



***BRENT* Grain Handling**

THE GRAIN TRAIN® WAGONS
MODELS 557, 657, 757,
557Q, 657Q, 757Q

Serial Number B43250100 & Higher

Part No. 301253

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 on the frame as shown below.

Purchase Date _____ Model _____

Serial No. _____ Dealer _____

City _____

Dealer Contact _____ Phone _____



IMPORTANT

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

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General Hazard Information

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

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

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

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



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

SIGNAL WORDS



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



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



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

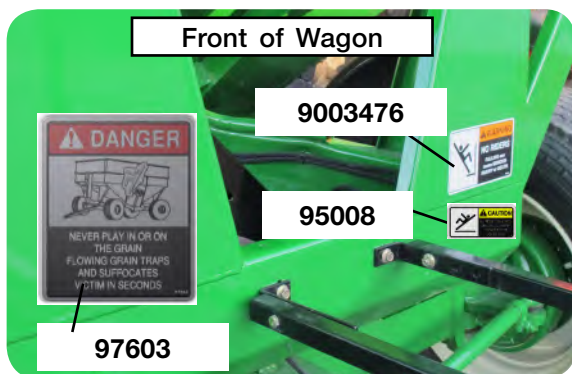


Is used for instruction on operating, adjusting, or servicing a machine.

Safety Decals

WARNING

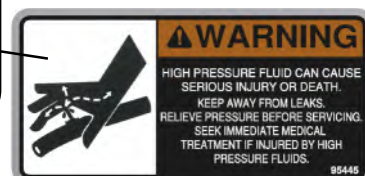
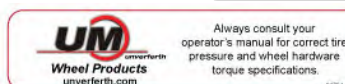
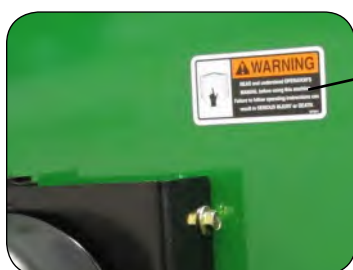
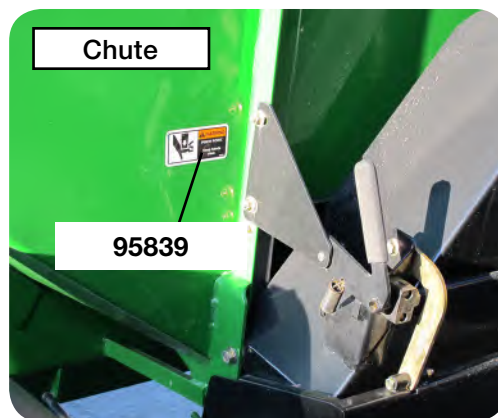
- REPLACE LOST, DAMAGED, PAINTED, OR UNREADABLE DECALS IMMEDIATELY. IF PARTS THAT HAVE DECALS ARE REPLACED, ALSO MAKE SURE TO INSTALL NEW DECALS. THESE DECALS INFORM AND REMIND THE OPERATOR WITH OPERATIONAL INFORMATION AND SAFETY MESSAGES.



Tongue - near 7-pin plug






Vertical Tongue Pivot




94754

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 towing vehicle 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 enter a wagon containing grain. Flowing grain traps and suffocates victims in seconds.

Before Servicing or Operating

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

- To prevent personal injury or death, always ensure that there are people who remain outside the wagon to assist the person working inside, and that all safe workplace practices are followed. There is restricted mobility and limited exit paths when working inside the implement.
- Explosive separation of a tire and rim can cause serious injury or death. Only properly trained personnel should attempt to service a tire and wheel assembly.
- 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.
- Secure drawbar pin with safety lock and lock tractor drawbar in fixed position.
- Ensure that all applicable safety decals are installed and legible.

During Operation

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

Before Transporting

- Secure transport chain to towing vehicle before transporting. DO NOT transport without chains.
- Use only an Unverferth ASABE transport chain with a weight rating exceeding the gross combined weight of all towed implements. Contact your Unverferth dealer for additional information.
- Ensure that the towing vehicle has adequate weight and braking capacity to tow this unit.
- Check for proper function of all available transport lights. Make sure that all reflectors are clean and in place on machine. Make sure the SMV emblem and SIS decal are visible to approaching traffic.

During Transport

- Comply with all laws governing highway safety when moving machinery.
- Use transport lights as required by all laws to adequately warn operators of other vehicles.
- Regulate speed to road conditions and maintain complete control.
- Maximum transport speed of this implement should never exceed 20 mph as indicated on the machine. Maximum transport speed of any combination of implements must not exceed the lowest specified speed of the implements in combination. Do not exceed 10 mph during off-highway travel.
- Slow down before making sharp turns to avoid tipping. Drive slowly over rough ground and side slopes.
- It is probable that this implement is taller, wider and longer than the towing vehicle. Become aware of and avoid all obstacles and hazards in the travel path of the equipment, such as power lines, ditches, etc.

Pressurized Oil

- Relieve the hydraulic system of all pressure before adjusting or servicing. See hydraulic power unit manual for procedure to relieve pressure.
- High-pressure fluids can penetrate the skin and cause serious injury or death. Leaks of high-pressure fluids may not be visible. Use cardboard or wood to detect leaks in the hydraulic system. Seek medical treatment immediately if injured by high-pressure fluids.
- Do not bend or strike high-pressure lines. Do not install bent or damaged tubes or hoses.
- Repair all oil leaks. Leaks can cause fires, personal injury, and environmental damage.
- Route hoses and lines carefully to prevent premature failure due to kinking and rubbing against other parts. Make sure that all clamps, guards and shields are installed correctly.
- Check hydraulic hoses and tubes carefully. Replace components as necessary if any of the following conditions are found:
 - o End fittings damaged, displaced, or leaking.
 - o Outer covering chafed/cut or wire reinforcing exposed.
 - o Outer covering ballooning locally.
 - o Evidence of kinking or crushing of the flexible part of a hose.



Preparing for Emergencies

- Keep a first aid kit and properly rated fire extinguisher nearby.



- Keep emergency numbers for fire, rescue, and poison control personnel near the phone.



Wearing Protective Equipment

- Wear clothing and personal protective equipment appropriate for the job.



- Wear steel-toed shoes when operating.



- Wear hearing protection when exposed to loud noises.



- Do not wear additional hearing impairing devices such as radio headphones, etc.



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FOR ELECTRIC TARP INFORMATION, PLEASE REFER TO YOUR ELECTRIC TARP MANUAL.

Set Up Checklist

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

- ☐ Torque wheel nuts as specified in MAINTENANCE section.
- ☐ Check tire pressure and inflate tires as needed to specific air pressure. See “Tire Pressure” in MAINTENANCE section.
- ☐ Lubricate all grease fittings and check all oil bath hub oil level. “See “Lubrication” in the MAINTENANCE 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.
- ☐ Install transport chains and torque hardware to specification. See “Transport Chain Connection” in OPERATION section.
- ☐ Paint all parts scratched in shipment.

SMV Emblem & SIS Decals

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



FIG. 2-1



FIG. 2-2

Ensure the SIS decals (one on the front and one on the rear of the wagon) are clean and visible.

For front and rear 20 M.P.H. SIS decals, order 9008714.

For front and rear 30 K.P.H. SIS decals, order 9008720.



FIG. 2-3

Important Check Points

Tires and Wheels

1. Check tire pressures and maintain at recommended values listed in the MAINTENANCE section.

For questions regarding new tire warranty, please contact your local original equipment tire dealer. Used tires carry NO WARRANTY. Tire manufacturers' phone numbers and web sites are listed in the MAINTENANCE section. For your convenience.

2. Check the torque of the wheel nuts/bolts.



CAUTION

- IMPROPERLY TORQUED WHEEL NUTS/BOLTS CAN CAUSE A LOSS OF IMPLEMENT CONTROL AND MACHINE DAMAGE. WHEEL NUTS/BOLTS MUST BE CHECKED REGULARLY. SEE TORQUE PAGE IN THE "MAINTENANCE" SECTION FOR PROPER WHEEL NUT/BOLT SPECIFICATIONS. WARRANTY DOES NOT COVER FAILURES CAUSED BY IMPROPERLY TORQUED WHEEL NUTS/BOLTS.
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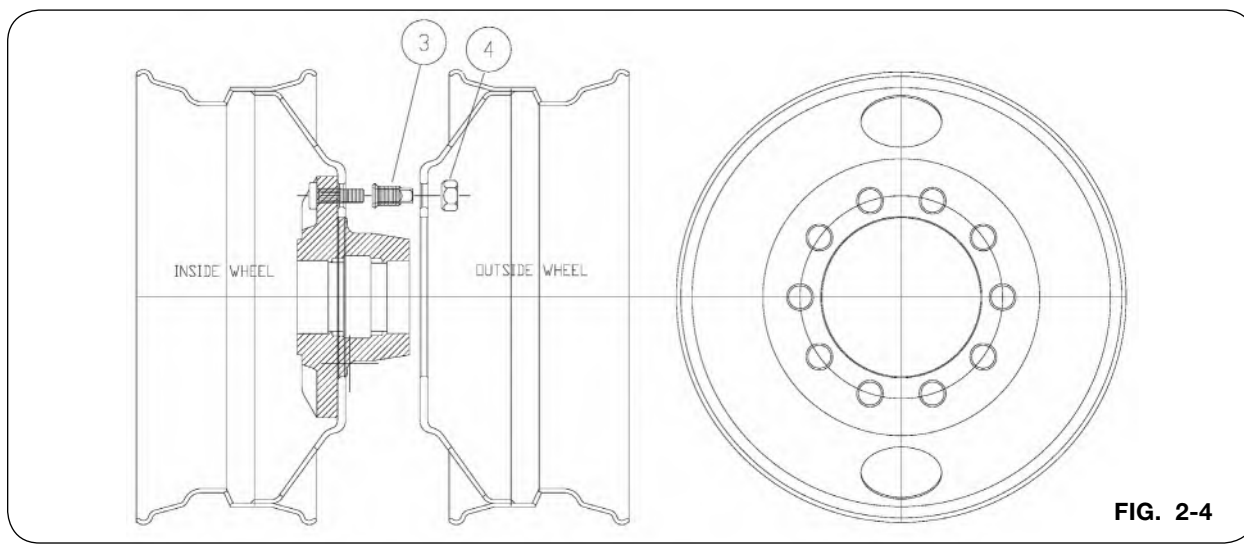
Important Check Points (continued)**Dual Wheels****⚠ WARNING**

- FALLING OBJECTS CAN CAUSE SERIOUS INJURY OR DEATH. DO NOT WORK UNDER THE MACHINE AT ANY TIME WHILE BEING HOISTED. BE SURE ALL LIFTING DEVICES AND SUPPORTS ARE RATED FOR THE LOADS BEING HOISTED. THESE ASSEMBLY INSTRUCTIONS WILL REQUIRE SAFE LIFTING DEVICES UP TO 4,000 LBS. SPECIFIC LOAD RATINGS FOR INDIVIDUAL LOADS WILL BE GIVEN AT THE APPROPRIATE TIME IN THE INSTRUCTIONS.
- KEEP HANDS CLEAR OF PINCH POINT AREAS.
- EYE PROTECTION AND OTHER APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT MUST BE WORN WHILE SERVICING IMPLEMENT.
- TIPPING OR MOVEMENT OF THE MACHINE CAN CAUSE SERIOUS INJURY OR DEATH. BE SURE MACHINE IS SECURELY BLOCKED.

⚠ CAUTION

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

1. Hitch wagon to tractor. Park the empty unit on a firm, level surface. Set the tractor's parking brake, shut-off engine and remove the ignition key.
2. Using a safe lifting device rated for a minimum of 4,000 lbs. and supports rated at 2,000 lbs. minimum, raise the wagon and place supports to each side under the axle.
3. Install inside wheel over ten existing wheel studs (3/4"-16 UNF). Torque hardware according to "Wheel Nut Torque Requirements" in MAINTENANCE section.
4. Install outside wheel on wheel nuts (1 1/8-16 UN). Torque hardware according to "Wheel Nut Torque Requirements" in MAINTENANCE section.

**FIG. 2-4**

Hitch

The standard hitch pin size for your grain wagon is 1 1/4". The optional hitch kit includes a 1 1/2" I.D. ball hitch and bushing for a 1 1/4" pin. It also includes a hammerstrap for the 1 1/4" rear hitch.

IMPORTANT

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

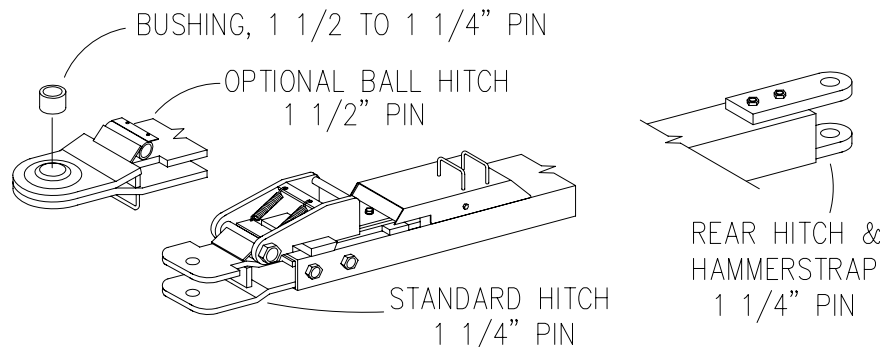


FIG. 2-5

Transport Chain



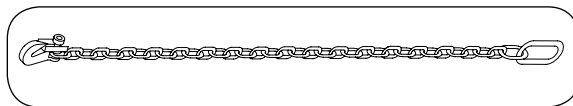
CAUTION

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

All of The Grain Train® wagons feature a transport chain as standard equipment. This transport chain is sized for towing one Model 557, 657 or 757 grain wagon, fully loaded. Refer to "Transport Chain Connection" in OPERATION section for complete transport chain instructions.

Connection should have only the necessary amount of slack for articulation.

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

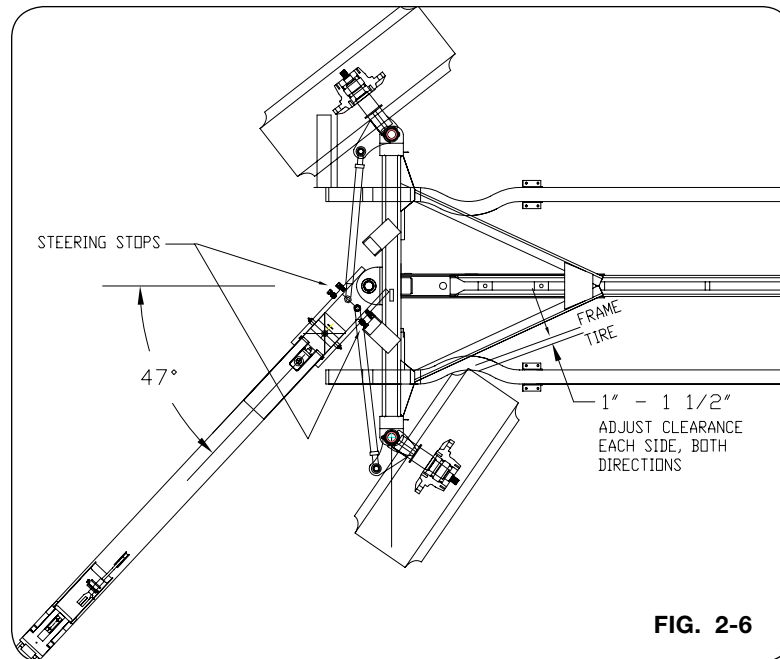


Transport Chain Part No.	Model	Max. Weight of Towed Unit(s) (lbs.)
95055	557 & 657	40,500
9003269	757 (Standard) 557/657 (Optional)	60,500

Steering

Axle Stop Adjustment

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



Sideboards

WARNING

- TO PREVENT PERSONAL INJURY OR DEATH, ALWAYS ENSURE THAT THERE ARE PEOPLE WHO REMAIN OUTSIDE THE WAGON TO ASSIST THE PERSON WORKING INSIDE, AND THAT ALL SAFE WORKPLACE PRACTICES ARE FOLLOWED. THERE ARE RESTRICTED MOBILITY AND LIMITED EXIT PATHS WHEN WORKING INSIDE THE IMPLEMENT.

1. Park the empty wagon on a firm level surface. Block the tires on the wagon to prevent it from moving. Set the towing vehicle parking brake, shut off the towing vehicle, and remove the ignition key from the towing vehicle.
2. Rotate the sideboards up into position and secure at corner holes.
3. Attach the center support hardware. Refer to parts page.
4. Tighten all hardware, including hinge bolts.

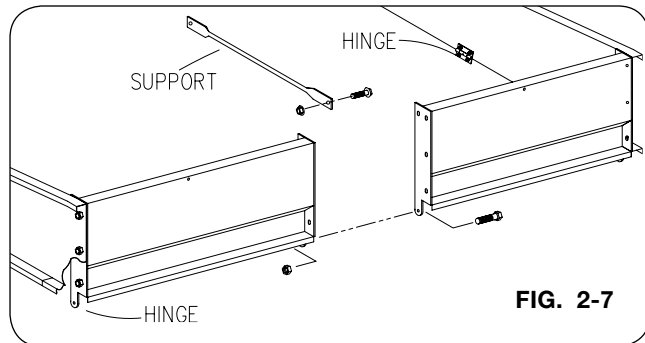
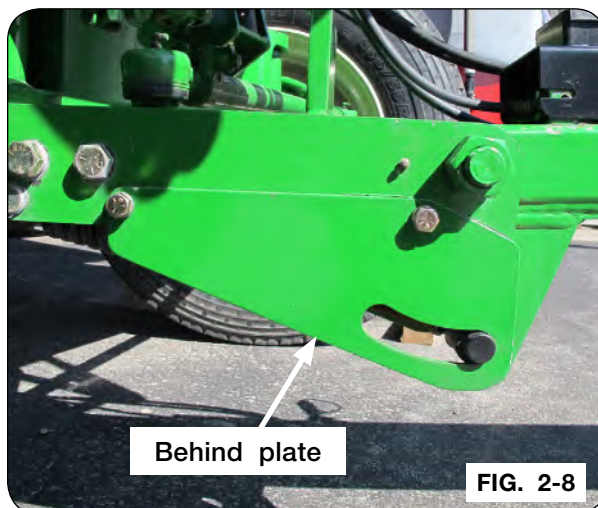


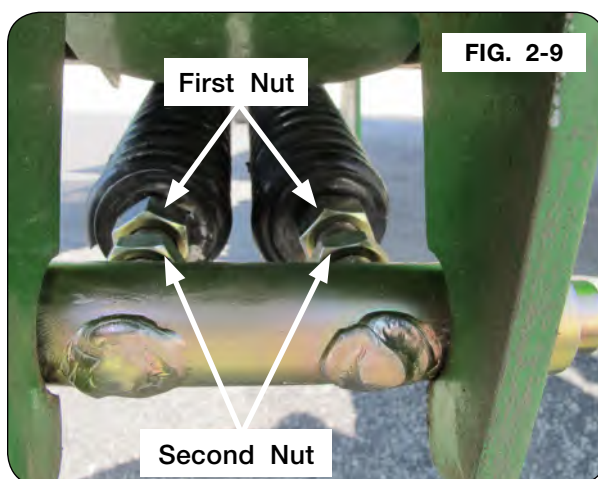
FIG. 2-7

Adjustable Tongue Height

1. Park the empty wagon on a firm level surface. Block the tires on the wagon to prevent it from moving. Set the towing vehicle parking brake, shut off the towing vehicle, and remove the ignition key from the towing vehicle.
2. To change the tongue height, adjust the lengths of the springs at the rear of the tongue, behind the side plates. (FIG. 2-8)



3. Using a wrench on each of the two nuts on the same shaft, back the second nut away from the first nut. Repeat on the other thread shaft.
4. Turn the first nuts an equal number of rotation. Clockwise to raise the height of the hitch, counter-clockwise to lower the hitch. (FIG. 2-9)
5. Once the desired height is achieved, turn the second nut against the first nut and tighten to lock the nuts on the threaded shaft. Repeat for the other shaft.



NOTE: If the tongue height does not change, it may be necessary to adjust the clamping of the tongue pivot bolt, making sure to loosen and retighten the setscrew.

Adjustable Chute

Your grain wagon features an adjustable-height unloading chute. The two adjustment bolts are located under the door area of the grain wagon on the right and left sides of the door. When the bolts turned in (clockwise), the unloading height of the chute lowers. When the bolts are turned out (counter-clockwise), the chute height is increased.



