line is being pressurized when engaging the tractor SCV. |
| | Rotating Spout is not in the folding position | Rotate the spout so it is positioned straight down or forward in order to fold the auger into transport position. |
| Auger unfolds, but won't fold back in to transport position | Rotating spout switch is faulty or out of adjustment | Make sure the spout is in the centered position. Press and hold the manual overide button on the electric over hydraulic (EOH) valve on the auger fold cylinder while someone operates the hydraulic remote to fold the auger back to the transport position. Inspect the switch assembly near the rotating spout cylinder. The clearance between the end of the proximity switch and the barrel of the rotating spout cylinder must not exceed 1/4". |
| | Debris in the EOH block on the auger fold cylinder | Fold auger, remove the Coil and the cartridge valve on the EOH valve block. Remove any debris and reinstall cartridge and coil. |
| Auger unfolds part way and stops | Rotating Spout switch is out of adjustment or has been activated. | With the auger folded in to the lower transport rest, have some- one depress and hold the switch at the vertical auger hinge plate. Use any means necessary to depress the switch without placing your hands or other body parts near the pinch points. With the switch depressed, rotate the spout to the folding postion. |

Troubleshooting (continued)

Problem Possible Cause Corrective Action

| | 7 pin connector is not plugged into tractor. | Plug in 7 pin connector to same power source as the 5 function controller. |
|--|--|--|
| Spout rotate does not operate | Proximity Switch at the auger hinge is not getting Power or Ground. | Check power and ground to the proximity switch harness on the vertical auger. |
| | Proximity switch located at the hinge plate is not adjusted correctly. | This proximity switch has a 1/4" effective operating range. The upper auger hinge plate needs to be within that range when it is unfolded in to the operating position. Adjust the proximity switch in or out in order for the sensor to activate when it is in the operating position. |
| Rotating spout will not function | Switch located at the hinge plate of the vertical auger is not getting power, ground or is defective | Check the ground wire on the top plate of the lower vertical auger and on the left hand standard just behind the front plate of the harness. Unplug the 3 pin connector on the hinge plate proximity switch. With a multi-meter or test light, confirm that the pin in socket B has +12V constant power and socket A has +12V when the sensor is activated. |
| One cinale function will not | Defective coil on the EOH valve for that function | Loosen the cap for the coils associated with that function on the EOH valve. Depress the button on the remote, and determine if the coils are getting magnetized. Inspect the wiring connectors to these coils, and replace the coil if necessary. |
| One single function will not work | Defective valve on the EOH valve for that function | Remove the coil and the cartridge valve on the EOH valve block for that function. Replace the valve if it doesn't operate when the coil is magnetized. |
| | Debris in the EOH block at the base of the vertical auger | Remove the coil and the cartridge valve on the EOH valve block. Remove any debris and reinstall cartridge and coil. |
| Functions continue to operate after the button on the remote | Tractor hydraulic flow is set too high | Turn tractor hydraulic flow down so that flow doesn't exceed 6 gallons per minute. |
| is released | Defective valve on the EOH valve for that function | Remove the Coil and the cartridge valve on the EOH valve block for that function, and replace the cartridge. |

Vertical & Horizontal Cleanout Door Operation

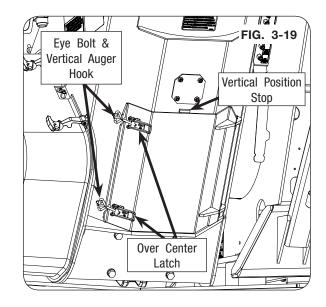
A WARNING

- MOVING OR ROTATING COMPONENTS CAN CAUSE SERIOUS INJURY OR DEATH.
 ENSURE SERVICE COVERS, CHAIN/BELT COVERS AND CLEANOUT DOORS ARE IN PLACE AND SECURELY FASTENED BEFORE OPERATING UNIT.
- KEEP HANDS CLEAR OF PINCH POINT AREAS.
- TIPPING OR MOVEMENT OF THE MACHINE CAN CAUSE SERIOUS INJURY OR DEATH. BE SURE THE MACHINE IS SECURELY BLOCKED.
- EYE PROTECTION AND OTHER APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT MUST BE WORN WHILE SERVICING THE IMPLEMENT.

NOTE: Raise the vertical auger to ensure clearance between cleanout door and tongue in order to open and remove the cleanout door from the vertical lower auger.

Vertical Cleanout Door

- Park the empty grain cart on a firm and level surface. Block the tires/tracks on the machine to keep it from moving. Set the tractor's parking brake, shut-off the engine, remove the ignition key and disconnect the PTO shaft.
- 2. To completely close cleanout door, ensure the vertical auger cleanout door top edge clears the vertical position stop (key stop). (FIG. 3-19)
- Attach eye bolt ends of over center latches to the hooks on the vertical auger. (FIG. 3-19)
- 4. Clasp the over center latch handles to lock the door in the closed position. (FIG. 3-19)



- 5. Inspect and verify cleanout door perimeter for gaps. Ensure all grain dust and filings are removed that may prevent the door from shutting completely.
- 6. If gaps are present, unclasp the over center latch and tighten eye bolt to improve door seal contact on the vertical auger.
- 7. Rehook eye bolt to vertical auger and clasp the over center latch.

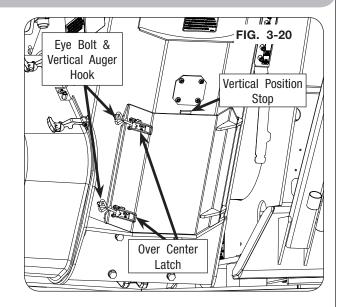
NOTE: Repeat closing the door and inspection, as necessary.

Vertical & Horizontal Cleanout Door Operation (continued)

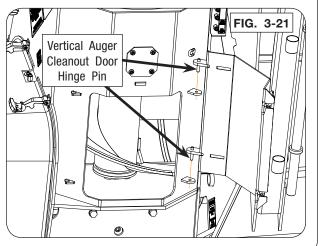
Vertical Cleanout Door

NOTE: Remove the vertical auger cleanout door to improve vertical auger cleaning.

- 8. To open and remove the vertical auger cleanout door, unclasp the over center latch. (FIG. 3-20)
- 9. Unhook the eye bolt from the vertical auger and open the cleanout door. (FIG. 3-20)



- 10. The hinge on the vertical auger cleanout door is set on a pin. Lift and remove the cleanout door from the vertical auger. Keep vertical auger cleanout door. (FIG. 3-21)
- 11. Inspect and verify all debris is removed from inside the vertical auger housing.
- 12. Reattach the vertical cleanout door to the vertical auger.

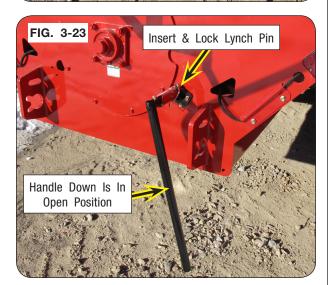


Vertical & Horizontal Cleanout Door Operation (continued)

Horizontal Cleanout Door

Use the tensioner handle, located on the left-hand side of the grain cart, behind the first panel to open and close the horizontal cleanout doors.

- Insert tensioner handle into the cleanout door receiver coupler on the rear panel, and remove lynch pin from rockshaft. Keep lynch pin. (FIG. 3-22)
- 2. Rotate the tensioner handle clockwise to open the cleanout doors. (FIG. 3-23)
- 3. Insert and lock lynch pin into rockshaft. (FIG. 3-23)



Handle Horizontal Is In

Closed Position

Remove & Keep

Lynch Pin

- 4. Inspect and verify all debris is removed that may prevent the doors from shutting completely. (FIG. 3-24)
- NOTE: If cleanout doors do not function properly, refer to "Horizontal Cleanout Door Inspection" in SET UP section for more information.
- 5. Remove lynch pin from rockshaft and rotate handle counter-clockwise and clockwise to check for smooth door operation.





Vertical & Horizontal Cleanout Door Operation (continued)

Horizontal Cleanout Door

6. Rotate handle counter-clockwise to close doors and ensure all doors seal. (FIG. 3-25)



7. Insert and lock lynch pin into rockshaft and return handle to storage location. (FIG. 3-26)



Auger Operation

PTO Driven Auger

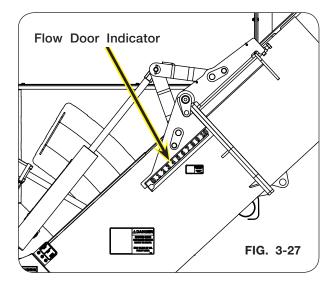
▲ DANGER

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



A WARNING

- NEVER ENTER CART WITH AUGER OR TRACTOR RUNNING. SERIOUS OR FATAL IN-JURY CAN OCCUR DUE TO ENTANGLEMENT WITH ROTATING COMPONENTS. ALWAYS STOP ENGINE AND REMOVE KEY BEFORE ENTERING CART.
- TO PREVENT PERSONAL INJURY OR DEATH ALWAYS ENSURE THAT THERE ARE PEOPLE WHO REMAIN OUTSIDE THE CART TO ASSIST THE PERSON WORKING INSIDE AND THAT ALL SAFE WORKPLACE PRACTICES ARE FOLLOWED. THERE ARE LIMITED MOBILITY AND EXIT PATHS WHEN WORKING INSIDE THE IMPLEMENT.
- 1. Before loading cart or operating auger, verify that the flow control door is closed.
- NOTE: If spout rotate moves out of center, the auger will not unfold to unloading position. The spout must be manually rotated to center position. See "Manual Override for Optional Electric Over Hydraulic System" in the OPERATION section.
- Choose an area free from obstructions and unfold auger into unloading position. Allow sufficient time for the cylinder to fully engage the two augers and over-center latch to fully engage.
- Engage PTO at low engine RPM, then increase engine RPM until 1000 PTO RPM is reached.



- 4. Open flow control door to desired unloading rate. Numbers on the auger tube provide a point of reference for operator convenience. (Fig. 3-27)
- 5. To slow or stop grain flow, close flow door, rather than reducing tractor RPM. Close flow door fully when unloading is complete.

NOTE: If an overload occurs, see "Auger Overload Procedure."

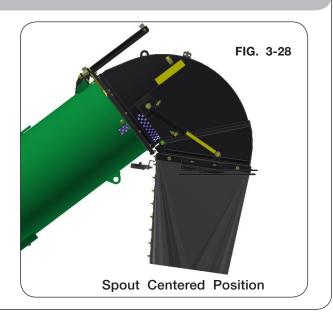
NOTE: It is not recommended to disengage auger with flow control door open. Auger system will require substantially more torque to start, placing extra stress on both cart and tractor driveline.

Cart is equipped with baffles that can be adjusted to accommodate the flow of different materials and/or the torque demands associated with different materials. See the SET UP section for the procedure.

Auger Operation (continued)

- 6. When auger is empty, reduce PTO rpm to idle, and stop PTO.
- 7. After PTO has come to a complete stop, align the checker flag decals to center spout as shown in FIG. 3-28.
- 8. Once spout is centered, fold auger to the transport position or field position.

NOTE: Spout can be TILTED to any position, but must be ROTATED to center for auger to fold.



Auger Operation (continued)

Auger Overload Procedure

IMPORTANT

Extensive operation while the clutch is slipping may damage drive components.

NOTE: When over loading occurs, drivelines equipped with cut-out clutch will make a "clicking" noise when torque has been exceeded. Immediately shut off PTO and shut the flow door.

NOTE: Once PTO RPM has significantly decreased, cut-out clutch will automatically reset.

- 1. Close flow door.
- With the PTO off and driveline stopped, disengage the belt tensioner using the belt tensioner handle, this disengages the horizontal auger from the drivetrain. (FIG. 3-29)
- 3. Restart and engage the tractor PTO at low engine RPM.
- Increase engine RPM until 850 to 1,000 PTO RPM is reached to empty the vertical auger.
- 5. Once vertical auger is empty, stop PTO.
- 6. With the tractor PTO off and driveline stopped, reengage the belt tensioner using the belt tensioner handle. Return handle to storage. (FIG. 3-30)





- 7. Restart and engage the tractor PTO at low engine RPM.
- 8. Increase engine RPM until 850 to 1,000 PTO RPM is reached to empty the drag auger.

NOTE: If the grain cannot be relieved by above method, open bottom clean out doors (see "Vertical & Horizontal Clean-Out Door Operation" in this section) to remove grain from auger before repeating these steps to clean out auger.

Auger Operation (continued)

Vertical Auger Fold

A WARNING

 DO NOT STAND ON LADDER OR FRAME UNLESS TRACTOR ENGINE IS TURNED OFF AND KEYS ARE REMOVED FROM THE IGNITION.

Actuate hydraulic auger fold circuit to pivot vertical auger between transport and operating positions. When unfolding auger, allow sufficient time for cylinder to rotate the outside fold link into an over-center position. (FIG. 3-31)

<u>NOTE</u>: Auger spout will not rotate until auger is fully extended and auger will not fold until the spout is centered.



Ladder Operation - For SN B40560100 & Higher

A WARNING

- FALLING OR LOWERING EQUIPMENT CAN CAUSE SERIOUS INJURY OR DEATH. KEEP EVERYONE AWAY FROM EQUIPMENT WHEN SUSPENDED, RAISING, OR LOWERING.
- KEEP HANDS CLEAR OF PINCH POINT AREAS.
- DO NOT ALLOW ANYONE TO RIDE ON THE LADDER. MAKE SURE EVERYONE IS CLEAR BEFORE OPERATING MACHINE OR TOWING VEHICLE.
- TO PREVENT PERSONAL INJURY OR DEATH, ALWAYS ENSURE THAT THERE ARE PEOPLE WHO REMAIN OUTSIDE THE CART TO ASSIST THE PERSON WORKING IN-SIDE, AND THAT ALL SAFE WORKPLACE PRACTICES ARE FOLLOWED. THERE ARE RESTRICTED MOBILITY AND LIMITED EXIT PATHS WHEN WORKING INSIDE THE IMPLEMENT.
- NEVER ENTER A CART CONTAINING GRAIN. FLOWING GRAIN TRAPS AND SUFFO-CATES VICTIMS IN SECONDS.

NOTE: Ensure ladder and steps are free from snow/debris before changing ladder positions and climbing.

NOTE: Ensure upper ladder extension is attached to higher holes on the ladder. Reference "Upper Ladder Extension to Operating Position" section in the SET UP section.

NOTE: Always use lock pin in the working and storage position to lock the ladder extension. The lock pin can be inserted in either left-hand or right-hand ladder hole. (FIGS. 3-32 & 3-33)

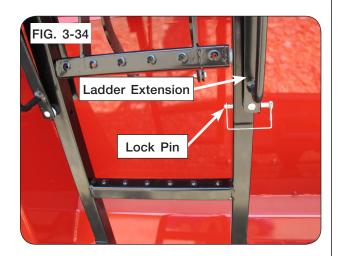




Ladder Operation - For SN B40560100 & Higher (continued)

Storage to Working Position

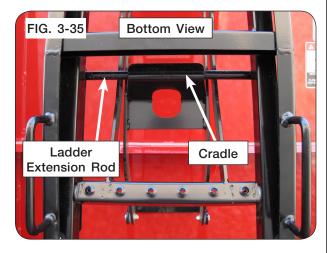
- 1. Standing in front of ladder, place hands on outside ladder handles.
- 2. Keep one hand on ladder handle and with opposite hand, remove lock pin from ladder extension. Retain for future use. (FIG. 3-34)



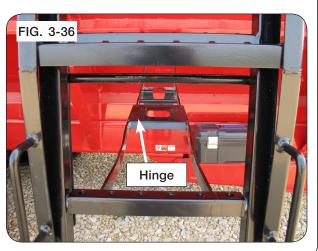
3. With hands back on ladder handles, push ladder towards hopper bin and lift ladder extension to unseat ladder extension rod from the cradle. (FIG. 3-35)

A CAUTION

• THE LADDER IS NOW FREE TO PIVOT.



4. Slowly swing ladder outward until hinge is fully extended and locks in the working position. (FIG. 3-36)



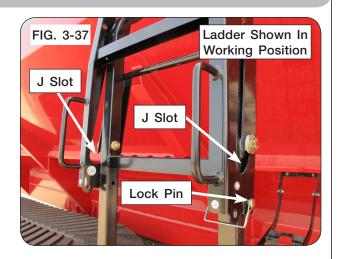
Ladder Operation - For SN B40560100 & Higher (continued)

Storage to Working Position

- Lift and seat ladder extension into shorter leg of "J slot". (FIG. 3-37)
- 6. Using lock pin from step 2, insert lock pin into ladder extension and ladder. (FIG. 3-37)

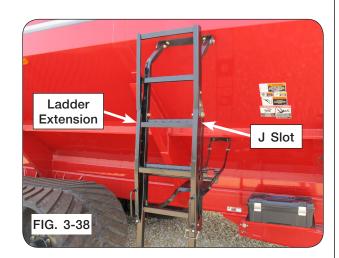
A WARNING

 FALLING FROM AN UNSECURED LADDER MAY CAUSE SERIOUS INJURY OR DEATH. ALWAYS INSERT LOCK PIN BEFORE CLIMBING.

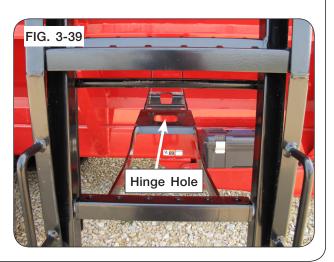


Working to Storage Position

- Standing in front of ladder, place hands on outside ladder handles.
- 8. Keep one hand on ladder handle and with opposite hand, remove lock pin from ladder extension. Retain for future use. (FIG. 3-37)
- With hands back on ladder handles, lift and unseat ladder extension from shorter leg of "J slot". (FIG. 3-37)
- 10. Lower ladder extension until fully seated in longer leg of "J slot". (FIG. 3-38)



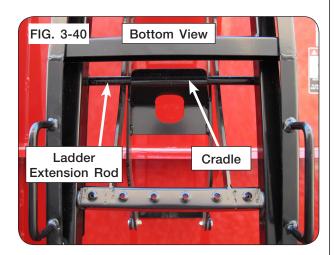
- 11. Keep one hand on ladder handle and with opposite hand, reach between ladder rungs and grab the ladder hinge hole. (FIG. 3-39)
- 12. Slowly lift ladder hinge until the ladder starts folding.
- 13. Remove hand from ladder hinge hole and place onto ladder handle.
- 14. Slowly push ladder towards hopper bin.



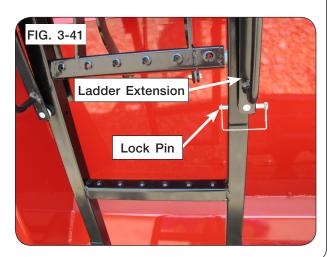
Ladder Operation - For SN B40560100 & Higher (continued)

Working to Storage Position

15. Lower ladder extension and seat ladder extension rod onto the cradle. (FIG. 3-40)



16. Using lock pin from step 8, insert lock pin into ladder extension and ladder. (FIG. 3-41)



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 cart 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.

Brent 2596 — Operation

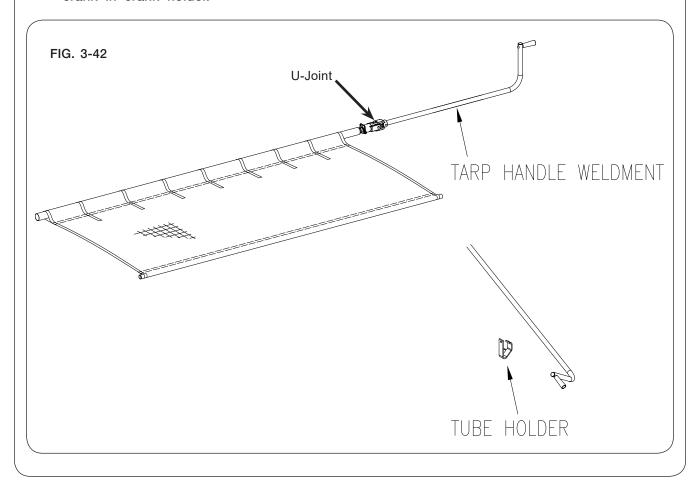
Weather Guard Tarp (continued)

Procedure

- 1. Using both hands, carefully remove crank from holder. (FIG. 3-42)
- 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: Crank U-joint may need to be re-indexed on tarp tube to achieve correct tension.

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



Brent 2596 — Operation

| Notos | |
|-------|--|
| Notes | |
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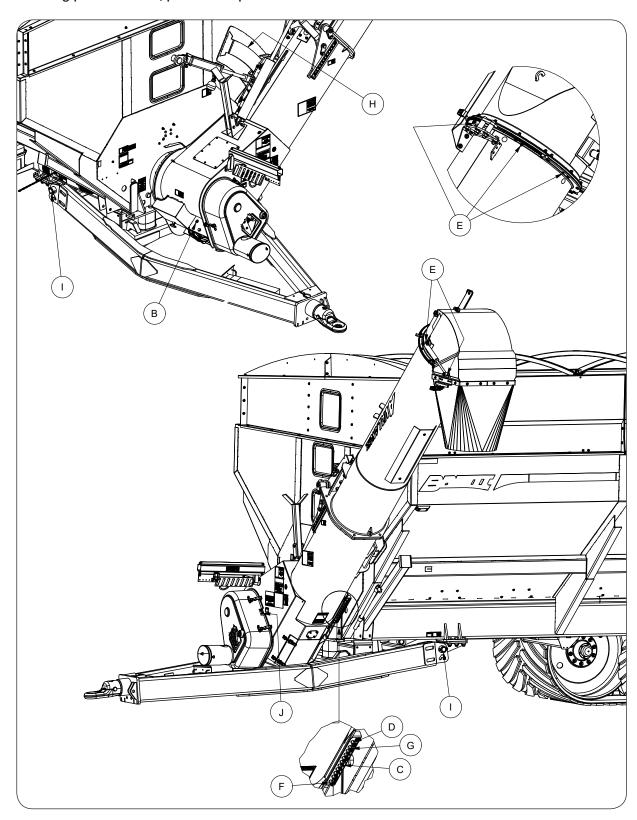
Section IV Maintenance

| Lubrication - SN B40560100 & Higher | 4-2 |
|---|------|
| Lubrication - SN B40560099 & Lower | 4-4 |
| Hydraulic System - Purge Hydraulic System | 4-7 |
| Hydraulic System - Relieving Hydraulic Pressure | 4-8 |
| Bleeding Procedure For EOH System | 4-8 |
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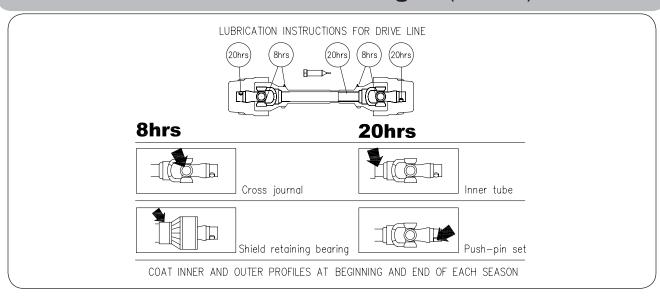
FOR SCALE INFORMATION, PLEASE REFER TO YOUR SCALE MANUAL.
FOR TRACK INFORMATION, PLEASE REFER TO YOUR TRACK MANUAL.
FOR UHARVEST INFORMATION, PLEASE REFER TO YOUR UHARVEST MANUAL.
FOR ELECTRIC TARP INFORMATION, PLEASE REFER TO YOUR ELECTRIC TARP MANUAL.
FOR WATER DELIVERY SYSTEM INFORMATION, PLEASE REFER TO YOUR WATER DELIVERY SYSTEM MANUAL.

Lubrication - For SN B40560100 & Higher

To keep your grain cart in top operating condition and to assure its proper performance and reliability for a long period of time, periodic inspection and lubrication is a must.



Lubrication - For SN B40560100 & Higher (continued)



Unverferth Mfg. recommends use of NLGI #2 Extreme Pressure grease.

The lubrication locations and recommended schedule are as follows:

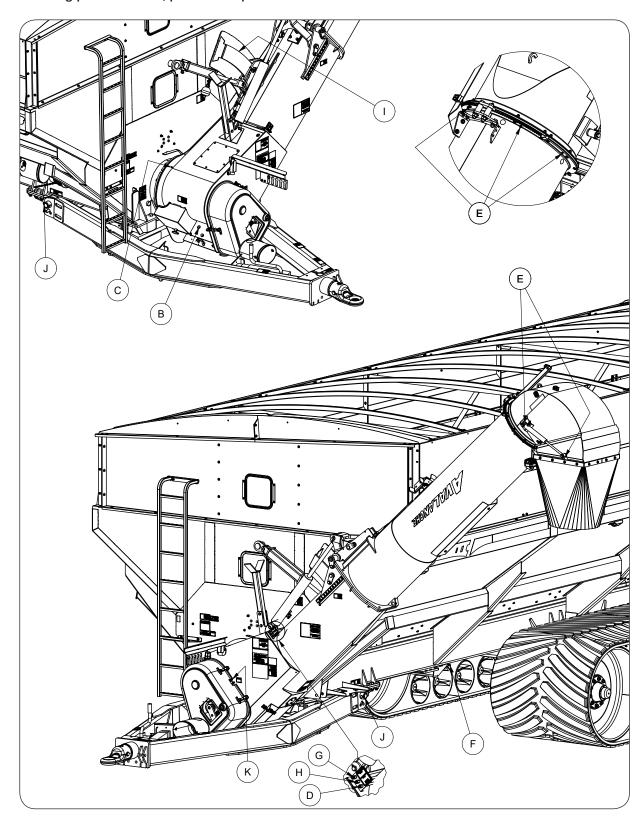
| ITEM | DESCRIPTION | POINT | LUBRICANT | QTY | HOURS |
|------|--|------------------------|-----------|------------------|----------------------|
| А | PTO Driveshafts - Upper Driveshaft - 2 Grease Points - Lower Driveshaft - 1 Grease Point | 3 | EP-2 | 1 Shot | See Chart Above |
| В | Gearbox Remove Cover - Check oil level every 2 weeks. Replace oil every season. | 1 | EP80W90 | Approx 85 oz. | Once Every Season |
| С | Auger Pivot Rings - Front & Rear Auger Hinge | 7 | EP-2 | 2 Shots | Daily |
| D* | Hanger Bearing - Vertical Lower Auger *See note below | 1 | EP-2 | 2 Shots* | Monthly |
| E | Top Bearing - Vertical Upper Auger | 1 | EP-2 | 1 Shot | Each Season |
| F | Horizontal Auger End & Center Bearings | 3 | EP-2 | 2 Shots | Monthly |
| G | Auger Pivot Pin - Vertical Upper Auger Hinge | 2 | EP-2 | 2 Shots | Daily |
| н | Grease Slide Plate | 1 | EP-2 | 1 Shot | Each Season |
| I | Tongue Pivot Bushing | 2 (one per side) | EP-2 | 2 Shots | Monthly |
| J | Drive Bearings | 3 | EP-2 | 2 Shots | Monthly |

*NOTE: Hanger bearing contains hydraulic shut-off grease zerk (9005240) with pressure relief to prevent over-greasing and could push bearing seals out. If grease is coming out of the relief on the zerk this is normal and the bearing contains enough grease.

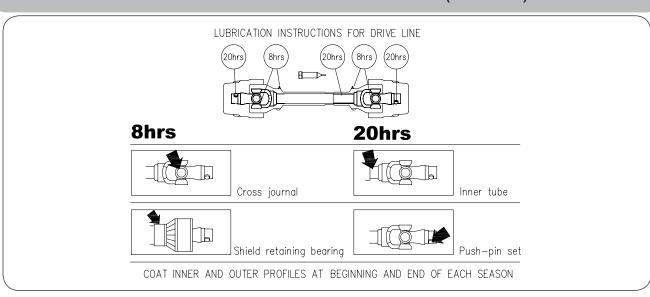


Lubrication - For SN B40560099 & Lower

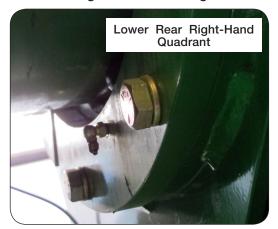
To keep your grain cart in top operating condition and to assure its proper performance and reliability for a long period of time, periodic inspection and lubrication is a must.



Lubrication - For SN B40560099 & Lower (continued)



Lower Auger Pivot Housing Grease Points

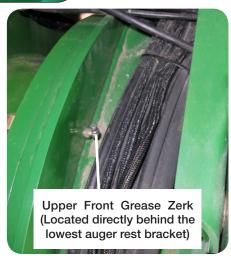












Lubrication - For SN B40560099 & Lower (continued)

To keep your grain cart in top operating condition and to assure its proper performance and reliability for a long period of time, periodic inspection and lubrication is a must.

Unverferth Mfg. recommends use of NLGI #2 Extreme Pressure grease.

The lubrication locations and recommended schedule are as follows:

| ITEM | DESCRIPTION | POINT | LUBRICANT | QTY | HOURS |
|------|--|------------------------|-----------|------------------|----------------------------------|
| А | PTO Driveshafts - Upper Driveshaft - 2 Grease Points - Lower Driveshaft - 1 Grease Point | 3 | EP-2 | 1 Shot | See Chart in Previous Page |
| В | Gearbox Remove Cover - Check oil level every 2 weeks. Replace oil every season. | 1 | EP80W90 | Approx 85 oz. | Once Every Season |
| С | Front Horizontal Auger Bearing & Gearbox Support Bearing | 2 | EP-2 | 1 Shot | Weekly |
| D* | Hanger Bearing - Vertical Lower Auger *See note below. | 1 | EP-2 | 2 Shots* | Monthly |
| E | Top Bearing - Vertical Upper Auger | 1 | EP-2 | 1 Shot | Each Season |
| F | Horizontal Auger End & Center Bearings | 3 | EP-2 | 2 Shots | Monthly |
| G | Auger Pivot Rings - Rear Auger Hinge | 2 | EP-2 | 2 Shots | Daily |
| Н | Auger Pivot Pin - Front Auger Hinge | 2 | EP-2 | 2 Shots | Daily |
| I | Grease Slide Plate | 1 | EP-2 | 1 Shot | Each Season |
| J | Tongue Pivot Bushing | 2 (one per side) | EP-2 | 2 Shots | Monthly |
| К | Drive Bearings | 3 | EP-2 | 2 Shots | Monthly |

*NOTE: Hanger bearing contains hydraulic shut-off grease zerk (9005240) with pressure relief to prevent over-greasing that could push bearing seals out. If grease is coming out of the relief on the zerk this is normal and the bearing contains enough grease.