FIG. 2-10

Fender Installation - Optional

WARNING

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

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

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

Rear Fenders

1. Bolt rear bottom arms to frame with 1/2"-13UNC x 1 3/4" capscrews (9390-102) and 1/2"-13UNC flange nuts (91267). (FIG. 2-11, FIG. 2-12, & FIG. 2-13)

FIG. 2-11

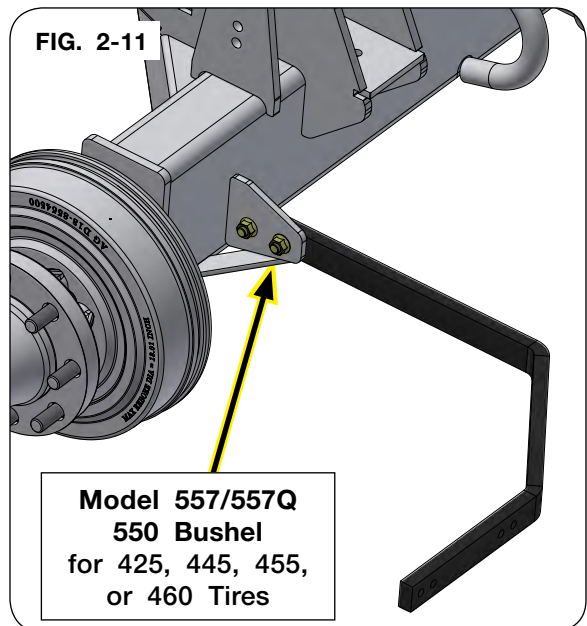


FIG. 2-12

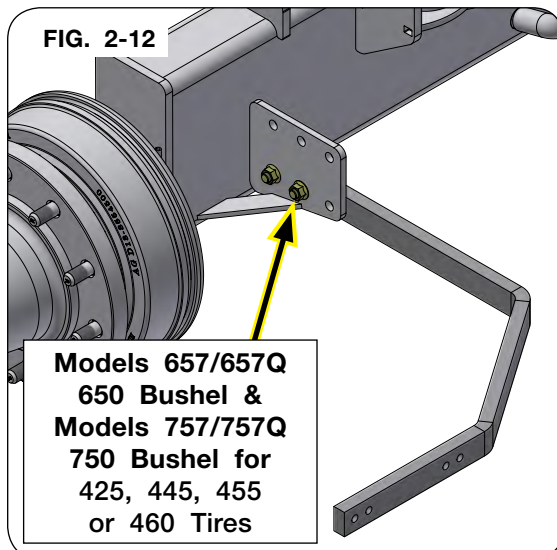
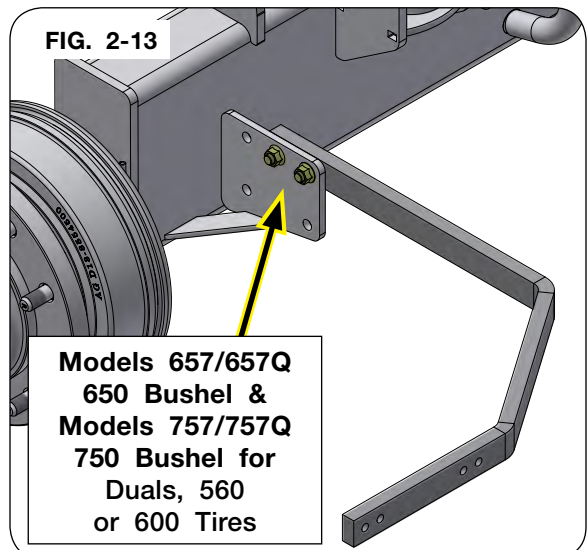


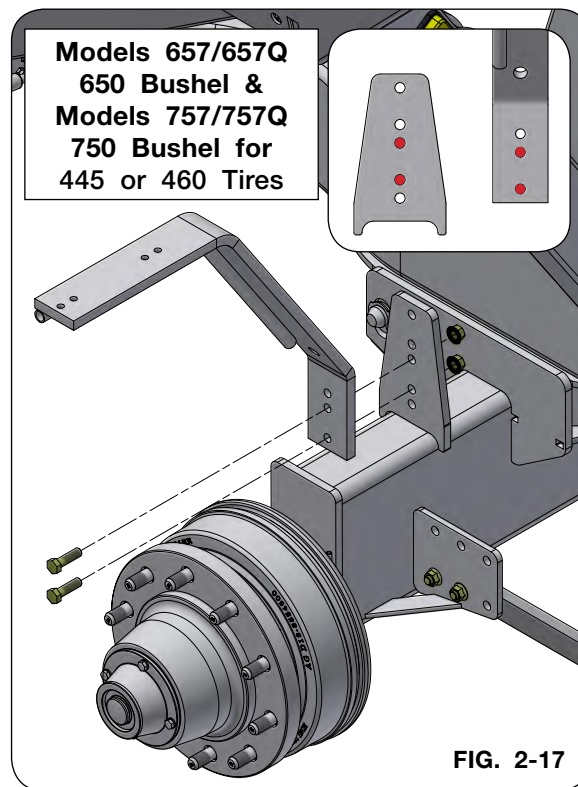
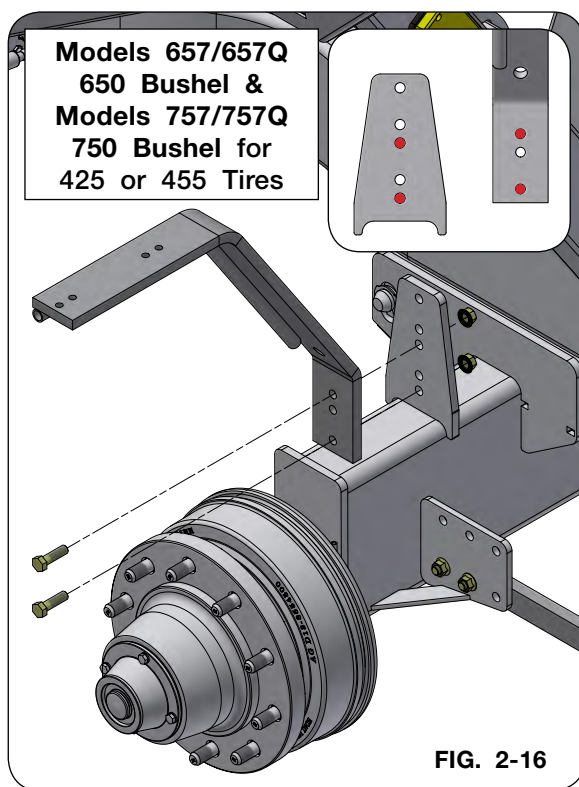
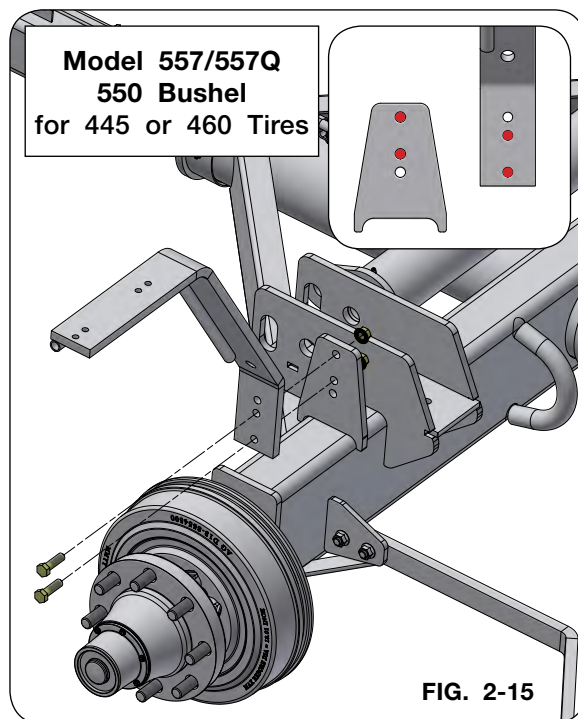
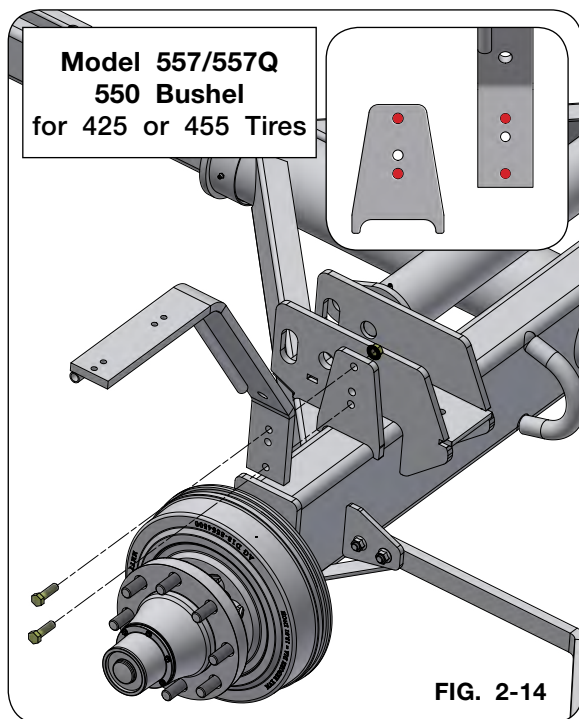
FIG. 2-13



Fender Installation - Optional (continued)

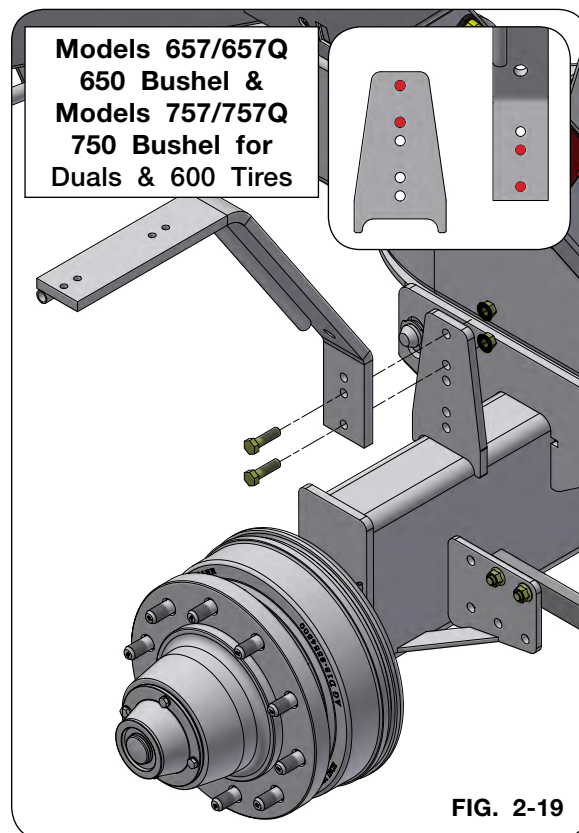
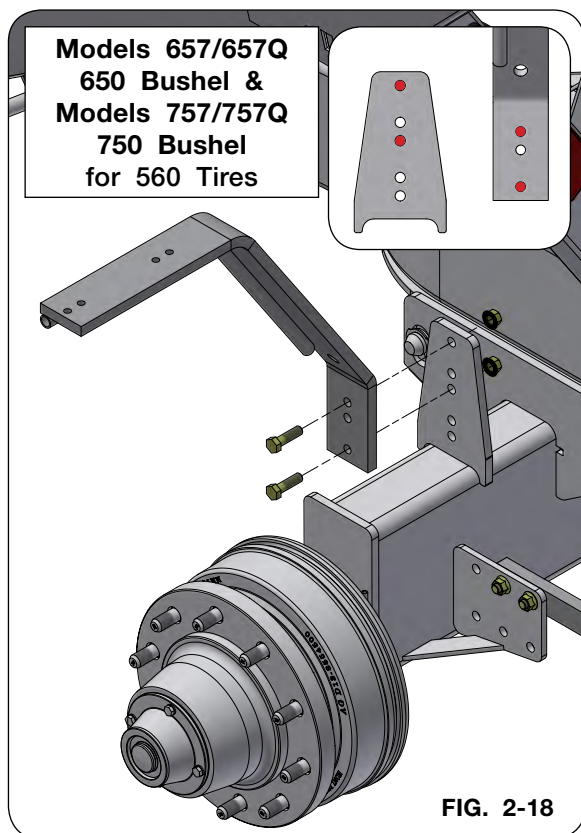
2. Bolt rear top arms to frame with 1/2"-13UNC x 1 3/4" capscrews (9390-102) and 1/2"-13UNC flange nuts (91267). (FIG. 2-14 through FIG. 2-19)

NOTE: Use these hole locations for clearance purposes.



Fender Installation - Optional (continued)

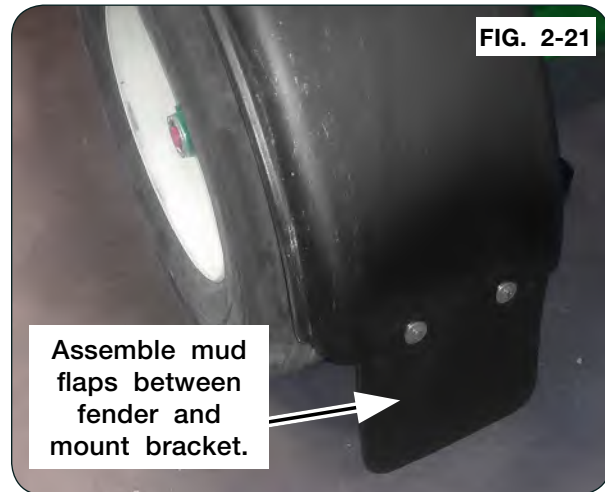
2. (continued)



Fender Installation - Optional (continued)

Rear Fenders

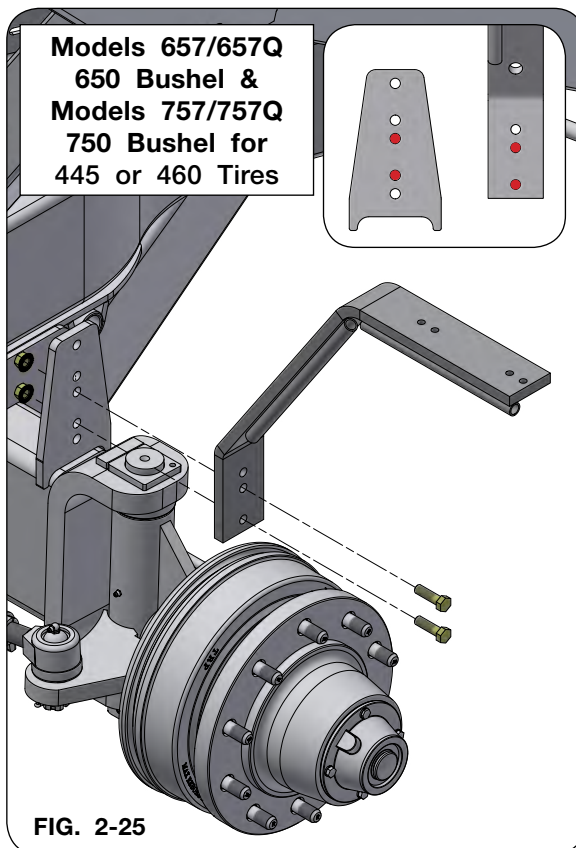
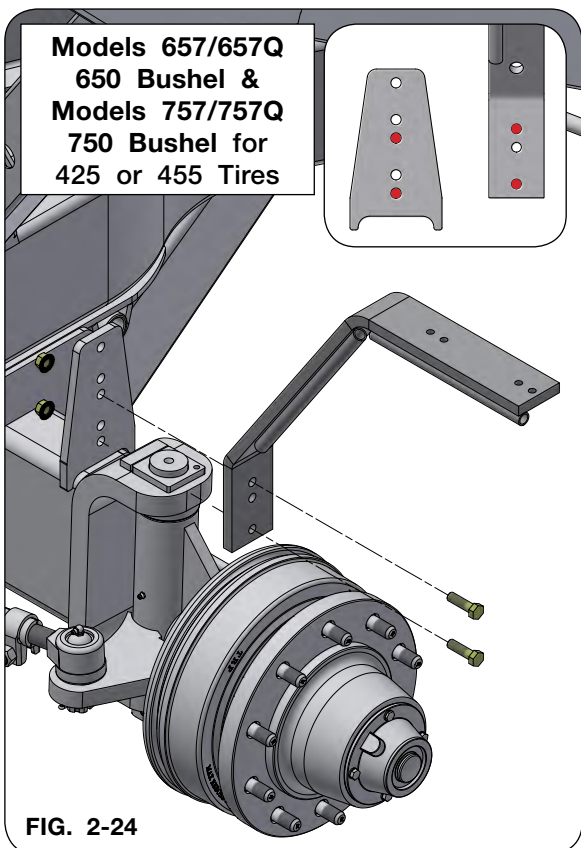
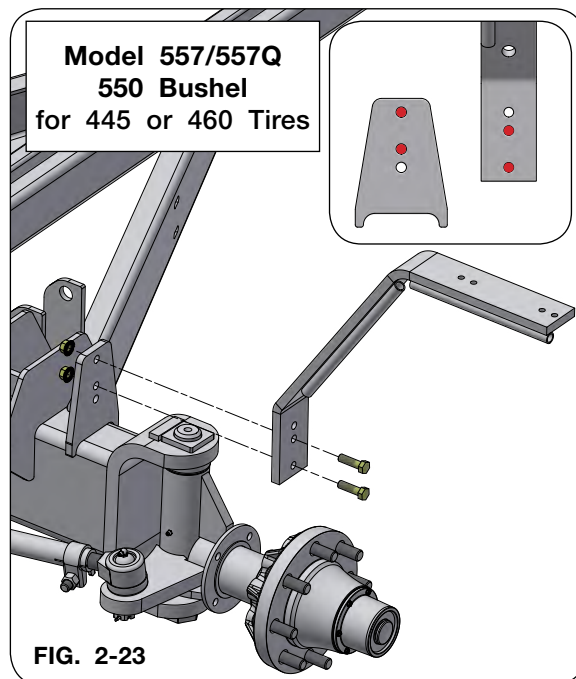
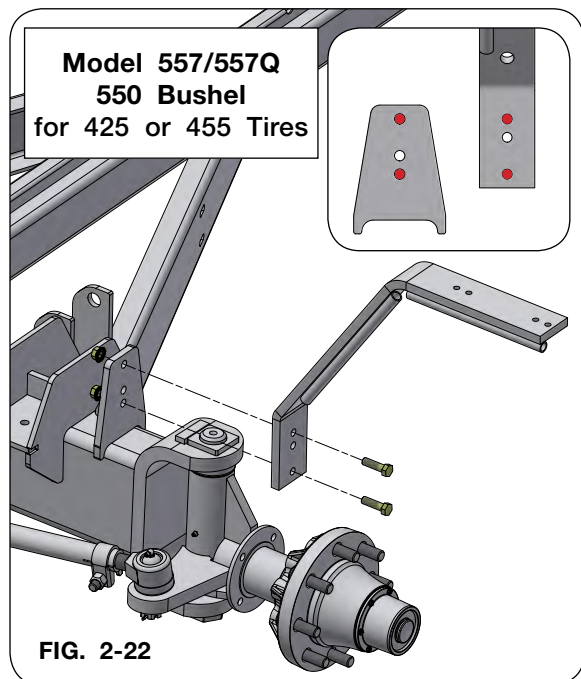
3. Position rear fenders over top arms and secure with capscrews, fender washers and locknuts.
4. Assemble mud flaps and bottom arms (right-hand and left-hand) to rear fenders as shown with cap-screws, fender washers and locknuts. Make sure fender is straight and tighten hardware.



Fender Installation - Optional (continued)

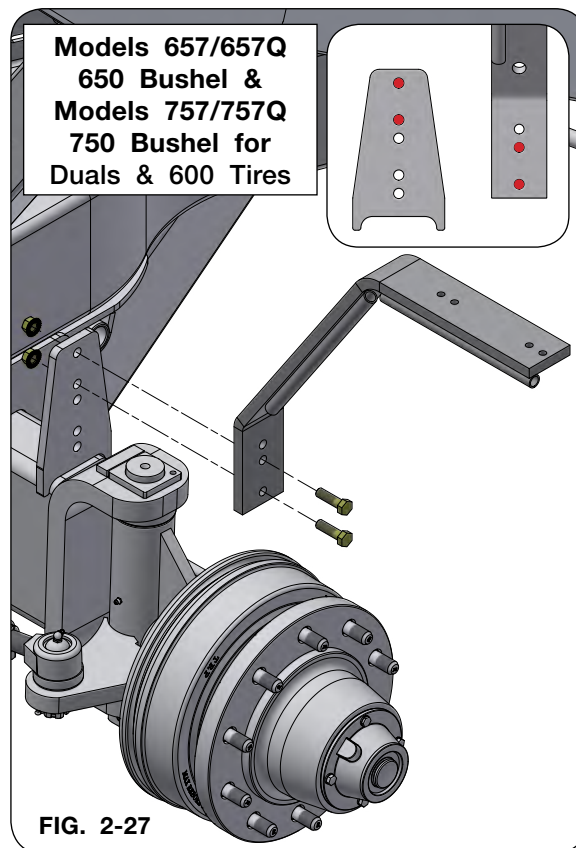
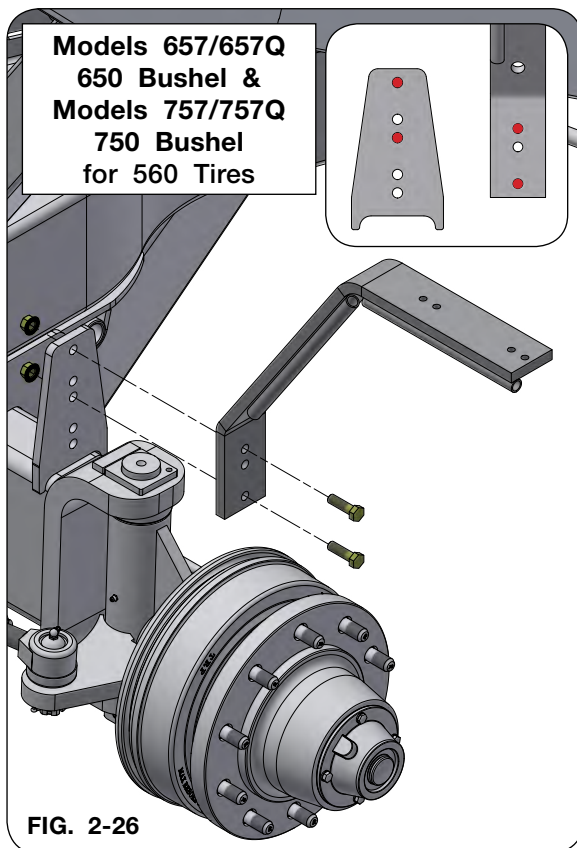
Front Fenders

5. Bolt front top arms to frame with 1/2"-13UNC x 1 3/4" capscrews (9390-102) and 1/2"-13UNC flange nuts (91267). (FIG. 2-22 through FIG. 2-27)

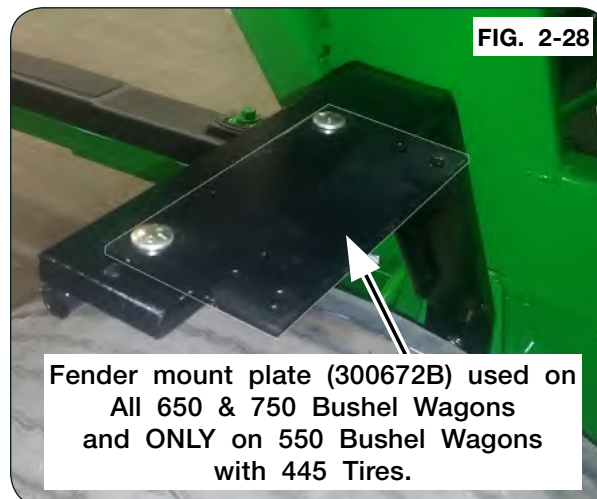


Fender Installation - Optional (continued)

5. (continued)



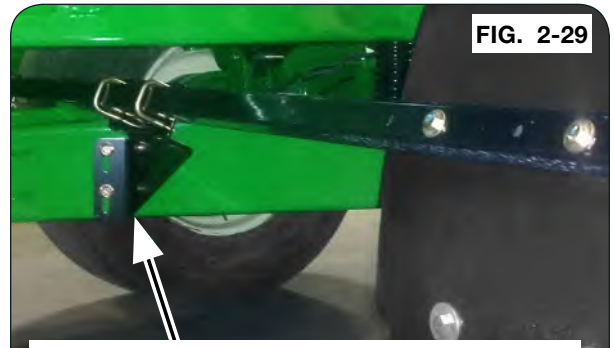
6. Use the fender mount plate (300672B) for mounting the front fender to the top arms on the standard tire fender kit. Secure with 3/8"-16UNC x 1 1/2" carriage bolts (9388-053) and 3/8"-16UNC locknuts (9928). (FIG. 2-28)



Fender Installation - Optional (continued)

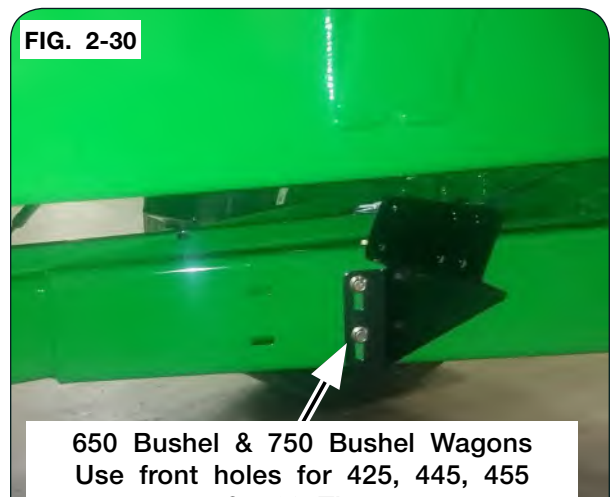
7. Attach left-hand and right hand fender brackets to the side of the axle frame.

550 Bushel Wagons For 425, 445, 455 & 460 Tires (FIG. 2-29)



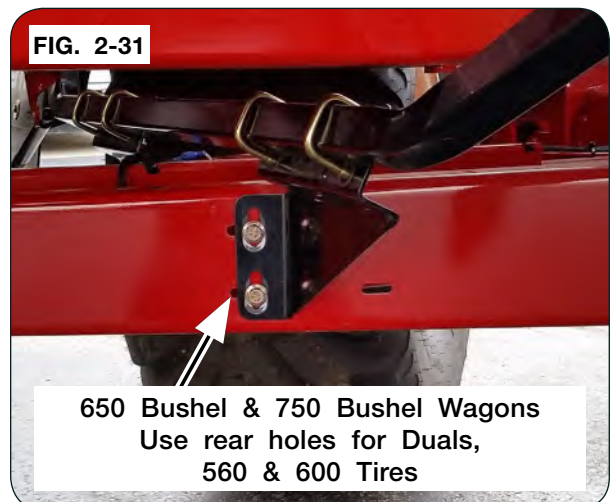
550 Bushel Wagons for
425, 445, 455 & 460 Tires

650 Bushel & 750 Bushel Wagons For 425, 445, 455 & 460 Tires (FIG. 2-30)



650 Bushel & 750 Bushel Wagons
Use front holes for 425, 445, 455
& 460 Tires

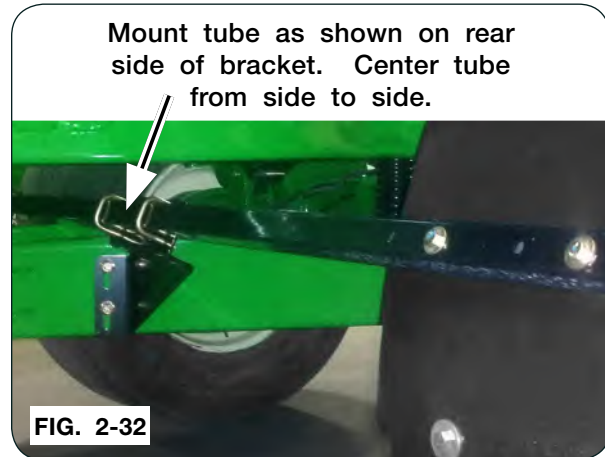
650 Bushel & 750 Bushel Wagons For Duals, 560 & 600 Tires (FIG. 2-31)



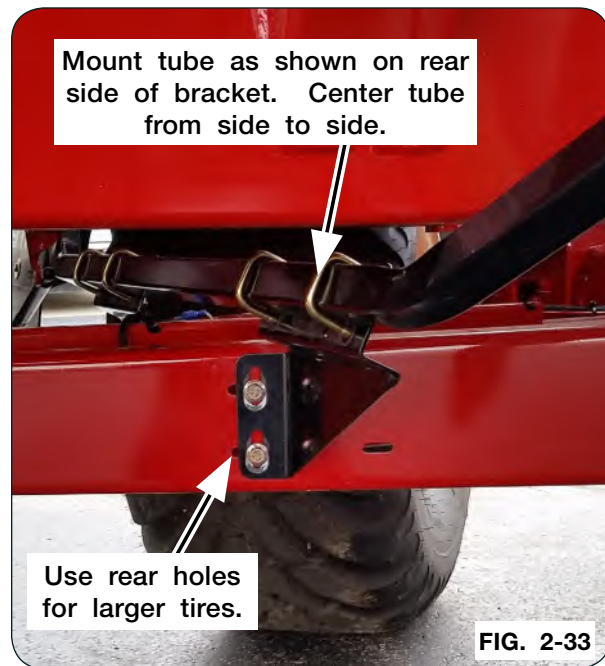
650 Bushel & 750 Bushel Wagons
Use rear holes for Duals,
560 & 600 Tires

Fender Installation - Optional (continued)

8. **Wagon Models with 425, 445, 455, 460 Tires**
Attach fender mount tube (300671B) to frame brackets with 3/8"-16UNC u-bolts (91163) and 3/8"-16UNC large flange nuts (91263).
(FIG. 2-32)



- Wagon Models with Duals, 560 & 600 Tires**
Attach fender mount tube (300625B) to frame brackets with 3/8"-16UNC u-bolts (91163) and 3/8"-16UNC large flange nuts (91263).
(FIG. 2-33)



Fender Installation - Optional (continued)

9. Position front fenders over top arms and secure with 3/8"-16UNC x 2" capscrews (9390-059), 3/8" fender washers (9005696) and 3/8"-16UNC locknuts (9928). Once fenders are completely assembled and clear tires, then tube and brackets must be tight and square with equally tightened threads on U-bolts. (FIG. 2-34, FIG. 2-35 & FIG. 2-36)



FIG. 2-34



FIG. 2-35

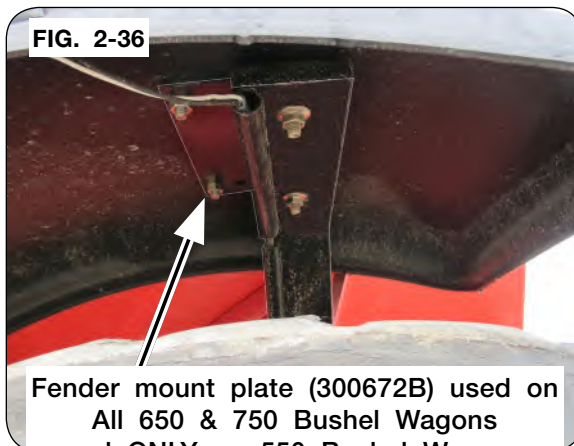
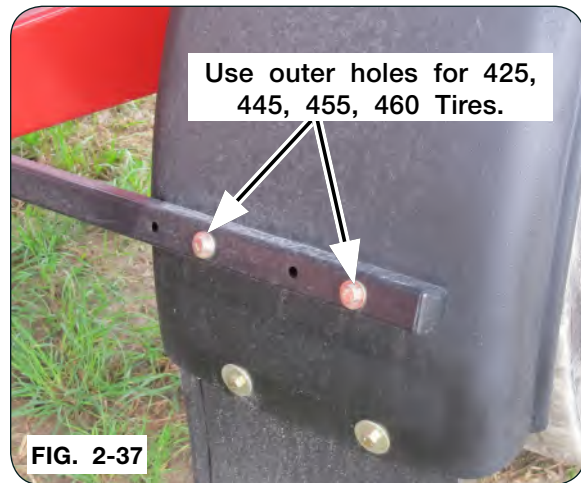


FIG. 2-36

Fender mount plate (300672B) used on All 650 & 750 Bushel Wagons and ONLY on 550 Bushel Wagons with 445 Tires.

Fender Installation - Optional (continued)

- 10. Wagon Models with 425, 445, 455, 460 Tires**
Bolt front fenders to outer holes on tube with 3/8"-16UNC x 2 1/2" capscrews (9390-061), 3/8" flat washers (9405-076) and 3/8"-16UNC locknuts (9928) (FIG. 2-37).

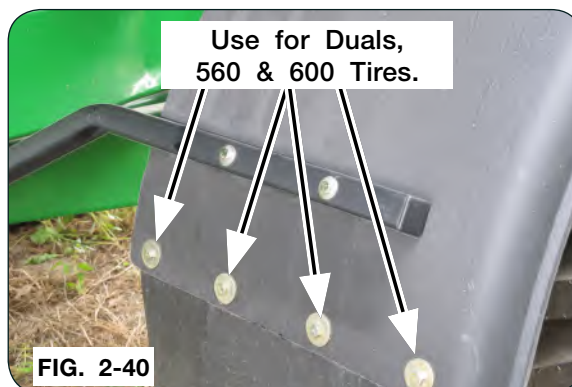
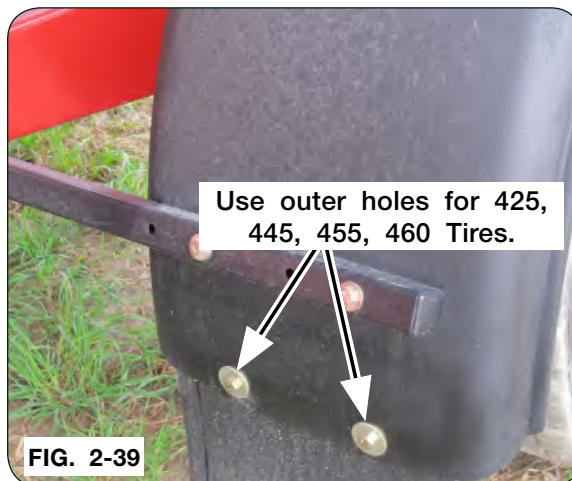


- Wagon Models with Duals & 560, 600 Tires**
Bolt front fenders to tube with 3/8"-16UNC x 2 1/2" capscrews (9390-061), 3/8" flat washers (9405-076) and 3/8"-16UNC locknuts (9928) (FIG. 2-38).

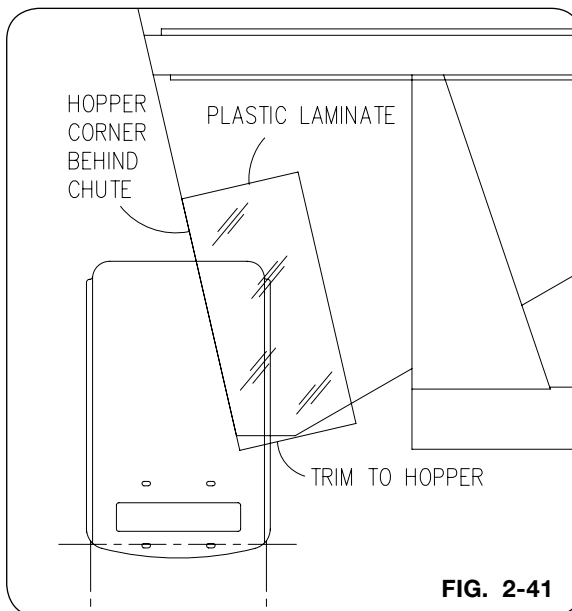


Fender Installation - Optional (continued)

11. Assemble mud flaps and back plates to front fenders with 3/8"-16UNC x 1" capscrews (9390-055), 3/8" fender washers (9005696) and 3/8"-16UNC locknuts (9928) in bottom holes. (FIG. 2-39 & FIG. 2-40)



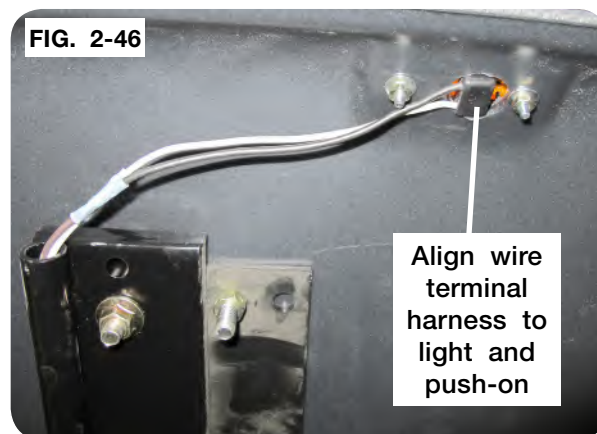
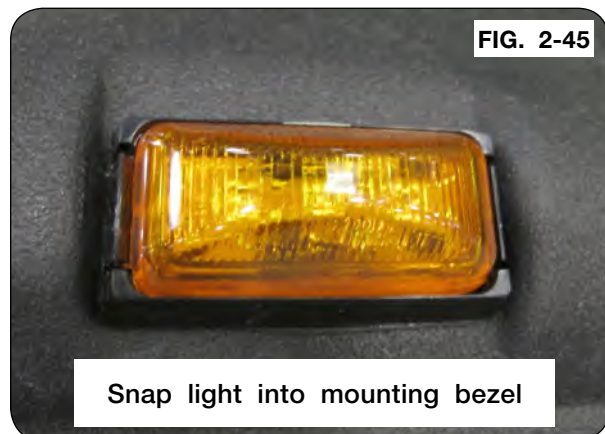
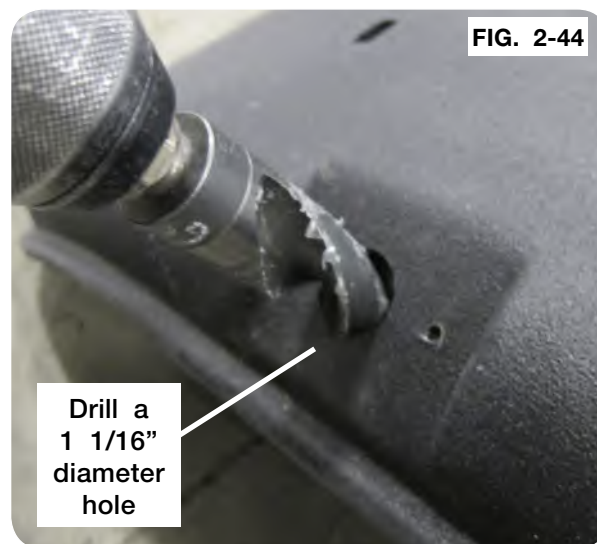
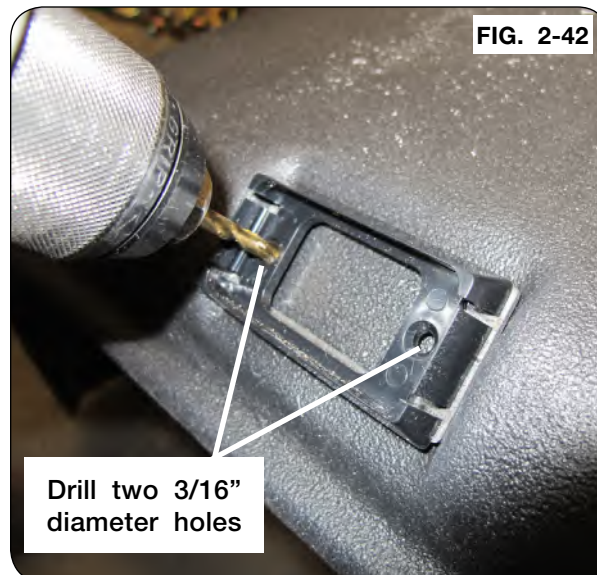
12. Visually align fenders from front or rear and tighten all fasteners. Align edge of 12 1/2" x 24" plastic laminate (220890) with rear edge of hopper (behind chute) and apply. Trim laminate as required for hopper profile. (FIG. 2-41)



Fender Installation - Optional (continued)

Fender Light Installation - Optional

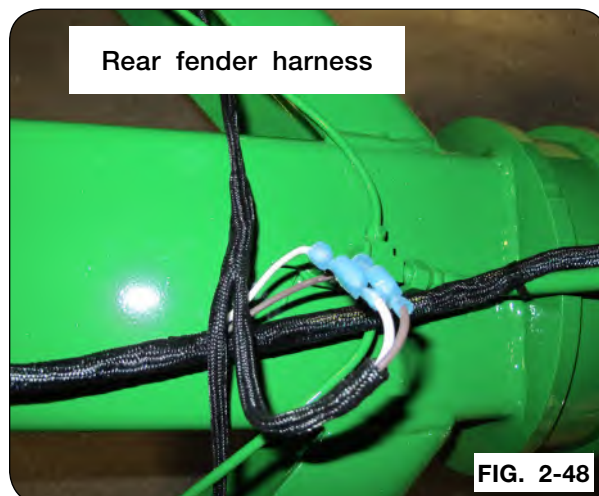
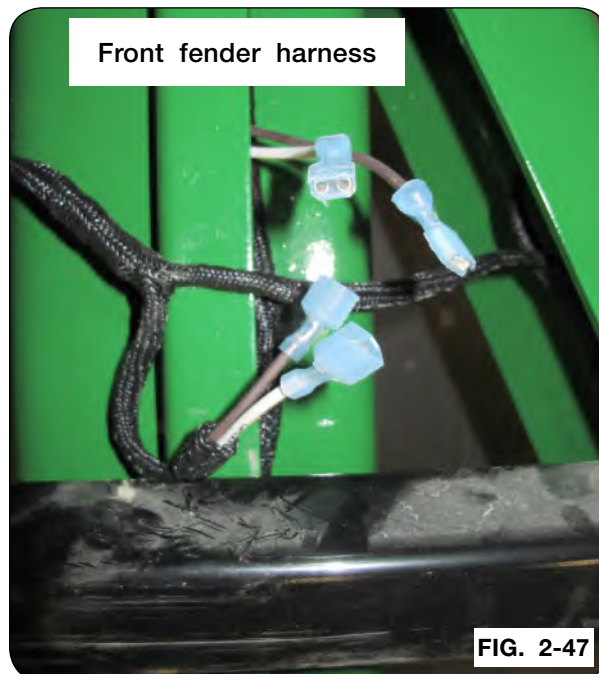
1. Center mounting bezel in molded fender relief. Once located, use mounting bezel as a template and drill two $\frac{3}{16}$ " diameter mounting holes thru fender. (FIG. 2-42)
2. Remove mounting bezel and measure $\frac{7}{8}$ " from most rearward hole (farthest from fender front edge) to locate third hole (FIG. 2-43), Mark location and drill a $1 \frac{1}{16}$ " diameter hole. (FIG. 2-44)
3. Assemble mounting bezel to fender using provided hardware. Position light terminals over $1 \frac{1}{16}$ " diameter hole and push light into mounting bezel for a snap fit (FIG. 2-45). On the underside of fender, align the wire terminal harness to the light and firmly push-on. (FIG. 2-46)



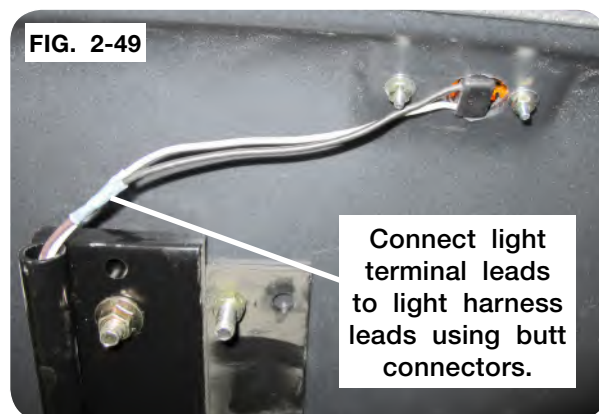
Fender Installation - Optional (continued)

Fender Light Installation - Optional (continued)

4. Locate front and rear fender harness center break-out leads over main harness leads on the running gear center pull tube and connect the same color wires. Route harness leads along running gear brace structures and up along each fender mounting bracket and conduit tube. (FIG. 2-47 & FIG. 2-48)



5. Connect each light terminal lead to light harness leads with butt connectors (FIG. 2-49). Connect main harness to tractor and turn on tail lights to confirm fender light operation.

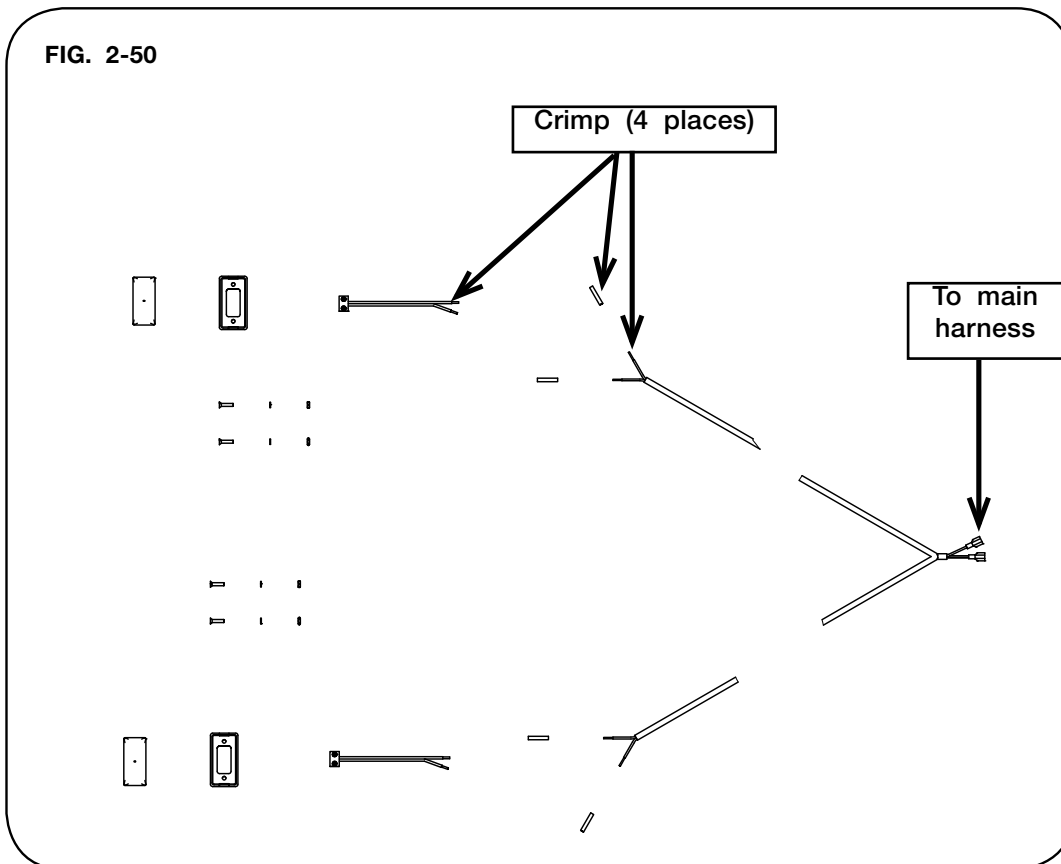


Fender Installation - Optional (continued)

Wiring (Where Applicable)

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

FIG. 2-50

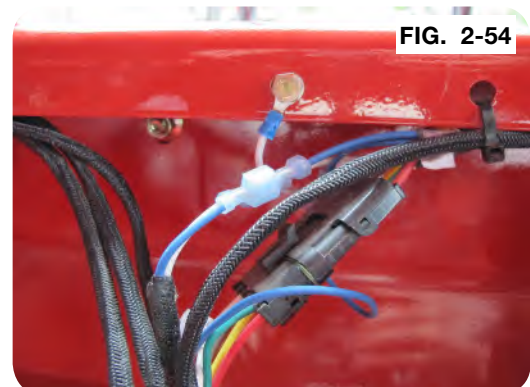
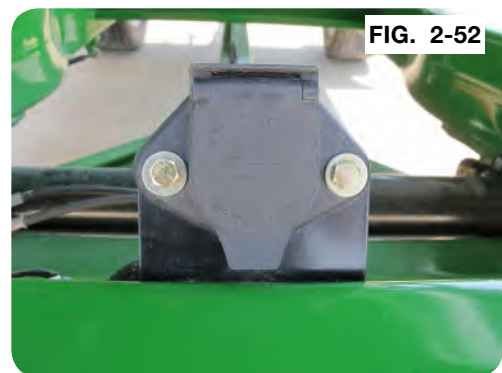
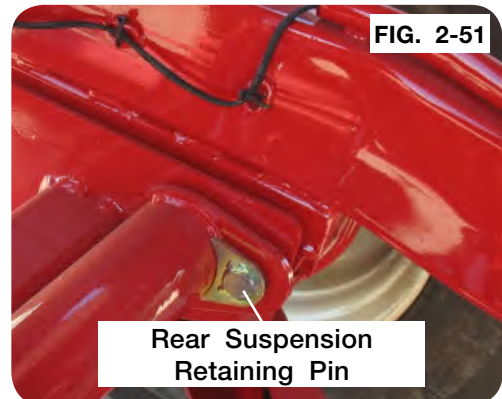


Hopper Reversal - Optional — Models 557, 657, 757

⚠ WARNING

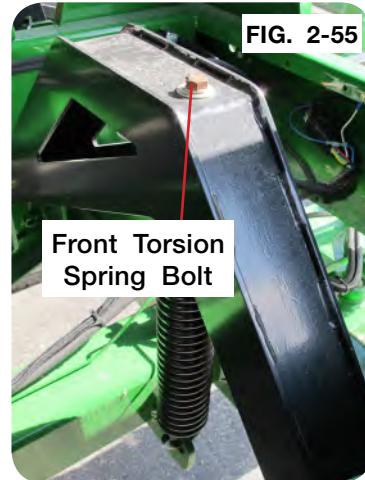
- FALLING OBJECTS CAN CAUSE SERIOUS INJURY OR DEATH. DO NOT WORK UNDER THE MACHINE AT ANY TIME WHILE BEING HOISTED. BE SURE ALL LIFTING DEVICES AND SUPPORTS ARE RATED FOR THE LOADS BEING HOISTED. THESE ASSEMBLY INSTRUCTIONS WILL REQUIRE SAFE LIFTING DEVICES UP TO 4000 LBS. SPECIFIC LOAD RATINGS FOR INDIVIDUAL LOADS WILL BE GIVEN AT THE APPROPRIATE TIME IN THE INSTRUCTIONS.
- EYE PROTECTION AND OTHER APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT MUST BE WORN WHILE SERVICING IMPLEMENT.
- KEEP HANDS CLEAR OF PINCH POINT AREAS.