Hydraulic System

Refer to parts section for hydraulic component detail listing.

When properly assembled and maintained, the hydraulic system of the grain cart requires little maintenance.

Replacing Hoses/Fittings/Cylinders:

- 1. Use replacement hoses, fittings, and cylinders from your Unverferth Manufacturing dealer which are rated for 3,000 psi.
- 2. Do not use hoses, fittings and cylinders that have pipe threads.
- 3. Do not use Teflon tape or thread sealant on JIC or O-ring fittings. Tighten fittings according to "Torque Chart" in this section.
- 4. When replacing hoses, always allow sufficient slack to permit hoses to move through the full range of motion of the cylinders.
- 5. Always purge the hydraulic system after servicing.

Purge Hydraulic System

A WARNING

- HYDRAULIC SYSTEM MUST BE PURGED OF AIR BEFORE OPERATING TO PREVENT SERIOUS INJURY OR DEATH.
- RELIEVE HYDRAULIC SYSTEM OF ALL PRESSURE BEFORE ADJUSTING OR SERVICING.
 SEE THE HYDRAULIC POWER UNIT OPERATOR'S MANUAL FOR PROPER PROCEDURES.
- HIGH-PRESSURE FLUIDS CAN PENETRATE THE SKIN AND CAUSE SE-RIOUS INJURY OR DEATH. USE CARDBOARD OR WOOD TO DETECT LEAKS IN THE HYDRAULIC SYSTEM. SEEK MEDICAL TREATMENT IMMEDIATELY IF INJURED BY HIGH-PRESSURE FLUIDS.



KEEP CLEAR OF PINCH POINT AREAS.



Purge air from system as follows:

- A. Disconnect the rod end of all cylinders in a circuit and block up cylinders so the rod can completely extend and retract without contacting any other component.
- B. Pressurize the system and maintain system at full pressure for at least 5 seconds after cylinder rods stop moving. Check that all cylinders have fully extended or retracted.
- C. Check oil reservoir in hydraulic power source and refill as needed.
- D. Pressurize system again to reverse the motion of step B. Maintain pressure on system for at least 5 seconds after cylinder rods stop moving. Check that cylinders have fully extended or retracted.
- E. Check for hydraulic leaks using cardboard or wood. Tighten connections according to directions in Torque Chart.
- F. Repeat steps B, C, D, and E 3-4 times.
- G. Depressurize hydraulic system and connect cylinder rod clevises to their mating lugs.

IMPORTANT

Machine damage will occur if the cylinder is incorrectly installed.

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

Hydraulic System (continued)

Relieving Hydraulic Pressure

To relieve hydraulic pressure in the system, be sure hydraulic motor is disengaged and/or hydraulic cylinder is not exerting force on the system. Next, consult tractor operators manual for procedure to relieve pressure.

Bleeding Procedure For EOH System

A WARNING

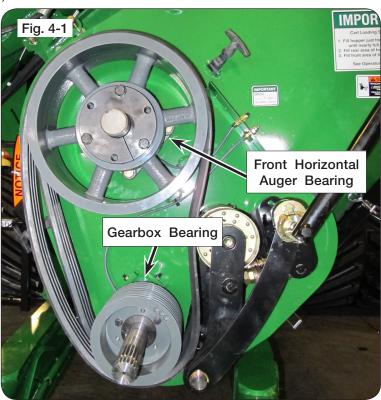
- RELIEVE THE HYDRAULIC SYSTEM OF ALL PRESSURE BEFORE ADJUSTING OR SERVICING. SEE THE HYDRAULIC POWER UNIT OPERATOR'S MANUAL FOR PROPER PROCEDURES.
- HIGH-PRESSURE FLUIDS CAN PENETRATE THE SKIN AND CAUSE SERIOUS INJURY OR DEATH. USE CARDBOARD OR WOOD TO DETECT LEAKS IN THE HYDRAULIC SYSTEM. SEEK MEDICAL TREATMENT IMMEDIATELY IF INJURED BY HIGH-PRESSURE FLUIDS.
- EYE PROTECTION AND OTHER APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT MUST BE WORN WHILE SERVICING IMPLEMENT.

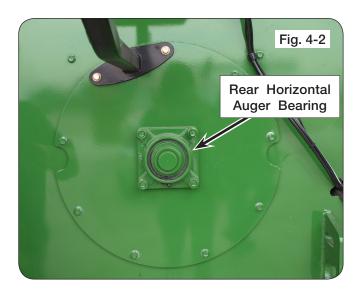
Open and close the flow door. Unfold and fold the vertical auger. Operate the spout tilt, spout rotate, and auger tilt. Perform these functions several times.

Auger Driveline Bearings

IMPORTANT

 Periodically check set screws in all bearings at either end of the driveline for tightness. (FIG. 4-1 & 4-2)





Gearbox with Sight Glass

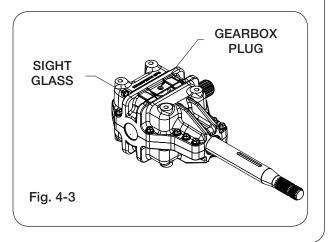
When checking the oil level of the gearbox, the vertical auger should be tilted all the way down.

For adequate lubrication, the oil should be visible in the sight glass. Fill with oil to the sight glass only. (FIG. 4-3)

Maximum gearbox life:

Check oil level every 2 weeks.

Replace oil every season with approximately 85 oz. 80W90 EP lubricant.



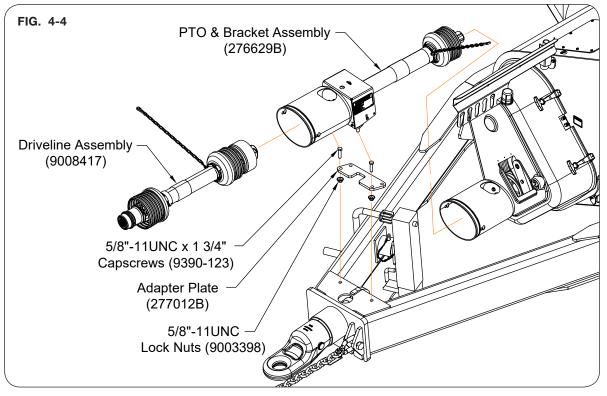
Driveline Removal

A WARNING

MOVING OR ROTATING COMPONENTS CAN CAUSE SERIOUS INJURY OR DEATH.
 ALWAYS DISCONNECT POWER SOURCE BEFORE SERVICING. ENSURE SERVICE COVERS, CHAIN/BELT COVERS AND CLEAN-OUT DOOR(S) ARE IN PLACE AND SECURELY FASTENED BEFORE OPERATING UNIT.

Gearbox shaft guard has access doors for installing and removing of driveline.

1. Remove the driveline assembly (9008417) cut-out clutch end from the PTO and bracket assembly (276629B) splined shaft end by removing the attaching clamping cone. (FIG. 4-4 and 4-5)



 Use a hammer and punch and moderately hit the end of clamping cone, as shown. Back off the clamping cone 1/2 turn. Continue alternating punch and unscrewing clamping cone until clamping cone can be removed by hand. (FIG. 4-5)



- 3. Remove the PTO and bracket assembly (276629B) yoke end from the implement gearbox splined shaft. Remove the other end from the adapter plate (277012B) bolted on the tongue weldment with capscrews and lock nuts. (FIG. 4-4)
- 4. Once the PTO and bracket assembly is removed, clean and grease the implement gearbox splined shaft.
- 5. Secure PTO and bracket assembly and driveline assembly to right-hand side cart brackets.

Seasonal Storage

Always open flow door, horizontal and vertical auger cleanout doors to remove any remaining grain and to allow moisture to dry.

Wash machine inside and out before storing to remove dirt and debris that can draw and collect moisture. When using pressure washers maintain an adequate distance so not to force water into bearings.

Lubricate machine at all points outlined.

Repaint all areas where paint has been removed to keep rust from developing. Rust will affect grain flow.

Coat exposed cylinder piston rods with rust preventative material if applicable.



Inspect machine for parts that may need to be replaced so they may be ordered in the off season.

If unit is equipped with a scale indicator or electric hydraulic controls, store these indoors in a dry location.

Close the tarp to keep debris out of the hopper.

Auger System

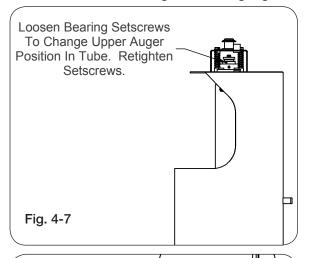
Vertical Auger

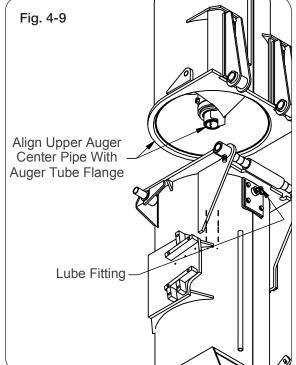
Annually check all bolts, nuts, and set screws. Perform lubrication as specified.

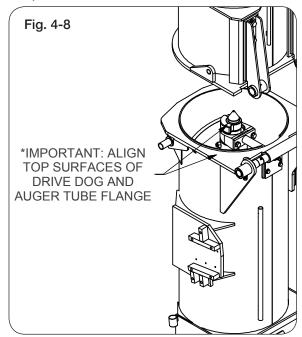
Before servicing the vertical auger, park the unit on a firm, level surface. Block the wheels/ tracks to keep the machine from moving. Raise vertical auger to discharge position and close horizontal auger flow door. Set the tractor parking brake, turn off tractor engine, remove ignition key, and disconnect PTO shaft and hydraulic lines from tractor.

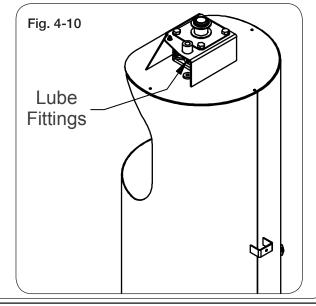
NOTE: The lower auger position is indexed from the drive dog / tube flange hinge surface as shown. (Fig. 4-8)

NOTE: Hanger bearing contains zerk (9005240) with pressure relief to prevent over-greasing that could push bearing seals out. If grease comes out of the relief on the zerk, this is normal and the bearing has enough grease. (Fig. 4-9)







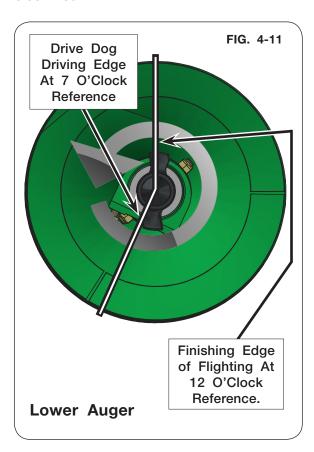


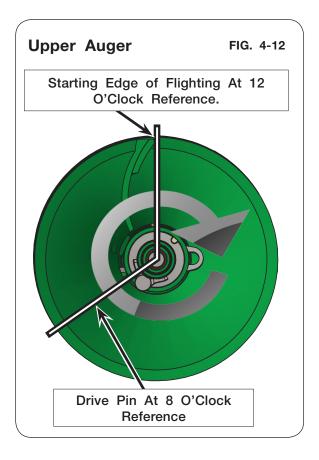
Auger System (continued)

Vertical Auger Timing

1. For the lower vertical auger, use the top edge of the flighting as a 12 o'clock reference. Position the drive dog so the driving edge is at the 7 o'clock position.

NOTE: Looking down at the lower flighting (FIG. 4-11) the auger rotation will be counterclockwise. When looking up at the upper flighting (FIG. 4-12) the auger rotation will be clockwise.





- 2. For the upper auger, use the staring edge of the flighting as a 12 o'clock reference. Postion the driven edge of the drive pin at the 8 o'clock position. See Fig. 4-12.
- 3. When engaged, the upper flighting should immediately follow the lower flighting.

Auger System (continued)

Horizontal Auger

Annually check all bolts, nuts, and set screws. Perform lubrication as specified.

Horizontal Auger Height Measurement

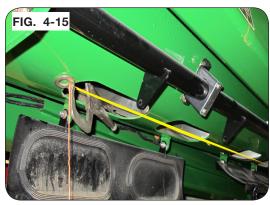
4. Run a string from the front of the cart to the back, above the cleanout doors and linkages as shown in FIG. 4-13.

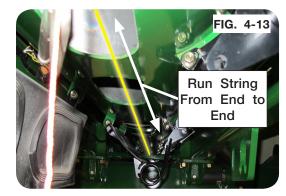
5. Attach the string to the bottom of the belly pan in the front side of the front opening. Place a 3/8"-1/2" spacer under the belly pan and clamp the string to the center of the

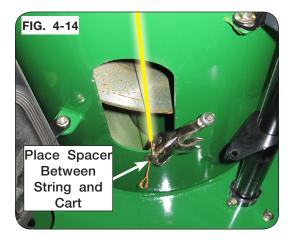
opening as shown in FIG. 4-14.

- 6. Attach the opposite end of the string to the back side of the rear belly pan opening. Place the same thickness of spacer as was used on the front in between the string and the belly pan. Pull the string tight and clamp to the center of the opening. (FIG. 4-15)
- 7. Measure the distance from the string to the bottom of the flighting center pipe in between the flighting pitch. take a measurement through the front opening and the rear opening. If the measurement in the front and rear is different, add a shim under the smaller dimensioned end between the string and the belly pan so the measurements are the same.
- Measure the string to the auger tube either in front or behind the hanger bearing. If this dimension is 1/8" greater than the measurement taken in the front and rear, shims are required on top of the center hanger bearing. (FIG. 4-16)

NOTE: The shims are 1/8" thick each. Add as needed. Shims are available from your Brent dealer.







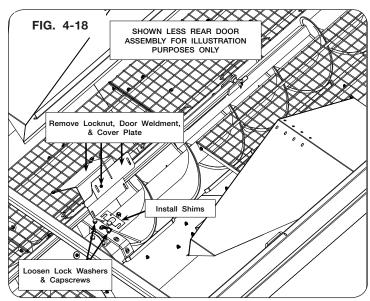


Auger System (continued)

Hanger Bearing Height Adjustment

- Remove the center screens inside the hopper by removing the 3/8" hardware holding them in place. (FIG. 4-17)
- 10. Remove the restrictor weldment on the auger tent at the opening above the hanger bearing. (FIG. 4-18)
- 11. Loosen the two 5/8"x2" capscrews. It is not necessary to remove this hardware if two or fewer shims are being installed. Install the shims from the backside between the bearing and the bracket as shown in FIG. 4-18.





- 12. If more than two shims are necessary to set the bearing height, replace the 5/8" x 1 3/4" capscrews with the 5/8" x 2" capscrews supplied in the kit.
- 13. Re-measure the distance from the flighting tube to the string making sure the string is pulled tight. If the measurements are all within 1/8", the string can be removed.
- 14. Reassemble the restrictor weldment and screens on the inside of the cart.
- 15. Reassemble the cleanout door linkages on the front and rear doors.
- 16. Close cleanout doors and reassemble the cleanout door lock pin.
- 17. Ensure all personnel and tools are removed from the cart and reconnect the cart to the tractor.
- 18. Run the auger starting at a low RPM and increase speed to max RPM to make sure the auger flighting does not make contact with the belly pan or flow doors.

Baffle Adjustment

A WARNING

- TO PREVENT PERSONAL INJURY OR DEATH, ALWAYS ENSURE THAT THERE ARE PEOPLE WHO REMAIN OUTSIDE THE CART TO ASSIST THE PERSON WORKING INSIDE THE CART, AND THAT ALL SAFE WORKPLACE PRACTICES ARE FOLLOWED. THERE ARE RESTRICTED MOBILITY AND LIMITED EXIT PATHS WHEN WORKING INSIDE THE CART.
- NEVER ENTER CART WITH AUGER OR TRACTOR RUNNING. SERIOUS OR FATAL IN-JURY CAN OCCUR DUE TO ENTANGLEMENT WITH ROTATING COMPONENTS. ALWAYS STOP ENGINE AND REMOVE KEY BEFORE ENTERING CART.

Refer to the following reasons for baffle adjustment:

NOTE: To unload the cart evenly from front to back the openings should increase in height from back to front.

- 1. If higher flow is desired and torque is not the limiting factor, raise each baffle to an incremental amount and rerun.
- 2. If more material remains at the back of the cart towards the end of the unloading cycle, the back baffles should be adjusted upward in incremental amounts and rerun.
- 3. If more material remains at the front of the cart towards the end of the unloading cycle, the back baffles should be adjusted downward in incremental amounts and rerun.
- 4. If the cart requires more torque than what is available at times during the unloading cycle, then all baffles should be adjusted downward in incremental amounts.

Baffle Adjustment (continued)

The horizontal auger baffles are factory-set at the lowest position. This position results in the lowest power requirements and longest flighting life. Once grain has been run through the unit, adjustments can be made to achieve the ideal unloading performance.

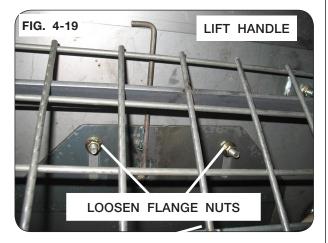
Before making any baffle adjustments, close horizontal auger flow door. Securely block the grain cart, set the tractor parking brake, turn off tractor engine and remove ignition key.

If a higher flow is desired and torque is not a factor, loosen the (2) flange nuts on each baffle, see figure 4-19. Use the lift handle to raise each baffle to the desired position, retighten both flange nuts, see figures 4-19 & 4-20.

NOTE: DO NOT REMOVE ANY SCREEN PAN-ELS. The flange nuts are best accessed using an extended socket wrench and 9/16" socket through the screen panel openings.

NOTE: Screen removed in figure 4-20 for illustration only.







5-Pin Driver Replacement

A WARNING

- TO PREVENT PERSONAL INJURY OR DEATH, ALWAYS ENSURE THAT THERE ARE PEOPLE WHO REMAIN OUTSIDE THE CART 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.
- NEVER ENTER CART WITH AUGER OR TRACTOR RUNNING. SERIOUS OR FATAL IN-JURY CAN OCCUR DUE TO ENTANGLEMENT WITH ROTATING COMPONENTS. ALWAYS STOP ENGINE AND REMOVE KEY BEFORE ENTERING CART.
- EYE PROTECTION AND OTHER APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT MUST BE WORN WHILE SERVICING IMPLEMENT.
- KEEP HANDS CLEAR OF PINCH POINT AREAS.
- FALLING OBJECTS CAN CAUSE SERIOUS INJURY OR DEATH. DO NOT WORK UNDER THE MACHINE AT ANY TIME WHILE BEING HOISTED. BE SURE ALL LIFTING DEVICES AND SUPPORTS ARE RATED FOR THE LOADS BEING HOISTED. THESE ASSEMBLY INSTRUCTIONS WILL REQUIRE SAFE LIFTING DEVICES UP TO 1,000 LBS. SPECIFIC LOAD RATINGS FOR INDIVIDUAL LOADS WILL BE GIVEN AT THE APPROPRIATE TIME IN THE INSTRUCTIONS.

NOTE: Open the flow gates all the way.

 Park the unit on a firm, level surface. Block the wheels to keep the machine from moving. Set the vehicle parking brake, shut off the engine and remove the ignition key and disconnect the PTO shaft or hydraulic drivelines from the tractor.

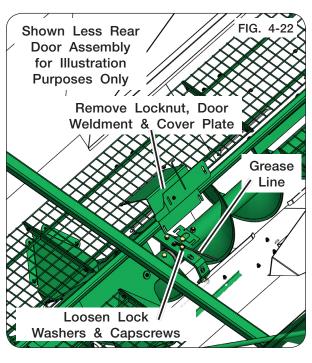


2. Remove the bolts in both middle grates inside the cart. Remove the grates. (Figure 4-21)

NOTE: Retain all hardware for reassembly.

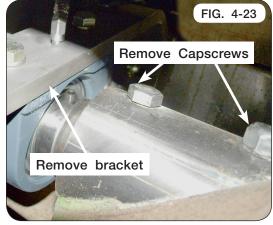
- 3. Disconnect grease line. (Figure 4-22)
- 4. Remove the hanger bearing bolts on each side of the auger.
- 5. Remove capscrews and lock washers holding bearing onto the hanger bearing plate.



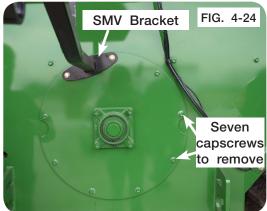


5-Pin Driver Replacement (continued)

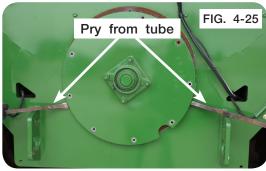
Remove the hanger bearing bracket to allow access to work on the bearing and shaft. Remove two center tube connecting capscrews in the horizontal auger. (Figure 4-23)



- 7. Remove the SMV bracket located on the rear auger cover. (Figure 4-24)
- 8. Remove the capscrews from the auger cover. (Figure 4-24)



9. Pry the auger from the auger tube. (Figure 4-25)



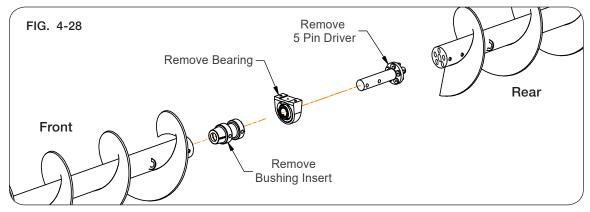
10. Using a safe lifting device rated for a minimum 1,000 lbs., pull the rear auger out 3 feet using a strap. (Figure 4-26)



5-Pin Driver Replacement (continued)

- 11. Remove the original 5-pin driver, bearing and the bushing insert. (Figure 4-27 & Figure 4-28)
- 12. Discard 5-pin driver.



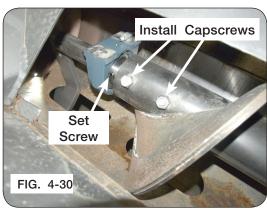


- 13. Substantially coat bushing insert with antiseize.
- 14. Slide bushing insert into front auger and ensure tube holes are aligned. (Figure 4-28 & Figure 4-29)



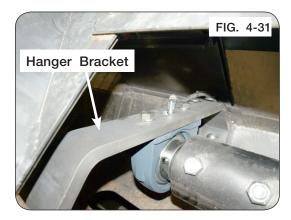
NOTE: Make sure the set screws on bearing are towards the front of the cart. (Figure 4-30)

- 15. Slide bearing onto 5-pin driver. (Figure 4-30)
- 16. Insert new 5-pin driver into front auger and ensure tube holes are aligned.
- Install front capscrews, spacer bushings and locknuts 180 degrees from each other and assemble spacer bushings on threaded side of capscrews. Hand tighten hardware. (Figure 4-30)



5-Pin Driver Replacement (continued)

- Install hanger bracket. Leave the capscrews loose attaching hanger bracket to the cart. Attach hanger bracket to the bearing. (Figure 4-31)
- 19. Reattach grease line components. (Figure 4-31)



- NOTE: Rear auger flighting should lead the front auger flighting.
- 20. Slide the rear auger forward. Align the pins and holes with the rear auger pipe. (Figure 4-32)

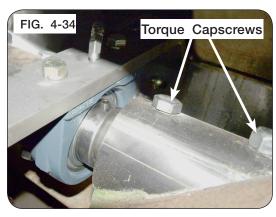


21. Extend a string tightly from front to rear to check horizontal auger alignment. Measure the string to the auger tube either in front or behind the hanger bearing. If this dimension is 1/8" greater than the measurement taken in the front and rear, shims (8GA - 286419B or 12GA - 286424B) are required on top of the center hanger bearing. Ideally the center measurement should be equal to or 1/8" lower than the measurements on the ends of the augers. (Figure 4-33)

NOTE: The shims are 1/8" thick each. Add as needed. See "Auger System - Horizontal Auger Height Measurement" in MAINTENANCE section for more details.

- 22. Torque hanger bracket capscrews to 130 ft.lbs. See Figure 4-31.
- 23. Torque front auger capscrews to 200 ft.-lbs. (Figure 4-34)





5-Pin Driver Replacement (continued)

- 24. Reattach the rear auger cover and SMV bracket back onto the cart. (Figure 4-35)
- 25. Reinstall ALL the grates.



Belt Tightener Adjustment

IMPORTANT

- Do not use belt dressing.
- Keep grease and oil off of belt and pulleys.

NOTE: Pulleys do not need to be removed to remove/replace belt.

Due to prolonged use, belt wear may be evident causing slack. To correct this, follow these steps.

1. Park the unit on firm, level surface. Block the wheels to keep the machine from moving. Set the vehicle parking brake, shut-off the engine, and remove the ignition key from the towing vehicle.



A WARNING

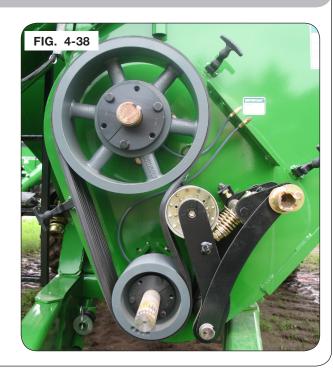
- MOVING OR ROTATING COMPONENTS
 CAN CAUSE SERIOUS INJURY OR
 DEATH. ALWAYS DISCONNECT POWER
 SOURCE BEFORE SERVICING. ENSURE SERVICE COVERS, CHAIN/BELT
 COVERS AND CLEAN-OUT DOOR(S)
 ARE IN PLACE AND SECURELY FASTENED BEFORE OPERATING MACHINE.
- Remove PTO assembly from gearbox input shaft.
- Detension the belt as outlined in OPERATION section. Open the cover guard access door and check if the belt tensioner handle is engaged or disengaged. If required, engage belt tensioner handle to seat belt into the pulleys.





Belt Tightener Adjustment (continued)

4. Remove cover, disengage belt tensioner handle and inspect belts for misalignment, loose parts and cracks. Replace if necessary with a matched set. (Fig. 4-11)



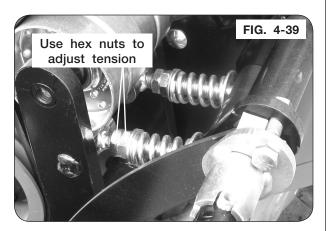
Belt Tightener Adjustment (continued)

- Belt tension is adjusted with hex nuts below the spring. All belt tension MUST be released from linkage. Loosen outer hex nut and adjust inner nut to establish a 3 1/16" pre-load dimension between the heavy washers. Tighten the outer hex nut against inner nut to lock position. (Fig. 4-39)
- 6. Check the lower belt pulley to ensure belt is aligned in their grooves and with the belt tensioner handle, engage the roller/idler linkage against the belt and over-center stop. The compressed spring should now be approximately 1 3/4" between the washers and generating a force of approximately 480 lbs. against the belt. (Fig. 4-40)
- 7. Release and tighten belt multiple times to confirm positions and final adjustments. See Fig. 4-40 and Fig. 4-41.
- Tighten belt to retain them into the lower pulley for cover guard assembly. Reinstall the cover guard and the PTO shaft to the gearbox input shaft. Clear work area and test run drivetrain for 3 minutes at no greater than 1000 RPM.

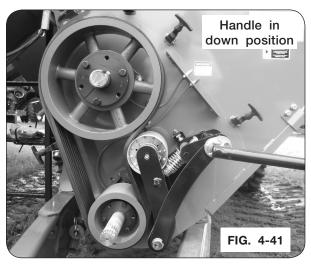
A WARNING

- MOVING OR ROTATING COMPONENTS CAN CAUSE SERIOUS INJURY OR DEATH ENSURE SERVICE COVERS, CHAIN/BELT COVERS AND CLEAN-OUT DOOR ARE IN PLACE AND SECURELY FASTENED BEFORE OPERATING UNIT.
- 9. Disengage PTO and turn off tractor. Through the cover access door, check the compressed spring length is approximately 1 3/4" between the washers and check each belt for uniform tension. If more adjustment is needed, refer to Steps 5 through 7. If no additional spring adjustment is available, then both belts must be replaced with a new matched set.

NOTE: Always replace belts in matched sets.







V-Belt Alignment

- Pulleys must be aligned with the fixed idler. Belts should be centered on idler for longest belt life. (Fig. 4-42)
- 2. After tightening taper-lock bushing hardware, lay a straight edge across face of the drive and driven belt pulleys to ensure alignment between the grooves on the pulleys.

Split Tapered Bushings

Check annually for tight engagement to driveshaft. Torque three bolts progressively to values shown:

- 1 3/4" Bore (Gearbox) 30 ft-lbs.
- 2 1/4" Bore (Horizontal Auger) 75 ft.-lbs.

Some gap must remain between flange & hub when bushing is properly tightened.

To remove from shaft, remove capscrews and insert them in tapped holes in bushing flange. Tighten progressively until bushing disengages.



Verify Telescoping PTO Shaft Length

A WARNING

 PROPER EXTENDED AND COLLAPSED LENGTHS OF THE TELESCOPING PTO SHAFT MUST BE VERIFIED BEFORE FIRST OPERATION WITH EACH AND EVERY TRACTOR. IF THE EXTENDED LENGTH OF THE PTO SHAFT IS NOT SUFFICIENT, IT MAY BECOME UNCOUPLED IN OPERATION AND CAUSE SERIOUS INJURY OR DEATH FROM CONTACT WITH UNCONTROLLED FLAILING OF PTO SHAFT ASSEMBLY COMPONENTS.

IMPORTANT

• Check the length of the telescoping members to insure the driveline will not bottom out or separate when turning and/or going over rough terrain.