1. Remove the rear suspension retaining pins (FIG. 2-51).
2. Remove the rear harness electrical connector and mounting bracket. Place on the running gear (FIG. 2-52).
3. Disconnect the wiring harness from all the lights (FIG. 2-53). Place harness on the running gear.
4. Disconnect the front ground wires (FIG. 2-54).

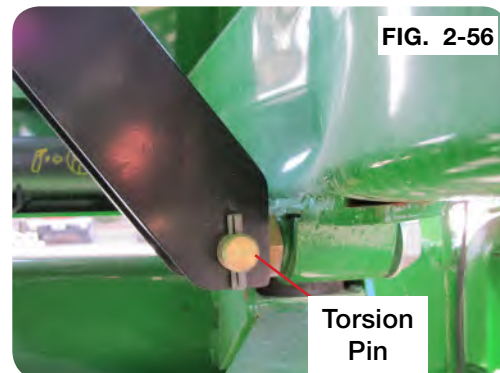


Hopper Reversal - Optional — Models 557, 657, 757 (continued)

5. Relieve the spring tension on the front axle hold down bracket by loosening and backing out the front torsion spring bolt approximately 2" (FIG. 2-55).



6. Remove the right hand torsion pin (FIG. 2-56).



7. Remove the front link weldment (300563) from the runner bushing (FIG. 2-57).
8. Remove the ladder.
9. Remove the SMV and bracket.
10. Lift the hopper with a safe lifting device rated at a minimum capacity of 4,000 lbs.
11. If the lifting device can rotate, slowly turn the hopper 180 degrees and realign over the running gear. If the lift harness cannot rotate, roll out the running gear, reverse the direction and roll back under the suspended hopper. (FIG. 2-51).
12. Reassemble the rear suspension pins (FIG. 2-51).
13. Assemble the front link on the front right runner bushing. Do not tighten the nut (FIG. 2-55).

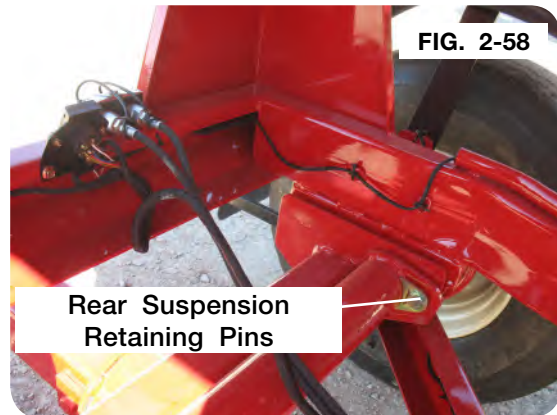


Hopper Reversal - Optional — Models 557, 657, 757 (continued)

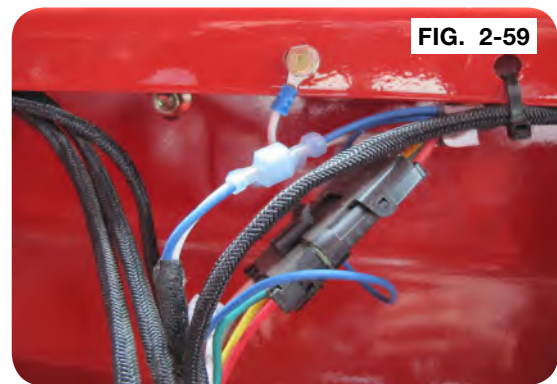
14. Reassemble the hold down bracket to the undercarriage with the pin (FIG. 2-56). Set the undercarriage back down on the axle, check the spring and spring hook alignment with the hold down bracket, and tighten the capscrew for maximum spring tension (FIG. 2-57).
15. Tighten the spring bolt, approximately 2" from the spring to torsion bracket (FIG. 2-55).
16. Remove the tail lights, related wire harness and mounting bracket with the SMV sign from the front and reinstall to the rear. Reconnect the wire harness to all lights and test. Secure the harness to the frame with tie wraps.
17. Connect the ground wire to the undercarriage front plate (FIG. 2-54).
18. Assemble the rear 7-pin connector and bracket to the rear plate (FIG. 2-52).
19. Assemble the ladder.
20. Remove the existing reflectors located on the front and rear panels and install the Reflector Kit #221425 - Locate (2) Amber to the front and (2) Red to the rear. Reference the image on page 5-2 for proper location.
21. Do a functionality check of the lighting.

Hopper Reversal - Optional — Models 557Q, 657Q, 757Q

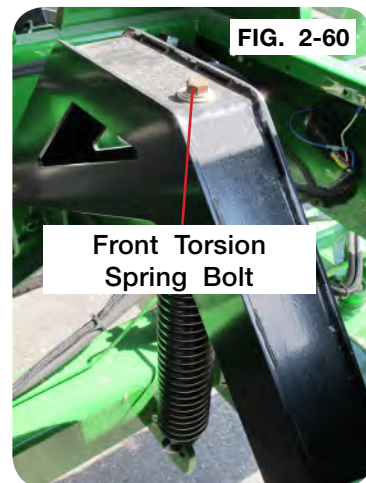
1. Remove the rear suspension retaining pins (FIG. 2-58).
2. Remove the rear harness electrical connector with mounting bracket, rear hose coupler and clamp. Place on the running gear (FIG. 2-58).



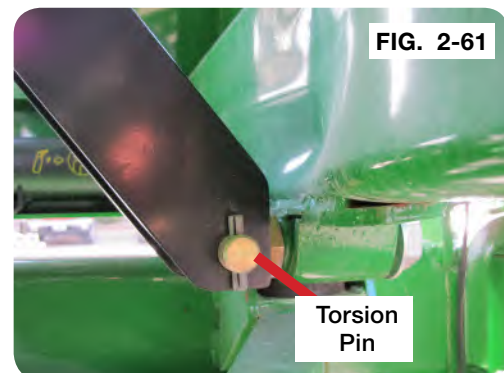
3. Disconnect the wiring harness from all the lights, switches and valve block. Place on the running gear (FIG. 2-59).
4. Disconnect the front ground wires (FIG. 2-59).



5. Relieve the spring tension on the front axle hold down bracket by loosening and backing out the front torsion spring bolt approximately 2" (FIG. 2-60).



6. Remove the right hand torsion pin (FIG. 2-61). Allow the axle hold down bracket to rest on the axle brace.



Hopper Reversal - Optional — Models 557Q, 657Q, 757Q (continued)

7. Remove the front link weldment (300563) from the runner bushing (FIG. 2-62).

⚠ WARNING

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

8. Disconnect the hydraulic hoses from the valve block that route to the runner (FIG. 2-63 & FIG. 2-64).

9. Lift the hopper with an overhead hoist or other lifting device rated at a minimum of 4,000 lbs.

10. If the hoist lift harness can rotate, slowly turn the hopper 180 degrees and realign over the running gear. If the lift harness cannot rotate, roll out the running gear, reverse the direction and roll back under the suspended hopper. (FIG. 2-58).

11. Set the undercarriage back down on the axles. Check the rear torque tube, front hold down bracket, and spring alignments with the running gear mounting brackets. Reposition the hopper as needed for the best alignment at all of the brackets.

12. Reassemble the rear suspension pins (FIG. 2-58).

13. Assemble the front link on the front right runner bushing. Do not tighten the nut (FIG. 2-62).

14. Reassemble the hold down bracket to the undercarriage with the pin (FIG. 2-61). Check the spring and spring hook alignment with the hold down bracket, and tighten the capscrew for maximum spring tension (FIG. 2-62).



FIG. 2-62

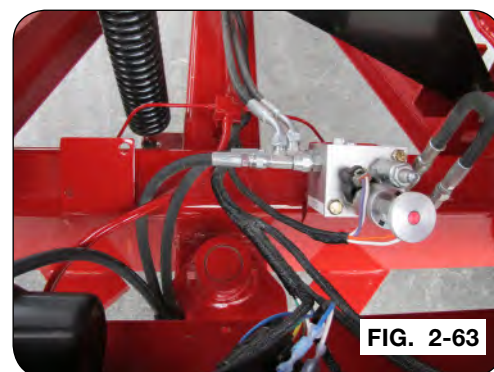


FIG. 2-63



FIG. 2-64

Hopper Reversal - Optional — Models 557Q, 657Q, 757Q (continued)

15. Tighten the spring bolt, approximately 2" from the spring to torsion bracket (FIG. 2-60).
16. Disassemble the valve block, rotate 180 degrees and assemble to the bracket on the opposite side (FIG. 2-64).

NOTE: The hoses may need to be rerouted.

17. Assemble the hoses from the runner to the valve block (FIG. 2-63 & 2-64).
18. Assemble the hose clamps.
19. Remove the tail lights, related wire harness and mounting bracket with the SMV sign from the front and reinstall to the rear. Reconnect the wire harnesses and test all light functions. Secure the harness to the frame with tie wraps.
20. Connect the wiring harness to the lights, switches and valve block.
21. Connect the ground wire to the undercarriage front plate (FIG. 2-60).
22. Assemble the rear 7-pin connector and hose bracket to the rear plate (FIG. 2-59). Test all light functions.
23. Disassemble the ladder from the rear and reassemble on the hopper front.
24. Install the Reflector Kit #221425 - Locate (2) Amber to the front and (2) Red to the rear.
25. Check all the hardware, lights and hydraulic hoses.
26. Bleed hydraulics. See the bleeding procedure in the Maintenance section.
27. Do a hydraulic function check.

Section III

Operation

Operating Checklist..... 3-2

Preparing Wagon..... 3-2

Preparing Towing Vehicle..... 3-3

Hitching Wagon to Towing Vehicle 3-3

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Hydraulic Pressure and Return..... 3-8

Hydraulic Manual-Over-Ride 3-9

Chute..... 3-9

Hydraulic Troubleshooting..... 3-10

Tandem Operation..... 3-11

Weather Guard Tarp..... 3-12

FOR ELECTRIC TARP INFORMATION, PLEASE REFER TO YOUR ELECTRIC TARP MANUAL.

Operating Checklist

- ☐ Read and understand all safety precautions before operating wagon.
- ☐ Torque wheel nuts and check tire pressure as specified in MAINTENANCE section.
- ☐ Lubricate all grease fittings and check all oil bath hub oil level. "See "Lubrication" in the MAINTENANCE section."
- ☐ Verify all reflective decals are correctly located.
- ☐ Check SMV sign and SIS decals are clearly visible with the wagon attached to the towing vehicle.
- ☐ Verify transport lights are working properly. Check and follow all regulations before towing on a road or highway.
- ☐ Install transport chains and torque hardware to specification. See "Transport Chain Connection" in OPERATION section.

Preparing Wagon

Perform the service checks as outlined 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.

Tires/Wheels

Check tire pressures and maintain at recommended values listed in the MAINTENANCE section of this manual.



CAUTION

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

For questions regarding new tire warranty, please contact your local original equipment tire dealer. **USED TIRES CARRY NO WARRANTY.** Tire manufacturers' phone numbers and web sites are listed in the MAINTENANCE section of this manual for your convenience.

Preparing Towing Vehicle

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

On wagons equipped with brake system, make sure the towing vehicle is equipped with the components necessary for operating the wagon's brakes. Consult your towing vehicle Operator's Manual or your towing vehicle dealer for the appropriate brake control system.

Always use adequate caution when operating tarp. Refer to wagon electric tarp manual #282999 for proper operating procedures.

Hitching to Towing Vehicle

⚠ WARNING

- **DO NOT STAND BETWEEN THE WAGON AND TOWING VEHICLE WHEN HITCHING. ALWAYS ENGAGE PARKING BRAKE AND STOP ENGINE BEFORE INSERTING HITCH PIN.**

Transport Chain Connection

⚠ CAUTION

- **ALWAYS USE TRANSPORT CHAIN WHEN TRANSPORTING IMPLEMENTS. FAILURE TO USE A TRANSPORT CHAIN COULD CAUSE PERSONAL INJURY IF WAGON BECOMES DISENGAGED.**
- **REPLACE TRANSPORT CHAIN IF ANY LINK OR END FITTING IS BROKEN, STRETCHED OR DAMAGED. DO NOT WELD TRANSPORT CHAIN.**
- **USE ONLY AN UNVERFERTH ASABE TRANSPORT CHAIN WITH A WEIGHT RATING EXCEEDING THE GROSS COMBINED WEIGHT OF ALL TOWED IMPLEMENTS. CONTACT YOUR UNVERFERTH DEALER FOR ADDITIONAL INFORMATION.**
- **BE SURE TRANSPORT TONGUE IS LATCHED BEFORE TRANSPORTING, OTHERWISE JARRING COULD OCCUR WHEN STOPPING UNIT, CAUSING A SUDDEN SHIFT OF LOAD.**

Tractor must be equipped with a transport chain support. Always use intermediate support when connecting wagon directly to a tractor. **DO NOT** use the intermediate chain support as the chain attaching point. FIG. 3-1 shows how the transport chain must be installed between wagon and tractor.

The transport chain is rated for towing the grain wagon empty on public roads. Never tow a loaded grain wagon on public roads. Use only ASABE approved chains. Connection should have only the necessary amount of slack for articulation.

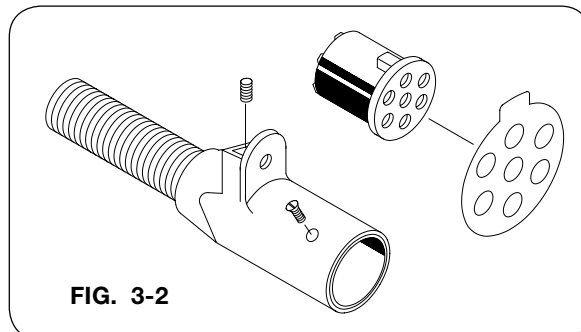


FIG. 3-1

Hitching to Towing Vehicle (continued)**Electrical Connections**

This wagon 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). (FIG. 3-2)

NOTE: 7-pin connector must be plugged into the tractor with power to the center pin for the spout system to operate.



The wiring schematic for this wagon, shown in the MAINTENANCE section, complies with current ASABE Standards. Verify correct electrical function before using this wagon.

If equipped, check the tractor and wagon electric tarp connection. Refer to electric roll tarp manual (282999) for details.

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.

Towing

Even if the wagon is equipped with brakes, ensure that the towing vehicle has adequate weight and braking capacity to tow this implement. See towing vehicle manual for towing capacity. Never tow a loaded grain wagon over public roads.

CAUTION

- **USE ONLY AN UNVERFERTH ASABE TRANSPORT CHAIN WITH A WEIGHT RATING EXCEEDING THE GROSS COMBINED WEIGHT OF ALL TOWED IMPLEMENTS. CONTACT YOUR UNVERFERTH DEALER FOR ADDITIONAL INFORMATION.**

IMPORTANT

- *To prevent damage to the wagon brake system, manually release pressure from the wagon hydraulic brakes if towing without a hydraulic brake equipped vehicle.*

Maximum speed of wagon should never exceed 20 m.p.h. Do not exceed 10 m.p.h. during off-highway travel. Do not exceed 8 m.p.h. when wagon is fully loaded.

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

Secure transport chain to tractor chain support before towing.

Tractor is required to be equipped with rear port to connect the grain wagon brake hose which allows the wagon brakes to engage when tractor brake pedals are depressed. If tractor doesn't have rear port, please contact your tractor dealer to purchase the OEM rear port option.

Verify brake operation/release before towing.

Regulate speed to road conditions and maintain complete control.

It is probable that this wagon 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.

Mechanical Flow Door

Door Wheel Position Change

NOTE: This is the “optional” door wheel position. It can be at the front or back depending on preference.

1. Move the chute down to the lower position (FIG. 3-3).
2. Make sure the flow door is closed.
3. Push the door wheel “IN” towards the hopper to unlock the gearbox. (FIG. 3-4)
4. Locate the gearbox lock screw handle. Turn counterclockwise until it is loose. Pull to release from the bracket. (FIG. 3-5)
5. Rotate the assembly down towards the chute. (FIG. 3-6)

NOTE: The door wheel must rotate freely, while moving the gearbox, to keep the flow door closed.



Mechanical Flow Door (continued)

Door Wheel Position Change (continued)

6. Once it is past the center, lift the gearbox assembly into the opposite position. (FIG. 3-7)



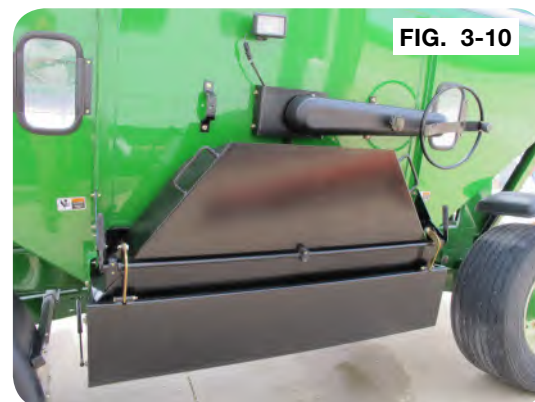
7. Push the lock screw into the bracket and turn clockwise to lock the gearbox in position. (FIG. 3-8)



8. Pull the door wheel "OUT" away from the hopper to lock the gearbox. (FIG. 3-9)



9. Lift and latch the chute into the upper position for transporting. (FIG. 3-10)



Hydraulic Connections

IMPORTANT

- *When coupling hydraulic hoses to ports on the tractor, be sure that the coupler ends are clear of dust, dirt and debris. Failure to do so could contaminate hydraulic system resulting in excessive wear and possible failure.*



FIG. 3-11

Clean hydraulic hose couplers before connecting to the tractor. For convenience, it is recommended to connect the flow door circuit hoses to tractor implement coupler #1.

This unit is equipped with color bands attached to the hydraulic hoses. This will help in identifying the hose function and correct hook up.

Red: Pressure & Return

After initial set-up or replacement of any hydraulic component, air must be removed from the hydraulic system. See the Bleeding instructions in the Maintenance section.

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

Before disconnecting hoses from the tractor, relieve pressure in the system. See the tractor's Operator's Manual for the proper procedure. Shut off engine and apply parking brake before disconnecting hoses.

Hydraulic Pressure and Return

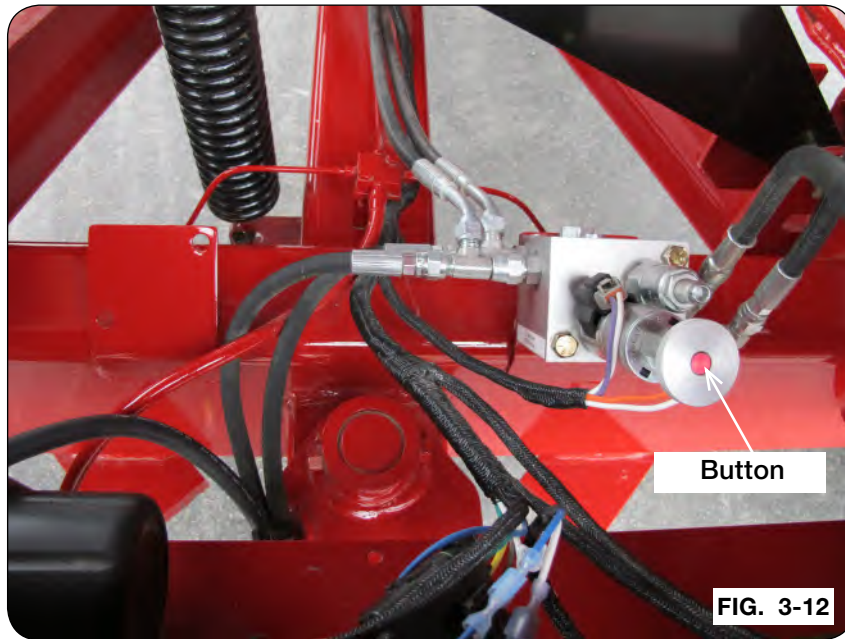
Set up the tractor hydraulic remote in detent for continuous flow. Consult your tractor's operator's manual for setting up continuous flow.

The hydraulic flow maximum is 3 GPM. The minimum is 1 GPM.

The hydraulic pressure maximum is 2900 PSI. The minimum is 1000 PSI.

Hydraulic Manual-Over-Ride

Should the wired switch not work to operate the door, use the override button on the valve for operation. This is the knurled button on the top of the solenoid. The operation can be done by either pushing or pulling the button. Pushing the button will open the door. Pulling the button will close the door.



Chute

The operator should check to assure the chute is in the transport position and in the latch prior to transporting.

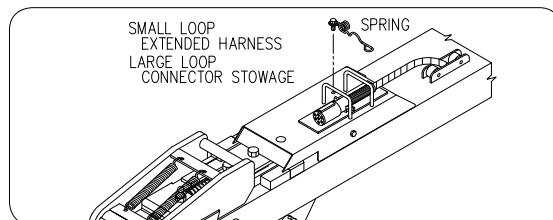
Hydraulic Troubleshooting

ISSUE	POSSIBLE CAUSE	ACTION	CORRECTIVE ACTION
Only one switch activates the door.	Failed switch. Shorted wire/Improper ground Improper voltage supply	1. Dismount non-working switch from panel and inspect switch and switch connection to rear harness. Look for cuts or shorts. Check switch for proper function by using a volt-meter. 2. Check continuity of harness between the switch connector and the connector on the valve block with volt-meter. 3. Check connection of harness to solenoid on valve block. 4. Check if solenoid is activated when switch is depressed. 5. Check for 12 VDC and proper ground at solenoid connector.	Repair wires and/or replace switch/harness, if necessary. Replace solenoid, if necessary. If continuity is not present, look for cut in harness. Replace if necessary. Provide full 12 VDC power to solenoid.
Door does not move up or down when operating either switch.	Too high or low hydraulic flow and/or pressure Air in hydraulic system In-line filter plugged Inadequate electrical ground or voltage supply	1. Check connections at tractor. 2. Momentarily bypass in-line filter. 3. Try operating door using the Manual-Over-Ride lever on valve block. a. When using Manual-Over-Ride lever, door operates: i. Check electrical power supply and ground at switch. Also at valve block when switch is activated. b. When using Manual-Over-Ride lever, door does not operate: i. Verify hydraulic pressure from tractor is routed to 'P' port. ii. Check for correct amount of hydraulic flow and pressure from tractor.	Fix ground or 12 VDC power supply to switch and/or to valve block. Fix or adjust hydraulic flow and pressure supply issue. Turn flow down to 3 GPM or less. Correct hydraulic plumbing. Replace in-line filter.
Door only moves in one direction. Door needs assistance at start of open.	Improper hose plumbing Improper hydraulic pressure	1. Check hydraulic plumbing to manual. 2. Check pressure from tractor. 3. Check pressure at both cylinder ports.	Correct hydraulic plumbing. Correct pressure from tractor. If all previous items have been verified, call dealer service for further assistance.
Door moves intermittently or chatters while holding switch or using the Manual-Over-Ride lever.	Too high of hydraulic flow and/or pressure. Air in hydraulic system Intermittent electrical ground or voltage supply.	1. Check hydraulic flow and pressure from tractor.	Fix hydraulic flow and pressure supply issue. Bleed hydraulic system. See Maintenance section of this manual for the proper procedure to bleed hydraulic system.

Tandem Operation

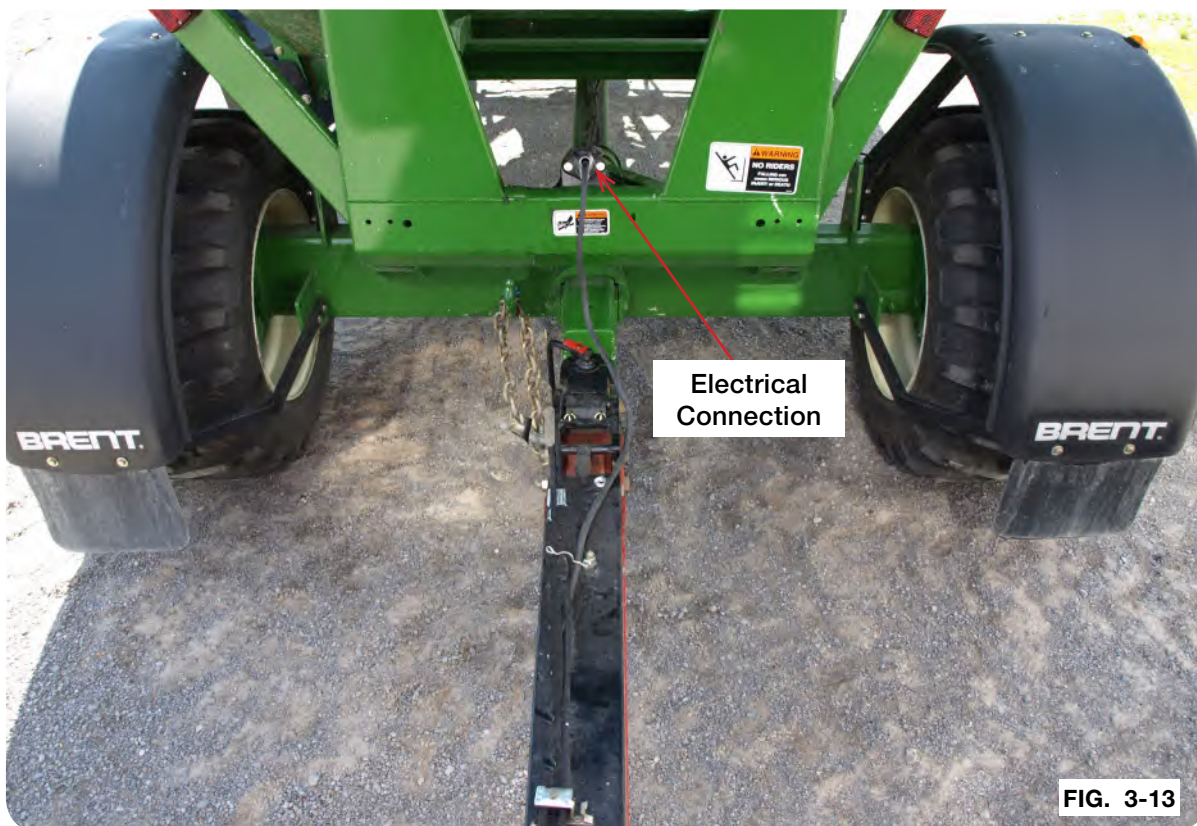
IMPORTANT

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



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

1. Connect the electrical cord.
2. Hook up the transport chain on the lead wagon that is sized for the total load. Refer to “Hitching to Towing Vehicle” in this section for transport chain connection.
3. If applicable, hook up the hydraulics.
4. Allow enough slack for turning and oscillation in the field. Be sure to prevent the electrical cord from dragging or catching.



Weather Guard Tarp

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.

If equipped, refer to electric roll tarp manual (282999) for operation details.

Open and close the tarp evenly.

Make sure tarp is open before loading.

Make sure all persons are clear of the tarp system before and during operating.

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

If tarp is covered with snow, remove snow before operating.

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

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

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

Weather Guard Tarp (continued)

NOTE: Refer to “Electric Roll Tarp” manual (282999) for wireless receiver and control box location.

1. Using both hands, carefully remove tarp handle weldment from tube holder. (FIG. 3-14)
2. Roll tarp to the desired location, choosing either a fully open or fully closed position.
3. To close the tarp, rotate the roll tube clockwise up under the latch plate.
4. Make sure tarp is positioned evenly over latch plate length.

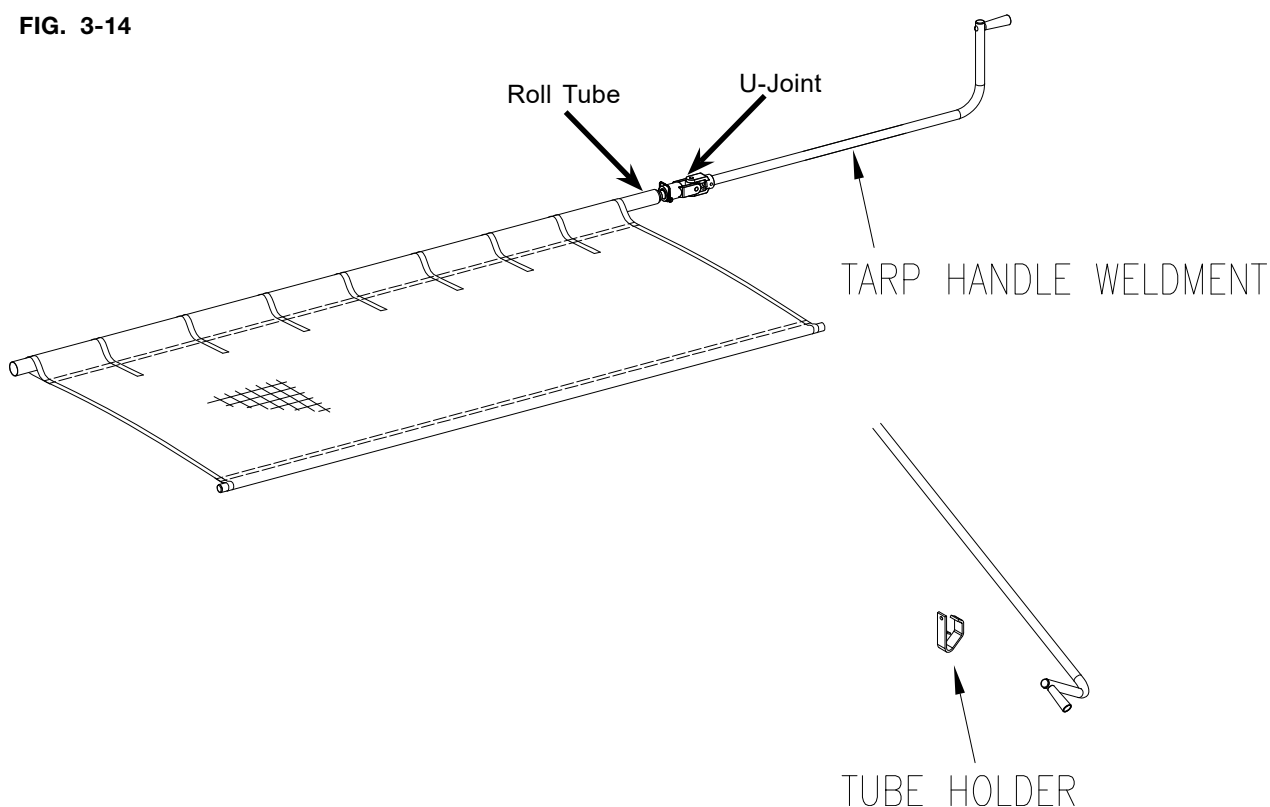
NOTE: Do not tighten if tarp overlaps end of the latch plate. Tearing of the tarp may occur. Reposition tarp, as necessary.

5. Bring the tarp handle weldment down perpendicular to the ground. Continue by lifting it up into the tube holder.

NOTE: Tarp handle weldment U-joint may need to be re-indexed on roll tube to achieve correct tension.

6. To open tarp, turn the roll tube counter clockwise until the tarp is fully open. Place tarp handle weldment in tube holder.

FIG. 3-14



Notes

Section IV Maintenance

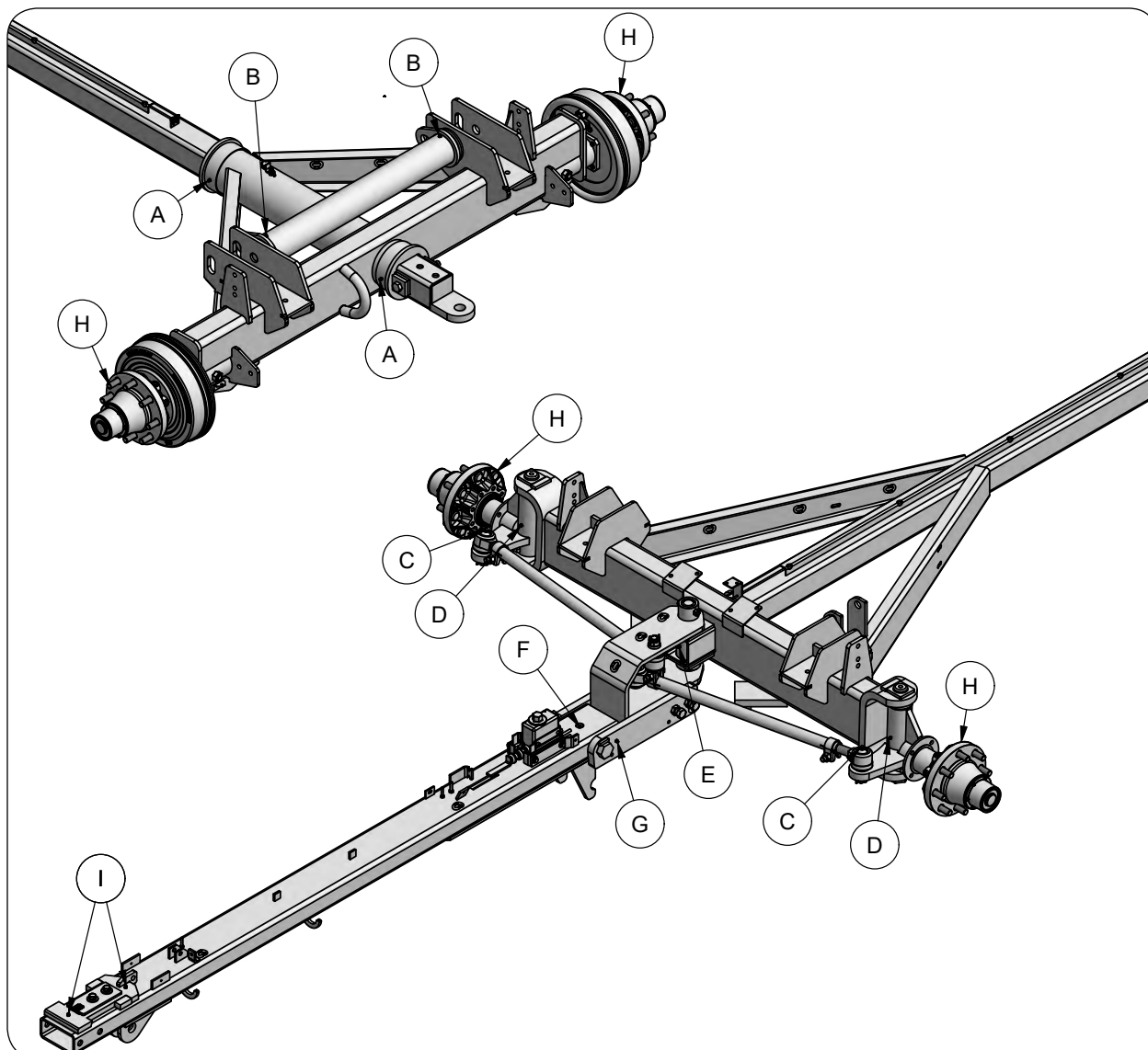
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FOR ELECTRIC TARP INFORMATION, PLEASE REFER TO YOUR ELECTRIC TARP MANUAL.

Lubrication Points

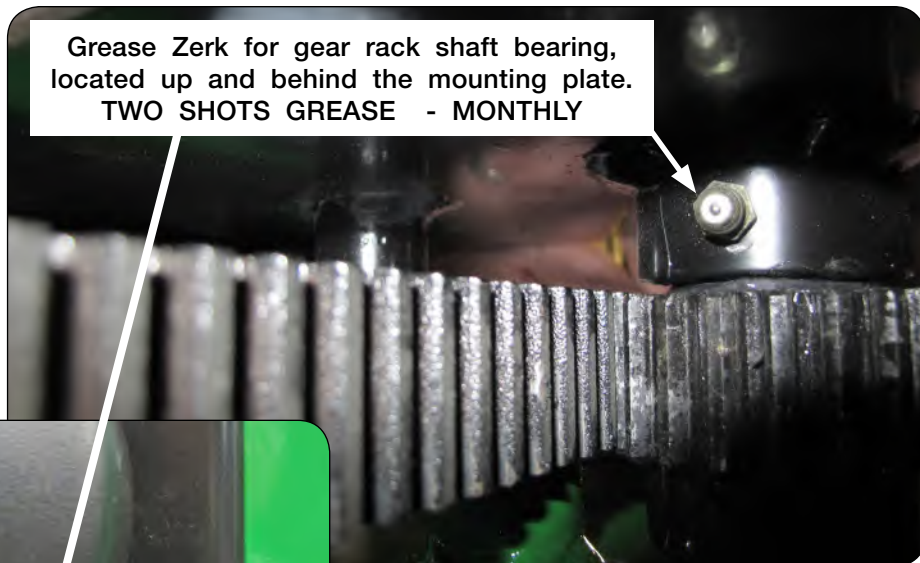
To keep your wagon in top operating condition and to assure its proper performance and reliability for a long period of time, periodic inspection and lubrication is a must.

ITEM	DESCRIPTION	POINT	QTY.	HOURS
A	Rear Axle Retainers	2	2 Shots	Monthly
B	Rear Axle Link	2	2 Shots	Monthly
C	Tie Rods (1 on each rod end) (prefilled with lubrication and may not take additional grease)	4	-	As Needed
D	Front Spindle Pivots	2	2 Shots	Daily
E	Front Axle Pivot	1	2 Shots	Daily
F	Tongue Weldment Pivot	1	2 Shots	Daily
G	Tongue Turning Weldment	2	2 Shots	Daily
H	Hubs	4	Inspect	Before Season & Monthly
I	Tongue Telescope Latch Bracket	2	2 Shots	Daily

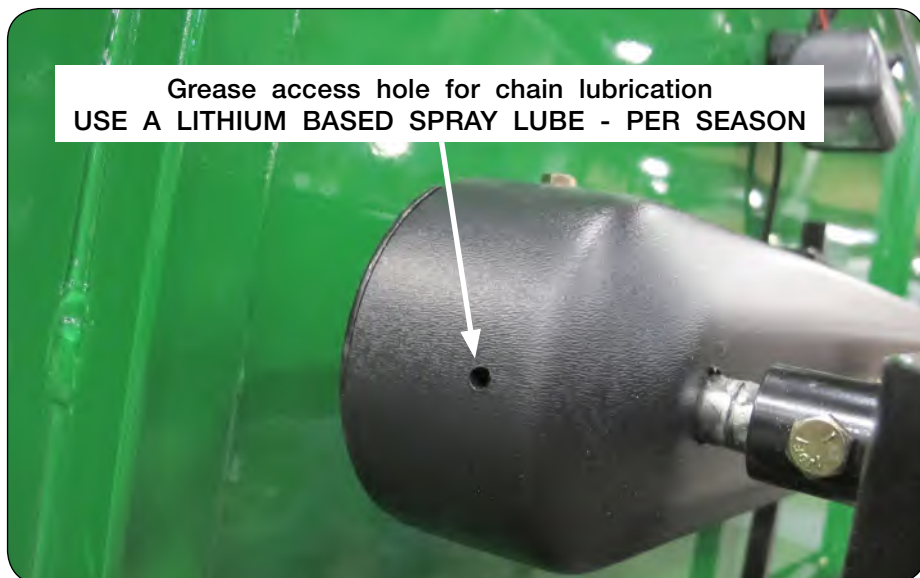


Lubrication Points — Mechanical Door Lift

Grease Zerk for gear rack shaft bearing,
located up and behind the mounting plate.
TWO SHOTS GREASE - MONTHLY



Grease access hole for chain lubrication
USE A LITHIUM BASED SPRAY LUBE - PER SEASON



Oil Bath Hub

NOTE: The Seal Bore in the Hub & Seal ID needs to be clean, dry and free of oil before proceeding with the following steps.

1. Park the empty unit on a firm, level surface. Set the tractor's parking brake, shut-off engine and remove the ignition key.

NOTE: Check the oil level of the wheel hubs. Set the wagon with each axle level side-to-side. Check the oil level at the clear window of each hub end. The oil level should be at the indicator ring slightly below the fill plug. To add oil - remove the center plug and fill with 80W90 gear lube up to the indicator ring. Check the oil level before any extended or seasonal use.

Maintenance:

2. Using a safe lifting device and support rated at a minimum of 4,000 lbs., remove the wheel and tire assembly.
3. Set a container under the hub to catch the oil. Remove the hub cap, gasket, cotter pin, slotted hex nut and washer.
4. Using a safe lifting device rated at a minimum of 200 lbs., remove the outer bearing and slide the hub off the spindle.
5. Remove the brake drum from the back side of the hub.
6. Remove the inner seal.
7. Thoroughly lubricate the inner bearing with 80W90 oil and assemble the bearing cone into the hub bearing cup.

Seal Installation:

8. **557/557Q** - Do not press on the seal ID housing. Press only on the larger ID of the seal flange. The seal ID housing needs to be flush with the brake pilot housing when properly installed.

657/657Q/757/757Q - The seal ID ribs are to be oil free. Holes in the seal housing need to face toward the inner bearing before pressing it into the hub. The installed seal needs to be flush with the brake drum mounting surface.

IMPORTANT

- *DO NOT PRESS THE SEAL FARTHER INTO THE HUB. THERE MUST BE CLEARANCE BETWEEN THE SEAL AND BEARING HUB AFTER ASSEMBLY. CONTACT WITH THE BEARING CAN DAMAGE THE SEAL AND CAUSE A LEAK.*
9. Assemble the brake drum to the back of the hub with the hex cap screws and lock washers. Torque each to 70 ft.-lbs.
 10. Apply a thin layer of oil to the seal ID. Using an appropriate lifting device rated at a minimum of 150 lbs., carefully center and assemble the hub on the spindle until the inner bearing seats against the spindle stop.

NOTE: Use care to avoid seal damage when passing over the spindle edges.

Oil Bath Hub (continued)

11. Fill the hub with 80W90 oil until it runs over the outer bearing cup. Thoroughly lubricate the outer bearing, assemble on the spindle and into the hub. Assemble the washer and nut on the spindle.
12. Tighten the nut while rotating the hub until the bearings seat into the cups and hub turns hard.
13. Counter-rotate the nut 1/4 of a turn and align to the nearest nut slot with the spindle hole. Assemble the cotter pin.
14. **557/557Q** - Assemble the gasket and hub cap dry - No oil film on surfaces. Torque each hex machine screw at 20-25 inch-lbs in opposing alternate pattern for proper gasket seating. Over tightening can extrude the gasket, and/or damage the hub cap and cause an oil leak.

657/657Q/757/757Q - Assemble the gasket and hub cap with the hex cap screws. Torque to 12-16 ft.-lbs. in a crossing or star pattern for proper gasket seating and to prevent cracking of the hub cap.
15. When the spindle is level, remove the hub cap plug and fill the hub with 80W90 oil up to half the distance on the oil level gauge. Allow the oil to settle, and check and fill to the gauge level. Do not overfill.

Master Cylinder

Maintain brake fluid level in master cylinder. Lubricate guides to ensure free movement. Adjust brake shoes as necessary: Rotate wheel for forward movement only. Tighten adjusting cog nut until you cannot rotate wheel by hand, then back off the adjustment until 3 - 4 threads are showing. And then additional threads may be necessary. See "Brake System" for detailed instructions.

When hauling corrosive materials such as fertilizers, it is advisable after use to wash out all excess materials to prevent premature rusting.