Consult your OEM dealer for recommended drawbar and PTO set up.

An excessive collapsed length can result in damage to the PTO driveline and attached components. This is most likely to occur during extreme turning angles and/or travel over rough terrain. Conditions are amplified on tractors with tracks operating in uneven terrain, particularly rice levies. Damaged driveline components can result in unsafe operation and severely reduced driveline component life.

Check the length of the telescoping members to ensure the driveline will not bottom out or separate when turning and/or going over rough terrain.

NOTE: Do not exceed 10 degrees beyond a straight pull line while operating the PTO. To verify proper extended and collapsed lengths, use the following procedure:

1. Fully collapse PTO shaft and measure length "L" (Fig. 4-43).

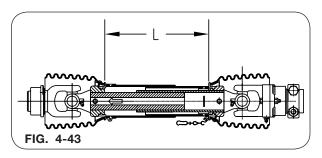
Enter here:_____(1)
(Verify that outer tube does not bottom

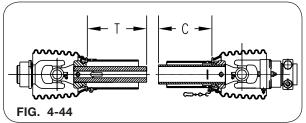
out on surrounding plastic shield components).

2. Pull apart PTO telescoping shaft ends and measure lengths "T" & "C" (Fig. 4-44)

Add "T" + "C" measurments together Enter total here: (2)

- 3. Calculate maximum recommended extended length:
 - a. Subtract line 1 from line 2 Enter here:_____(a)
 - b. Divide line (a) by 2 Enter here:____(b)
 - c. Add line (b) to line 1. Enter here:____(c)
 - d. Subtract 3 inches from line (c) Enter here:_____(d)

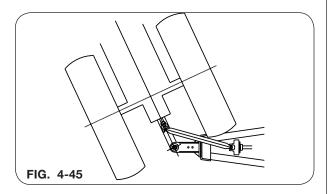


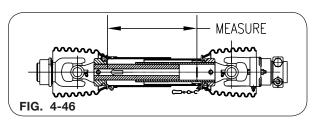


This is the maximum recommended extended length.

Verify Telescoping PTO Shaft Length (continued)

- 4. Hitch tractor drawbar to cart, ensuring that tractor and cart are on level ground and coupled as straight as practical.
- 5. Connect PTO shaft to tractor, and measure length "L" from same points as used in step 1. Ensure that this measurement does not exceed the maximum recommended extended length calculated in step 3 above. If necessary, choose a shorter drawbar position, or obtain a longer PTO shaft assembly before operating cart.
- 6. Position the tractor to obtain the tightest turning angle, relative to the cart (Fig. 4-45).
- 7. Measure the length "L" from the same points as used in step 1. This distance must be at least 1.5 inches greater than the distance measured in step 1. If necessary, adjust the length of the PTO shaft by cutting the inner and outer plastic guard tubes and inner and outer sliding profiles by the same length. Round off all sharp edges and remove burrs before greasing and reassembling shaft halves. (Fig. 4-46)

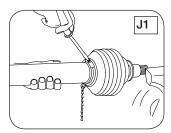


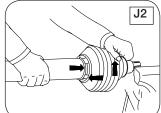


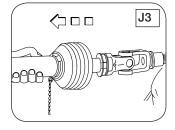
PTO Shaft and Clutch

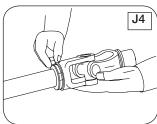
To Dismantle Guard (Figs. J1 - J4)

- 1. Remove locking screw.
- 2. Align bearing tabs with cone pockets.
- 3. Remove half-guard.
- 4. Remove bearing ring.





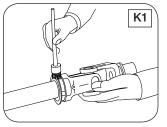


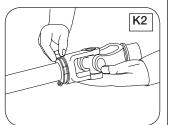


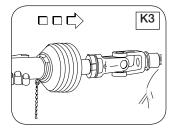
PTO Shaft and Clutch (continued)

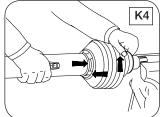
To Assemble Guard (Figs. K1 - K5)

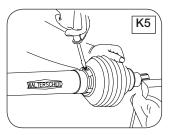
- 1. Grease yoke groove and inner profile tube.
- 2. Fit bearing ring in groove with recesses facing profile tube.
- 3. Slip on half-guard.
- 4. Turn cone until it engages correctly.
- 5. Install locking screw.





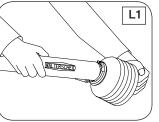


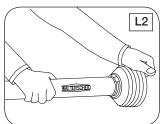


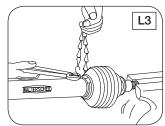


To Assemble Cone (Figs. L1 - L3)

- Dismantle guard (Figs. J1 J3). Remove old cone (e.g. cut open with knife). Take off chain. Place neck of new cone in hot water (approx 800 C / 1800 F) and pull onto bearing housing (Fig. L1).
- Turn guard cone into assembly position (Fig. L2). Further assembly instructions for guard (Figs. K1 - K5).
- 3. Reconnect chain if required (Fig. L3).





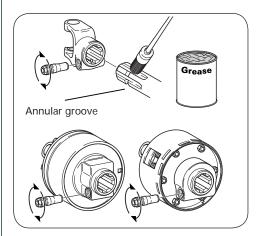


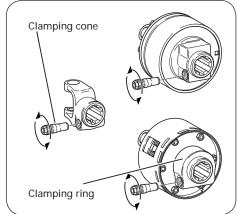
PTO Quick Disconnect

Coupling

Slide clamp yoke or cut-out clutch onto connecting shaft. Make sure the location hole for the clamping cone is positioned above the annular groove of the connecting shaft. Screw appropriate clamping cone into the location hole. Slightly moving the clamp yoke or clutch to and from in the axial direction will help drive in the clamping cone. Check the clamp yoke or clutch for a tight and safe fit and continue to check at regular intervals. Retighten the clamping cone as necessary. Torque clamping cone to 75 ft.-lbs.

When over loading occurs, the clutch disengages and will repeatedly attempt to reset. The clutch will create a repeated "clicking" noise when resetting. Torque demand must decrease for clutch to reset. Refer to "Auger Overload Procedure" in OPERATION section for details.

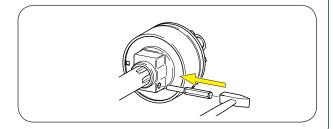






Uncoupling

First dislodge the clamping cone with a punch and hammer from its current position. Unscrew the clamping cone a partial turn. Use the punch and hammer again to help alleviate the torque resistance on the wrench, if necessary. After a few cycles, the clamping cone will move freely with low torque resistance for the removal process.



Tarp Troubleshooting Inspection & Maintenance

| PROBLEM | SOLUTION | |
|---------------------------|---|--|
| TARP SAGS IN MIDDLE AREAS | 1. BOWS MAY BE BENT OR ADJUSTED TOO LOW 2. MISSING OR LOOSE RIDGE STRAP REPLACE OR RETIGHTEN 3. TENSION MAY BE TOO LOOSE. U-JOINT MAY | |
| | NEED TO BE ADJUSTED ON SPLINED SHAFT TO PROVIDE MORE TENSION | |
| HOLES OR TEARS IN TARP | 1. CONSULT YOUR LOCAL DEALER FOR REPAIRS | |
| | 2. ORDER TARP REPAIR KIT FROM DEALER | |
| | 3. WHEN NEW TARP OR PARTS ARE NEEDED ALWAYS REPLACE WITH ORIGINAL PARTS | |

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.

Tears in tarp should be 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.

Electrical System Schematic

GRAIN CART WIRES

White -- Ground

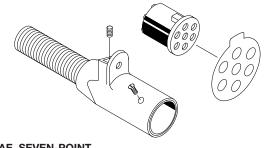
Green -- Right Amber Flashing Lamp Yellow -- Left Amber Flashing Lamp

Brown -- Amber Clearance and

Red Tail Lights (Low Filament)

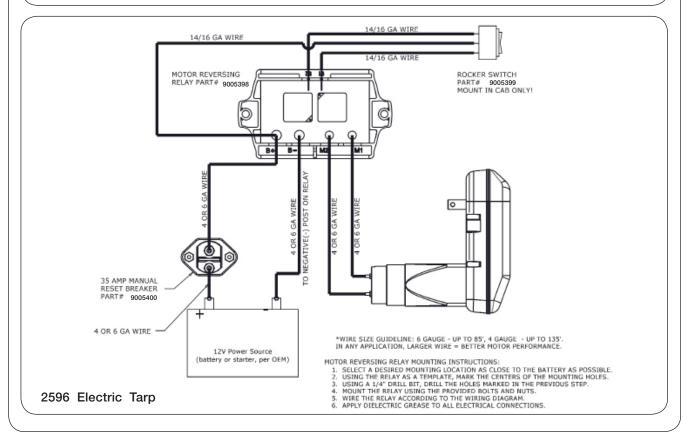
Red -- Red Brake Lights (High Filament)

Black -- Work Lights
Blue -- NOT USED

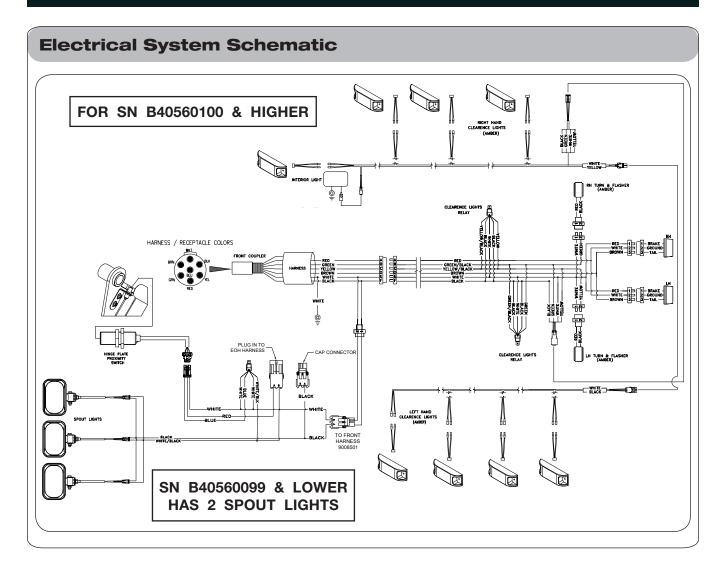


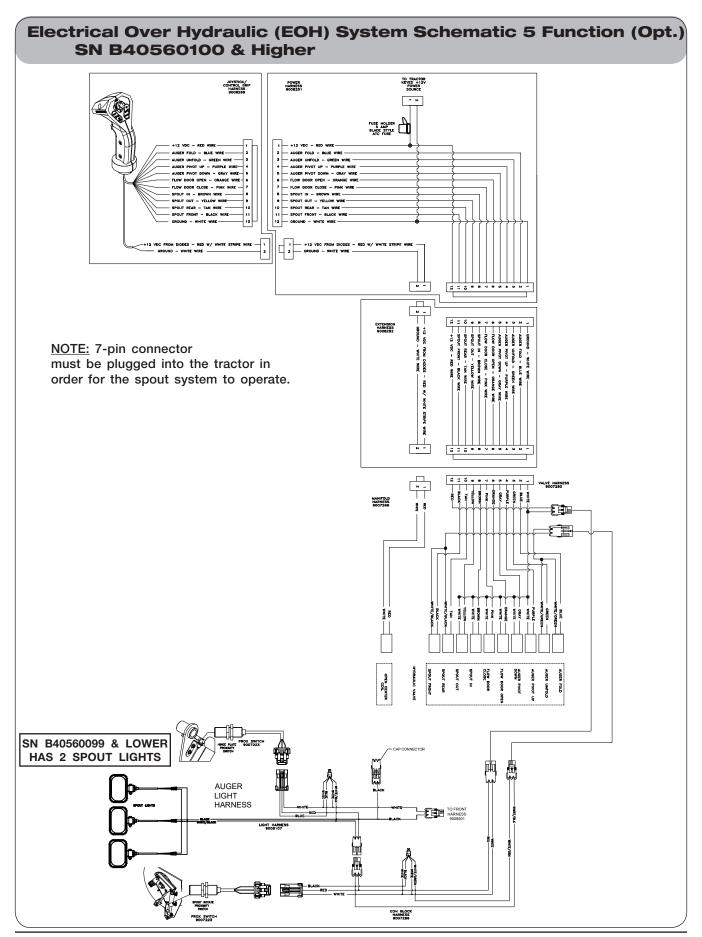
SAE SEVEN-POINT CONNECTOR PLUG

220912

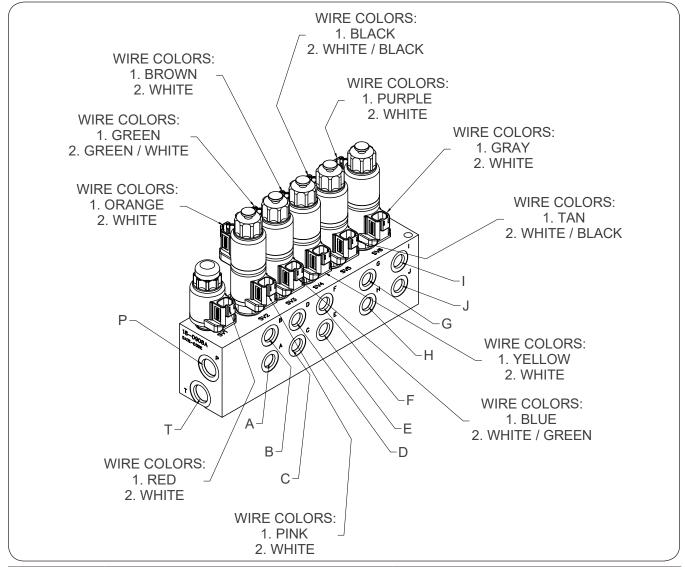


Brent 2596 — Maintenance



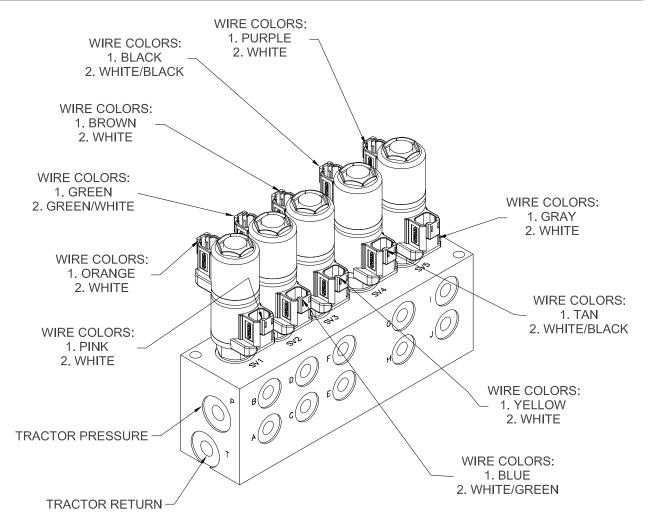


Optional Electric Over Hydraulic Valve Electric Schematic 5 Spool SN B39490100 & Higher



| PORT | END OF CYLINDER | FUNCTION |
|------|-----------------|------------------------------|
| Α | BUTT END | Flow Door |
| В | RAM END | Flow Door |
| С | RAM END | Auger Fold |
| D | BUTT END | Auger Fold |
| E | RAM END | Spout Tilt Out |
| F | BUTT END | Spout Tilt In |
| G | RAM END | Spout Rotate Back |
| Н | BUTT END | Spout Rotate Front |
| I | BUTT END | Auger Tilt Down |
| J | RAM END | Auger Tilt Up |
| Р | | Tractor Pressure |
| Т | | Tractor Return |

Optional Electric Over Hydraulic Valve Electric Schematic 5 Spool SN B39490099 & Lower



| PORT | END OF CYLINDER | FUNCTION |
|------|-----------------|------------------|
| Α | BUTT END | FLOW DOOR |
| В | RAM END | FLOW DOOR |
| С | RAM END | AUGER FOLD |
| D | BUTT END | AUGER FOLD |
| E | RAM END | SPOUT TILT |
| F | BUTT END | SPOUT TILT |
| G | RAM END | SPOUT ROTATE |
| Н | BUTT END | SPOUT ROTATE |
| I | BUTT END | AUGER TILT |
| J | RAM END | AUGER TILT |
| Р | | TRACTOR PRESSURE |
| Т | | TRACTOR RETURN |

Brent 2596 — Maintenance

Track Wheels

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 track 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. | | |

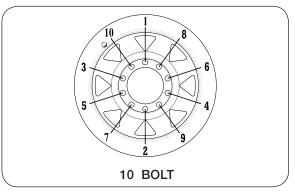


DIAGRAM 1

Complete Torque Chart

Capscrews - Grade 5

NOTE:

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

- For track wheel torque requirements, refer to Track Wheels.
- 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.

Complete Torque Chart

Capscrews - Grade 8

NOTE:

- Grade 8 capscrews can be identified by six radial dashes on the head.

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

| SIZE | FOOT POUNDS | NEWTON METERS |
|----------|----------------|------------------|
| 5/16-18 | 20-22 | 27-30 |
| 5/16-24 | 21-23 | 28-31 |
| 3/8-16 | 35-39 | 47-53 |
| 3/8-24 | 36-41 | 49-55 |
| 7/16-14 | 54-58 | 73-78 |
| 7/16-20 | 55-60 | 75-80 |
| 1/2-13 | 82-88 | 110-120 |
| 1/2-20 | 94-99 | 125-135 |
| 9/16-12 | 127-134 | 170-180 |
| 9/16-18 | 147-155 | 199-210 |
| 5/8-11 | 160-170 | 215-230 |
| 5/8-18 | 165-175 | 225-235 |
| 3/4-10 | 280-295 | 380-400 |
| 3/4-16 | 330-365 | 445-495 |
| 7/8-9 | 410-430 | 555-580 |
| 7/8-14 | 420-440 | 570-595 |
| 1-8 | 630-650 | 850-880 |
| 1-14 | 680-700 | 920-950 |
| 1 1/8-7 | 900-930 | 1220-1260 |
| 1 1/8-12 | 930-950 | 1260-1290 |
| 1 1/4-7 | 1250-1300 | 1695-1760 |
| 1 1/4-12 | 1280-1320 | 1735-1790 |

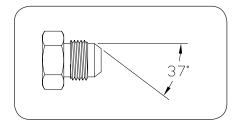
IMPORTANT

Follow these torque recommendations except when specified in text.

Hydraulic Fittings - Torque and Installation

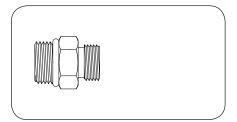
SAE Flare Connection (J. I. C.)

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



SAE Straight Thread O-Ring Seal

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



Section V

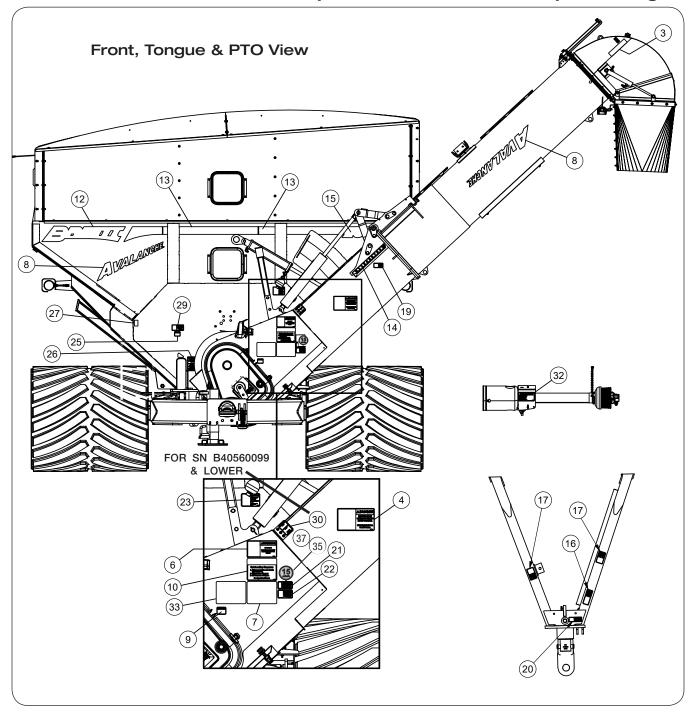
Parts

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

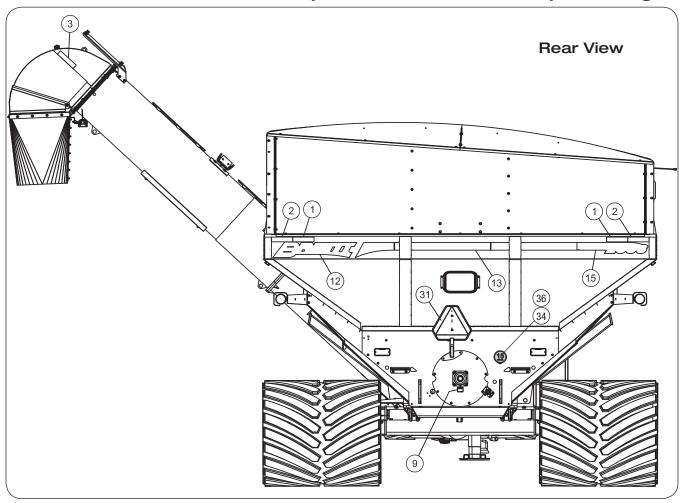
| Decals | 5-2 |
|--|------|
| Touch-Up Paint | |
| Vertical Auger Flighting Components | |
| Horizontal Auger Components - SN B40560100 & Higher | |
| Horizontal Auger Components - SN B40560099 & Lower | |
| Hopper Cross Brace Components | |
| Hopper Flow Door Components | |
| Flow Door Components | |
| Indicator Assembly | |
| Clean Out Door Components | |
| Ladder Components - SN B40560100 & Higher | |
| Hitch & Ladder Components | |
| Sideboard Components - SN B40560100 & Higher | |
| Sideboard Components - SN B40560099 & Lower | |
| Track Axle Mounting Components | |
| EOH Valve Functions & Wire Locations 5 Spool - SN B39490100 & Higher | |
| EOH Valve Functions & Wire Locations 5 Spool - SN B39490099 & Lower | |
| EOH Valve Assembly Components 5 Spool - SN B39490100 & Higher | |
| EOH Valve Assembly Components 5 Spool - SN B39490099 & Lower | |
| EOH Tractor Circuit Hydraulic Components (Optional) | |
| Open Center Components with EOH Option | |
| Flow Door Circuit Hydraulic Components | |
| Auger Tilt Hydraulic Components | |
| Auger Fold Hydraulic Components | |
| EOH Spout Rotate & Tilt Hydraulic Components (Optional) | |
| Cylinders | |
| Gearbox Components | |
| Electrical Components - 5 Function Control Grip | |
| Cut Out Clutch PTO Assembly | |
| Cut Out Clutch ComponentsPTO & Bracket Assembly | |
| Lower Auger Linkage Components | |
| Lower Auger Door & Cover Components | |
| Auger Tube Components | |
| Auger Grease Bank Components | |
| Switch Assembly Components for Rotating Spout Option | |
| Downspout Components | |
| Weather Guard Tarp Components | |
| Hydraulic Jack (Optional) - Kit #276645B | |
| Video System Option | |
| VIUCU DYSIGIII UPIIUII | 5-70 |

FOR SCALE INFORMATION, PLEASE REFER TO YOUR SCALE MANUAL.
FOR TRACK INFORMATION, PLEASE REFER TO YOUR TRACK MANUAL.
FOR UHARVEST INFORMATION, PLEASE REFER TO YOUR UHARVEST MANUAL.
FOR ELECTRIC TARP INFORMATION, PLEASE REFER TO YOUR ELECTRIC TARP MANUAL.
FOR WATER DELIVERY SYSTEM INFORMATION, PLEASE REFER TO YOUR WATER DELIVERY SYSTEM MANUAL.

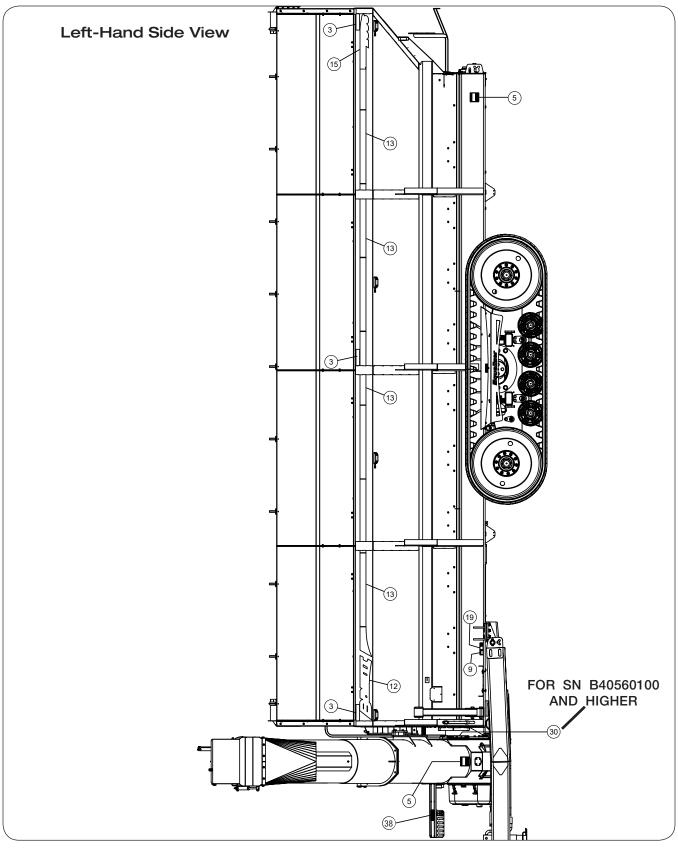
Decals



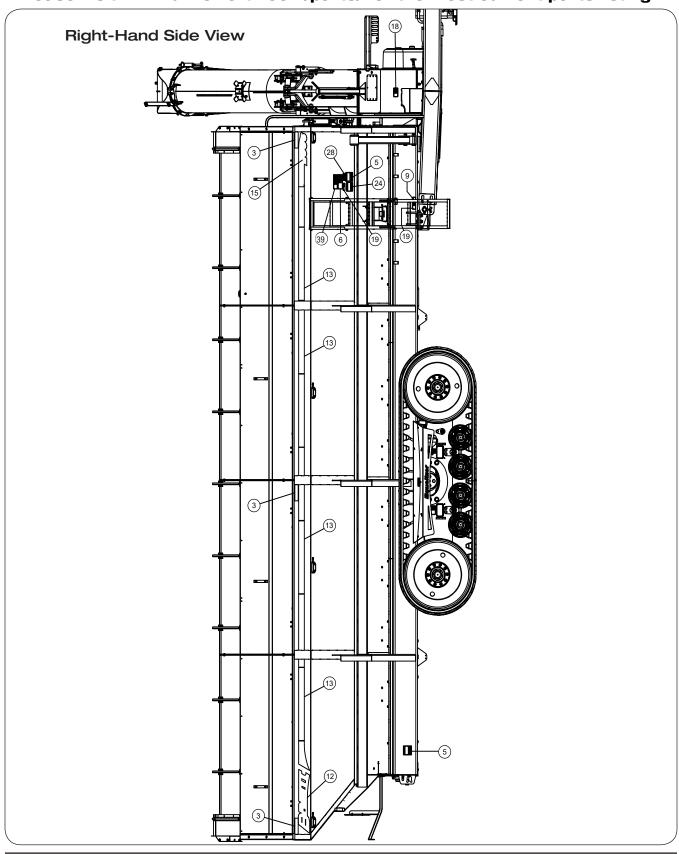
Decals (continued)



Decals (continued)



Decals (continued)



Brent 2596 — Parts

Decals (continued)