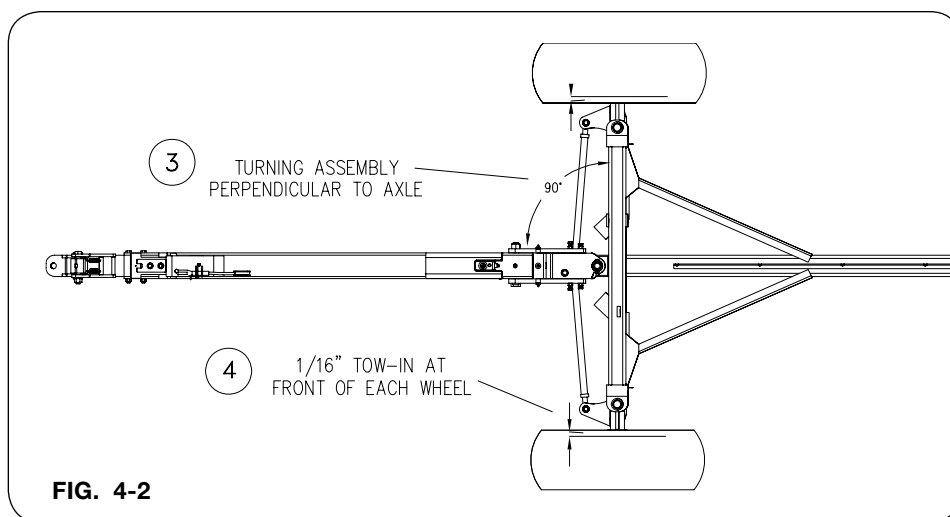
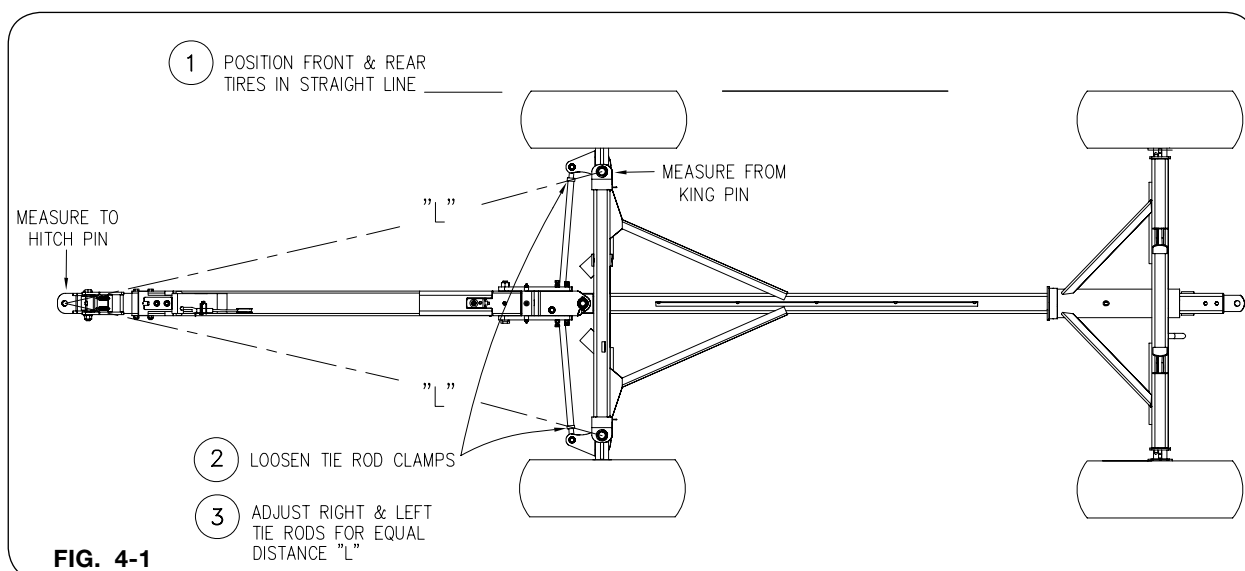
IMPORTANT

- *It is extremely important that the spindles are never welded on by the customer. Special manufacturing processes are utilized at the factory, and spindle weldments should always be replaced if repairs are necessary.*

Tongue and Wheel Alignment

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

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



Tongue Retractable Light Cord Service

Inspection & Maintenance

1. Retract the harness as far as possible before inspecting. (FIG. 4-3)



FIG. 4-3

2. Remove the (4) hex capscrews from the tongue harness cover sides, lift up the hitch end and prop open (FIG. 4-4).

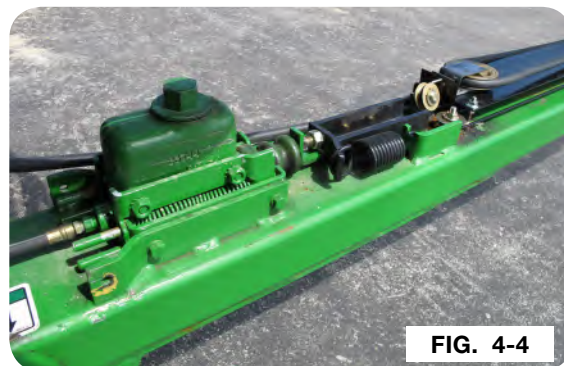


FIG. 4-4

3. Remove any debris from the top of the inner cover, inspect the spring, cable, pulleys and harness for any wear (FIG. 4-5 - FIG. 4-8).



FIG. 4-5

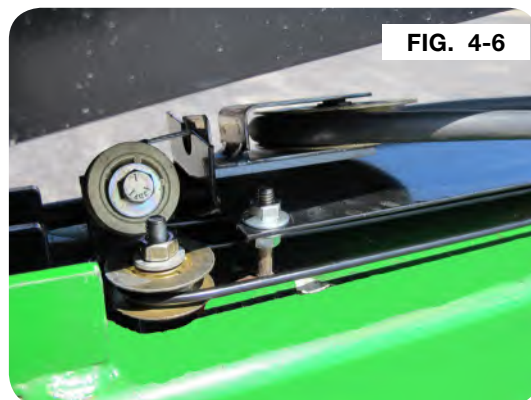


FIG. 4-6



FIG. 4-7



FIG. 4-8

Tongue Retractable Light Cord Service (continued)

IMPORTANT

- *Spring contains 30 lbs. of force. To detension the spring, first remove the inner cover and lower flange nut from bolt. Then remove the spring from bolt.*
4. After inspection, reassemble the harness cover. Before fastening the inner cover, take care to ensure all the cables are aligned in the pulleys, the spring has tension and the cover is not trapping any component (FIG. 4-9, FIG. 4-10, & FIG. 4-11).
 5. Check and align the harness cable and pulley to ensure the cable is not pinched and has free movement. Reassemble the top cover with the previously removed hardware. Release the pin connector, and extend and retract the electrical cable to ensure correct operation (FIG. 4-12).

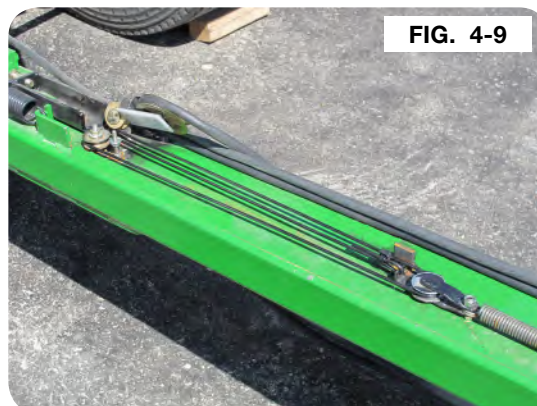


FIG. 4-9

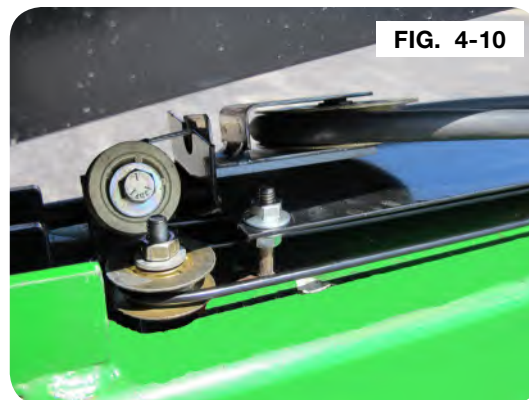
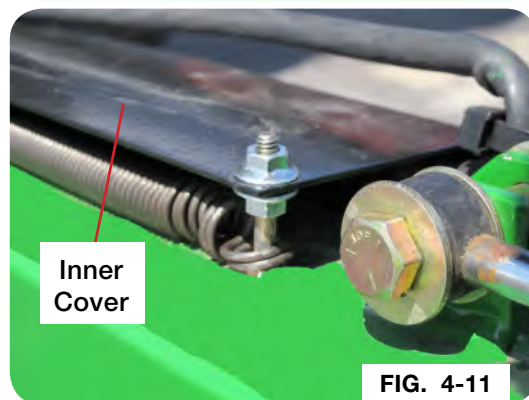


FIG. 4-10



Inner
Cover

FIG. 4-11

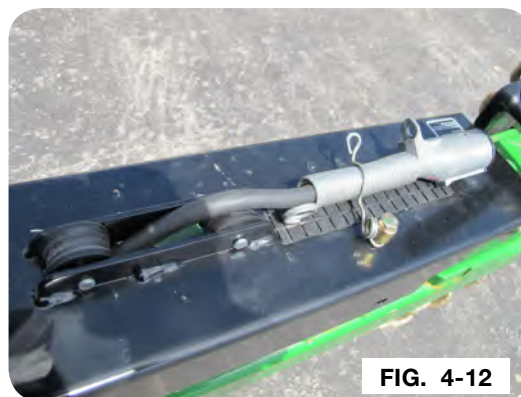


FIG. 4-12

Tongue Retractable Light Cord Service (continued)

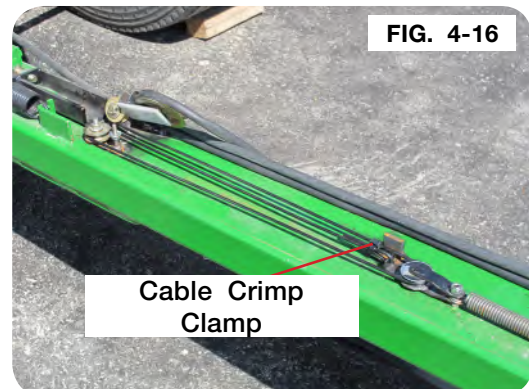
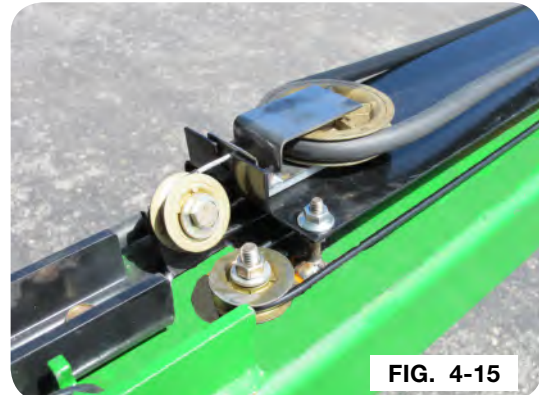
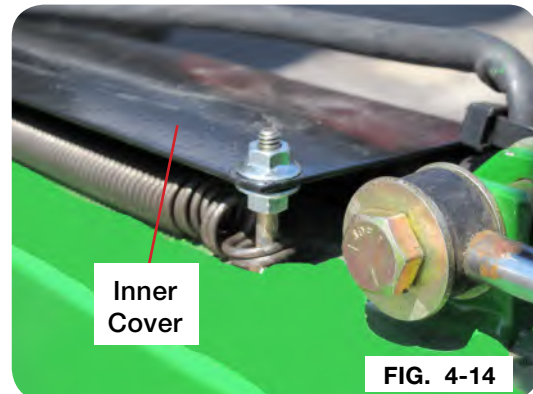
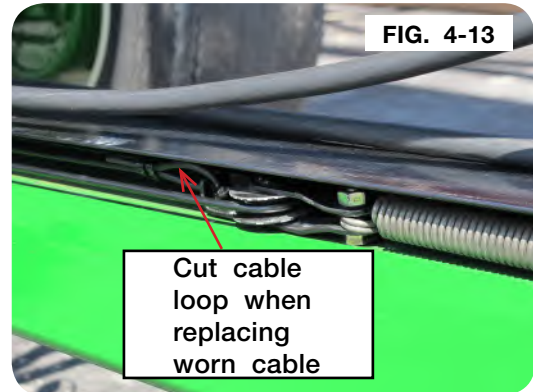
To Replace Cable, Spring or Pulleys

⚠ CAUTION

- **DO NOT CUT OR DISCONNECT THE CABLE, PULLEY OR SPRING WITHOUT PROPER DETENSION ON THE SPRING. SPRING CONTAINS AT LEAST 30 LBS. OF FORCE WITH THE HARNESS COMPLETELY RETRACTED. BEFORE SERVICING THE CABLE OR COMPONENTS, ADEQUATE RESTRAINT ON THE SPRING IS NEEDED TO PREVENT INJURY OR DAMAGE.**

NOTE: Measure the harness length from the 7-pin connector to the pulley before disassembly.

1. Disassembly is the same as listed for the inspection procedure.
2. Remove the spring from the inner cover bolt and remove from the pulley bracket (FIG. 4-13 & 4-14).
3. Replace with the new spring.
4. Remove the worn cable by cutting the cable and remove from the harness pulley weldment (FIG. 4-13).
5. Assemble the new cable through the harness pulley weldment, around the pulleys and through the hole in the small pulley weldment (FIG. 4-15).
6. Pull the cable through the small pulley weldment until the spring has 5" preload (FIG. 4-16).
7. Crimp the oval clamp to secure. Before crimping the cable clamp, pull the harness to check the tension (FIG. 4-16).



Tongue Retractable Light Cord Service (continued)

8. Reassemble the inner cover. Set the harness pulley on the inner cover.
9. Replace the harness by removing the 7-pin connector, remove the front harness inner cover, cut the cable ties and disconnect the harness from the rear harness, behind the undercarriage front plate. (FIG. 4-17 & 4-18)
10. The new harness replacement is the opposite of the removal.

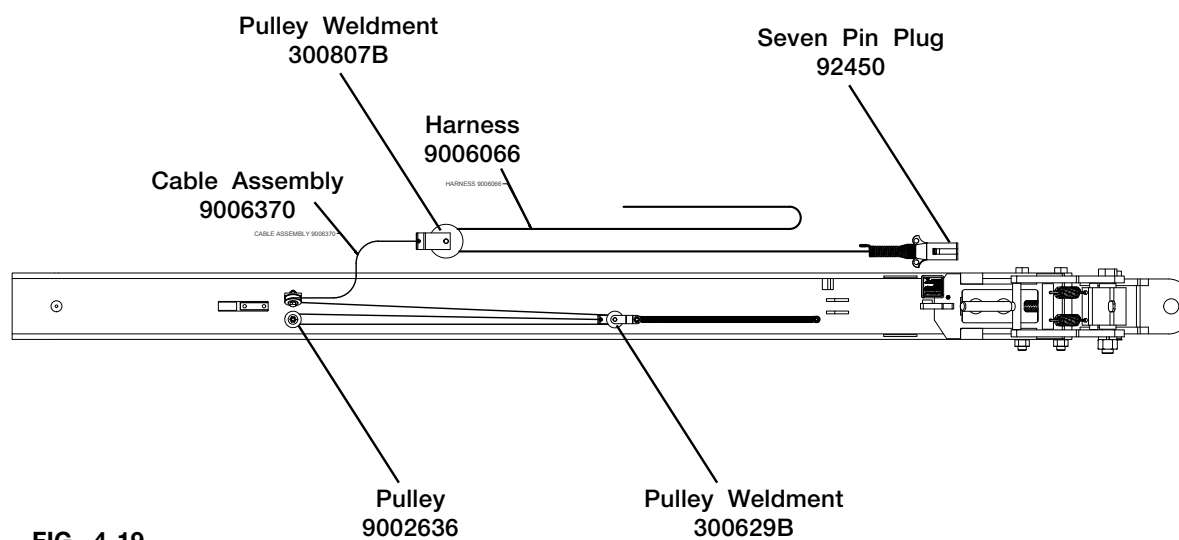
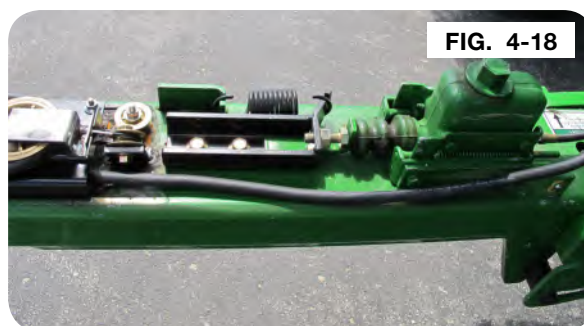
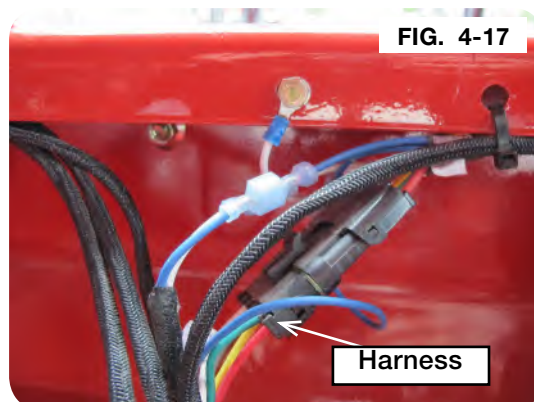


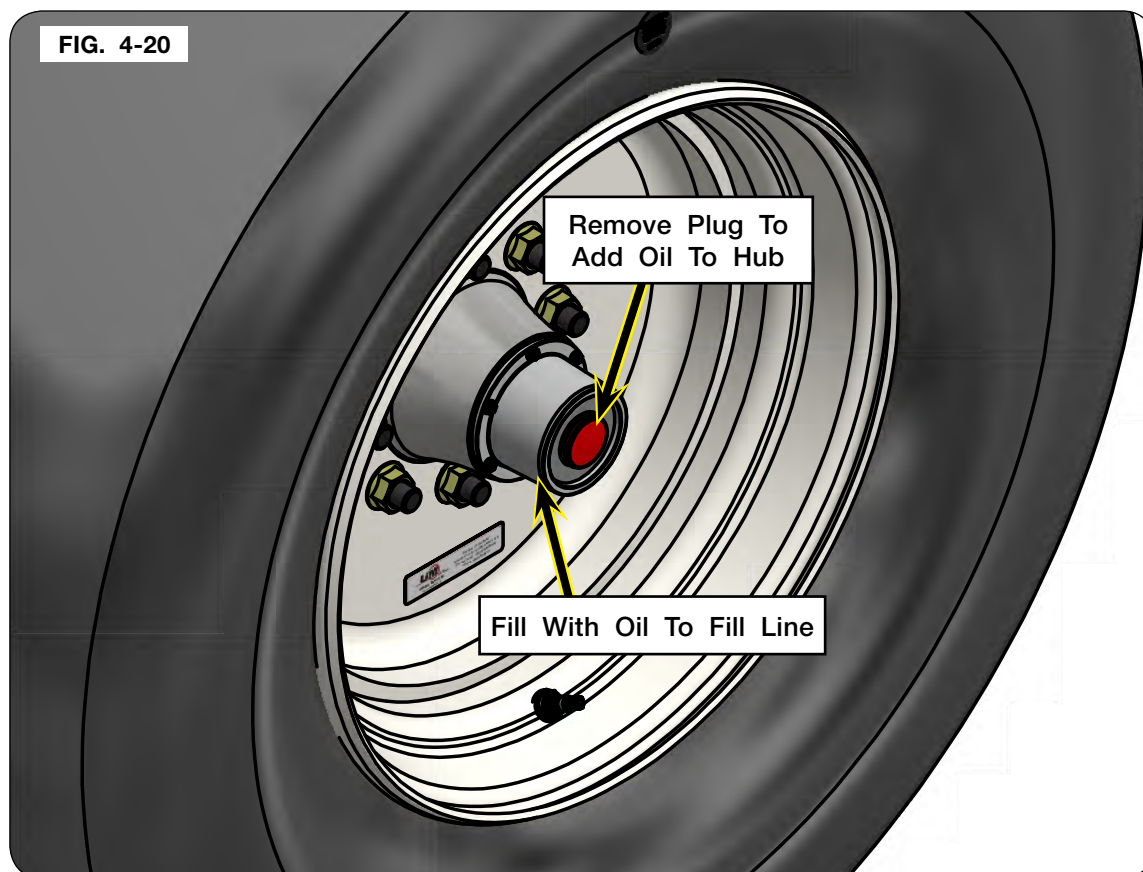
FIG. 4-19

Seasonal Storage

Your wagon is an important investment. Spend a little time to protect it from destructive rust and corrosion. You will be repaid in longer service life and better performance.

Do the following before placing the wagon in storage:

1. Remove dirt and trash which could cause rusting.
2. Fully open the door and remove any remaining grain. Leave door open in off-season to allow moisture to drain.
3. Wash the wagon if it was used to haul corrosive materials such as fertilizer.
4. Remove the tongue cover and use compressed air to remove debris.
5. Repaint any chipped or scraped areas.
6. Lubricate points as shown on previous page.
7. Check the brake fluid level.
8. Check the oil level of all wheel hubs.
9. Inspect for damage or worn parts, replace before next season.
10. Store the wagon inside, away from animals.
11. Replace all worn, torn or faded decals and reflectors.



Brake System

WARNING

- HIGH-PRESSURE FLUIDS CAN PENETRATE THE SKIN AND CAUSE SERIOUS INJURY OR DEATH. LEAKS OF HIGH-PRESSURE FLUIDS MAY NOT BE VISIBLE. USE CARD-BOARD OR WOOD TO DETECT LEAKS IN THE HYDRAULIC SYSTEM. SEEK MEDICAL TREATMENT IMMEDIATELY IF INJURED BY HIGH-PRESSURE FLUIDS.
- HYDRAULIC SYSTEM MUST BE PURGED OF AIR BEFORE OPERATING TO PREVENT SERIOUS INJURY OR DEATH.

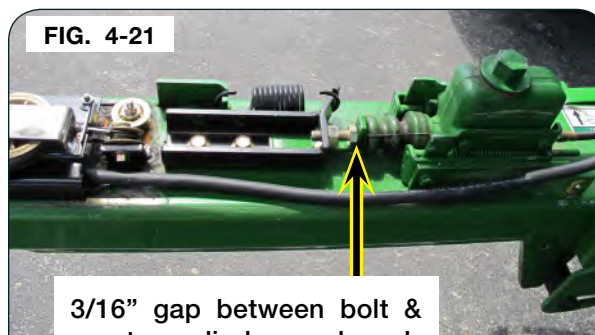
Sliding Hitch and Latch

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

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

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

FIG. 4-21



Master Cylinder

Brake fluid level may be checked by removing cap on master cylinder. Refill level with a heavy-duty brake fluid that meets DOT-3. Do not clean any brake components in gasoline, kerosene, or oil.

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

Brake Bleeding

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

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

Brake System (continued)**Manual Bleeding**

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

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

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

Position a flat tool bar between master cylinder “L” bracket and housing and pump master cylinder with long steady strokes. Continue to stroke master cylinder until bubbles stop rising to surface of fluid in glass jar. Remove hose and re-tighten bleeder screw.

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

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

IMPORTANT

- *Saltwater, granular fertilizers and other corrosive materials are destructive to metal. To prolong the life of a braking system used under corrosive conditions, flush the actuator periodically with a high pressure water hose. Be sure to re-grease the hitch sliding actuator plate and oil all moving parts after the unit has dried. At the end of the season, when unit is to be stored, remove the wheels, remove the hubcaps and allow the hub oil to drain. Then carefully remove the hub/drum assemblies, and clean the inside of brakes. Inspect the oil seal surfaces and bearings for any wear or damage. Replace with the new parts as necessary. When all of the components are clean, reassemble the hub and drum assemblies on the spindle and fill the hub with 80W90 gear lube up to the hub cap indicator ring. Rotate the hub to distribute the gear oil, allow the oil to settle, and recheck the level. Add additional oil as required.*

Brake System (continued)

Brake Shoe Adjustment

WARNING

- **FALLING OBJECTS CAN CAUSE SERIOUS INJURY OR DEATH. DO NOT WORK UNDER THE MACHINE AT ANY TIME WHILE BEING HOISTED. BE SURE ALL LIFTING DEVICES AND SUPPORTS ARE RATED FOR THE LOADS BEING HOISTED. THESE ASSEMBLY INSTRUCTIONS WILL REQUIRE SAFE LIFTING DEVICES UP TO 8,000 LBS. SPECIFIC LOAD RATINGS FOR INDIVIDUAL LOADS WILL BE GIVEN AT THE APPROPRIATE TIME IN THE INSTRUCTIONS.**

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

- **TIPPING OR MOVEMENT OF THE MACHINE CAN CAUSE SERIOUS INJURY OR DEATH. BE SURE MACHINE IS SECURELY BLOCKED.**

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

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

Brake System (continued)

Brakes are set at factory, however, it may become necessary to adjust shoes after the first season. The brakes incorporate a “Back-up” feature that makes it necessary to rotate the wheels in the direction of forward rotation only when making adjustments. Use a safe lifting device rated for 8,000 lbs. to lift an empty wagon. Lift each wheel until the tire is no longer contacting the ground.

Tighten the brake adjusting cog screw (located in the slot on the brake backing plate) down to increase the pressure. Tighten until you cannot rotate wheel by hand, then back off 3 - 4 threads. Additional adjustment on threads may be necessary.