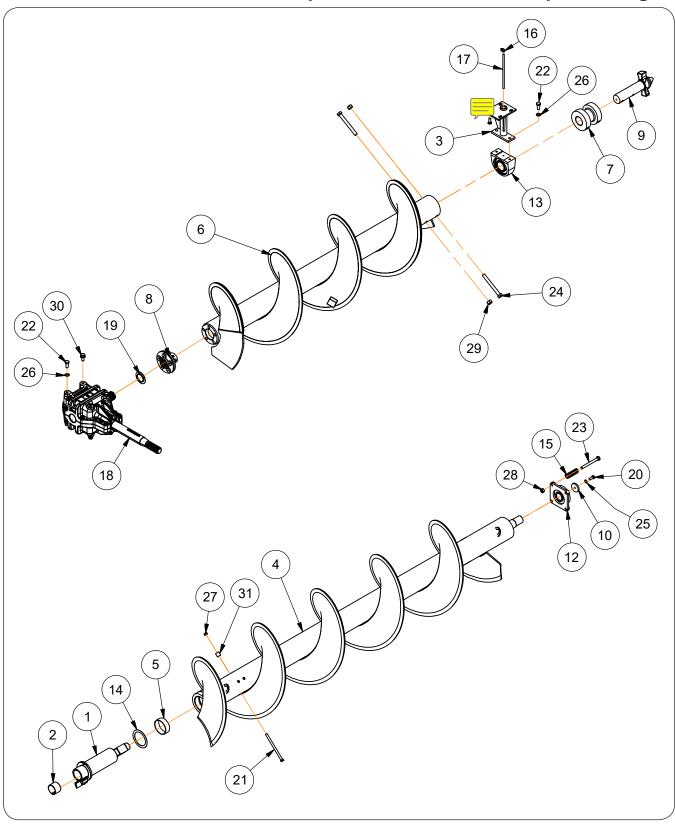
| ITEM | PART NO. | DESCRIPTION | QTY | NOTES |
|------|--------------|---|-----|---------------------------|
| 1 | 9003125 | Reflector 2x9 =FLUORESCENT= | 2 | |
| 2 | 9003126 | Reflector 2x9 =RED= | 2 | |
| 3 | 9003127 | Reflector 2x9 =AMBER= | 7 | |
| 4 | 9003474 | Decal, DANGER (Electrical Lines) | 1 | |
| 5 | 9003475 | Decal, DANGER (Rotating or Moving Parts) | 4 | |
| 6 | 9003476 | Decal, WARNING (No Riders) | 2 | |
| 7 | 9003477 | Decal, IMPORTANT (Operation) | 1 | |
| 8 | 9004271 | Decal, Avalanche | 2 | |
| 9 | 9008947 | Decal, Grease | 4 | |
| 10 | 9004966 | Decal, Cart Loading Sequence | 1 | |
| 12 | 9006588 | Decal, Brent Logo | 4 | |
| 13 | 9006589 | Decal, Stripe | 20 | |
| 14 | 9006601 | Decal, Flow Door | 1 | |
| 15 | 9008173 | Decal, 2596 | 4 | |
| 16 | 94094 | Decal, WARNING (Tongue Rise or Fall) | 1 | |
| 17 | 95046 | Decal, DANGER (Entanglement) | 2 | |
| 18 | 95445 | Decal, WARNING (High Pressure Oil) | 1 | |
| 19 | 95839 | Decal, WARNING (Pinch Point) | 3 | |
| 20 | 97575 | Decal, CAUTION (Transport Chains) | 1 | |
| 21 | 97961 | Decal, WARNING (Read Manual) | 1 | |
| 22 | TA1-906109-0 | Decal, WARNING (Moving Parts Crush/Cut) | 1 | |
| 23 | 900024 | Decal, WARNING (High-Pressure Oil) | 1 | |
| 24 | 9003478 | Decal, DANGER (Never Play In Or On The Grain) | 1 | |
| 25 | 9008947 | Decal, Grease Every Month | 1 | |
| 26 | 9005971 | Decal, WARNING (Suspension System) | 1 | |
| 27 | 91605 | Decal, FEMA | 1 | |
| 28 | 95008 | Decal, CAUTION (Slippery Surface) | 1 | |
| 29 | 98229 | Decal, WARNING (Falling or Lowering Equipment) | 1 | |
| 30 | 9008925 | – Decal, Grease Bank | 1 | For SN B40560100 & Higher |
| 30 | 9008486 | Decai, diease balik | ı | For SN B40560099 & Lower |
| 31 | TA510514 | SMV Emblem | 1 | |
| 32 | 9008470 | Decal, IMPORTANT (Hitching Grain Cart to Tractor) | 1 | |
| 33 | 9008151 | Decal, IMPORTANT (PTO Engagement) | 1 | |
| 34 | 9008716 | Decal, Rear SIS 15MPH | 1 | |
| 35 | 9008717 | Decal, Front SIS 15MPH | 1 | |
| 36 | 9008722 | Decal, Rear SIS 25KPH | 1 | |
| 37 | 9008723 | Decal, Front SIS 25KPH | 1 | |
| 38 | 9008594 | Decal, Hose Legend | 1 | For SN B40240100 & Higher |
| 39 | 9009168 | Decal, WARNING (Ladder Lock Pin) | 1 | |

Touch-Up Paint



| PAINT | SPRAY |
|--------------|---------|
| Black | 97013 |
| Green | 97015 |
| Red | 97301 |
| Primer, Gray | 9500082 |

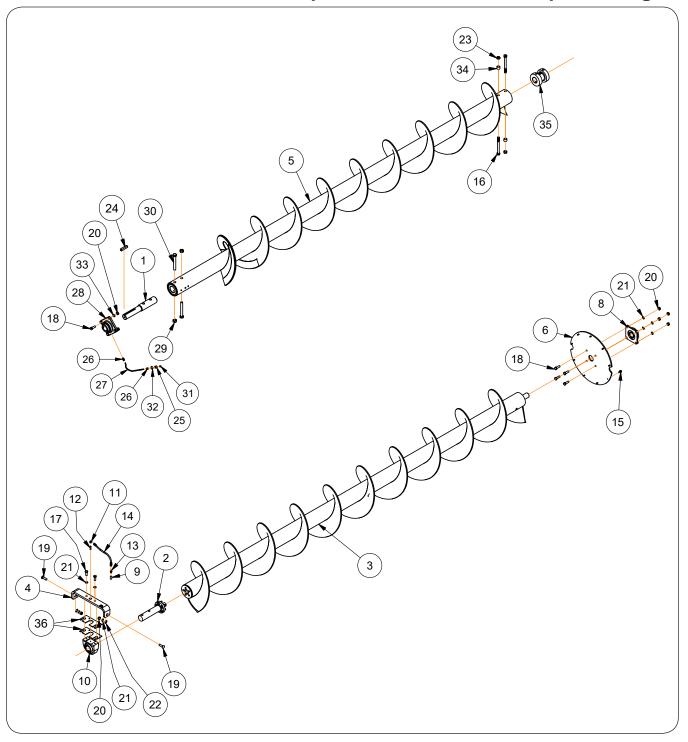
Vertical Auger Flighting Components



Vertical Auger Flighting Components

| ITEM | PART NO. | DESCRIPTION | QTY | NOTES |
|------|------------|---|-----|--|
| 1 | 281283 | Soft Start Assembly | 1 | |
| 2 | 9003230 | Split Bushing 2 3/4 OD x 2 1/2 ID x 2 | 1 | |
| | 293422B | Basilian Burahat Waldarant Black | | For SN B39490100 & Higher |
| 3 | 273124B | Bearing Bracket Weldment =Black= | 1 | For SN B39490099 & Lower |
| 4 | 276548B | Upper Auger Weldment =Black= | 1 | |
| 5 | 9004877 | Split Bushing 4.25 OD x 4.011 ID | - | Not Shown |
| 6 | 287826B | Lower Auger Replacement Kit =Black= | 1 | Fits 1 3/4-20 Spline Gearbox Shaft |
| 7 | 283515 | Auger Tube Adapter | 1 | |
| 8 | 287802 | Drive Plate Assembly (5-Pin) | 1 | |
| 9 | 288813 | Drive Dog Casting | 1 | |
| 10 | 407699 | Washer Plate, 2 1/2" Dia. | 1 | |
| 12 | 9002492 | Bearing 2" Dia. Flanged | 1 | |
| 13 | 9004731 | Pillow Block Bearing, 2 1/2" Bore | 1 | |
| 14 | 9004878 | Self Lubricating Washer | 1 | |
| 15 | 9004899 | Spring - 10 Coils | 4 | |
| 16 | 9004764 | 90° Elbow 1/8" NPTF Female | 1 | |
| 17 | 9005793 | Grease Pipe | 1 | |
| 18 | 9007366 | Gearbox 1 3/4-20 Spline Input Shaft 2 1/4-17 Spline Output Shaft | 1 | See "Gearbox" in this section for parts. |
| 19 | 9007377B | Dust Cover =Black= | 1 | |
| 20 | 9390-100 | Capscrew, 1/2"-13UNC x 1 1/4" G5 | 1 | |
| 21 | 9390-119 | Capscrew, 1/2"-13UNC x 8" G5 | 1 | |
| 22 | 9390-122 | Capscrew, 5/8"-11UNC x 1 1/2" G5 | 8 | |
| 23 | 9390-136 | Capscrew, 5/8"-11UNC x 6" G5 | 4 | |
| 24 | 9390-159 | Capscrew, 3/4"-10UNC x 7" G5 | 2 | |
| 25 | 9404-025 | Lock Washer, 1/2" | 1 | |
| 26 | 9404-030 | Lock Washer, 5/8" | 8 | |
| 27 | 9800 | Locknut, 1/2"-13UNC Grade 5 | 1 | |
| 28 | 9801 | Locknut, 5/8"-11UNC Grade 5 | 4 | |
| 29 | 9802 | Locknut, 3/4"-10UNC Grade 5 | 2 | |
| 30 | 903161-063 | Flange Screw, 5/8"-11UNC x 1 1/4" G5 | 2 | |
| 31 | 410511 | Spacer Bushing | 1 | |

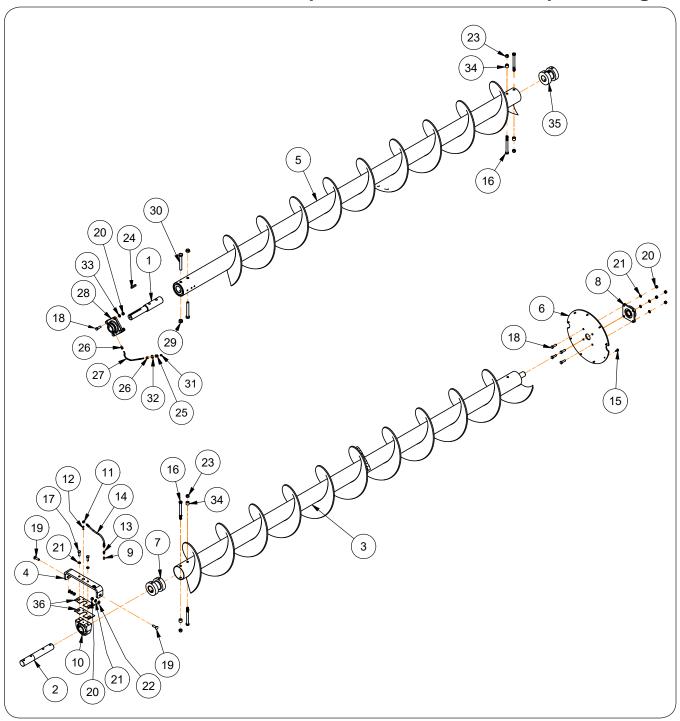
Horizontal Auger Components - For SN B40560100 & Higher



Horizontal Auger Components - For SN B40560100 & Higher

| ITEM | PART NO. | DESCRIPTION | QTY | NOTES |
|------|-----------|---|-----|--|
| 1 | 273779 | Auger Shaft 2 1/2 Dia. x 18 | 1 | |
| 2 | 293957 | Auger Coupler Shaft Weldment | 1 | |
| 3 | 295271B | Rear Flighting Weldment =Black= | 1 | For SN B42070100 & Higher |
| 4 | 286382B | Bearing Mount Bar =Black= | 1 | |
| 5 | 295269B | Front Flighting Weldment = Black= | 1 | For SN B42070100 & Higher Includes Items 5, 16, 23, 29, 30, 34, 35 |
| 6 | 283097G | Cover Plate =Green= | _ | |
| 6 | 283097R | Cover Plate =Red= | 1 | |
| 8 | 9002492 | Bearing 2" Dia. Flanged | 1 | |
| 9 | 9002538 | Coupling Pipe 1/8NPT | 1 | |
| 10 | 9004731 | Bearing - Pillow Block | 1 | |
| 11 | 9004764 | 90° Elbow Pipe | 1 | |
| 12 | 9006964 | Hex Pipe Nipple | 1 | |
| 13 | 9002479 | Adapter | 1 | |
| 14 | 9006965 | Grease Hose 1/8" x 15" (3000 PSI) | 1 | |
| 15 | 91262 | Large Flange Screw 3/8"-16UNC x 1" | 9 | Grade 5 |
| 16 | 91299-161 | Capscrew, 3/4"-10UNC x 8" | 4 | Grade 8 |
| 17 | 9390-123 | Capscrew 5/8"-11UNC x 1 3/4" | 2 | Grade 5 |
| 18 | 9390-124 | Capscrew 5/8"-11UNC x 2" | 4 | Grade 5 |
| 19 | 9388-136 | Carriage Bolt, 5/8"-11UNC x 2 1/4" | 2 | Grade 5 |
| 20 | 9394-014 | Hex Nut, 5/8"-11UNC | 10 | Grade 5 |
| 21 | 9404-029 | Lock Washer 5/8" | 8 | |
| 22 | 9405-098 | Flat Washer 5/8" SAE | 2 | |
| 23 | 9802 | Lock Nut/Top, 3/4-10UNC | 2 | Grade B |
| 24 | 9002562 | Key 1/2 x 1/2 x 2 1/2 | 1 | |
| 25 | 9003949 | Pipe Coupling | 1 | |
| 26 | 9005073 | Quicklinc Fitting 1/4" Tube x 1/8NPT Straight | 2 | |
| 27 | 9005074 | Nylon Tube 1/4" OD | 1 | |
| 28 | 9005565 | Flange Bearing 4-Bolt, 2 1/4" ID | 1 | |
| 29 | 91141 | Locknut 7/8-9UNC | 2 | |
| 30 | 91299-178 | Capscrew 7/8"-9UNC x 7" | 2 | Grade 8 |
| 31 | 93426 | Grease Zerk | 1 | |
| 32 | 9405-076 | Flat Washer 3/8" USS | 1 | |
| 33 | 9404-030 | Lock Washer 5/8" Heavy-Duty | 4 | |
| 34 | 283895B | Spacer Bushing | 2 | |
| 35 | 295031 | Auger Adapter Casting | 1 | |
| 36 | 286424 | Bearing Shim Plate | A/R | |

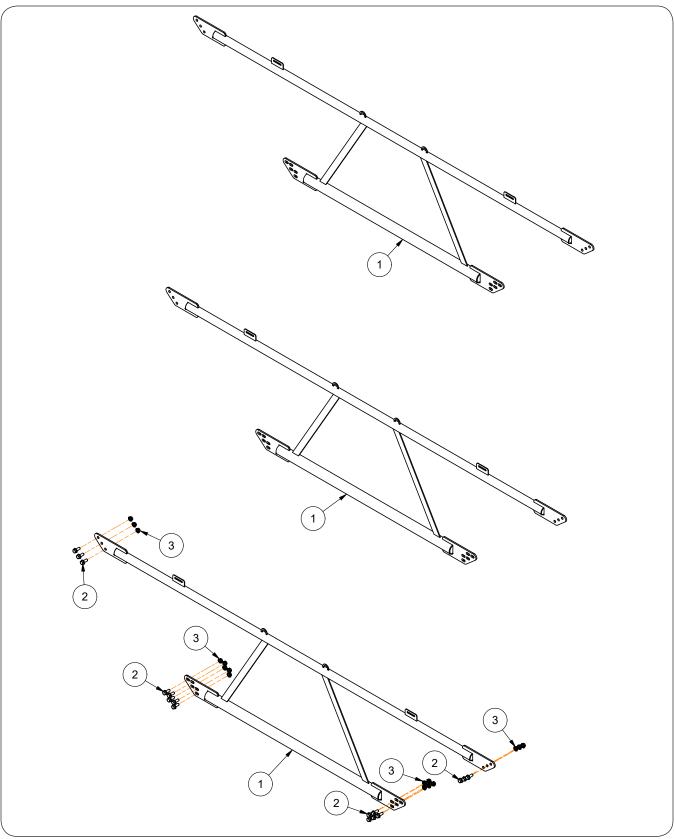
Horizontal Auger Components - For SN B40560099 & Lower



Horizontal Auger Components - For SN B40560099 & Lower

| ITEM | PART NO. | DESCRIPTION | QTY | NOTES |
|------|-----------|---|-----|--|
| 1 | 273779 | Auger Shaft 2 1/2 Dia. x 18 | 1 | |
| 2 | 286379 | Auger Drive Shaft 2 1/2" Dia. | 1 | |
| 3 | 295741B | Rear Flighting Weldment =Black= | 1 | |
| 4 | 286382B | Bearing Mount Bar =Black= | 1 | |
| 5 | 295269B | Front Flighting Weldment =Black= | 1 | Includes Items 5, 16, 23, 29, 30, 34, 35 |
| 6 | 283097G | Cover Plate =Green= | 1 | |
| 0 | 283097R | Cover Plate =Red= | ' | |
| 7 | 283515 | Auger Tube Adapter | 1 | |
| 8 | 9002492 | Bearing 2" Dia. Flanged | 1 | |
| 9 | 9002538 | Coupling Pipe 1/8NPT | 1 | |
| 10 | 9004731 | Bearing - Pillow Block | 1 | |
| 11 | 9004764 | 90° Elbow Pipe | 1 | |
| 12 | 9006964 | Hex Pipe Nipple | 1 | |
| 13 | 9002479 | Adapter | 1 | |
| 14 | 9006965 | Grease Hose 1/8" x 15" (3000 PSI) | 1 | |
| 15 | 91262 | Large Flange Screw 3/8"-16UNC x 1" | 9 | Grade 5 |
| 16 | 91299-161 | Capscrew, 3/4"-10UNC x 8" | 4 | Grade 8 |
| 17 | 9390-123 | Capscrew 5/8"-11UNC x 1 3/4" | 2 | Grade 5 |
| 18 | 9390-124 | Capscrew 5/8"-11UNC x 2" | 4 | Grade 5 |
| 19 | 9388-136 | Carriage Bolt, 5/8"-11UNC x 2 1/4" | 2 | Grade 5 |
| 20 | 9394-014 | Hex Nut, 5/8"-11UNC | 10 | Grade 5 |
| 21 | 9404-029 | Lock Washer 5/8" | 8 | |
| 22 | 9405-098 | Flat Washer 5/8" SAE | 2 | |
| 23 | 9802 | Lock Nut/Top, 3/4-10UNC | 2 | Grade B |
| 24 | 9002562 | Key 1/2 x 1/2 x 2 1/2 | 1 | |
| 25 | 9003949 | Pipe Coupling | 1 | |
| 26 | 9005073 | Quicklinc Fitting 1/4" Tube x 1/8NPT Straight | 2 | |
| 27 | 9005074 | Nylon Tube 1/4" OD | 1 | |
| 28 | 9005565 | Flange Bearing 4-Bolt, 2 1/4" ID | 1 | |
| 29 | 91141 | Locknut 7/8-9UNC | 2 | |
| 30 | 91299-178 | Capscrew 7/8"-9UNC x 7" | 2 | Grade 8 |
| 31 | 93426 | Grease Zerk | 1 | |
| 32 | 9405-076 | Flat Washer 3/8" USS | 1 | |
| 33 | 9404-030 | Lock Washer 5/8" Heavy-Duty | 4 | |
| 34 | 283895B | Spacer Bushing | 2 | |
| 35 | 295031 | Auger Adapter Casting | 1 | |
| 36 | 286424 | Bearing Shim Plate | A/R | |

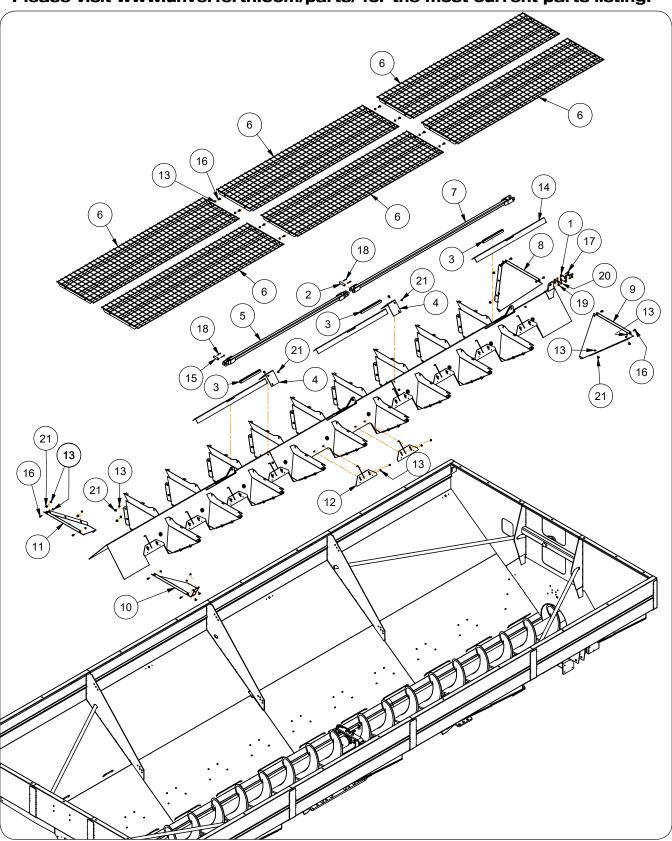
Hopper Cross Brace Components



Hopper Cross Brace Components

| ITEM | PART NO. | DESCRIPTION | QTY | NOTES |
|------|------------|----------------------------------|-----|---------------------------|
| 1 | 294359B | Cross Brace Weldment =Black= | 3 | For SN B40560100 & Higher |
| | 276702B | | | For SN B40560099 & Lower |
| 2 | 903161-064 | Flange Screw 5/8"-11UNC x 1 1/2" | 48 | |
| 3 | 9502324 | Serrated Flange Nut 5/8"-11UNC | 48 | |

Hopper Flow Door Components

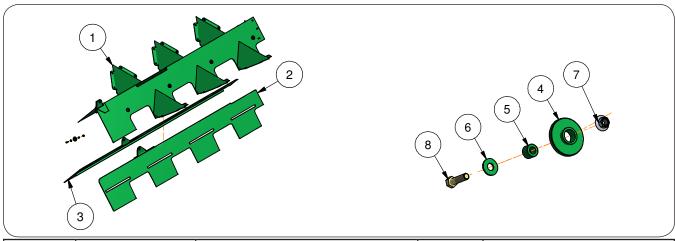


Hopper Flow Door Components

| ITEM | PART NO. | DESCRIPTION | QTY | NOTES |
|------|----------|--|-----|---------|
| 1 | 271054 | Cylinder Mount Plate | 1 | |
| 2 | 271112 | Idler Pin 1" Dia. x 4" | 1 | |
| 3 | 271331B | Seal Plate =Black= | 6 | |
| 4 | 272141B | Cover Plate =Black= | 2 | |
| 5 | 273314B | Rear Flow Door Linkage Weld't =Black= | 1 | |
| 6 | 294372B | Screen Weldment =Black= | 6 | |
| 7 | 274675B | Front Flow Door Linkage Weld't =Black= | 1 | |
| 8 | 276581B | Front LH Baffle =Black= | 1 | |
| 9 | 276582B | Front RH Baffle =Black= | 1 | |
| 10 | 276583B | Rear RH Baffle =Black= | 1 | |
| 11 | 276584B | Rear LH Baffle =Black= | 1 | |
| 12 | 284721B | Restrictor Weldment =Black= | 4 | |
| 13 | 9008159 | Locknut, 3/8-16UNC | 117 | |
| 14 | 282187B | Tent Hole Cover Plate =Black= | 3 | |
| 15 | 804572 | Cylinder Pin 1 x 3 1/2 | 1 | |
| 16 | 91262 | Large Flange Screw 3/8-16 UNC x 1 | 25 | Grade 5 |
| 17 | 9390-103 | Capscrew 1/2-13 UNC x 2 | 4 | Grade 5 |
| 18 | 9391-046 | Cotter Pin 3/16 Dia. x 2 | 4 | |
| 19 | 9394-010 | Hex Nut 1/2-13 UNC | 4 | Grade 5 |
| 20 | 9404-025 | Lock Washer 1/2 | 4 | |
| 21 | 95585 | Large Flange Screw 3/8-16 UNC x 3/4 | 92 | Grade 5 |

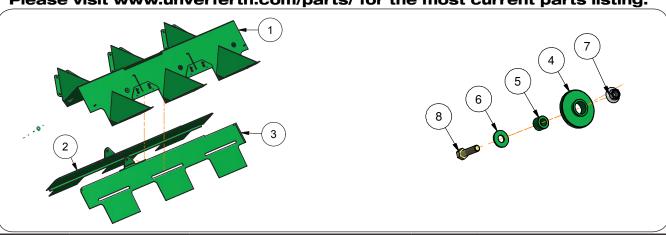
Flow Door Components — Front Flow Door

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



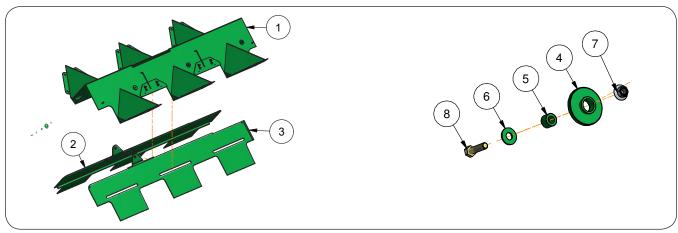
| ITEM | PART NO. | DESCRIPTION | QTY | NOTES |
|------|-----------|-------------------------------------|-----|---------------------------|
| 1 | 294368B | Front Tent Weldment | 4 | For SN B40560100 & Higher |
| ' | 276586B | Front Tent Weldment | ' | For SN B40560099 & Lower |
| 2 | 274624B | Front LH Door Weldment | 1 | |
| 3 | 274625B | Front RH Door Weldment | 1 | |
| 4 | 284168 | Bushing 2 1/4 OD x 49/64 ID x 0.500 | 8 | |
| 5 | 284169 | Bushing 3/4 OD x 7/16 ID x 0.531 | 8 | |
| 6 | 9005471 | Flat Washer 3/8 (Hardened) | 8 | |
| 7 | 9008159 | Top Lock Nut 3/8-16 UNC Gr.5 | 8 | |
| 8 | 91299-057 | Capscrew 3/8-16UNC x 1 1/2 Gr.8 | 8 | |

Flow Door Components — Middle Flow Door



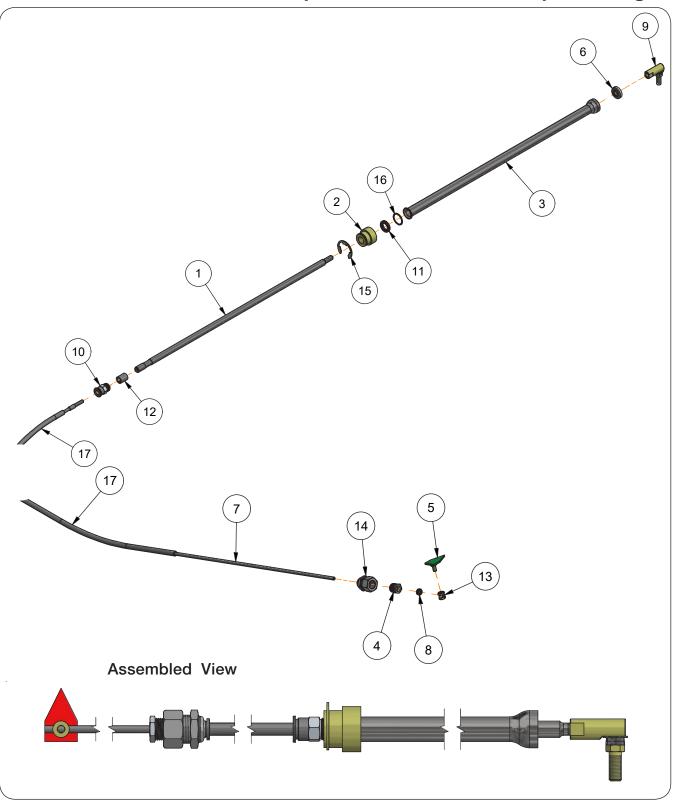
| ITEM | PART NO. | DESCRIPTION | QTY | NOTES |
|----------|-----------|-------------------------------------|-----|---------------------------|
| 4 | 294369B | Middle Tent Weldment | 1 | For SN B40560100 & Higher |
| <u>'</u> | 276589B | whate tent weldinent | | For SN B40560099 & Lower |
| 2 | 273246B | Middle RH Door Weldment | 1 | |
| 3 | 273247B | Middle LH Door Weldment | 1 | |
| 4 | 284168 | Bushing 2 1/4 0D x 49/64 ID x 0.500 | 6 | |
| 5 | 284169 | Bushing 3/4 OD x 7/16 ID x 0.531 | 6 | |
| 6 | 9005471 | Flat Washer 3/8 (Hardened) | 6 | |
| 7 | 9008159 | Top Lock Nut 3/8-16 UNC Gr.5 | 6 | |
| 8 | 91299-057 | Capscrew 3/8-16UNC x 1 1/2 Gr.8 | 6 | |

Flow Door Components — Rear Flow Door



| ITEM | PART NO. | DESCRIPTION | QTY | NOTES |
|------|-----------|-------------------------------------|-----|---------------------------|
| | 294370B | Rear Tent Weldment | 1 | For SN B40560100 & Higher |
| | 276591B | Rear Territ Weldment | l I | For SN B40560099 & Lower |
| 2 | 274629B | Rear LH Door Weldment | 1 | |
| 3 | 274630B | Rear RH Door Weldment | 1 | |
| 4 | 284168 | Bushing 2 1/4 OD x 49/64 ID x 0.500 | 6 | |
| 5 | 284169 | Bushing 3/4 OD x 7/16 ID x 0.531 | 6 | |
| 6 | 9005471 | Flat Washer 3/8 (Hardened) | 6 | |
| 7 | 9008159 | Top Lock Nut 3/8-16 UNC Gr.5 | 6 | |
| 8 | 91299-057 | Capscrew 3/8-16UNC x 1 1/2 G8 | 6 | |

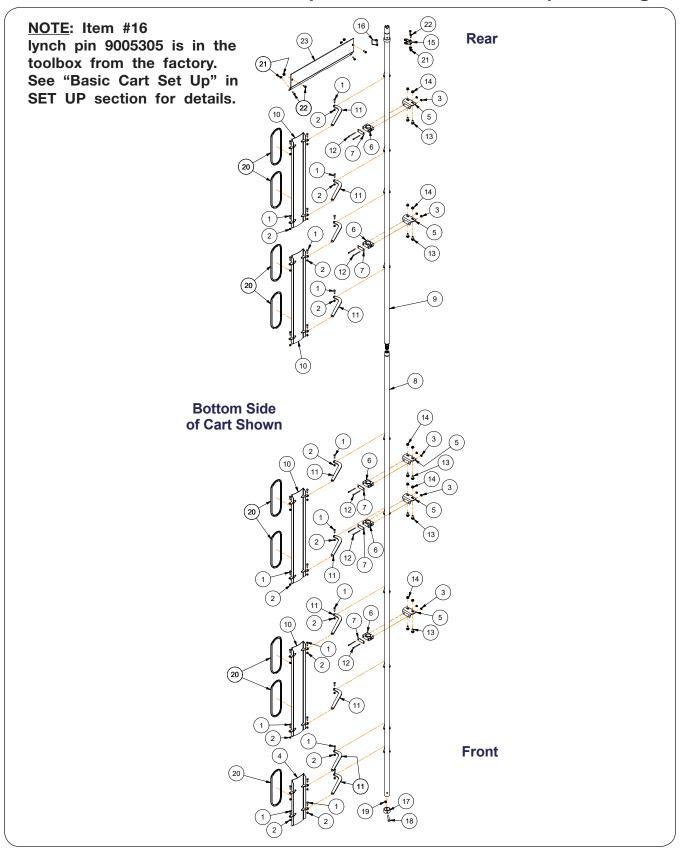
Indicator Assembly



Indicator Assembly

| ITEM | PART NO. | DESCRIPTION | QTY | NOTES |
|------|----------|------------------------------|-----|-----------------------------|
| | 271584 | Complete Indicator Assembly | 1 | Includes Items 1 through 17 |
| 1 | 271582 | Push Rod Indicator | 1 | |
| 2 | 271585 | Bushing - Coupler | 1 | |
| 3 | 271589 | Cable Tube (Push Rod) | 1 | |
| 4 | 271593 | Reducer Bushing | 1 | |
| 5 | 271595R | Flow Door Indicator =Red= | 1 | |
| 6 | 9006610 | Seal (Wiper) | 1 | |
| 7 | 9006611 | Inner Cable (Conduit) - 3/16 | 1 | |
| 8 | 9008612 | Seal (Shaft) | 1 | |
| 9 | 9006630 | Rod End, 3/8" | 1 | |
| 10 | 9006634 | Connector Fitting | 1 | |
| 11 | 9006635 | Quad Ring | 1 | |
| 12 | 9006636 | Wear Ring | 1 | |
| 13 | 271597 | Wire Stop | 1 | |
| 14 | 9006640 | Hose Fitting | 1 | |
| 15 | 9006641 | Snap Ring | 1 | |
| 16 | 9006644 | Retaining Ring - Internal | 1 | |
| 17 | 271586 | Plastic Tubing - 81" | 1 | |

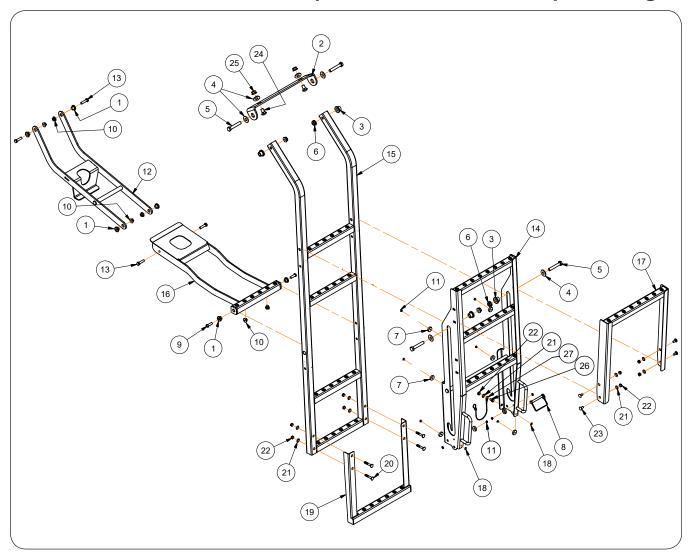
Clean Out Door Components



Clean Out Door Components

| ITEM | PART NO. | DESCRIPTION | QTY | NOTES |
|------|----------|--|-----|-----------------|
| 1 | 9390-056 | Capscrew 3/8"-16UNC x 1 1/4" | 30 | Grade 5 |
| 2 | 9928 | Locknut 3/8"-16UNC | 30 | |
| 3 | 97189 | Large Flange Hex Nut 1/4"-20UNC | 10 | |
| 4 | 273748B | Cleanout Door Weldment =Black= | 1 | |
| 5 | 273741B | Door Pivot Plate =Black= | 5 | |
| 6 | 9006351 | Clamp Pair | 5 | |
| 7 | 9006352 | Top Plate | 5 | |
| 8 | N/A | Front Link Arm Weldment =Black= | 1 | |
| 9 | N/A | Rear Link Arm Weldment =Black= | 1 | |
| 10 | 273730B | Cleanout Door Weldment =Black= | 4 | |
| 11 | 273734B | Door Linkage =Black= | 10 | |
| 12 | 9390-015 | Capscrew 1/4"-20UNC x 3 1/2" | 10 | Grade 5 |
| 13 | 91266 | Flange Screw 1/2"-13UNC x 1 1/4" | 10 | Grade 5 |
| 14 | 91267 | Flange Nut 1/2"-13UNC | 10 | |
| 15 | 273753B | Door Latch Weldment =Black= | 1 | |
| 16 | 9005305 | Lynch Pin 3/8" Dia. x 3" | 1 | |
| 17 | 271566B | Stop Bushing =Black= | 1 | |
| 18 | 9390-108 | Capscrew 1/2"-13UNC x 3 1/4" | 1 | Grade 5 |
| 19 | 94981 | Locknut 1/2"-13UNC | 1 | |
| 20 | 9007108 | Gasket w/Adhesive Backing for Clean-Out Door | AR | Specify in Feet |
| 21 | 91263 | Nut/Large Flange 3/8"-16UNC | 6 | |
| 22 | 91262 | Flange Screw 3/8"-16UNC x 1" G5 | 6 | |
| 23 | 276349B | Support Plate | 1 | |

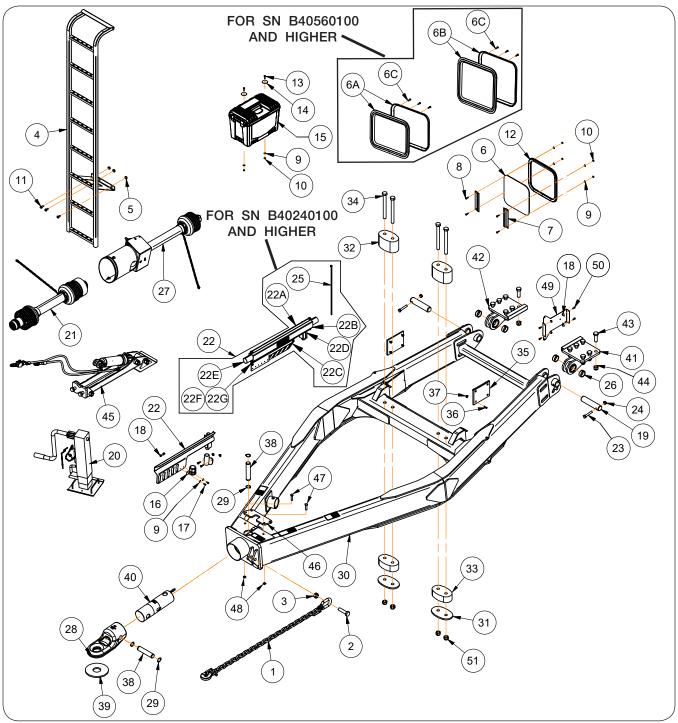
Ladder Components - For SN B40560100 & Higher



Ladder Components - For SN B40560100 & Higher

| ITEM | PART NO. | DESCRIPTION | QTY | NOTES |
|------|----------|--|-----|-------|
| 1 | 2003029 | Nylon Bushing, .625" OD x .406" ID x .380" | 6 | |
| 2 | 289294B | Plate-Bracket, Ladder | 1 | |
| 3 | 2003030 | Nylon Bushing, .875" OD x .531" ID x .563" | 4 | |
| 4 | 9405-088 | Flat Washer, 1/2" USS | 6 | |
| 5 | 9390-107 | Capscrew, 1/2"-13UNC x 3" G5 | 4 | |
| 6 | 9003397 | Lock Nut/Top, 1/2"-13UNC | 4 | |
| 7 | TA620384 | Plastic Stop, 1" Dia. x .250" | 8 | |
| 8 | 9005305 | Lynch Pin 3/8" Dia. x 3" | 1 | |
| 9 | 99985 | Button Head Socket, 3/8"-16UNC x 1 1/4" | 2 | |
| 10 | 9008159 | Lock Nut/Top, 3/8"-16UNC | 6 | |
| 11 | 9003503 | Rivet 3/16 X 1/4 | 8 | |
| 12 | 289717B | Ladder Link Weldment | 1 | |
| 13 | 9390-057 | Capscrew, 3/8"-16UNC x 1 1/2" G5 | 4 | |
| 14 | 289328B | Ladder Extension Weldment | 1 | |
| 15 | 289326B | Ladder Weldment | 1 | |
| 16 | 289280B | Step Weldment | 1 | |
| 17 | 289707B | Ladder Extension Weldment | 1 | |
| 18 | 9004998 | Rivet Burr 3/16" | 4 | |
| 19 | 289844B | Ladder Weldment | 1 | |
| 20 | 9388-029 | Carriage Bolt, 5/16"-18UNC x 2" G5 | 4 | |
| 21 | 9405-064 | Flat Washer, 5/16" ID (1/4" Nominal) USS | 9 | |
| 22 | 901527 | Lock Nut/Center, 5/16"-18UNC | 9 | |
| 23 | 9388-024 | Carriage Bolt, 5/16"-18UNC x 3/4" G5 | 4 | |
| 24 | 9388-102 | Carriage Bolt, 1/2"-13UNC x 1" | 2 | |
| 25 | 91267 | Flange Nut, 1/2"-13UNC | 2 | |
| 26 | 9390-027 | Capscrew, 5/16"-18UNC x 5/8" G5 | 1 | |
| 27 | 97879 | Nylon Lanyard | 1 | |

Hitch & Ladder Components

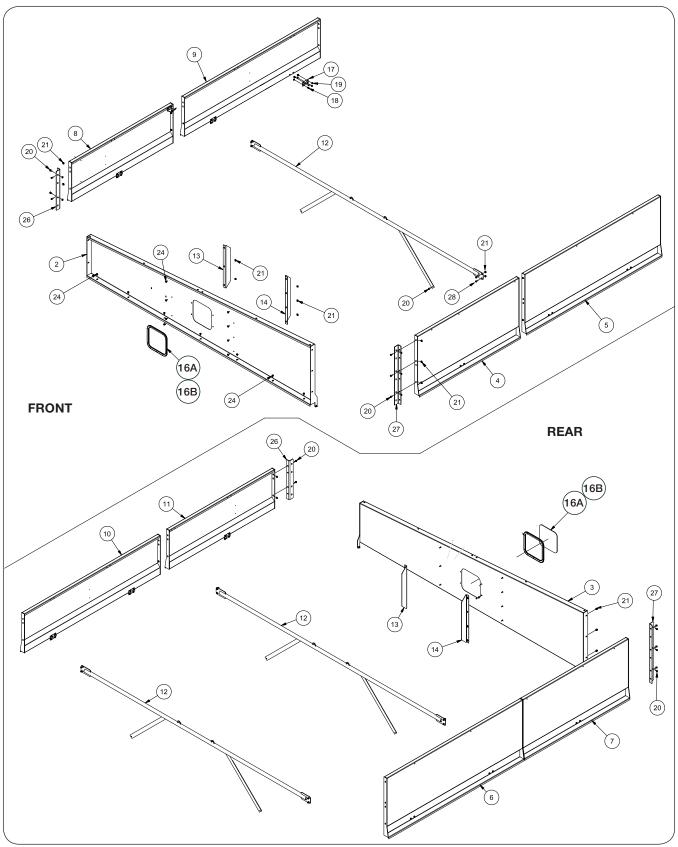


| ITEM | PART NO. | DESCRIPTION | QTY | NOTES |
|------|-----------|--|-----|---------------------------|
| 1 | 9004898 | Transport Chain 41,000# | 1 | |
| 2 | 91299-191 | Capscrew 1-8UNC x 4 | 1 | Grade 8 |
| 3 | 92199 | Locknut 1-8UNC | 1 | |
| 4 | 276393B | Ladder Weldment =Black= | 1 | For SN B40560099 & Lower |
| 5 | 91263 | Nut/Large Flange 3/8-16UNC | 3 | TOI SIN D40000099 & LOWEI |
| 6A | 9008857 | Front Window & Trim Assembly 14 15/32" x 19 21/32" | 2 | |
| 6B | 9008680 | Rear Window & Trim Assembly 17 7/32" x 19 21/32" | 1 | For SN B40560100 & Higher |
| 6C | 9008933 | Pan Head Phillips Screw 8-18UNC x 1/2" | 36 | |

Hitch & Ladder Components

| ITEM | PART NO. | DESCRIPTION | QTY | NOTES |
|-------------|--------------------|---|--------------|------------------------------|
| 6 | 9002544 | Window (Clear Tempered) | 1 | For SN B40560099 & Lower |
| <u> </u> | | Timacii (olodi lolliporod) | | For SN B40560100 & Higher |
| 7 | 294121B | Window Bracket =Black= | 2 | Rear Hopper Slope Only |
| 1 ' 1 | 250461B | William Bracket -Black- | _ | For SN B40560099 & Lower |
| 8 | 9390-005 | Capscrew 1/4-20UNC x 1 | 4 | Grade 5 |
| 9 | 9405-064 | Flat Washer 1/4" | 6 | l diade 5 |
| 10 | 9936 | Locknut 1/4-20UNC | 6 | |
| 11 | 91262 | Capscrew 3/8"-16UNC x 1" G5 | 3 | For SN B40560099 & Lower |
| 12 | 271952 | Window Molding | 1 | For SN B40560099 & Lower |
| 13 | 9390-006 | Capscrew 1/4"-20UNC x 1 1/4" | 2 | Grade 5 |
| 14 | 94763 | Fender Washer | 2 | l diade 3 |
| | 9008634 | Toolbox - 26" | | For SN B39490100 & Higher |
| 15 | 9005850 | Storage Box | 1 | For SN B39490099 & Lower |
| 16 | 9001968 | Trailer Connector Holder | 1 | TO SIN BSS450055 & LOWER |
| 17 | 9390-003 | Capscrew 1/4"-20UNC x 3/4" | 2 | Grade 5 |
| 18 | 97189 | Large Flange Hex Nut 1/4"-20UNC | 6 | urade o |
| 19 | 276335 | Tongue Pin 2" Dia. x 8 7/8" | 2 | |
| | 9005011 | Jack 7,000# Capacity with Pin | 1 | |
| 20 | 9007632 | Jack Pin, 7/8" Dia. w/Chain | 1 | NOT SHOWN |
| 21 | 9008417 | Driveline Assembly Complete | 1 | 1 3/4-20 Spline, W2500 |
| | | Directing Addeniary Complete | | For SN B40240100 & Higher |
| | 294128B | | | Includes Items 22A - 22G, 25 |
| 22 | | Hose Caddy Replacement Kit =Black= | 1 | For SN B40240099 & Lower |
| | 272639B | | | |
| 1 1004 | 0040000 | Lloss Caddy Waldmant Black | 4 | Includes Items #22D & #25 |
| 22A | 294083B | Hose Caddy Weldment =Black= | 1 | |
| 22B | 294085B | Hose Caddy Cover =Black= | 1 | |
| 22C 22D | 294086 | Hose Retainer | 1/0 | Charify in Fact |
| | 9000787 | Trim - Edge | 1/2 | Specify in Feet |
| 22E | 9003848 | Hose Wrap | 3 | Specify in Feet |
| 22F | 91256 | Large Flange Capscrew 5/16-18UNC x 3/4 Grade 5 | 6 | |
| 22G | 91267 | Flange Nut, 1/2-13UNC Grade 5 Capscrew 5/8"-11UNC x 3 1/2" | 6 | Crodo F |
| 23 24 | 9390-130 95905 | Lock Nut/Ctr 5/8"-11UNC | 2 | Grade 5 |
| 25 | 9000104 | Cable Tie, 21 1/2" Lg | A/R | |
| 26 | 9005473 | Split Tension Bushing 2 3/8" OD x 2" ID x 1" | 4 | |
| 27 | 276629B | PTO & Bracket Assembly | 1 | |
| 28 | 282337B | Cast Hitch 4.5" Load Bar =Black= CAT 5 | 1 | |
| 29 | 97289 | Retaining Ring 1 1/2" | 4 | |
| | 276310G | Tongue Weldment =Green= | | |
| 30 | 276310G 276310R | Tongue Weldment =Red= | 1 | |
| 31 | 271687B | Spring Retainer Plate =Black= | 2 | |
| 32 | 9006456 | Polyurethane Spring 4 3/4" Thick | 2 | |
| 33 | 9006457 | Polyurethane Spring 2 1/2" Thick | 2 | |
| 34 | 9390-465 | Capscrew 1"-8UNC x 10 1/2" | 4 | Grade 5 |
| 35 | 273237 | Nylon Wear Pad | 2 | 0.000 |
| 36 | 903171-662 | Screw Flat Countersunk Head Phillips 5/16"-18UNC x 1 1/4" | 8 | |
| 37 | 91257 | Flange Nut 5/16"-18UNC | 8 | |
| 38 | 274864 | Hitch Pin 1 1/2" Dia. x 7 3/8" | 2 | |
| 39 | 281899 | Wearshoe - Hitch, CAT 5 | 1 | |
| 40 | 9008023 | Load Bar 4 1/2" Dia. with 16 ft. Cable CAT 5 | i | |
| | 274818G | Tongue Pivot Weldment Left-Hand =Green= | | |
| 41 | 274818R | Tongue Pivot Weldment Left-Hand =Red= | 1 | |
| 40 | 274819G | Tongue Pivot Weldment Right-Hand =Green= | | |
| 42 | 274819R | Tongue Pivot Weldment Right-Hand =Red= | 1 | |
| 43 | 9390-409 | Capscrew 1"-14UNS x 3" G5 | 12 | |
| 44 | 9008441 | Elastic Lock Nut 1"-14UNS | 12 | |
| 45 | 276645B | Optional Hydraulic Jack Kit (Black) | 1 | |
| 46 | 277012B | Adapter Plate =Black= | 1 | |
| 47 | 9390-123 | Capscrew 5/8"-11UNC x 3/4" G5 | 2 | |
| 48 | 9003398 | Locknut 5/8"-11UNC | 2 | |
| 49 | 289382B | GCM Mounting Bracket =Black= | 1 | |
| 50 | 97420 | Flange Screw 1/4-20UNC x 3/4 | 4 | Grade 5 |
| 51 | 9398-026 | Locknut 1-8UNC | 4 | |
| | | | | |

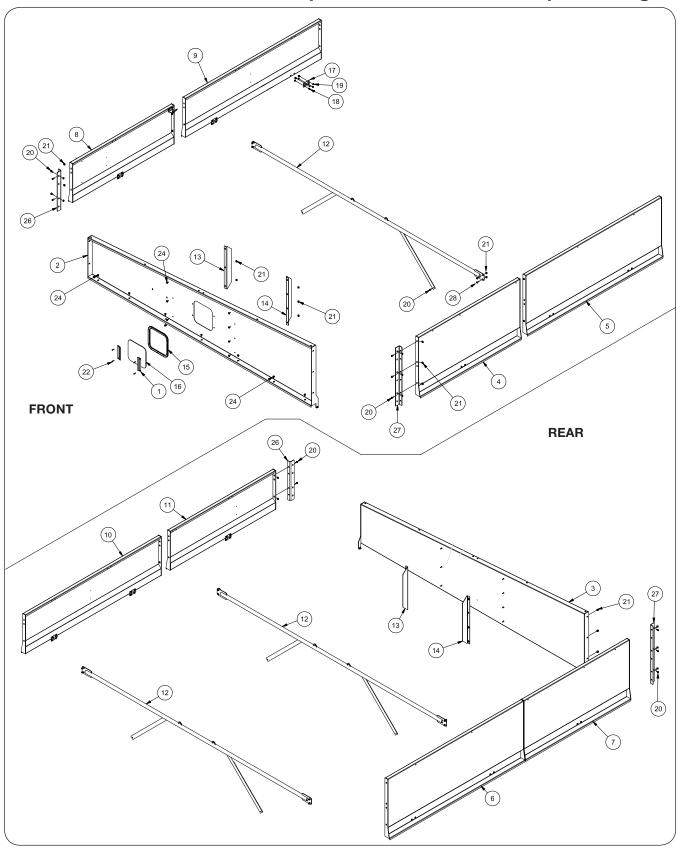
Sideboard Components - For SN B40560100 and Higher



Sideboard Components - For SN B40560100 and Higher

| ITEM | PART NO. | DESCRIPTION | QTY. | NOTES |
|------|----------|--|------|--------------------------|
| 2 | 294356B | Front Board Replacement Kit =Black= | 1 | Includes Items 16A & 16B |
| 3 | 294357B | Rear Board Replacement Kit =Black= | 1 | Includes items for a for |
| 4 | 294332B | Front LH Board Weldment =Black= | 1 | |
| 5 | 294334B | 2nd LH Board Weldment =Black= | 1 | |
| 6 | 294336B | 3rd LH Board Weldment =Black= | 1 | |
| 7 | 294338B | Rear LH Board Weldment =Black= | 1 | |
| 8 | 294341B | Front RH Board Weldment =Black= | 1 | |
| 9 | 294343B | 2nd RH Board Weldment =Black= | 1 | |
| 10 | 294345B | 3rd RH Board Weldment =Black= | 1 | |
| 11 | 294347B | Rear RH Board Weldment =Black= | 1 | |
| 12 | 294362B | Sideboard Brace Weldment =Black= | 3 | |
| 13 | 294365B | Plate - Side Board Brace =Black= | 2 | |
| 14 | 294364B | Plate - Side Board Brace =Black= | 2 | |
| 16A | 9008680 | Window and Trim Assembly | 2 | |
| 16B | 9008933 | Pan Head Phillips Screw 8-18UNC x 1/2" | 24 | |
| 17 | 9004626 | Hinge | 16 | |
| 18 | 91256 | Screw/Large Flange, 5/16-18 UNC x 3/4 | 64 | Grade 5 |
| 19 | 91257 | Hex Nut/Large Flange, 5/16-18 UNC | 64 | Grade 5 |
| 20 | 91262 | Screw/Large Flange, 3/8-16 UNC x 1 | 46 | Grade 5 |
| 21 | 91263 | Hex Nut/Large Flange, 3/8-16 UNC | 72 | Grade 5 |
| 24 | 95585 | Capscrew/Large Flange 3/8-16 UNC x 3/4 | 14 | Grade 5 |
| 26 | 294358B | Plate - Sideboard Corner | 2 | |
| 27 | 294538B | Plate - Sideboard Corner | 2 | |
| 28 | 9003259 | Flange Screw 3/8"-16UNC x 1 1/4" | 12 | |

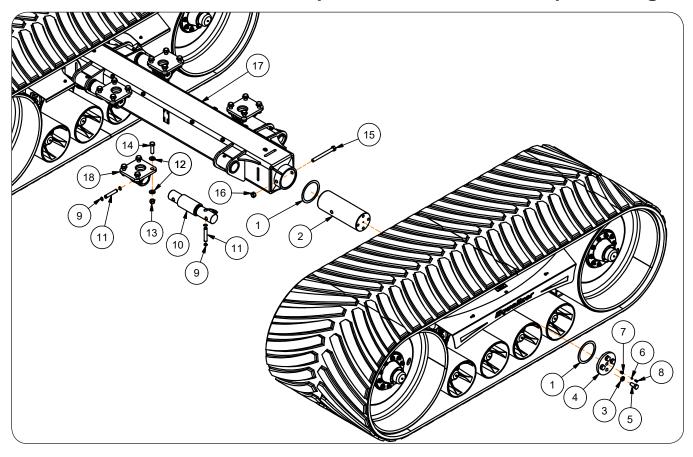
Sideboard Components - For SN B40560099 and Lower



Sideboard Components - For SN B40560099 and Lower

| ITEM | PART NO. | DESCRIPTION | QTY. | NOTES |
|------|----------|--|------|---------|
| 1 | 250461B | Window Bracket =Black= | 2 | |
| 2 | 294118B | Front Board Weldment =Black= | 1 | |
| 3 | 294119B | Rear Board Weldment =Black= | 1 | |
| 4 | 276364B | Front LH Board Weldment =Black= | 1 | |
| 5 | 276366B | 2nd LH Board Weldment =Black= | 1 | |
| 6 | 294336B | 3rd LH Board Weldment =Black= | 1 | |
| 7 | 294338B | Rear LH Board Weldment =Black= | 1 | |
| 8 | 276354B | Front RH Board Weldment =Black= | 1 | |
| 9 | 276356B | 2nd RH Board Weldment =Black= | 1 | |
| 10 | 294345B | 3rd RH Board Weldment =Black= | 1 | |
| 11 | 294347B | Rear RH Board Weldment =Black= | 1 | |
| 12 | 274798B | Sideboard Brace Weldment =Black= | 3 | |
| 13 | 276378B | Plate - Side Board Brace =Black= | 2 | |
| 14 | 276379B | Plate - Side Board Brace =Black= | 2 | |
| 15 | 271952 | Window Molding 48 3/4" Lg. | 1 | |
| 16 | 9002544 | Window | 1 | |
| 17 | 9004626 | Hinge | 16 | |
| 18 | 91256 | Screw/Large Flange, 5/16-18 UNC x 3/4 | 64 | Grade 5 |
| 19 | 91257 | Hex Nut/Large Flange, 5/16-18 UNC | 64 | Grade 5 |
| 20 | 91262 | Screw/Large Flange, 3/8-16 UNC x 1 | 46 | Grade 5 |
| 21 | 91263 | Hex Nut/Large Flange, 3/8-16 UNC | 72 | Grade 5 |
| 22 | 9390-005 | Capscrew 1/4-20 UNC x 1 | 4 | Grade 5 |
| 23 | 9405-064 | Flat Washer 1/4 USS | 4 | |
| 24 | 95585 | Capscrew/Large Flange 3/8-16 UNC x 3/4 | 14 | Grade 5 |
| 25 | 9936 | Locknut/Top 1/4-20 UNC | 4 | Grade 5 |
| 26 | 276397B | Plate - Sideboard Corner | 2 | |
| 27 | 276398B | Plate - Sideboard Corner | 2 | |
| 28 | 9003259 | Flange Screw 3/8"-16UNC x 1 1/4" | 12 | |

Track Axle Mounting Components



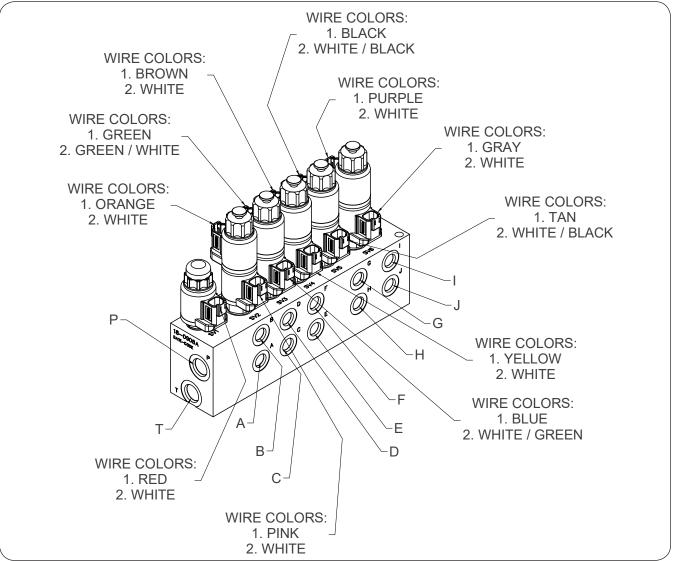
Track Axle Mounting Components

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

| ITEM | PART NO. | DESCRIPTION | QTY | NOTES |
|------|------------|--------------------------------------|-----|---------|
| 1 | 282690 | Washer 8 1/2" OD | 4 | |
| 2 | 282102 | Track Pivot Shaft 7" Dia. | 2 | |
| 3 | 9404-041 | Lock Washer 1" | 8 | |
| 4 | 282689B | Cover Plate | 2 | |
| 5 | 9390-184 | Capscrew 1"-8UNC x 2 1/4" | 8 | Grade 5 |
| 6 | 93426 | Grease Zerk | 2 | |
| 7 | 9006816 | Adapter 1/8"NPT | 2 | |
| 8 | 9006785 | 90° Adapter | 2 | |
| 9 | 91192 | Retaining Ring 1" | 16 | |
| 10 | 9008448 | Load Bar 3 1/2" Dia. w/ 30 Ft. Cable | 4 | |
| 11 | 282876 | Pin 1" Dia. x 5 1/2" | 8 | |
| 12 | 804685 | Hardened Flat Washer 1" | 32 | |
| 13 | 9008441 | Elastic Lock Nut 1"-14UNS | 16 | |
| 14 | 91299-1458 | Capscrew 1"-14UNS x 3 1/2" | 16 | Grade 8 |
| 15 | 9390-464 | Capscrew 1"-8UNC x 10" | 2 | Grade 5 |
| 16 | 92199 | Lock Nut 1-8UNC | 2 | |
| 17 | 267797B | Axle Weldment =Black= | 1 | |
| 18 | 268838B | Axle Mount Casting =Black= | 4 | |

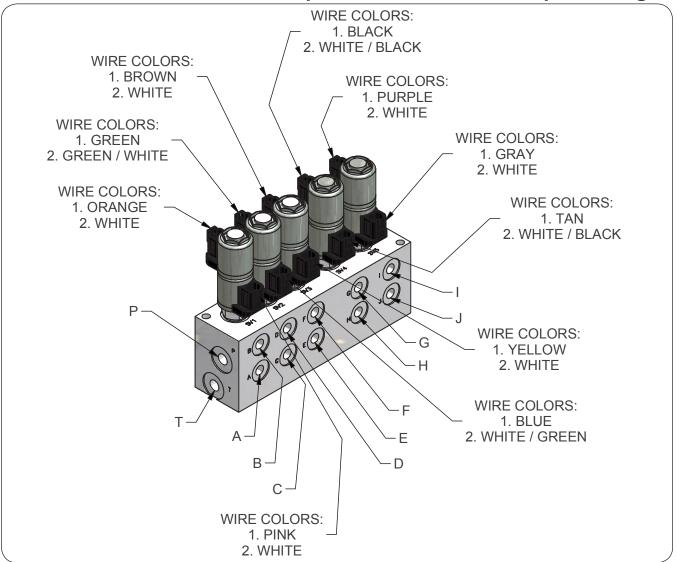
FOR TRACK INFORMATION, PLEASE REFER TO YOUR TRACK MANUAL.