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



FIG. 4-22

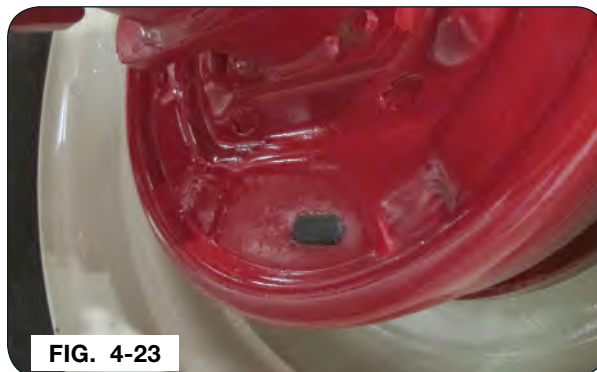


FIG. 4-23

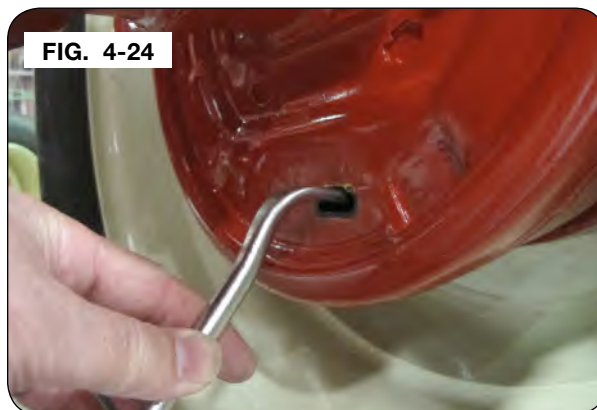


FIG. 4-24

13" Surge Brake information

Brake Shoe Centering

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

WARNING

- WHEN WORKING AROUND THE MACHINE, BE SURE IT IS SECURELY BLOCKED; FAILURE TO DO SO COULD RESULT IN TIPPING OR MOVEMENT OF MACHINE, CAUSING SEVERE BODILY HARM.
- EYE PROTECTION AND OTHER APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT MUST BE WORN WHILE SERVICING IMPLEMENT.
- KEEP HANDS CLEAR OF PINCH POINT AREAS.

1. Park the empty wagon on a firm, level surface. Properly chock the tires not being serviced. Remove master cylinder cover on tongue of the wagon (FIG. 4-25 & 4-26). Make sure the master cylinder is not being actuated.
2. Use lifting device rated for 4 tons to lift the axle to allow the tire with the brakes needing adjustment to spin freely (FIG. 4-27). Loosen anchor pin nut on the back of brake assembly back plate with 1 1/8" socket (FIG. 4-28).

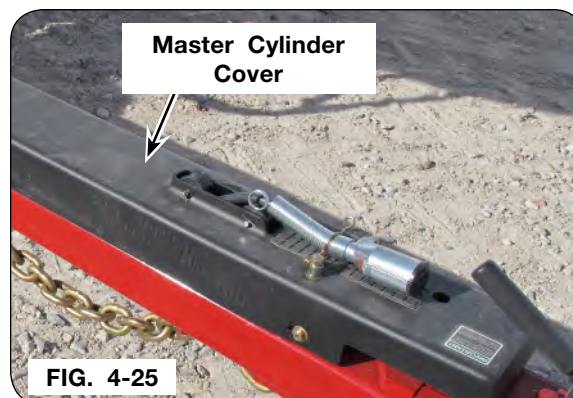


FIG. 4-25



FIG. 4-26



FIG. 4-27

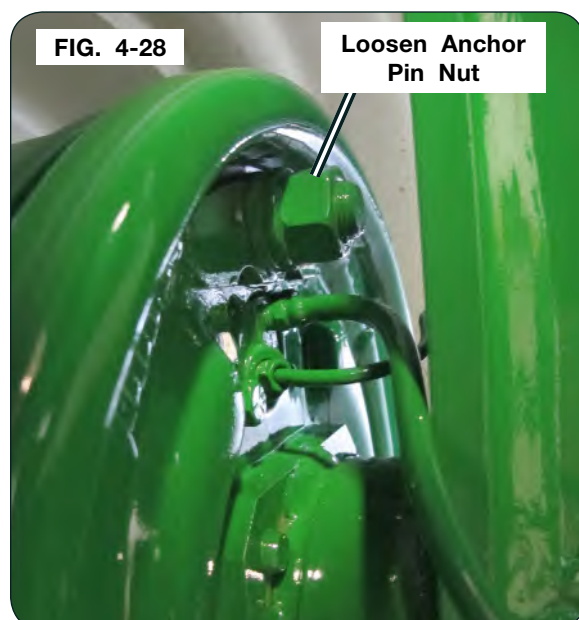


FIG. 4-28

Loosen Anchor
Pin Nut

13" Surge Brake information (continued)

3. Spin tire in direction of forward travel of the wagon. While tire is spinning, increase the brakes using the shoe adjustment star wheel until full contact of brakes can be heard (FIG. 4-29).
4. While tire is spinning, slowly apply and hold pressure to the master cylinder (FIG. 4-30). While holding pressure to the master cylinder, retighten anchor pin nut to 200-220 ft.-lbs (FIG. 4-31). This should center the brake shoe assembly within the brake drum.

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

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



FIG. 4-29



FIG. 4-30

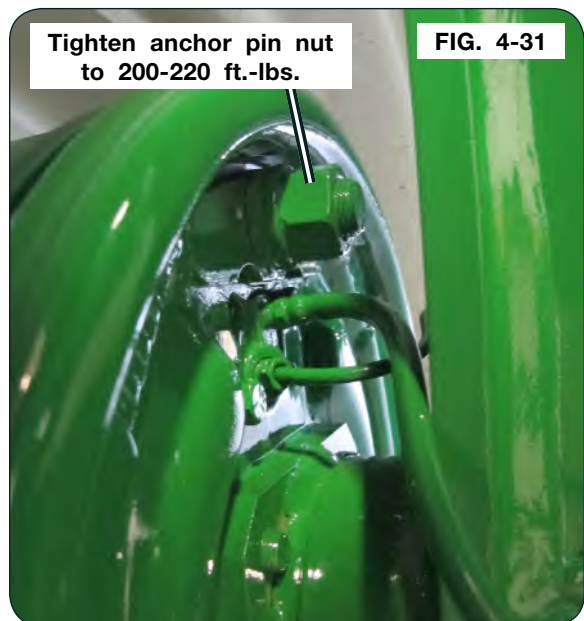


FIG. 4-31

Brake System - Troubleshooting Guide

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

Wheels and Tires

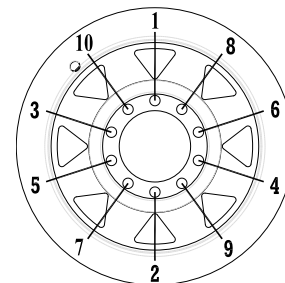
Wheel Nut Torque Requirements

CAUTION

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

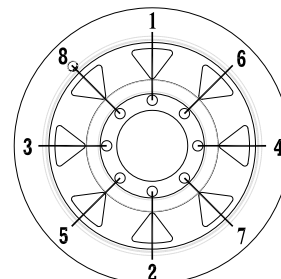
Failure to check torque before first load may damage wheel nut/bolt seats. Once seats are damaged, it will become impossible to keep nuts/bolts tight. Tighten nuts/bolts to applicable torque value shown in table. Start all nuts/bolts by hand to prevent cross threading. Torque nuts/bolts in the recommended sequence as shown in Diagram 1 for Models 657/757. Diagram 2 is for Model 557.

WHEEL HARDWARE	
SIZE	FOOT-POUNDS
3/4-16 (UNF)	365 ft.-lbs.
1 1/8-16 (UN)	450 ft.-lbs.



10 BOLT

DIAGRAM 1



8 BOLT

DIAGRAM 2 (557 ONLY)

Wheels and Tires (continued)

Tire Pressure

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

Tire Make	Tire Size	Load Index / Ply		550 BU	625 BU	650 BU	750 BU
		Rating					
Firestone	445/65R22.5	174D		-	-	-	85 psi
Mitas	460/65R22.5	168A8		58 psi	66 psi	68 psi	73** psi
	560/65R22.5	165D		-	45 psi	45 psi	56* psi
	600/50-22.5	168A8		-	-	-	46** psi
	15R22.5	Used		65 psi	-	-	-
	18R22.5 (445)	Used		65 psi	85 psi	85 psi	85 psi
	315/80R22.5	Used		-	-	-	85 psi
	425/65R22.5	Used		65 psi	85 psi	85 psi	-
	455/55R22.5	Used		-	-	-	85 psi

*Each tire must be inflated to 35 PSI max to seat the beads, deflated to 5-10 PSI, then reinflated to the tire's max PSI.

*** MAX psi @ 25 mph**

**** MAX psi @ 19 mph**

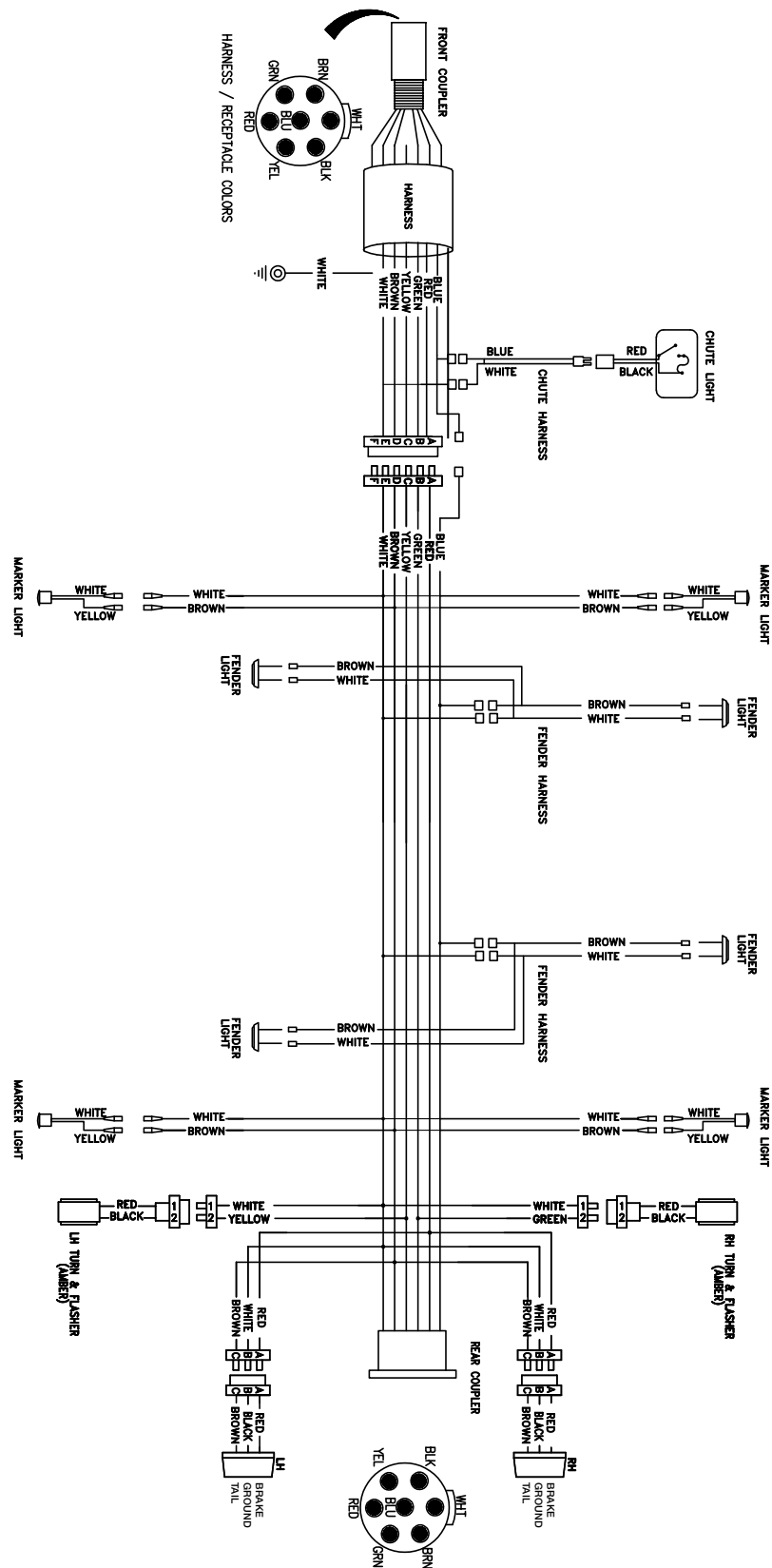
Tire Warranty

For questions regarding new tire warranty, please contact your local original equipment tire dealer. **USED TIRES CARRY NO WARRANTY.** Following are phone numbers and Websites for your convenience:

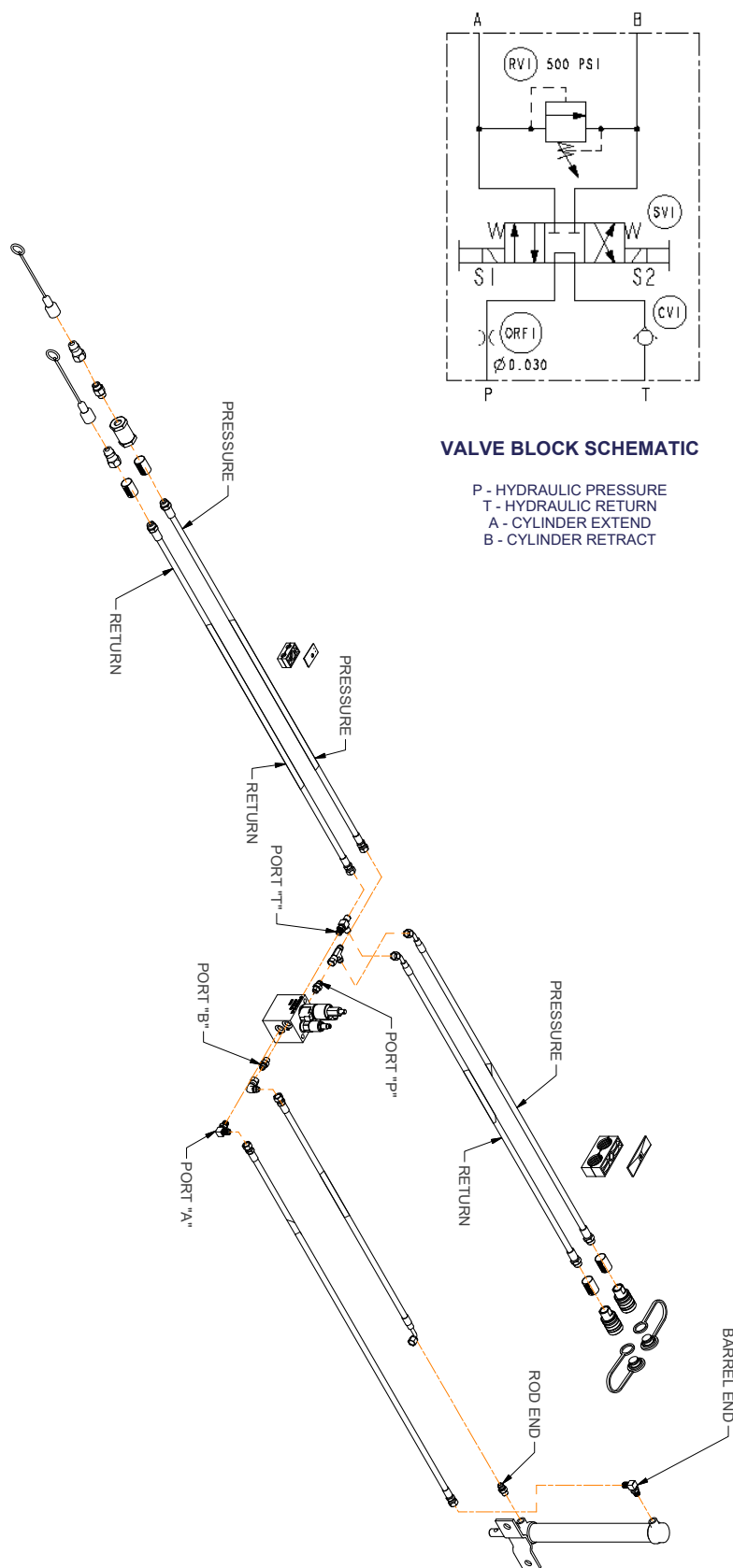
Firestone www.firestoneag.com
Phone 800-847-3364

Continental/Mitas www.mitas-tires.com
Phone 704-542-3422
Fax 704-542-3474

Electrical Schematic



Hydraulic Schematic



Complete Torque Chart**Capscrews - Grade 5****NOTE:**

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

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

IMPORTANT

- Follow these torque recommendations except when specified in text.

Complete Torque Chart (continued)**Capscrews - Grade 8****NOTE:**

- Grade 8 capscrews can be identified by six radial dashes on the head.
- For wheel torque requirements, refer to **Wheels and Tires**.
- Tighten U-bolts evenly and equally to have the same number of threads exposed on each end.

SIZE	FOOT POUNDS	NEWTON METERS
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
1/1-13	81-88	110-120
1/1-20	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.*

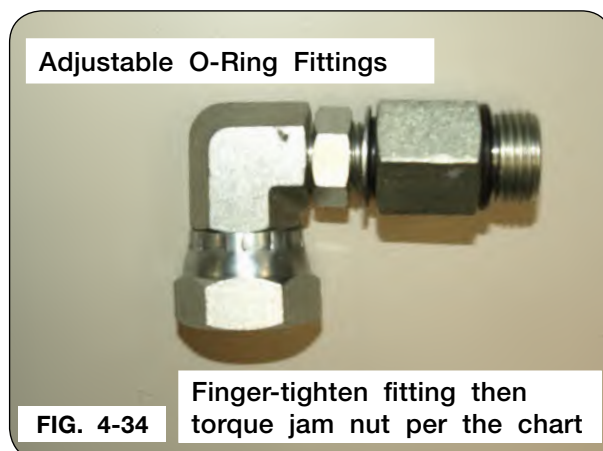
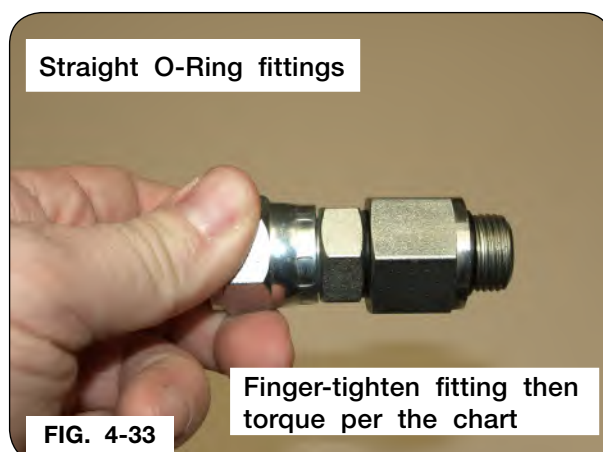
Hydraulic Fittings - Torque and Installation

Tightening O-Ring Fittings

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

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

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

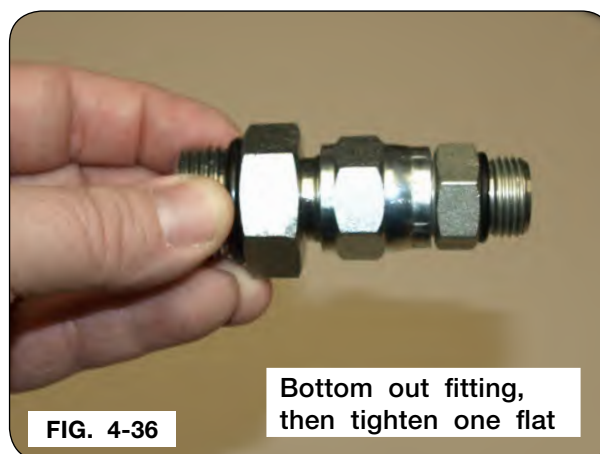
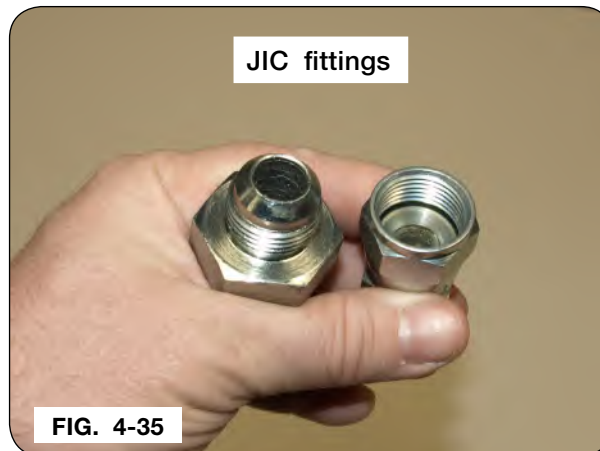


Hydraulic Fittings – Torque and Installation

Tightening JIC Fittings

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

NOTE: Never use a power tool to install a fitting



Hydraulic System Bleed

Use a hose with male pioneer couplers on each end of the hose and attach to the wagon's rear female hydraulic couplers. Attach the wagon's front male couplers to the tractor. Completely bleed this portion of the circuit by holding the hydraulic lever for at least one minute.

Remove the hose previously attached to the rear couplers. Completely bleed the remaining portion by running the hydraulic lever into detent and activating the switch to run the door completely raised.



- **THE DOOR CAN DROP SUDDENLY WITHOUT NOTICE. KEEP OBJECTS AWAY FROM UNDER THE DOOR.**

Once the cylinder is completely retracted, hold the switch for at least one minute. Activate the switch to close the door completely and hold for at least one minute.

Gas Spring Replacement on Chute

WARNING

- **FALLING OBJECTS CAN CAUSE SERIOUS INJURY OR DEATH. DO NOT WORK UNDER THE MACHINE AT ANY TIME WHILE BEING HOISTED. BE SURE ALL LIFTING DEVICES AND SUPPORTS ARE RATED FOR THE LOADS BEING HOISTED. THESE ASSEMBLY INSTRUCTIONS WILL REQUIRE SAFE LIFTING DEVICES UP TO 200 LBS. SPECIFIC LOAD RATINGS FOR INDIVIDUAL LOADS WILL BE GIVEN AT THE APPROPRIATE TIME IN THE INSTRUCTIONS.**

1. Raise the chute and kickback until the gas spring is fully extended.

NOTE: It may be necessary to undo the latch or remove the latch catch to allow the gas spring to fully extend.

2. Support both the chute and kickback in position using a 200 lb. lifting device.
3. Remove the wire clip retainer from the ball socket by pulling the retainer over the gas spring shaft. Pull the retainer away from the housing to allow the mounting stud to be removed.



FIG. 4-37



FIG. 4-38

4. If applicable, replace the mounting studs by removing the nut on the opposite side while retaining the hex base of the mounting stud. Install the new stud and tighten the nut while retaining the hex base of the stud.
5. Place the ball socket of the new gas spring onto the mounting stud and insert the wire retainer into the small hole of the ball socket. Snap the formed end of the retainer around the gas spring shaft end.
6. Repeat steps 3-5 on the opposite side, if necessary.
7. Remove the lifting support and allow the chute and kickback to rest on the gas spring.
8. Reinstall the latch catch, if needed, and test the function.