EOH Valve Functions and Wire Locations 5 Spool (Optional) For SN B39490100 & Higher



| PORT | END OF CYLINDER | FUNCTION |
|------|-----------------|-------------------------------|
| Α | BUTT END | Flow Door |
| В | RAM END | Flow Door |
| С | RAM END | Auger Fold |
| D | BUTT END | Auger Fold |
| E | RAM END | Spout Tilt Out |
| F | BUTT END | Spout Tilt In |
| G | RAM-END | Spout Rotate Back |
| Н | BUTT END | Spout Rotate Front |
| I | BUTT END | Auger Tilt Down |
| J | RAM END | Auger Tilt Up |
| Р | | Tractor Pressure |
| T | | Tractor Return |

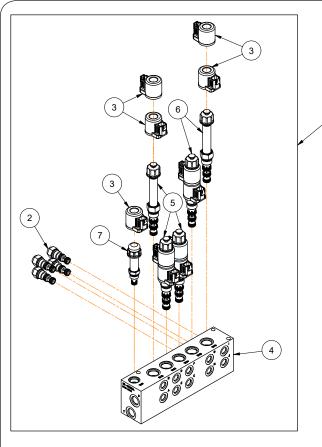
EOH Valve Functions and Wire Locations 5 Spool (Optional) For SN B39490099 & Lower

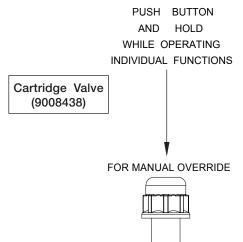


| PORT | END OF CYLINDER | FUNCTION | | |
|------|-----------------|------------------------------|--|--|
| Α | BUTT END | Flow Door | | |
| В | RAM END | Flow Door | | |
| С | RAM END | Auger Fold | | |
| D | BUTT END | Auger Fold | | |
| Е | RAM END | Spout Tilt Out | | |
| F | BUTT END | Spout Tilt In | | |
| G | RAM END | Spout Rotate Back | | |
| Н | BUTT END | Spout Rotate Front | | |
| I | BUTT END | Auger Tilt Down | | |
| J | RAM END | Auger Tilt Up | | |
| Р | | Tractor Pressure | | |
| Т | | Tractor Return | | |

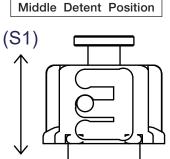
EOH Valve Assembly Components 5 Spool (Optional) For SN B39490100 & Higher

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









Cartridge Valve (9008416) & (9008463)

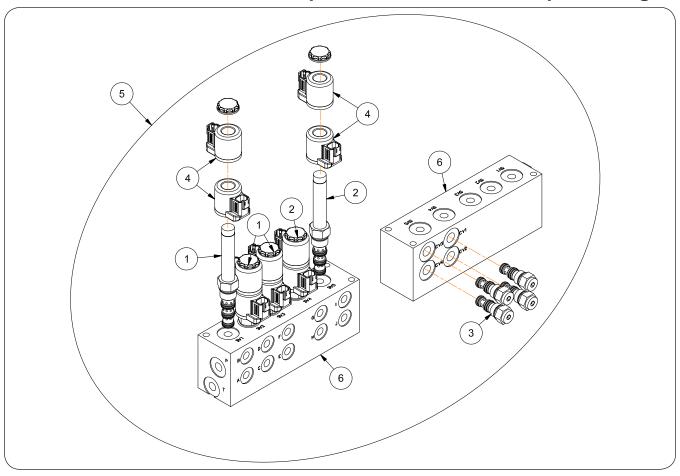
NOTE: Refer to "Manual Override for Optional Electric Over Hydraulic System" in OPERATION section.

(S2)

EOH Valve Assembly Components 5 Spool (Optional) For SN B39490100 & Higher

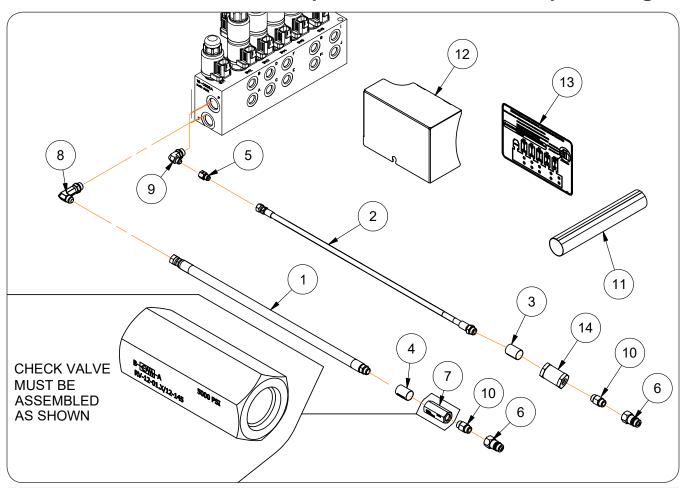
| ITEM | PART NO. | DESCRIPTION | QTY. | NOTES |
|------|----------|--|------|--|
| 1 | 293416 | EOH Block Assembly - 5 Spool Replacement Kit | 1 | Includes Items 2-7 and Instruction Sheet |
| 2 | 9003856 | Pilot Check Valve | 4 | |
| 3 | 9005769 | Coil - 12 VDC DN-40 | 11 | |
| 4 | 9008667 | Manifold Block - 5 Spool | 1 | |
| 5 | 9008416 | Cartridge Valve - 4 Way, 3 Position - Closed Center w/Detented Manual Override | 3 | Includes Retaining Cap |
| | 9003906 | Seal Kit | - | |
| 6 | 9008463 | Cartridge Valve - 4 Way, 3 Position - Open Center w/Detented Manual Override | 2 | Includes Retaining Cap |
| | 9003906 | Seal Kit | - | |
| 7 | 9008438 | Cartridge Valve - 2 Way, 2 Position w/Push Type Manual Overide | 1 | |
| | 9003904 | Seal Kit | - | |

EOH Valve Assembly Components 5 Spool (Optional) For SN B39490099 & Lower



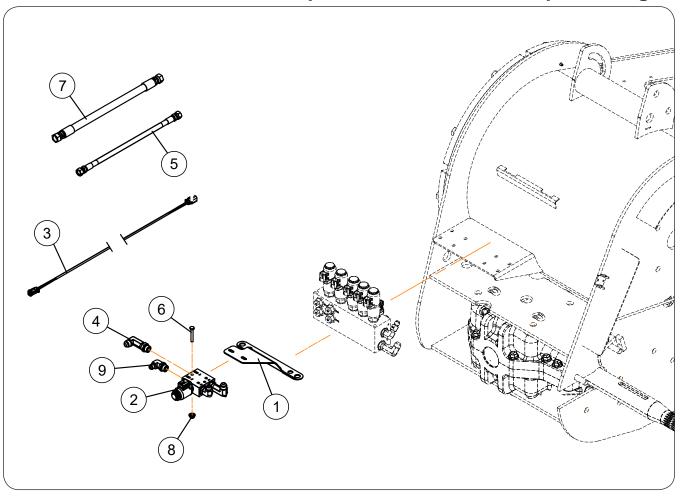
| ITEM | PART NO. | DESCRIPTION | QTY. | NOTES |
|------|----------|---|------|------------------------|
| 1 | 9008416 | Cartridge Valve - 4 Way, 3 Position - Closed Center | 3 | Includes Retaining Cap |
| 2 | 9008463 | Cartridge Valve - 4 Way, 3 Position - Open Center | 2 | Includes Retaining Cap |
| 3 | 9003856 | Pilot Check Valve | 4 | |
| 4 | 9005769 | Coil - 12 VDC DN-40 | 10 | |
| 5 | 9005837 | 5 Spool Hydraulic Block Assembly | 1 | |
| 6 | 9005951 | Manifold Block - 5 Spool | 1 | |

EOH Tractor Circuit Hydraulic Components (Optional)



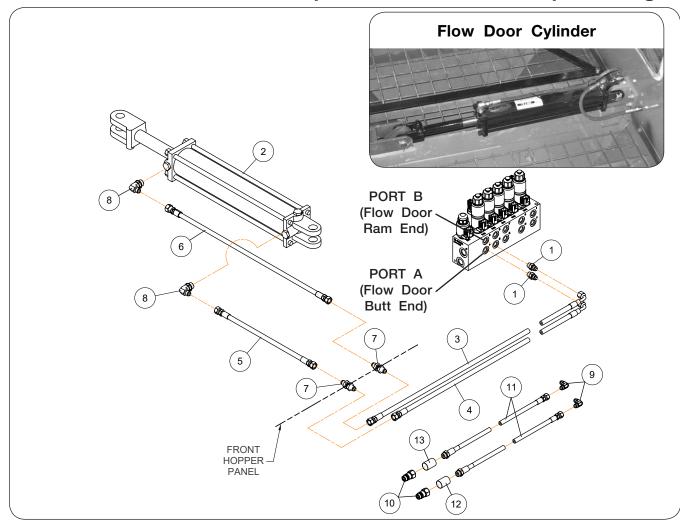
| ITEM | PART NO. | DESCRIPTION | QTY. | NOTES |
|------|----------|---|------|---|
| 1 | 95802 | Hydraulic Hose, 1/2 x 205" - 3000 PSI | 1 | |
| 2 | 9005574 | Hydraulic Hose, 1/4 x 208" - 3000 PSI | 1 | |
| 3 | 9008601 | Hose Grips - Tan (Pair) - Hydraulic Pressure | 1 | Solid Tan - Cylinder Extended (For SN B40240100 & Higher) |
| | 9005982 | Hydraulic Pressure Hose Marker | | (For SN B40240099 & Lower) |
| 4 | 9008601 | Hose Grips - Tan (Pair) - Hydraulic Return | 1 | Half Tan/Half Gray - Cylinder Retracted (For SN B40240100 & Higher) |
| | 9005983 | Hydraulic Return Hose Marker | | (For SN B40240099 & Lower) |
| 5 | 9006527 | JIC Tube Reducer, 9/16-18 UNF Male x 9/16-18 UNF Female | 1 | |
| 6 | 91383 | Male Tip Coupling, 3/4-16 | 2 | |
| 7 | 9006994 | Check Line Valve 145 PSI | 1 | |
| 8 | 901568 | 90° Elbow 3/4-16 JIC Male x 3/4-16 O-Ring ADJ Male | 1 | |
| 9 | 9874 | 90° Elbow 9/16-18 JIC Male x 3/4-16 O-Ring ADJ Male | 1 | |
| 10 | 98508 | Adapter 3/4-16 O-Ring Male x 3/4-16 O-Ring Male | 2 | |
| 11 | 9003848 | Velcro Hose Wrap, 2" I.D. x 127" Lg. | 1 | |
| 12 | 272606B | Valve Cover Plate | 1 | Also Order Item #13 |
| 13 | 9008564 | Decal, CAUTION (Valve Block) | 1 | Add To Inside Cover Plate #12 |
| 14 | 9005403 | 120 Micron Hydraulic Filter | 1 | |

Open Center Components Included with EOH Option



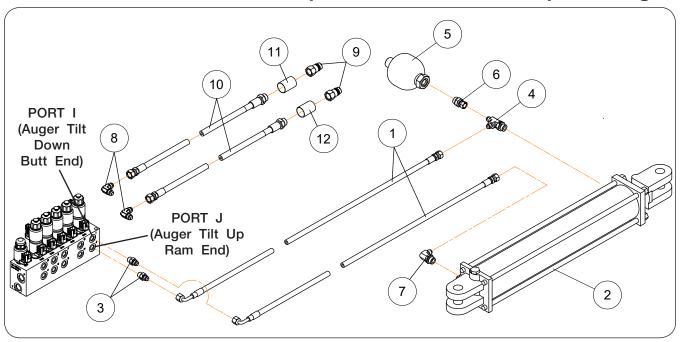
| ITEM | PART NO. | DESCRIPTION | QTY. | NOTES |
|------|----------|---|------|--------------------------|
| 1 | 286532B | Valve Bracket Plate =Black= | 1 | For SN B39490099 & Lower |
| 2 | 9007238 | Open Center Manifold Assembly | 1 | For SN B39490099 & Lower |
| 3 | 9007266 | Wire Harness, 218 5/16" (2 Pin Diverter) | 1 | |
| 4 | 901568 | Elbow, 90° 3/4-16 JIC x 3/4-16 Male OR Boss Extra Long | 2 | For SN B39490099 & Lower |
| 5 | 93472 | Hydraulic Hose, 1/4 x 16 - 3000 PSI | 1 | For SN B39490099 & Lower |
| 6 | 9390-008 | Capscrew, 1/4-20UNC x 1 3/4 Gr.5 | 2 | For SN B39490099 & Lower |
| 7 | 94752 | Hydraulic Hose, 1/2 x 16 3/4 | 1 | For SN B39490099 & Lower |
| 8 | 97189 | Large Flange Hex Nut, 1/4-20UNC | 2 | For SN B39490099 & Lower |
| 9 | 9874 | Elbow, 90° 9/16-18 JIC Male x 3/4-16 OR ADJ Male | 2 | For SN B39490099 & Lower |

Flow Door Circuit Hydraulic Components



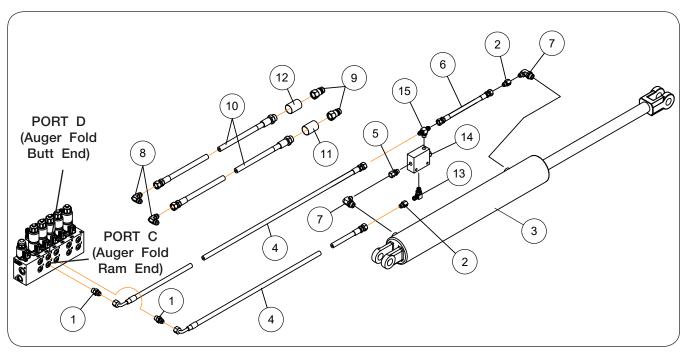
| ITEM | PART NO. | DESCRIPTION | QTY. | NOTES |
|------|----------|--|------|--|
| 1 | 9001495 | Adapter, 9/16-18 JIC Male x 9/16-18 OR Male | 2 | Optional |
| 2 | 9002575 | Hydraulic Cylinder, 3 x 16" - 3000 PSI | 1 | |
| 3 | 9004442 | Hydraulic Hose, 1/4 x 54" - 3000 PSI | 1 | |
| 4 | 9006607 | Hydraulic Hose, 1/4 x 50" - 3000 PSI | 1 | |
| 5 | 93472 | Hydraulic Hose, 1/4 x 16" - 3000 PSI | 1 | |
| 6 | 9002888 | Hydraulic Hose, 1/4 x 27" - 3000 PSI | 1 | |
| 7 | 95192 | Bulkhead Union, 9/16-18 JIC Male x 9/16-18 JIC Male | 2 | |
| 8 | 9874 | Elbow, 90° 9/16-18 JIC Male x 3/4-16 OR ADJ Male | 2 | |
| 9 | 9897 | Elbow, 90° 9/16-18 JIC Male x 9/16-18 JIC Male | 2 | |
| 10 | 91383 | Male Tip Coupling, 3/4-16 | 2 | |
| 11 | 9005574 | Hydraulic Hose, 1/4 x 208" - 3000 PSI | 2 | |
| 12 | 9008596 | Hose Grips - Red (Pair) - Flow Door Open | 1 | Solid Red - Cylinder Extended (For SN B40240100 & Higher) |
| | 9003995 | Hose Marker Sleeve - Flow Door Open | | (For SN B40240099 & Lower) |
| 13 | 9008596 | Hose Grips - Red (Pair) - Flow Door Close | 1 | Half Red/Half Gray - Cylinder Retracted (For SN B40240100 & Higher) |
| | 9003996 | Hose Marker Sleeve - Flow Door Close | | (For SN B40240099 & Lower) |

Auger Tilt Hydraulic Components



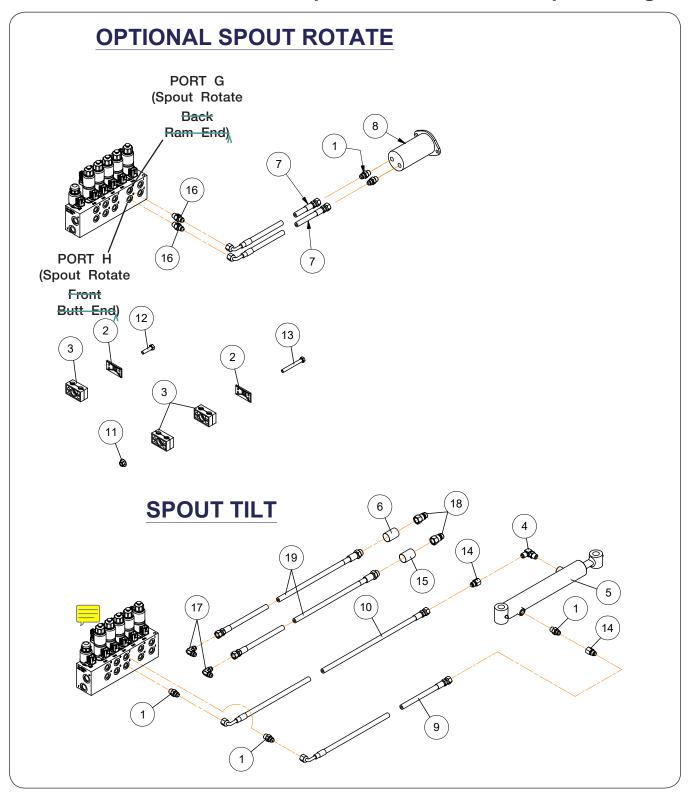
| ITEM | PART NO. | DESCRIPTION | QTY. | NOTES |
|------|----------|---|------|---|
| 1 | 9000925 | Hydraulic Hose, 1/4 x 78" - 3000 PSI | 2 | |
| 2 | 9008456 | Hydraulic Cylinder, 3 1/2 x 16 - 3000 PSI | 1 | |
| 3 | 9001495 | Adapter, 9/16-18 JIC Male x 9/16-18 OR Male | 2 | Optional |
| 4 | 9002155 | Tee, 9/16-18 JIC Male x 3/4-16 OR ADJ Male | 1 | |
| 5 | 9002719 | Accumulator - 1800 PSI | 1 | |
| 6 | 9002720 | Adapter, 3/4-16 OR Male x 9/16-18 JIC Female | 1 | |
| 7 | 9874 | Elbow, 90° 9/16-18 JIC Male x 3/4-16 OR ADJ Male | 1 | |
| 8 | 9897 | Elbow, 90° 9/16-18 JIC Male x 9/16-18 JIC Male | 2 | |
| 9 | 91383 | Male Tip Coupling, 3/4-16 | 2 | |
| 10 | 9005574 | Hydraulic Hose, 1/4 x 208" - 3000 PSI | 2 | |
| 11 | 9008599 | Hose Grips - Blue (Pair) - Auger Pivot Up | 1 | Solid Blue - Cylinder Extended (For SN B40240100 & Higher) |
| | 9004001 | Hose Marker Sleeve - Auger Pivot Up | | (For SN B40240099 & Lower) |
| 12 | 9008599 | Hose Grips - Blue (Pair) - Auger Pivot Down | 1 | Half Blue/Half Gray - Cylinder Retracted (For SN B40240100 & Higher) |
| | 9004002 | Hose Marker Sleeve - Auger Pivot Down | | (For SN B40240099 & Lower) |

Auger Fold Hydraulic Components



| ITEM | PART NO. | DESCRIPTION | QTY. | NOTES |
|------|----------|--|------|---|
| 1 | 9001495 | Adapter, 9/16"-18 JIC Male x 9/16"-18 OR Male | 9 | Optional |
| 2 | 9002199 | Reducer, 9/16"-18 JIC Female x 9/16"-18 JIC Male | 2 | |
| 3 | 9007639 | Hydraulic Cylinder, 3 1/2" x 20" - 3000 PSI | 1 | |
| 3 | 9006942 | Seal Kit | - | |
| 4 | 9005864 | Hydraulic Hose, 1/4" x 66" - 3000 PSI | 2 | |
| 5 | 9002446 | Adapter, 9/16"-18 Male O-Ring x 9/16"-18 JIC Female | 1 | |
| 6 | 93472 | Hycraulic Hose, 1/4" x 16" - 3000 PSI | 1 | |
| 7 | 9874 | Elbow, 90° 9/16"-18 JIC Male x 3/4"-16 OR ADJ Male | 2 | |
| 8 | 9897 | Elbow, 90° 9/16"-18 JIC Male x 9/16"-18 JIC Male | 2 | |
| 9 | 91383 | Male Tip Coupling, 3/4"-16 | 2 | |
| 10 | 9005574 | Hydraulic Hose, 1/4" x 208" - 3000 PSI | 2 | |
| 11 | 9008597 | Hose Grips - Green (Pair) - Auger Raise | 1 | Solid Green - Cylinder Extended (For SN B40240100 & Higher) |
| | 9003997 | Hose Marker Sleeve - Auger Raise | | (For SN B40240099 & Lower) |
| 12 | 9008597 | Hose Grips - Green (Pair) - Auger Lower | 1 | Half Green/Half Gray - Cylinder Retracted (For SN B40240100 & Higher) |
| | 9003998 | Hose Marker Sleeve - Auger Lower | | (For SN B40240099 & Lower) |
| 13 | 97445 | Elbow, 90° 9/16"-18 JIC Male x 9/16"-18 0-Ring ADJ Male | 1 | |
| 14 | 9003990 | Pilot Operated Check Valve with 3 Ports | 1 | |
| 15 | 9001710 | Tee 9/16"-18 JIC Male x 9/16"-18 JIC Male x 9/16"-18 0-Ring Male | 1 | |

EOH Spout Rotate & Tilt Hydraulic Components (Optional)



EOH Spout Rotate & Tilt Hydraulic Components (Optional)

| ITEM | PART NO. | DESCRIPTION | QTY. | NOTES |
|------|----------|--|------|---|
| 1 | 9001495 | Adapter, 9/16-18 JIC Male x 9/16-18 OR Male | 5 | |
| 2 | 9003814 | Clamp Top Plate, 1/4 x 1 1/8 x 2 1/16 | 4 | |
| 3 | 9003816 | Clamp, Polypropylene | 4 | |
| 4 | 97445 | Elbow, 90° 9/16-18 JIC Male x 9/16-18 O-Ring ADJ Male | 1 | |
| 5 | 9005135 | Hydraulic Cylinder, 1 1/2 x 8 - 3000 PSI | 1 | |
| 6 | 9008598 | Hose Grips - Yellow (Pair) - Spout Out | 1 | Solid Yellow - Cylinder Extended (For SN B40240100 & Higher) |
| | 9003999 | Hose Marker Sleeve - Spout Out | | (For SN B40240099 & Lower) |
| 7 | 9003347 | Hydraulic Hose, 1/4 x 224" - 3000 PSI | 2 | |
| 8 | 9007626 | Hydraulic Motor | 1 | |
| 9 | 9006694 | Hydraulic Hose, 1/4 x 314" - 3000 PSI | 1 | |
| 10 | 9006695 | Hydraulic Hose, 1/4 x 324 1/2" - 3000 PSI | 1 | |
| 11 | 91257 | Large Flange Hex Nut, 5/16-18UNC Grade 5 | 2 | |
| 12 | 9390-031 | Capscrew, 5/16"-18UNC x 1 1/4" G5 | 2 | |
| 13 | 9390-034 | Capscrew, 5/16"-18UNC x 2" G5 | 2 | |
| 14 | 95193 | Adapter, 9/16-18 JIC Female x 9/16-18 JIC Male | 2 | |
| 15 | 9008598 | Hose Grips - Yellow (Pair) - Spout In | 1 | Half Yellow/Half Gray - Cylinder Retracted (For SN B40240100 & Higher) |
| | 9004000 | Hose Marker Sleeve - Spout In | | (For SN B40240099 & Lower) |
| 16 | 98435 | Adapter, 9/16-18 JIC Male x 9/16-18 O-Ring Male | 2 | |
| 17 | 9897 | Elbow, 90° 9/16-18 JIC Male x 9/16-18 JIC Male | 2 | |
| 18 | 91383 | Male Tip Coupling, 3/4-16 | 2 | |
| 19 | 9005574 | Hydraulic Hose, 1/4 x 208" - 3000 PSI | 2 | |

Brent 2596 — Parts

Cylinders

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

Auger Flow Door Cylinder

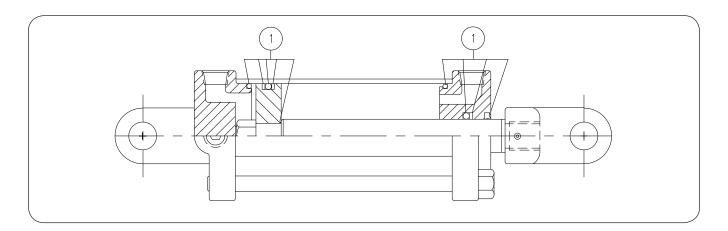
| ITEN | PART NO. | DESCRIPTION | QTY | NOTES |
|------|----------|-----------------|-----|--------------------------------|
| | 9002575 | Cylinder 3 x 16 | 1 | 3/4-16 O-Ring Ports (3000 PSI) |
| 1 | 9003772 | Seal Kit | 1 | |

Auger Fold Cylinder

| ITEM | PART NO. | DESCRIPTION | QTY | NOTES |
|------|----------|---------------------|-----|--------------------------------|
| | 9007639 | Cylinder 3 1/2 x 20 | 1 | 3/4-16 O-Ring Ports (3000 PSI) |
| 1 | 9006942 | Seal Kit | 1 | |

Auger Tilt Cylinder

| | ITEM | PART NO. | DESCRIPTION | QTY | NOTES |
|---|------|----------|---------------------|-----|--------------------------------|
| | | 9008456 | Cylinder 3 1/2 x 16 | 1 | 3/4-16 O-Ring Ports (3000 PSI) |
| ſ | 1 | 95393 | Seal Kit | 1 | |



Brent 2596 — Parts

Cylinders

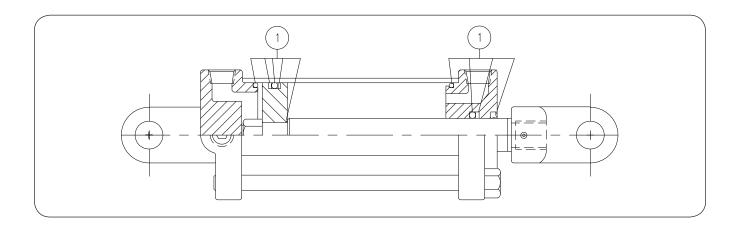
Please visit www.unverferth.com/parts/ for the most current parts listing.

Auger Spout Tilt Cylinder

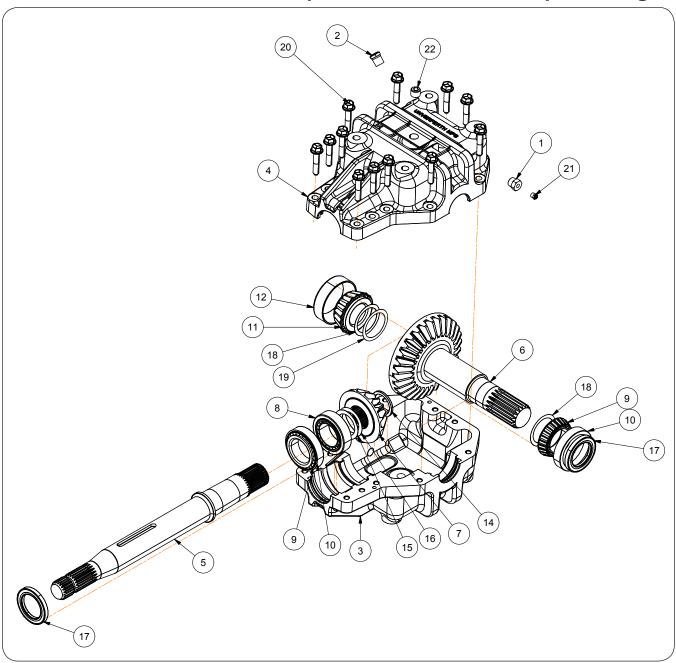
| ITEM | PART NO. | DESCRIPTION | QTY | NOTES |
|------|----------|--------------------|-----|------------------------------------|
| | 9005135 | Cylinder 1 1/2 x 8 | 1 | #6 9/16-18 O-Ring Ports (3000 PSI) |
| 1 | 9005419 | Seal Kit | 1 | |

Optional Jack Cylinder - 3 1/2" x 8"

| ITEM | PART NO. | DESCRIPTION | QTY | NOTES |
|------|----------|--------------------|-----|-------|
| | 9009047 | Cylinder, Complete | 1 | |
| 1 | 9007880 | Seal Kit | 1 | |



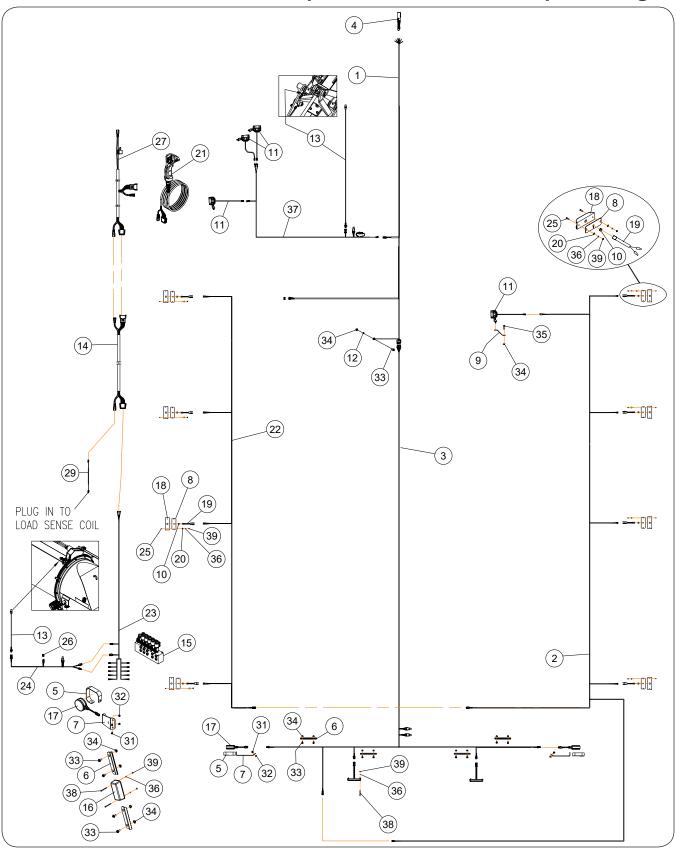
Gearbox Components



Gearbox Components

| ITEM | PART NO. | DESCRIPTION | QTY | NOTES |
|------|------------|---|-----|-----------------------------|
| | 9007366 | Gearbox Complete | 1 | Includes Items 1 through 22 |
| 1 | 9003453 | Reducer Bushing, 1/2-14 NPTF M x 1/8-27 NPTF F | 1 | |
| 2 | 9006381 | Glass Sight Plug | 1 | |
| 3 | 9007492 | Gearbox Housing Q800 w/Taped Holes | 1 | |
| 4 | 9007493 | Gearbox Housing Q800 w/Through Holes | 1 | |
| 5 | 9007494 | Gearbox Shaft 2 1/4" Dia. | 1 | |
| 6 | 9007495 | Gear Shaft Assembly 29 Tooth, 2 1/4-17 Spline | 1 | |
| 7 | 9007496 | Gear 16 Tooth Splined | 1 | |
| 8 | 9007497 | Bearing Cup & Cone Set, 3.740 0D x 1 1/4 | 1 | |
| 9 | 9007498 | Bearing Cone 2 1/4 ID x 1 | 2 | |
| 10 | 9007499 | Bearing Cup 3.8437 OD x 0.7812 | 2 | |
| 11 | 9007500 | Bearing Cone 2 ID x 1.5312 | 1 | |
| 12 | 9007501 | Bearing Cup 4.125 OD | 1 | |
| 13 | 9007502 | End Cap | 1 | |
| 14 | 9007503 | Retaining Ring - External 2" Nominal Shaft Dia. | 1 | |
| 15 | 9007504 | Shim - 0.025 | 1 | |
| 16 | 9007505 | Shim - 0.030 | 1 | |
| 17 | 9007508 | Shaft Seal | 2 | |
| 18 | 9007511 | Shim - 0.005 | 2 | |
| 19 | 9007512 | Shim - 0.003 | 1 | |
| 20 | 903161-060 | Flange Screw 1/2-13UNC x 2 1/2 | 12 | |
| 21 | 92352 | Pressure Relief | 1 | |
| 22 | 95283 | Plug | 3 | |

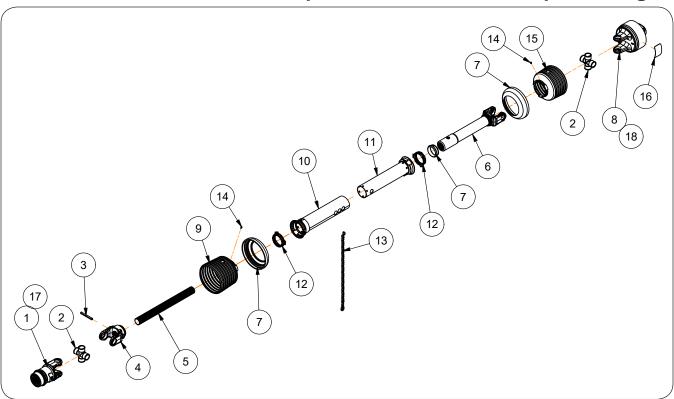
Electrical Components - 5 Function Control Grip



Electrical Components - 5 Function Control Grip

| ITEM | PART NO. | DESCRIPTION | QTY | NOTES |
|------|------------|--|----------|-------------------------------------|
| 1 | 9008106 | Front Harness - 260" | 1 | |
| | 9009032 | Olas was a lila was a s | 1 | For SN B40560100 & Higher |
| 2 | 9008177 | Clearance Harness | 1 | For SN B40560099 & Lower |
| 3 | 9008176 | Rear Harness | 1 | |
| 4 | 92450 | 7-Way Plug | 1 | |
| 5 | 268678B | Light Guard Plate =Black= | 2 | |
| 6 | 273371G | Harness Cover =Green= | 4 | |
| 0 | 273371R | Harness Cover =Red= | 4 | |
| 7 | 273894B | Light Bracket =Black= | 2 | |
| 8 | 273531B | Light Cover =Black= | 8 | |
| 9 | 271574B | Lamp Mount Plate =Black= | 1 | |
| 10 | 9001005 | Rubber Grommet | 9 | |
| 11 | 9008957 | Work Flood Lamp (LED) | 4 | For SN B40560100 & Higher |
| 11 | 9007186 | Work Flood Lamp (LED) | 3 | For SN B40560099 & Lower |
| 12 | 9005688 | External Tooth Lock Washer | 1 | |
| 13 | 9007223 | Proximity Switch | 2 | |
| 14 | 9008252 | Joystick Controller Extension Harness | 1 | |
| 15 | 293416 | EOH Block Assembly - 5 Spool Replacement Kit | 1 | |
| 16 | 9006345 | LED Lamp - Red | 2 | |
| 10 | 232169 | LED Lamp - Red - Replacement Kit |] | Includes Lamp, & Items 36, 38, & 39 |
| 17 | 9005142 | LED Lamp - Amber | 2 | |
| 18 | 9005529 | Amber Light | 8 | |
| 19 | 9005542 | Light Harness - 2 Wire | 8 | |
| 20 | 9405-052 | Flat Washer, 3/16 | 16 | |
| 21 | 9008265 | L-Series Control Grip - 5 Function | 1 | |
| 22 | 9008178 | Clearance Harness | 1 | |
| 23 | 9007290 | "T" Main Wiring Harness - 189" | 1 | |
| 24 | 9007286 | Wiring Harness - 205" EOH for Proximity Switch | 1 | |
| 25 | 903172-346 | Pan Head Phillips Screw, #10-32UNF x 3/4" | 16 | |
| 26 | 252386 | Plug Assembly, 2 Pin Shroud | 1 | |
| 27 | 9008251 | Harness - Joystick Power | 1 | |
| 29 | 9007266 | Wire Harness, 218 5/16" (2 Pin Diverter) | 1 | |
| 31 | 91256 | Large Flange Screw 5/16"-18UNC x 3/4" | 4 | |
| 32 | 91257 | Flange Nut 5/16"-18UNC | 4 | |
| 33 | 91262 | Flange Screw 3/8"-16UNC x 1" G5 | 9 | |
| 34 | 91263 | Large Flange Nut, 3/8-16UNC | 10 | Grade 5 |
| 35 | 95785 | Flange Screw 3/8"-16UNC x 1 1/2" | 1 | |
| 36 | 9404-013 | Lock Washer, #10 | 20 | |
| 37 | 9008956 | Switch Harness | 1 | For SN B40560100 & Higher |
| 31 | 9008107 | | <u> </u> | For SN B40560099 & Lower |
| 38 | 903172-350 | Pan Head Phillips Screw, #10-32UNF x 1 1/4" | 4 | |
| 39 | 9830-016 | Hex Nut, #10-32 | 20 | Grade 2 |

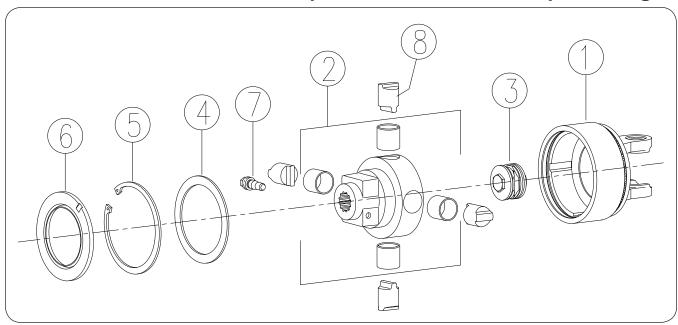
Cut Out Clutch PTO Assembly



| ITEM | PART NO. | DESCRIPTION | QTY | NOTES |
|------|----------|---|-----|--------------------------------|
| | 9008417 | PTO Assembly Complete | - | Includes Items 1-18 |
| | | PTO Front Half Assembly 1 3/4-20 Spline | 1 | |
| | | PTO Rear Half Assembly 1 3/4-20 Spline | 1 | |
| 1 | 9005234 | Over-Running PTO Clutch Assembly | 1 | |
| 2 | 92529 | Cross & Bearing Kit | 2 | |
| 3 | 9002609 | Spring Pin 10x90 | 2 | |
| 4 | 9008478 | Inboard Yoke S4 | 1 | |
| 5 | 9008479 | Inner Profile | 1 | |
| 6 | 9008482 | Inboard Yoke, Tube, & Sleeve | 1 | |
| 7 | 9002513 | Reinforcing Collar | 1 | |
| 8 | 9005235 | Cut Out Clutch (3200 N-m Setting) | 1 | 1 3/4-20 Spline 1000RPM |
| 9 | 9008481 | Shield Cone 8 Rib | 1 | |
| 10 | 9008480 | Outer Shield Tube Oval | 1 | |
| 11 | 9008483 | Inner Shield Tube Oval | 1 | |
| 12 | 92373 | Bearing Ring | 2 | |
| 13 | 92374 | Safety Chain | 1 | |
| 14 | 92372 | Screw | 2 | |
| 15 | 93866 | Shield Cone 6 Rib | 1 | |
| 16 | 9005233 | Decal K64 | 1 | "Tighten to 75 FtLbs." |
| 17 | 93856 | Quick-Disconnect Kit | 1 | 1 3/4-20 Spline w/Metal Collar |
| 18 | 9005253 | Cut Out Clutch Lock Assembly | 1 | |

Cut Out Clutch Components

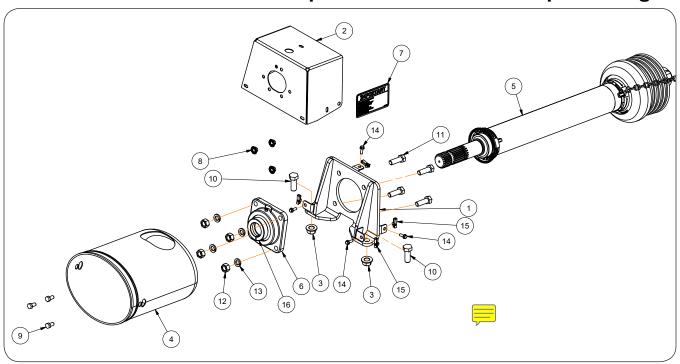
Please visit www.unverferth.com/parts/ for the most current parts listing.



NOTE: Cut Out Clutch (9005235) must be used with the Complete PTO Assembly (9008417). This will not work with the Standard PTO Assembly (9005245).

| ITEM | PART NO. | DESCRIPTION | QTY | NOTES |
|------|----------|-----------------------------------|-----|--------------------|
| | 9005235 | Cut Out Clutch (3500 N*m Setting) | - | Includes Items 1-8 |
| 1 | 9005247 | Clutch Housing | 1 | |
| 2 | 9005248 | Clutch Hub 1 3/4-20 Spline | 1 | |
| 3 | 9005249 | Spring Pack | 1 | |
| 4 | 9005250 | Washer | 1 | |
| 5 | 9005251 | Retaining Ring | 1 | |
| 6 | 9005252 | Sealing Ring | 1 | |
| 7 | 9005253 | Clutch Clamp Cone Assembly | 1 | |
| 8 | 9005254 | Clutch Cam | 4 | |

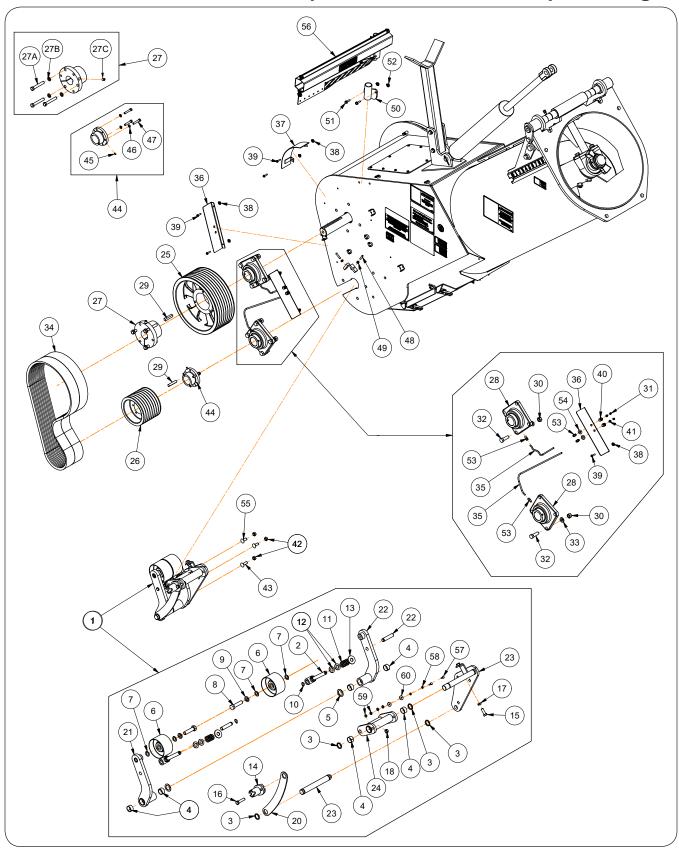
PTO & Bracket Assembly



PTO & Bracket Assembly

| ITEM | PART NO. | DESCRIPTION | QTY | NOTES |
|------|----------|---|-----|---------------------|
| | 276629B | PTO & Bracket Assembly | - | Includes Items 1-15 |
| 1 | 276401B | Bearing Bracket Weldment | 1 | |
| 2 | 276409B | Bearing Cover Plate | 1 | |
| 3 | 9003398 | Lock Nut/Top 5/8"-11UNC | 2 | |
| 4 | 9004918 | PTO Bell Cover | 1 | |
| 5 | 9008362 | Drive Shaft 1 3/4-20 Splined Shaft, 1 3/4-20 Female Splined U-Joint | 1 | |
| 6 | 9008455 | Bearing 5 3/8" Square x 2 1/16" - 4 Bolt | 1 | |
| 7 | 9008470 | Decal, IMPORTANT (Drawbar) | 1 | |
| 8 | 9928 | Lock Nut, 3/8"-16UNC | 3 | |
| 9 | 9390-053 | Capscrew, 3/8"-16UNC x 3/4" G5 | 3 | |
| 10 | 9390-123 | Capscrew, 5/8"-11UNC x 1 3/4" G5 | 2 | |
| 11 | 9390-494 | Capscrew, 9/16-12UNC x 2" G5 | 4 | |
| 12 | 9394-012 | Hex Nut, 9/16"-12UNC | 4 | |
| 13 | 9404-027 | Lock Washer, 9/16" | 4 | |
| 14 | 97420 | Flange Screw, 1/4"-20UNC x 3/4" G5 | 5 | |
| 15 | TA500592 | Cage Nut-Clip On | 5 | |
| 16 | 9008677 | Lock Collar 1.75" Bore | 1 | |

Lower Auger Linkage Components



Lower Auger Linkage Components

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

| ITEM | PART NO. | DESCRIPTION | QTY | NOTES |
|------|----------|--|-----|--------------------------------|
| 1 | 283600B | Idler Assembly =Black= | 1 | |
| 2 | 283605 | Tensioner Rod Weldment | 2 | |
| 3 | 94144 | Retaining Ring 1 1/4 | 4 | |
| 4 | 9003635 | Self-Lubricating Bushing, 1.4 OD x 1.25 ID x 3/4 | 6 | |
| 5 | TA500397 | Bushing, 1.875D x .074 | 2 | |
| 6 | 9005684 | Idler Sub Assembly | 2 | |
| 7 | 9005685 | Machine Washer, 3/4 | 4 | |
| 8 | 9390-149 | Capscrew, 3/4-10UNC x 3 | 2 | Grade 5 |
| 9 | 9404-033 | Lock Washer 3/4 | 2 | |
| 10 | 9003810 | Snap Ring | 2 | |
| 11 | 9005447 | Compression Spring, 1.415 OD x 2 1/2 | 2 | |
| 12 | 9405-104 | Flat Washer 3/4 SAE | 4 | |
| 13 | 9405-106 | Flat Washer 3/4 USS | 2 | |
| 14 | 284703 | Tensioner Bushing Weldment | 1 | |
| 15 | 9390-101 | Capscrew, 1/2-13UNC x 1 1/2 | 1 | Grade 5 |
| 16 | 9390-104 | Capscrew, 1/2-13UNC x 2 1/4 | 1 | Grade 5 |
| 17 | 9395-010 | Hex Jam Nut 1/2-13UNC | 1 | |
| 18 | 94981 | Locknut 1/2-13UNC | 4 | |
| 20 | 283619B | Idler Brace Plate =Black= | 1 | |
| 21 | 283603B | Idler Arm Weldment =Black= | 1 | |
| 22 | 283602B | Idler Arm Weldment =Black= | 1 | |
| 23 | 283601B | Idler Mount Weldment =Black= | 1 | |
| 24 | 283604B | Tensioner Weldment =Black= | 1 | |
| 25 | 9004590 | Pulley, 15" Dia. x 5 13/16 | 1 | |
| 26 | 9004591 | Pulley, 7 1/2" Dia. x 5 13/16 | 1 | |
| 27 | 9004813 | Split Bushing Hardware Kit | 1 | Includes Items: 27A, 27B & 27C |
| 27A | 9006263 | Bolt, 9/16-12UNC x 3 5/8 | 3 | Grade 5 |
| 27B | 9404-027 | Lock Washer, 9/16 | 3 | |
| 27C | 9399-086 | Set Screw, 3/8-16UNC x 1/2 | 1 | |
| | 9005565 | Flanged Bearing 2 1/4 ID | 2 | Includes Set Screw & Zerk |
| 28 | 93426 | Grease Zerk | 1 | |
| | 9399-223 | Set Screw 3/8-24UNF x 3/8 | 2 | |
| 29 | 9002562 | Keystock 1/2 x 1/2 x 2 1/2 | 2 | |
| 30 | 9394-014 | Hex Nut 5/8-11UNC | 8 | |
| 31 | 9006849 | Grease Zerk Cap | 4 | |
| 32 | 9390-124 | Capscrew, 5/8-11UNC x 2 | 8 | Grade 5 |
| 33 | 9404-030 | Split Lock Washer, 5/8 | 8 | |
| 34 | 281675 | Drive Belt Set, 4 Strand (5V750) | 2 | |

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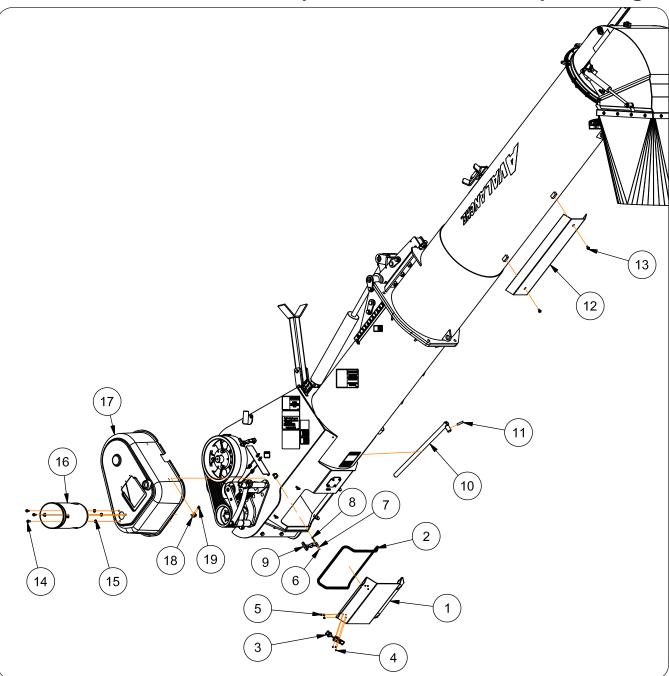
Lower Auger Linkage Components (continued)

| ITEM | PART NO. | DESCRIPTION | QTY | NOTES |
|------|----------|---|-----|--|
| 35 | 9005074 | Hose/Type Nylon, 1/4" OD | 2.5 | Specify in Feet |
| 36 | 273118B | Shield Plate =Black= | 2 | |
| 37 | 273119B | Shield Weldment =Black= | 1 | |
| 38 | 97189 | Large Flange Hex Nut 1/4-20UNC | 6 | |
| 39 | 901101 | Flange Screw 1/4-20 UNC x 1 | 6 | Grade 5 |
| 40 | 9003949 | Hex Pipe Coupling | 2 | |
| 41 | 93426 | Grease Zerk 1/8 NPT | 2 | |
| 42 | 94981 | Locknut 1/2"-13UNC | 3 | |
| 43 | 9388-104 | Carriage Bolt, 1/2-13UNC x 1 1/2 | 1 | Grade 5 |
| 44 | 9007376 | Bushing, 4 5/8 0D x 2 1/4 ID x 2 1/16 w/ 1/2 Keyway & Capscrews | 1 | |
| 45 | 9399-059 | Set Screw, 1/4-20UNC x 3/8 | 1 | |
| 46 | 9404-021 | Lockwasher, 3/8 | 3 | |
| 47 | 284262 | Split Bushing Hardware Kit | 1 | Grade 5 |
| 48 | 9399-079 | Set Screw 5/16-18UNC x 1 1/2 Cup Point/Hex Socket | 2 | |
| 49 | 9394-004 | Hex Nut 5/16-18UNC | 2 | |
| 50 | 273121B | Bushing Weldment | 1 | |
| 51 | 901044 | Serrated Flange Bolt, 5/16-18UNC x 1 | 2 | |
| 52 | 91257 | Large Flange Hex Nut, 5/16-18UNC | 2 | |
| 53 | 9005073 | Quicklinc Fitting | 4 | |
| 54 | 9405-076 | Flat Washer 3/8 USS | 2 | |
| 55 | 9388-103 | Carriage Bolt, 1/2"-13UNC x 1 1/4" | 2 | |
| 56 | 294128B | Hose Caddy Replacement Kit | 1 | Refer to "Hitch & Ladder Components" Section |
| 57 | 9390-003 | Capscrew, 1/4-20UNC x 3/4 | 2 | Grade 5 |
| 58 | 9404-017 | Lock Washer, 1/4" | 2 | |
| 59 | 9405-062 | Flat Washer, 1/4" SAE | 4 | |
| 60 | 9405-066 | Flat Fender Washer, 1/4" | 2 | |

Brent 2596 — Parts

| Notes | | | | |
|--|--|--|--|--|
| Please visit www.unverferth.com/parts/ for the most current parts listing. | | | | |
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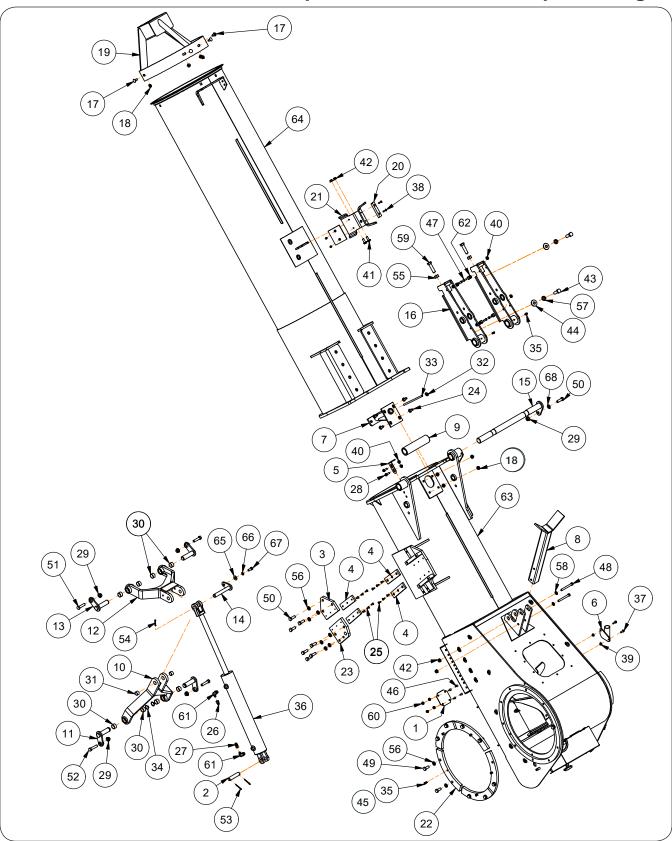
Lower Auger Door & Cover Components



Lower Auger Door & Cover Components

| ITEM | PART NO. | DESCRIPTION | QTY | NOTES |
|------|------------|---|-----|-----------------|
| 1 | 276557B | Cleanout Door Weldment =Black= | 1 | |
| 2 | 9007108 | Gasket w/Adhesive Backing for Clean-Out Door | A/R | Specify in Feet |
| 3 | 9006497 | Draw Latch | 2 | |
| 4 | 903171-574 | Flat Countersunk Screw #10-24UNC Phillips Machine Screw | 6 | |
| 5 | 902331 | Serrated Flange Hex Nut #10-24UNC | 6 | |
| 6 | 900068 | Retainer for Draw Latch | 3 | |
| 7 | 900067 | Washer | 3 | |
| 8 | 900066 | Stud Pin | 3 | |
| 9 | 900060 | Handle for Draw Latch | 3 | |
| 10 | 284714B | Locking Pipe Weldment with Roll Pin =Black= | 1 | |
| 11 | 9392-208 | Roll Pin 1/2" Dia. x 2 | 1 | |
| 12 | 284141G | Strike Plate =Green= | 1 | |
| | 284141R | Strike Plate =Red= | | |
| 13 | 95585 | Capscrew/Large Flange 3/8"-16UNC x 3/4" G5 | 2 | |
| 14 | 91262 | Flange Screw 3/8"-16UNC x 1" G5 | 3 | |
| 15 | 91263 | Nut/Large Flange 3/8-16UNC G5 | 3 | |
| 16 | 9004918 | PTO Bell Cover | 1 | |
| 17 | 9004729 | Belt Cover/Shield | 1 | |
| 18 | 900059 | Flexible Draw Latch Asy w/Style R Keeper | 3 | |
| 19 | 9004940 | Pop Rivet | 6 | |

Auger Tube Components



Auger Tube Components

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

| ITEM | PART NO. | DESCRIPTION | QTY | NOTES |
|------|----------|---|-----|---------------------------|
| 1 | 2001446B | Cover Plate =Black= | 1 | |
| 2 | 266285 | Cylinder Pin 1" Dia. x 4 1/2 | 1 | |
| 3 | 271119B | Fold Plate 6 1/2 x 8 =Black= | 1 | |
| 4 | 271124 | Nylon Fold Slide 2 x 8 | 4 | |
| 5 | 272645B | Switch Bracket | 1 | |
| 6 | 273121B | Bushing Weldment | 1 | |
| 7 | 293422B | Bearing Bracket Weldment =Black= | _ | For SN B39490100 & Higher |
| 7 | 273124B | | 1 | For SN B39490099 & Lower |
| | 273255G | Auger Rest Weld't =Green= | | |
| 8 | 273255R | Auger Rest Weld't =Red= | 1 | |
| | 273374G | Spacer/Bushing 2.5" OD x 1.75" ID x 9.9375" =Green= | | |
| 9 | 273374R | Spacer/Bushing 2.5" OD x 1.75" ID x 9.9375" =Red= | 1 | |
| 10 | 276479G | Fold Linkage Weldment =Green= | 1 | |
| 10 | 276479R | Fold Linkage Weldment =Red= | 1 | |
| 11 | 276483 | Pin Weldment | 2 | |
| | 276940G | Fold Linkage Weldment =Green= | | |
| 10 | 276940R | Fold Linkage Weldment =Red= | 1 | For SN B39490100 & Higher |
| 12 | 276945G | Fold Linkage Weldment Replacement Kit =Green= | | E 0N D00400000 0 1 |
| | 276945R | Fold Linkage Weldment Replacment Kit =Red= | 1 | For SN B39490099 & Lower |
| 13 | 276493 | Pin Weldment | 2 | |
| 14 | 276941 | Linkage Pin Weldment | | For SN B39490100 & Higher |
| 14 | 276542 | Pin 1" Dia. x 7" | 1 | For SN B39490099 & Lower |
| 15 | 276561 | Pivot Pin Weldment | 1 | |
| 10 | 276593G | Auger Hinge Weldment =Green= | , | |
| 16 | 276593R | Auger Hinge Weldment =Red= | 2 | |
| 17 | 9388-102 | Carriage Bolt, 1/2"-13UNC x 1" G5 | 4 | |
| 18 | 9003397 | Locking Flange Nut 1/2"-13UNC | 8 | |
| 19 | 276507B | Hanger Bearing Weldment =Black= | 1 | |
| 20 | 283335 | Poly Auger Stop Pad | 2 | |
| 01 | 283340G | Auger Rest Weldment =Green= | | |
| 21 | 283340R | Auger Rest Weldment =Red= | 1 1 | |
| 22 | 284464B | Pivot Flange, Retainer Plate =Black= | 5 | |
| 23 | 284518B | Fold Plate =Black= | 1 | |
| 24 | 9388-104 | Carriage Bolt 1/2"-13UNC x 1 1/2" G5 | 1 | For SN B39490100 & Higher |
| 24 | 9001529 | Flange Screws 1/2-13UNC x 1 | 4 | For SN B39490099 & Lower |
| 25 | 9001688 | Capscrew/Flat Head, 5/16-18UNC x 3/4 | 12 | |
| 26 | 9002199 | Reducer w/.060 Restrictor | 1 | |
| 27 | 9002446 | Adapter 9/16-18 O-Ring Male x 9/16-18 JIC Female | 1 | |
| 28 | 9003259 | Flange Screw 3/8"-16UNC x 1 1/4" G5 | 2 | |
| 29 | 9003398 | Lock Nut/Top 5/8"-11UNC | 5 | |
| 30 | 9004396 | Self Lube Bushing, 1.414" OD x 1.258" ID x 3/4" | 8 | |

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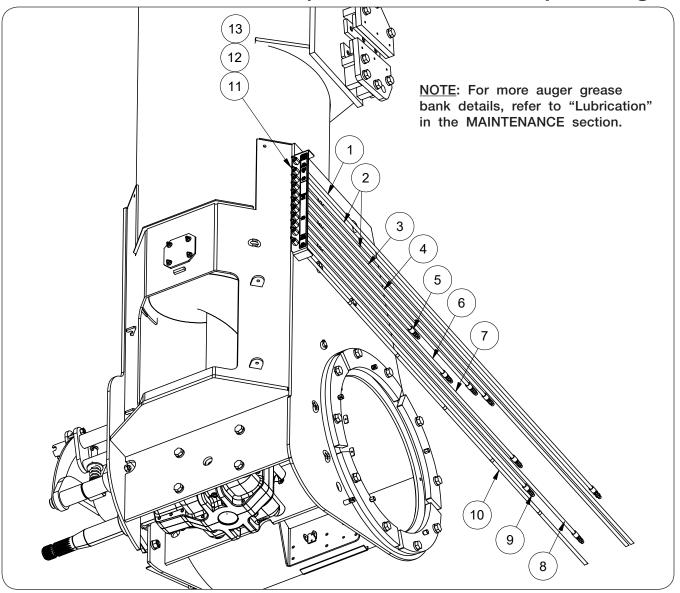
Auger Tube Components (continued)

| ITEM | PART NO. | DESCRIPTION | QTY | NOTES |
|------|--------------|---|-----|---------------------------|
| 31 | 9004397 | Self-Lubricating Bushing 1.131" OD x 1.008" ID x .75" | 2 | |
| 32 | 9004764 | 90° Elbow 1/8" NPTF Female | 1 | |
| 33 | 9005793 | Grease Pipe 1/8" SCH40 x 11" | 1 | |
| 34 | 9006084 | Retaining Ring 1 1/4" | 2 | |
| 35 | 9006785 | 90° Adapter 1/8" NPT | 7 | For SN B40560100 & Higher |
| 36 | 9007639 | Hydraulic Cylinder 3 1/2 x 20 (3000 PSI) | 1 | |
| 37 | 901044 | Flange Screw 5/16"-18UNC x 1" G5 | 2 | |
| 38 | 903171-660 | Flat Countersunk Head/Machine Screw, 5/16"-18UNC x 1" | 4 | |
| 39 | 91257 | Large Flange Hex Nut, 5/16"-18UNC | 2 | |
| 40 | 91263 | Nut/Large Flange 3/8"-16UNC | 6 | |
| 41 | 91266 | Flange Capscrew, 1/2"-13UNC x 1 1/4" | 2 | |
| 42 | 91267 | Nut / Flange, 1/2-13UNC | 4 | |
| 43 | 91299-146 | Capscrew, 3/4"-10UNC x 2 1/4" | 2 | |
| 44 | 9234PL | Flat Washer, 13/16 (Hardened) | 2 | |
| 45 | 93415PL | 90° Zerk 1/4-28 Threaded | 7 | For SN B40560099 & Lower |
| 46 | 9388-003 | Carriage Bolt, 1/4"-20UNC x 1" G5 | 4 | |
| 47 | 9390-055 | Capscrew, 3/8"-16UNC x 1" G5 | 4 | |
| 48 | 9390-112 | Capscrew, 1/2"-13 UNC x 4 1/2" G5 | 2 | |
| 49 | 9390-122 | Capscrew, 5/8"-11UNC x 1 1/2" G5 | 10 | |
| 50 | 9390-124 | Capscrew, 5/8"-11UNC x 2" G5 | 1 | |
| 51 | 9390-126 | Capscrew, 5/8"-11UNC x 2 1/2" G5 | 2 | |
| 52 | 9390-127 | Capscrew, 5/8"-11UNC x 2 3/4" G5 | 2 | |
| 53 | 9391-046 | Cotter Pin, 3/16" Dia. x 2" | 2 | |
| 54 | 9392-140 | Roll Pin, 1/4" Dia. x 2" | 1 | |
| 55 | 9394-016 | Hex Nut, 3/4-10UNC G5 | 2 | |
| 56 | 9404-030 | Lock Washer, 5/8" | 17 | |
| 57 | 9404-034 | Lock Washer, 3/4 | 2 | |
| 58 | 9405-086 | Flat Washer 1/2" SAE | 2 | |
| 59 | 94733 | Capscrew, 3/4"-10UNC x 3" G5 Full Threaded | 2 | |
| 60 | 97189 | Hex Nut/Large Flange 1/4"-20UNC | 4 | |
| 61 | 9874 | 90° Elbow 9/16-18 JIC Male x 3/4-16 O-Ring Male | 2 | |
| 62 | TA0-903850-0 | Cable Clamp (1/2" OD) | 4 | |
| 62 | 276684G | Lower Auger Housing Weldment =Green= | 1 | |
| 63 | 276684R | Lower Auger Housing Weldment =Red= | 1 | |
| 64 | 276501G | Upper Auger Housing Weldment =Green= | 1 | |
| 64 | 276501R | Upper Auger Housing Weldment =Red= | | |
| 65 | 9405-088 | Flat Washer 1/2" | 1 | |
| 66 | 9404-025 | Lock Washer 1/2" | 1 | |
| 67 | 9390-100 | Capscrew 1/2"-13UNC x 1 1/4" | 1 | |
| 68 | 9405-098 | Flat Washer 5/8" SAE | 1 | |

Brent 2596 — Parts

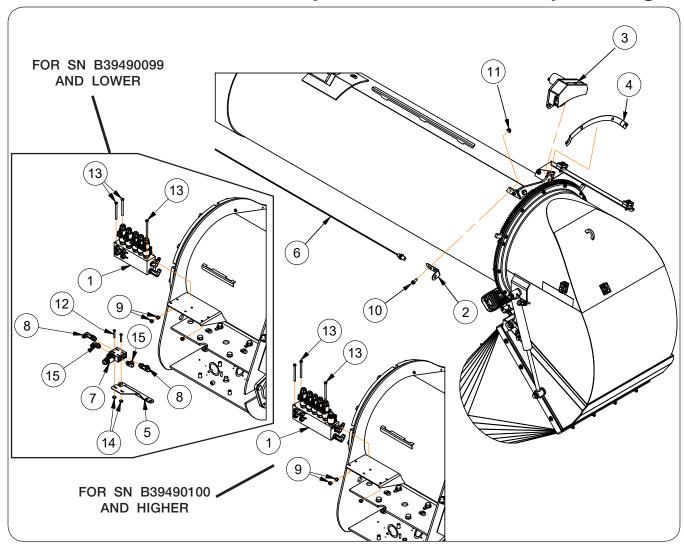
| Notes |
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| Please visit www.unverferth.com/parts/ for the most current parts listing. |
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Auger Grease Bank Components



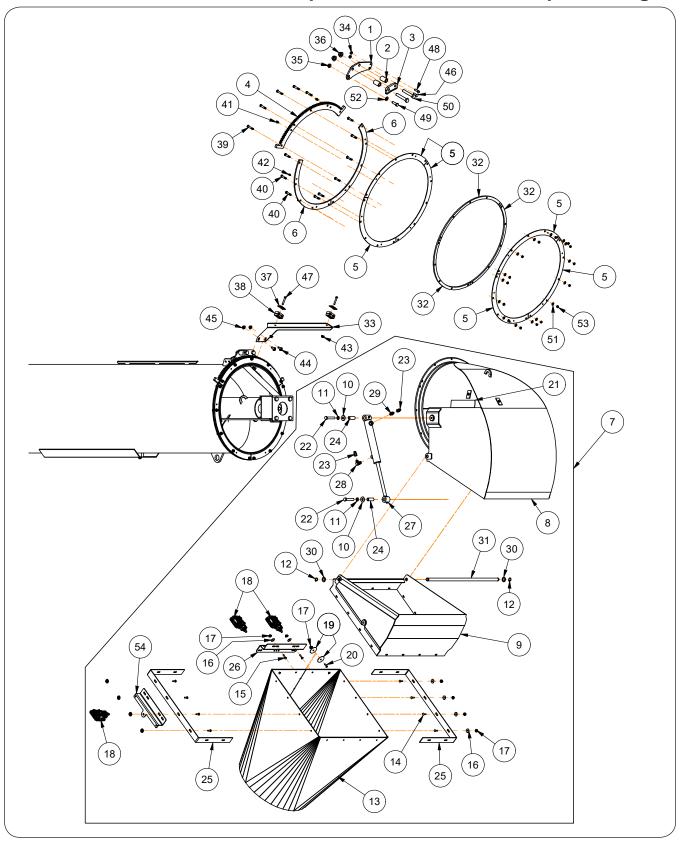
| ITEM | PART NO. | DESCRIPTION | QTY | NOTES |
|------|----------|-------------------------------------|-----|-------------------------------------|
| 1 | 9008965 | Grease Hose 3/16" x 74" (1/8" NPT) | 1 | Lower Vertical Auger Hanger Bearing |
| 2 | 9008967 | Grease Hose 3/16" x 126" (1/8" NPT) | 2 | Upper Auger Pivot Pin |
| 3 | 9008961 | Grease Hose 3/16" x 48" (1/8" NPT) | 1 | |
| 4 | 9008960 | Grease Hose 3/16" x 44" (1/8" NPT) | 1 | |
| 5 | 9008958 | Grease Hose 3/16" x 30" (1/8" NPT) | 1 | |
| 6 | 9008959 | Grease Hose 3/16" x 38" (1/8" NPT) | 1 | Vertical Auger Tilt Pivot Rings |
| 7 | 9008962 | Grease Hose 3/16" x 55" (1/8" NPT) | 1 | |
| 8 | 9008964 | Grease Hose 3/16" x 70" (1/8" NPT) | 1 | |
| 9 | 9008963 | Grease Hose 3/16" x 58" (1/8" NPT) | 1 | |
| 10 | 9009052 | Grease Hose 3/16" x 200" (1/8" NPT) | 1 | Drag Auger Center Bearing |
| 11 | 9003949 | Coupler 1/8" NPT | 11 | |
| 12 | 93426 | Grease Zerk | 11 | |
| 13 | 9006849 | Grease Zerk Cap | 11 | |

Switch Assembly Components for Rotating Spout Option



| ITEM | PART NO. | DESCRIPTION | QTY | NOTES |
|------|----------|---|-----|--------------------------|
| 1 | 272618 | Hydraulic Valve Assembly | 1 | |
| 2 | 272645B | Switch Bracket | 1 | |
| 3 | 276457B | Spout Motor Assembly | 1 | |
| 4 | 276556B | Sensor Plate | 1 | |
| 5 | 286532B | Valve Bracket | 1 | For SN B39490099 & Lower |
| 6 | 9007223 | Proximity Sensor with Connector | 1 | |
| 7 | 9007238 | Open Center Manifold Assembly | 1 | For SN B39490099 & Lower |
| 8 | 901568 | 90° Elbow Extra Long 3/4-16 JIC Male x 3/4-16 Male O-Ring | 2 | For SN B39490099 & Lower |
| 9 | 91257 | Hex Nut/Large Flange 5/16"-18UNC | 3 | |
| 10 | 91262 | Flange Screw 3/8"-16UNC x 1" G5 | 2 | |
| 11 | 91263 | Nut/Large Flange 3/8"-16UNC | 2 | |
| 12 | 9390-008 | Capscrew, 1/4"-20UNC x 1 3/4" G5 | 2 | For SN B39490099 & Lower |
| 13 | 9390-042 | Capscrew, 5/16"-18UNC x 5" G5 | 3 | |
| 14 | 97189 | Hex Nut/Large Flange 1/4"-20UNC | 2 | For SN B39490099 & Lower |
| 15 | 9874 | 90° Elbow 9/16-18 JIC Male x 3/4-16 O-Ring Male | 2 | For SN B39490099 & Lower |

Downspout Components

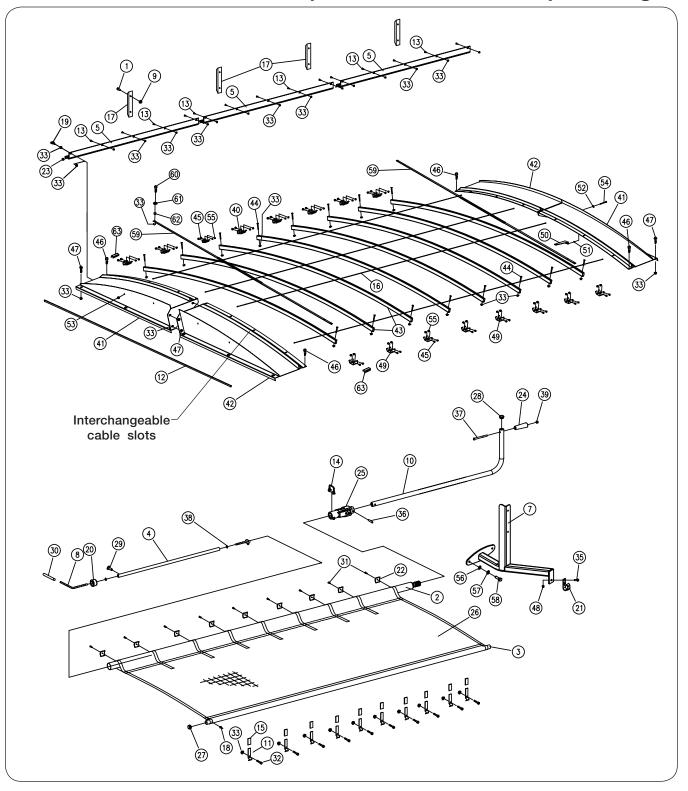


Downspout Components

| ITEM | PART NO. | DESCRIPTION | QTY. | NOTES |
|----------|--------------------|---|----------|--|
| 1 | 276496B | Mount Lock Plate | 1 | |
| 2 | 276497 | Spacer/Bushing | 2 | |
| 3 | 276498B | Lock plate | 1 | |
| 4 | 276511 | Rack Plate | 1 | |
| 5 | 276512 | Pivot Pad | 6 | |
| 6 | 276513B | Spout Pivot Plate | 2 | |
| 7 | 276999B 276514B | Spout Assembly | 1 | Includes items 8-31 and 54 (For SN B40560100 & Higher) Includes items 8-31 (For SN B40560099 & Lower) |
| 8 | 276515B | Spout Weldment | 1 | TOT ON D40000000 & LOWER) |
| 9 | 276526B | Spout Weldment | 1 | |
| 10 | 9405-088 | Flat Washer 1/2" USS | 2 | |
| 11 | 9404-025 | Lock Washer 1/2" | 2 | |
| 12 | 9003810 | Snap Ring 3/4" | 2 | |
| 13 | 9008318 | Rubber Chute | 1 | |
| 14 | 9388-003 | Carriage Bolt 1/4"-20UNC x 1" G5 | 14 | |
| 15 | | Carriage Bolt 1/4 -200NC x 1 G5 Carriage Bolt 1/4"-20UNC x 1 1/4" G5 | | |
| | 9388-004 | Flat Washer 1/4" | 2 | |
| 16 17 | 9405-066 97189 | Hex Nut/Large Flange 1/4"-20UNC | 16 24 | |
| 17 | | nex nut/Large Flatige 1/4 -200NG | | (For CN D40EC0100 & Higher) |
| 18 | 9008957 | LED Work Light | 3 | (For SN B40560100 & Higher) |
| 10 | 9007186 | | 2 | (For SN B40560099 & Lower) |
| 19 | 94763 | Fender Washer | 16 | |
| 20 | 9390-005 | Capscrew 1/4"-20UNC x 1" G5 | 8 | |
| 21 | 9003127 | Reflector 2 x 9 = AMBER= | 2 | |
| 22 | 9390-107 | Capscrew 1/2"-13UNC x 3" G5 | 2 | |
| 23 | 95193 | Adapter with 0.030 Restrictor | 2 | |
| 24 | 285290 | Sleeve Bushing .75" OD x .532" ID x 1.938 | 2 | |
| 25 | 276531B | Chute Strap | 2 | |
| 26 | 272646B | Light Bracket | 1 | |
| 27 | 9005135 | Cylinder 1 1/2 x 8 | 1 | |
| 28 | 97445 | Elbow, 90° 9/16-18 JIC Male x 9/16-18 O-Ring ADJ Male | 1 | |
| 29 | 9001495 | Adapter 9/16-18 JIC Male x 9/16-18 O-Ring | 1 | |
| 30 | 9005685 | Washer 3/4" Dia. | 2 | |
| 31 | 276530 | Pivot Shaft 3/4" Dia. x 27 | 1 | |
| 32 | 276550B | Spacer Plate | 3 | |
| 33 | 276577B | Hose Bracket | 1 | |
| 34 | 9003396 | Lock Nut/Top 3/8"-16UNC | 2 | |
| 35 | 9003397 | Lock Nut/Top 1/2"-13UNC | 1 | |
| 36 | 9003398 | Lock Nut/Top 5/8"-11UNC | 7 | |
| 37 | 9003814 | Clamp Top Plate | 4 | |
| 38 | 9003816 | Double Hose Clamp (Pair) | 4 | |
| 39 | 9007837 | Shoulder Bolt 3/8" Dia. Socket Head, 5/16"-18UNC x 1 1/4" | 5 | |
| 40 | 9007843 | Sholder Bolt 3/8" Dia. Socket Head, 5/16"-18UNC x 1" | 10 | |
| 41 | 9008110 | Zerk 1/8-27 with Cap | 4 | |
| 42 | 91160 | Zerk 1/4-28 STT | 4 | |
| 43 | 91257 | Hex Nut/Large Flange 5/16"-18UNC | 4 | |
| 44 | 91262 | Flange Screw 3/8"-16UNC x 1" | 2 | |
| 45 | 91263 | Nut/Large Flange 3/8"-16UNC | 8 | |
| 46 | 9388-052 | Carriage Bolt 3/8"-16UNC x 1 1/4" | 1 | |
| 47 | 9390-034 | Capscrew 5/16"-18UNC x 2" G5 | 2 | |
| 48 | 9390-056 | Capscrew 3/8"-16UNC x 1 1/4" G5 | 1 | |
| 49 | 9390-101 | Capscrew 1/2"-13UNC x 1 1/2" G5 | 1 | |
| 50 | 9390-131 | Capscrew 5/8"-11UNC x 3 3/4" G5 | 2 | |
| 51 | 9405-064 | Flat Washer 1/4" USS | 15 | |
| 52 | 9405-086 | Flat Washer 1/2" SAE | 3 | |
| 53 | 9807 | Lock Nut/Top 5/16"-18UNC | 15 | |
| 54 | 272841B | Light Bracket | 1 | (For SN B40560100 & Higher) |
| U-7 | LILUTIU | Light Didonot | <u>'</u> | THE STATE PRODUCTION OF THISHEI) |



Weather Guard Tarp Components



Weather Guard Tarp Components

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

| ITEM | PART NO. | DESCRIPTION | QTY | NOTES |
|------|------------|---|-----|--|
| | 274863B | Tarp Kit | - | Bow and End Caps NOT Included Includes Items 2-5, 8, 10, 11, 15, 18-38, 48, & 50 |
| 1 | 9004355 | Screw 1/4-20UNC x 1 Self-Threading | 8 | |
| 2 | 274867 | Roll Tube Weldment | 1 | |
| 3 | 274865 | Fixed Tube Weldment | 1 | |
| 4 | 221668 | Pipe - 180" | 1 | |
| 5 | 276377 | Plate - Latch 129 1/2" | 3 | |
| 7 | 273501B | Handle Bracket Weldment | 1 | |
| 8 | 221722 | Bungee 3/8" Dia. x 204" | 1 | |
| 9 | 97189 | Hex Nut/Large Flange 1/4-20UNC | 8 | |
| 10 | 287944 | Tarp Handle Weldment | 1 | |
| 11 | 266689B | Tarp Short Stop Plate | 11 | |
| 12 | 9000787 | Trim-lok | A/R | 14 feet |
| 13 | 9005312 | Torx Head Machine Screw 3/8-16UNC x 1 | 14 | Grade 5 |
| 14 | 9005305 | Lynch Pin 3/8" x 3" | 1 | |
| 15 | 9003078 | Cap - Plastic (2 x 3) | 11 | |
| 16 | 9008179 | Cable Assembly 373" | 4 | Holds up to 6 |
| 17 | 9005307 | Poly Deflector 8" | 4 | |
| 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 Weldment | 1 | |
| 22 | 9004949 | U-Clamp | 12 | |
| 23 | 9004968 | Plug 1" | 2 | |
| 24 | 9004969 | Handle | 1 | |
| 25 | 9004977 | U-Joint w/ 1 3/8-21 Spline | 1 | |
| 00 | 9008175 | Tarp 188 x 385 | 1 | |
| 26 | 9005581 | Tarp Repair Kit | - | |
| 27 | 9005088 | Plug 1 1/8 | 2 | |
| 28 | 9005089 | Plug 1 1/4 | 1 | |
| 29 | 9001396 | Pan Head Screw #10-16 x 1/2" | 1 | |
| 30 | TA806225 | Hose 1/2 EPDM | 1 | |
| 31 | 9005197 | Screw/Self Drilling #10-16 x 3/4 Pan Head | 12 | |
| 32 | 91262 | Screw/Large Flange 3/8-16UNC x 1 | 11 | Grade 5 |
| 33 | 91263 | Nut/Large Flange 3/8-16UNC | 63 | Grade 5 |
| 35 | 9390-055 | Capscrew 3/8-16UNC x 1 | 1 | Grade 5 |
| 36 | 9392-180 | Roll Pin 3/8" Dia. x 2" | 1 | |
| 37 | 903172-450 | Pan Head 3/8"-16UNC x 4 1/2" Phillips | 1 | |
| 38 | 9405-074 | Flat Washer 3/8 | 2 | |

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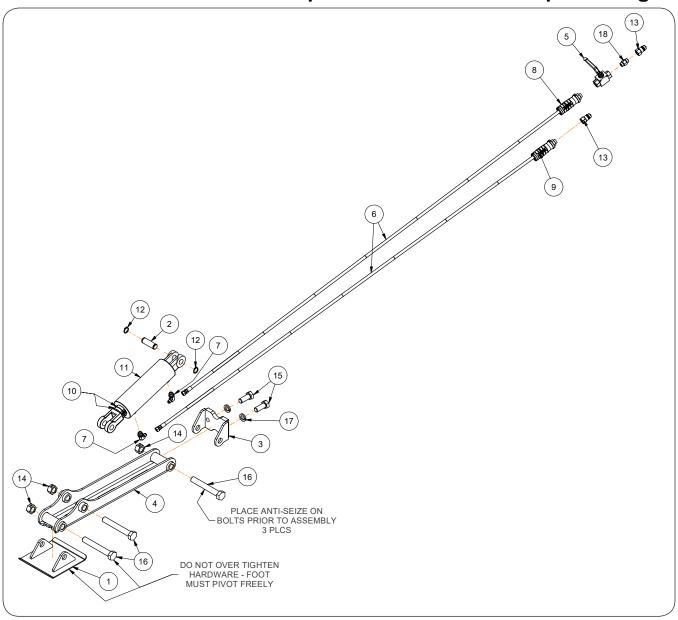
Weather Guard Tarp Components (continued)

| ITEM | PART NO. | DESCRIPTION | QTY | NOTES |
|------|--------------|--|-----|---------------------------|
| 39 | 9398-012 | Elastic Stop Nut 3/8-16UNC | 1 | |
| 40 | 283425B | RH Bracket For Side Boards/Tarp Bow Weldment | 9 | |
| 41 | 273354B | RH-End Cap Weldment | 2 | |
| 42 | 273353B | LH-End Cap Weldment | 2 | |
| 43 | 291289B | Tarp Bow Weldment | 9 | |
| 44 | 902703-046 | Flat Socket Capscrew 3/8"-16UNC x 3" | 18 | |
| 45 | 97604 | Screw/Large Flange, 5/16-18 UNC x 1 | 36 | For SN B41350100 & Higher |
| 45 | 91256 | Screw/Large Flange, 5/16-18 UNC x 3/4 | 30 | For SN B41350099 & Lower |
| 46 | 9512 | Screw/Self Drilling 1/4-14 x 1 | 4 | |
| 47 | 95585 | Capscrew/Large Flange 3/8-16UNC x 3/4 | 18 | Grade 5 |
| 48 | 9928 | Locknut 3/8-16UNC | 1 | |
| 49 | 283427B | LH Bracket For Side Boards/Tarp Bow Weldment | 9 | |
| 50 | 281712B | Bracket Assembly | 4 | |
| 51 | 9005688 | Star Washer | 4 | |
| 52 | 9005696 | Fender Washer | 4 | |
| 53 | 9005727 | Plug | 4 | |
| 54 | TA0-907131-0 | Capscrew 3/8-16UNC x 4 1/2 (Full Threaded) | 4 | |
| 55 | 91257 | Hex Nut/Large Flange, 5/16-18 UNC | 36 | |
| 56 | 9405-074 | Flat Washer 3/8" | 2 | |
| 57 | 9404-021 | Lock Washer 3/8" | 2 | |
| 58 | 9390-056 | Capscrew 3/8-16UNC x 1 1/4 | 2 | Grade 5 |
| 59 | 9008952 | Hurricane Strap For 14 FT Wide Hopper | 2 | |
| 60 | 96972 | Screw/Self Tapping 3/8"-16UNC x 1" | 2 | |
| 61 | 9008972 | Flat Washer, 3/8" Aluminum | 4 | |
| 62 | 9008949 | Tarp Strap Spacer Bushing | 4 | |
| 63 | 294660B | Sideboard Doubler =Black= | 18 | For SN B41350100 & Higher |

Brent 2596 — Parts

| Notes |
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| Please visit www.unverferth.com/parts/ for the most current parts listing. |
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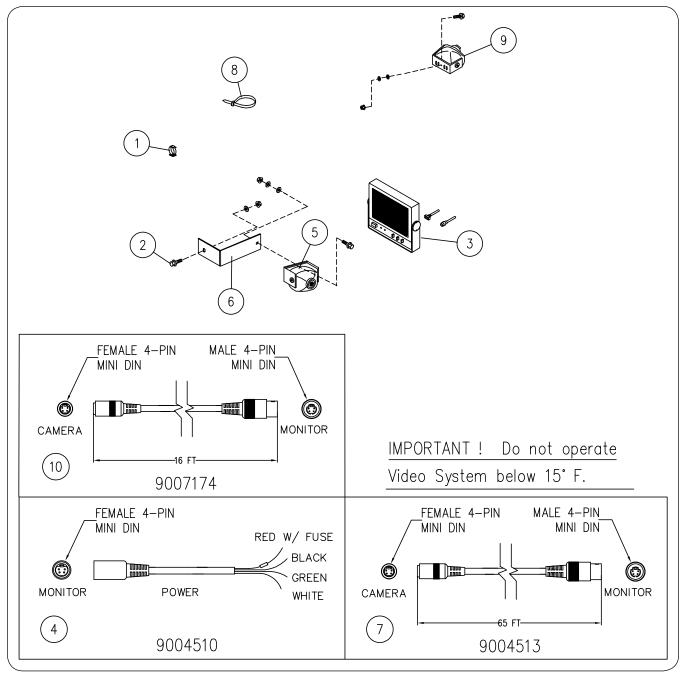
Hydraulic Jack - Kit #276645B (Optional)



Hydraulic Jack - Kit #276645B (Optional)

| ITEM | PART NO. | DESCRIPTION | QTY | NOTES |
|------|----------|--|-----|---|
| 1 | 271723B | Jack Foot Weldment =Black= | 1 | |
| 2 | 272587 | Pin, 1" Dia. x 3 1/8 | 1 | |
| 3 | 273808B | Jack Mount Weldment =Black= | 1 | |
| 4 | 276380B | Jack Leg Weldment =Black= | 1 | |
| 5 | 9005426 | High Pressure Ball Valve | 1 | |
| 6 | 9006068 | Hydraulic Hose, 1/4 x 92" - 3000 PSI | 2 | |
| 7 | 9006173 | Elbow, 90° | 2 | |
| 8 | 9008600 | Hose Grips - Black (Pair) - Raise Jack | 1 | Solid Black - Cylinder Extended (For SN B40240100 & Higher) |
| | 9006651 | Sleeve Hose Marker - Raise Jack | | (For SN B40240099 & Lower) |
| 9 | 9008600 | Hose Grips - Black (Pair) - Lower Jack | 1 | Half Black/Half Gray - Cylinder Retracted (For SN B40240100 & Higher) |
| | 9006652 | Sleeve Hose Marker - Lower Jack | | (For SN B40240099 & Lower) |
| 10 | 9007301 | Shaft Collar - 1.25" Bore | 2 | |
| 11 | 9009047 | Hydraulic Cylinder, 3 1/2 x 8 - 3000 PSI | 1 | |
| 12 | 91192 | Retaining Ring, 1" | 2 | |
| 13 | 91383 | Male Tip Coupling | 2 | |
| 14 | 92199 | Center Locknut, 1-8UNC | 3 | |
| 15 | 9390-165 | Capscrew, 7/8-9UNC x 2 1/4 Grade 5 | 2 | |
| 16 | 9390-197 | Capscrew, 1-8UNC x 7 Grade 5 | 3 | |
| 17 | 9404-037 | Split Lock Washer, 7/8 | 2 | |
| 18 | 98508 | Adapter, 3/4-16 OR Male x 3/4-16 OR Male | 1 | |

Video System (Optional)



Video System (Optional)

| ITEM | PART NO. | DESCRIPTION | QTY | NOTES |
|------|-----------|---|-----|--|
| | 265770 | Video System Kit for Front View | 1 | Includes Items 1,2,3,4,5,6,7,8 and own Instruction Sheet |
| | 9004506 | Additional Camera for Rear View | 1 | Includes Items 6 & 7 |
| 1 | TAAU14007 | Snap Clip, Adhesive | 10 | |
| 2 | 9512 | Self-Drilling Screw 1/4-14 x 1 | 10 | |
| 3 | 9006273 | Monitor, 7" LCD/LED | 1 | |
| 4 | 9004510 | Cable w/Fuse | 1 | |
| 5 | 9006274 | Camera | 1 | |
| 6 | 265771B | Bracket | 1 | |
| 7 | 9004513 | Cable, 65' | 1 | |
| 8 | 9000107 | Cable Tie | AR | |
| 9 | 9004506 | Camera Kit for Rear View with 65' Cable | 1 | |
| 10 | 9007174 | Camera Cable, 16 ft. | 1 | |