Tarp Troubleshooting

PROBABLE CAUSE	CORRECTION
Tarp sags in middle areas	<ol style="list-style-type: none"> 1. Bows may be bent or adjusted too low. 2. Missing or loose ridge strap. Replace or retighten. 3. U-joint may need to be adjusted on splined shaft to provide more tension.
Holes or tears in tarp	<ol style="list-style-type: none"> 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

- Periodic preventive maintenance should be practiced. Inspect tarp and hardware often for abrasions or loosened bolts that may need adjustment and/or repair. Check stretch cord for wear and adjust tension whenever needed. Cable spools are factory greased, but over time and use may require re-greasing.
- 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.

Operation

- Using both hands, carefully remove the crank from the holder. Extend the crank handle assembly to a comfortable position at the rear of the box. Roll the tarp to the desired location - fully open or fully closed position. Place the crank in the holder.

Notes

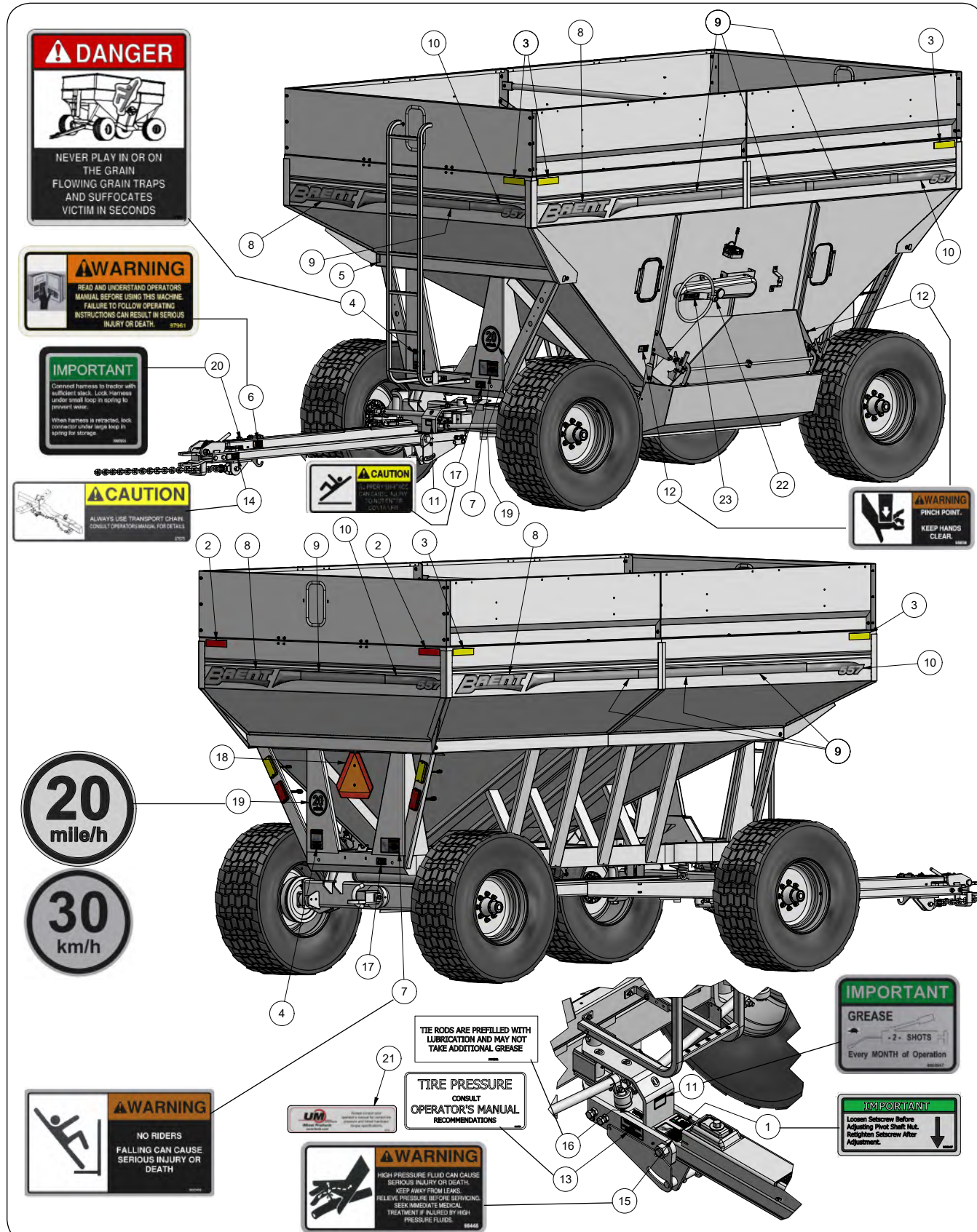
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Decals

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



Decals

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

ITEM	PART NO.	DESCRIPTION	QTY.	NOTES
	221425	Reflector Kit	1	Includes Items 2 & 3 (Qty 2 Each)
1	9002187	Decal, IMPORTANT "Tongue Pivot"	1	
2	9003126	Reflector, RED	2	
3	9003127	Reflector, AMBER	5	
4	97603	Decal, DANGER "Never Play In Or On The Grain"	1	
5	91605	Decal, FEMA Member	1	
6	97961	Decal, WARNING "Read and Understand"	1	
7	9003476	Decal, WARNING "No Riders"	2	
8	9006360	Decal, Brent Logo (6.5" x 43")	4	
9	9006361	Decal, Stripe (2.73" x 36.5")	9	Model 557/557Q
			9	Model 657/657Q
			11	Model 757/757Q
10	9006446	Decal, 557	4	
	9006357	Decal, 557Q		
	9006447	Decal, 657		
	9006358	Decal, 657Q		
	9006448	Decal, 757		
	9006359	Decal, 757Q		
11	9004599	Decal, IMPORTANT "Grease Monthly - 2 Shots"	1	
12	95839	Decal, WARNING "Pinch Point"	2	
13	9006724	Decal, Tire Pressure	1	
14	97575	Decal, CAUTION "Transport Chains"	1	
15	95445	Decal, WARNING "High Pressure Fluid"	1	
16	9008321	Decal, Grease, Tie-Rod	1	
17	95008	Decal, CAUTION "Slippery Surface"	2	
18	TA510514	SMV Emblem	1	
19	9008714	Decal, SIS 20 MPH	2	
	9008720	Decal, SIS 30 KPH		
20	9003201	Decal, IMPORTANT "Harness Slack"	1	
21	94754	Decal UM Wheel Systems	1	
22	9008911	Decal, Spinner "Brent"	1	
23	9006428	Decal, Door Lift "Push to Unlock, Pull to Lock"	1	

Touch-Up Paint

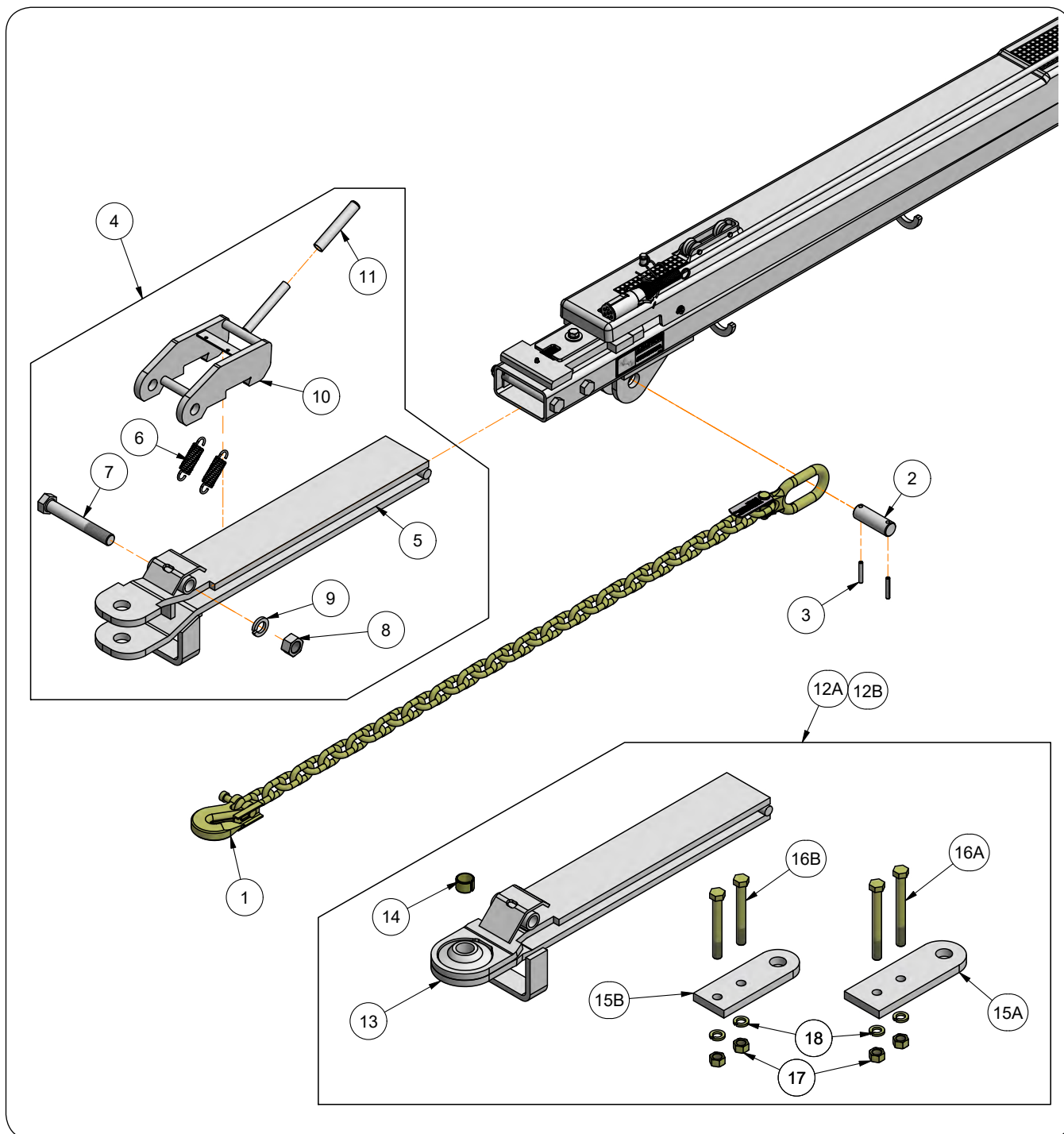
Please visit www.unverferth.com/parts/ for the most current parts listing.

SPRAY PAINT	PART NO.
Black	97017
Black Metallic	201267
Green	97015
Red	97301
Primer, Gray	9500082



Hitch & Transport Chain Components

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



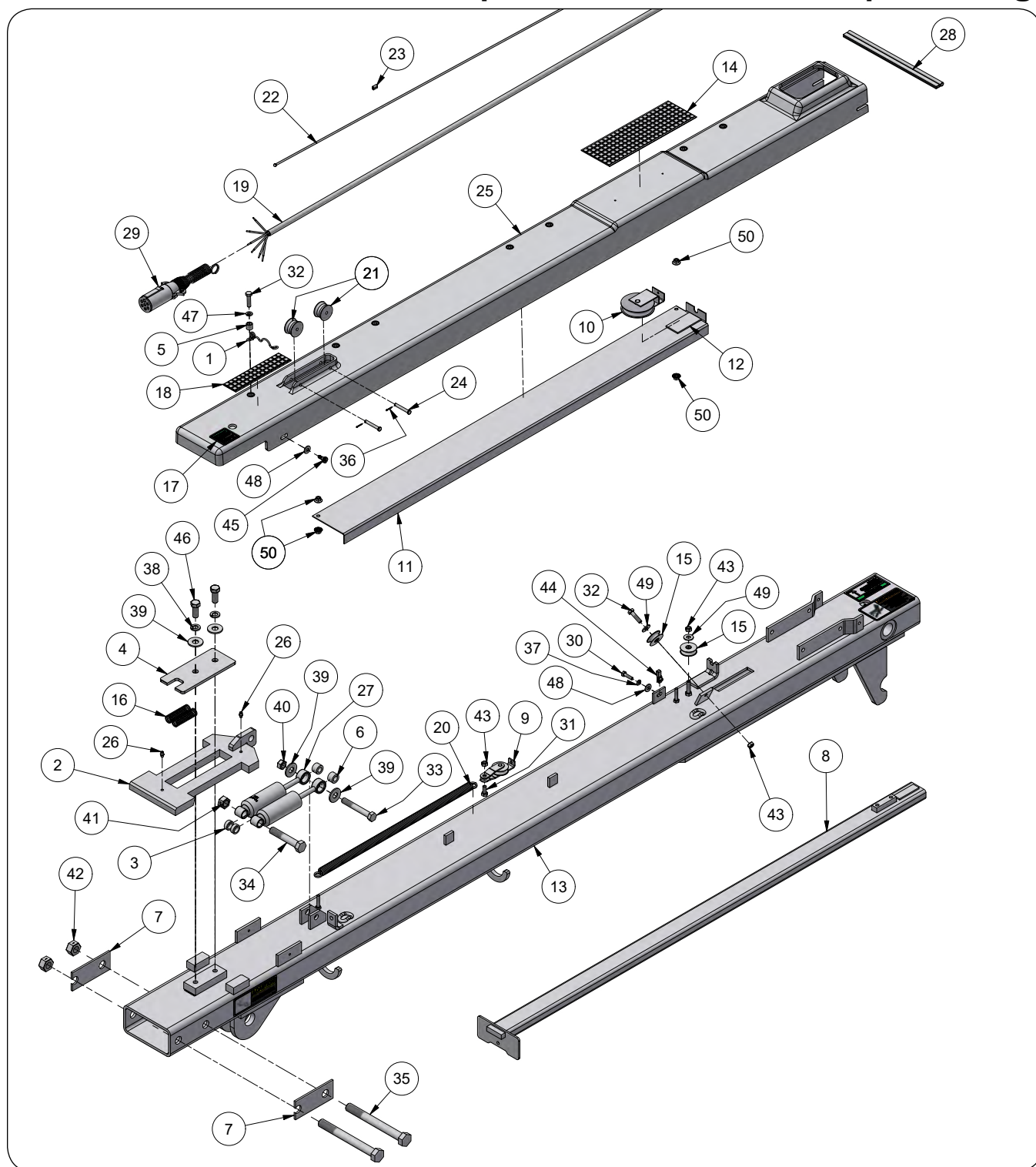
Hitch & Transport Chain Components

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

ITEM	PART NO.	DESCRIPTION	QTY	NOTES
1	95055	41,000 lbs Chain	1	Model 557/557Q/657/657Q
	9003269	60,600 lbs Chain	1	Model 757/757Q
2	250151	Chain Pin, 1 1/4" Dia. x 3 3/4"	1	
3	9392-159	Roll Pin, 5/16" Dia. x 2"	2	
4	300679B	Hitch Subassembly =Black=	1	Includes Items 5-11
5	221092B	Clevis Hitch Weldment =Black=	1	
6	9002044	Extension Spring, 1" Dia. x 3 1/4"	2	
7	9390-197	Capscrew, 1"-8UNC x 7" G5	1	
8	9394-020	Hex Nut, 1"-8UNC	1	
9	9404-041	Lock Washer, 1"	1	
10	300628B	Latch Weldment =Black=	1	
11	9006337	Grip - Handle	1	
12A	300319	Optional Single Tang Hitch Kit	1	For Models 657/657Q/757/757Q
12B	300375	Optional Single Tang Hitch Kit	1	For Model 557/557Q
13	300195B	Hitch Weldment =Black=	1	
14	93622	Tension Bushing 1 1/2" OD x 1"	1	
15A	300230B	Rear Hammer Strap, 4" x 11 1/2" =Black=	1	For Models 657/657Q/757/757Q
15B	300229B	Rear Hammer Strap, 3 1/2" x 9 5/8" =Black=	1	For Model 557/557Q
16A	9390-159	Capscrew, 3/4"-10UNC x 7" G5	2	For Models 657/657Q/757/757Q
16B	9390-157	Capscrew, 3/4"-10UNC x 6" G5	2	For Model 557/557Q
17	9394-016	Hex Nut, 3/4"-10UNC	2	
18	9404-033	Lock Washer, 3/4"	2	

Tongue Components

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



ITEM	PART NO.	DESCRIPTION	QTY	NOTES
	300987BM	Tongue Assembly =Black Metallic=	-	Includes Items 1-50
	300987G	Tongue Assembly =Green=		
	300987R	Tongue Assembly =Red=		

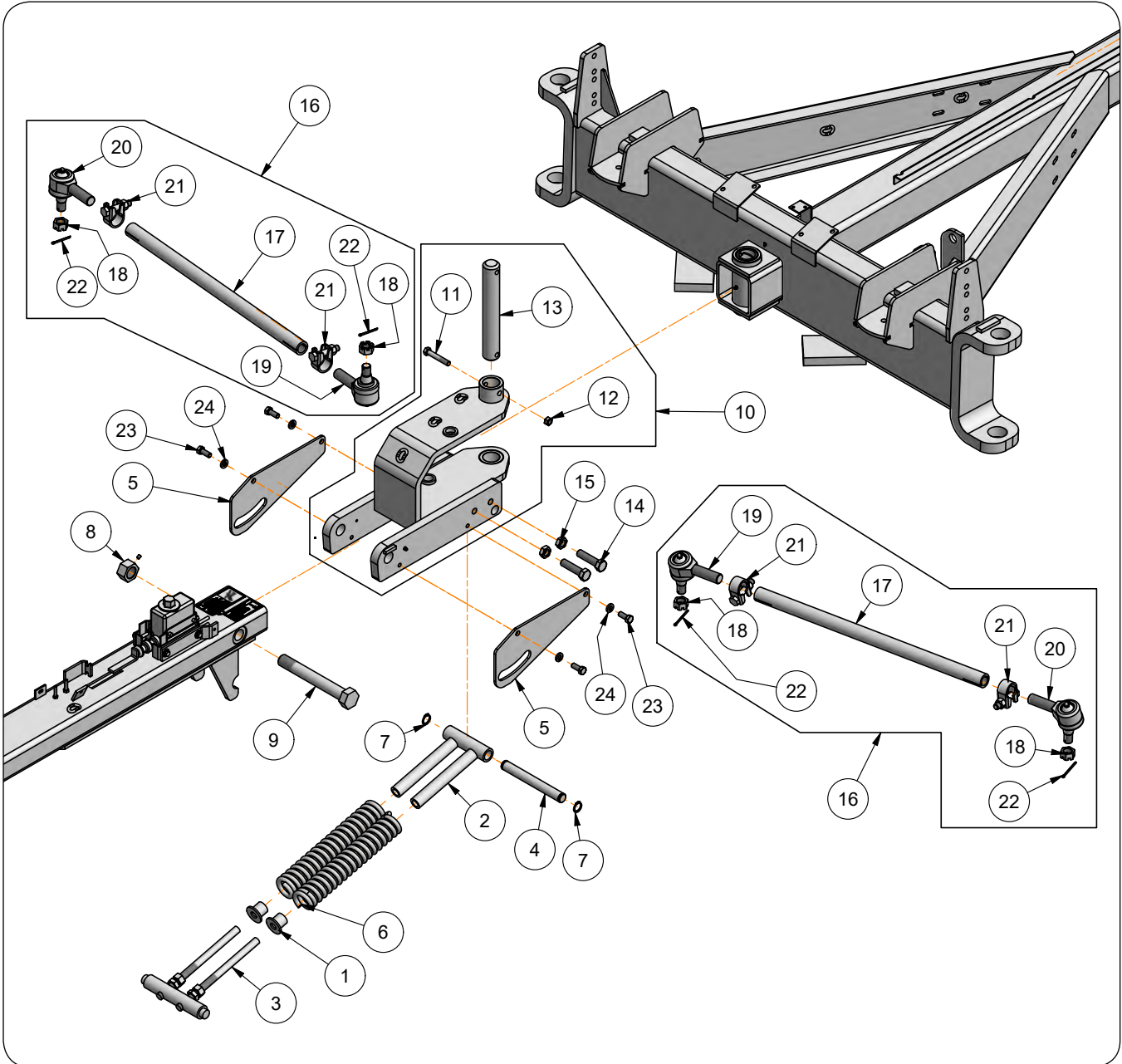
Tongue Components

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

ITEM	PART NO.	DESCRIPTION	QTY	NOTES
1	221069	Spring - Harness Retainer	1	
2	221103B	Latch Bracket Weldment =Black=	1	
3	221138	Spacer - Shock	2	
4	221181B	Brake Bracket =Black=	1	
5	281372	Spacer	1	
6	300035	Tube - Shock Bushing	2	
7	300081	Shim - Hitch	2	
8	300602B	Push Tube Weldment =Black=	1	
9	300629B	Pulley Weldment - Spring =Black=	1	
10	300807B	Pulley Weldment =Black=	1	
11	300808B	Panel - Cover =Black=	1	
12	300903	Strip - Poly	1	
13	300992BM	Tongue Weldment with Decals =Black Metallic=	1	
	300992G	Tongue Weldment with Decals =Green=		
	300992R	Tongue Weldment with Decals =Red=		
14	9002581	Pad - Rubber	1	
15	9002636	Pulley - 1 1/2 Single	2	
16	9002666	Compression Spring	2	
17	9003201	Decal, Important (Connect Harness)	1	
18	9005007	Pad - Shock Cover	1	
19	9006066	Harness	1	
20	9006251	Extension Spring	1	
21	9006301	Roller - Harness	2	
22	9006370	Cable Assembly - 76"	1	
23	9006413	Oval Compression Sleeve For 3/32" Wire Rope	1	
24	9006666	Clevis Pin, 1/4" Dia. x 1 3/4"	2	
25	9006659	Tongue Cover Assembly	1	
26	91160	Grease Zerk	2	
27	91667	Shock Absorber	2	Actuator PN - 92968
28	92444	Trim-Lok - Poly	1.5 ft.	
29	92450	ASAE 7-way Plug	1	
30	9390-005	Capscrew, 1/4"-20UNC x 1" G5	1	
31	9390-028	Capscrew, 5/16"-18UNC x 3/4" G5	1	
32	9390-031	Capscrew, 5/16"-18UNC x 1 1/4" G5	2	
33	9390-109	Capscrew, 1/2"-13UNC x 3 1/2" G5	1	
34	9390-130	Capscrew, 5/8"-11UNC x 3 1/2" G5	1	
35	9390-159	Capscrew, 3/4"-10UNC x 7" G5	2	
36	9391-001	Cotter Pin, 1/16" Dia. x 1/2"	2	
37	9404-017	Lock Washer, 1/4"	5	
38	9404-025	Lock Washer, 1/2"	2	
39	9405-088	Flat Washer, 1/2" USS	4	
40	94981	Locknut/Center, 1/2"-13UNC	1	
41	95905	Locknut/Center, 5/8"-11UNC	1	
42	96732	Locknut/Center, 3/4"-10UNC	2	
43	9807	Locknut/Top, 5/16"-18UNC	3	
44	TA500592	Clip On Cage Nut	1	
45	9007013	Shoulder Bolt, 5/16"-18UNC x 11/16"	4	
46	9390-100	Capscrew, 1/2"-13UNC x 1 1/4" G5	3	
47	9404-019	Lock Washer, 5/16"	1	
48	9405-064	Flat Washer, 1/4" USS	3	
49	9405-070	Flat Washer, 5/16" USS	1	
50	97189	Hex Nut/Larege Flange, 1/4"-20UNC	6	

Tongue to Undercarriage, Turning Components

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



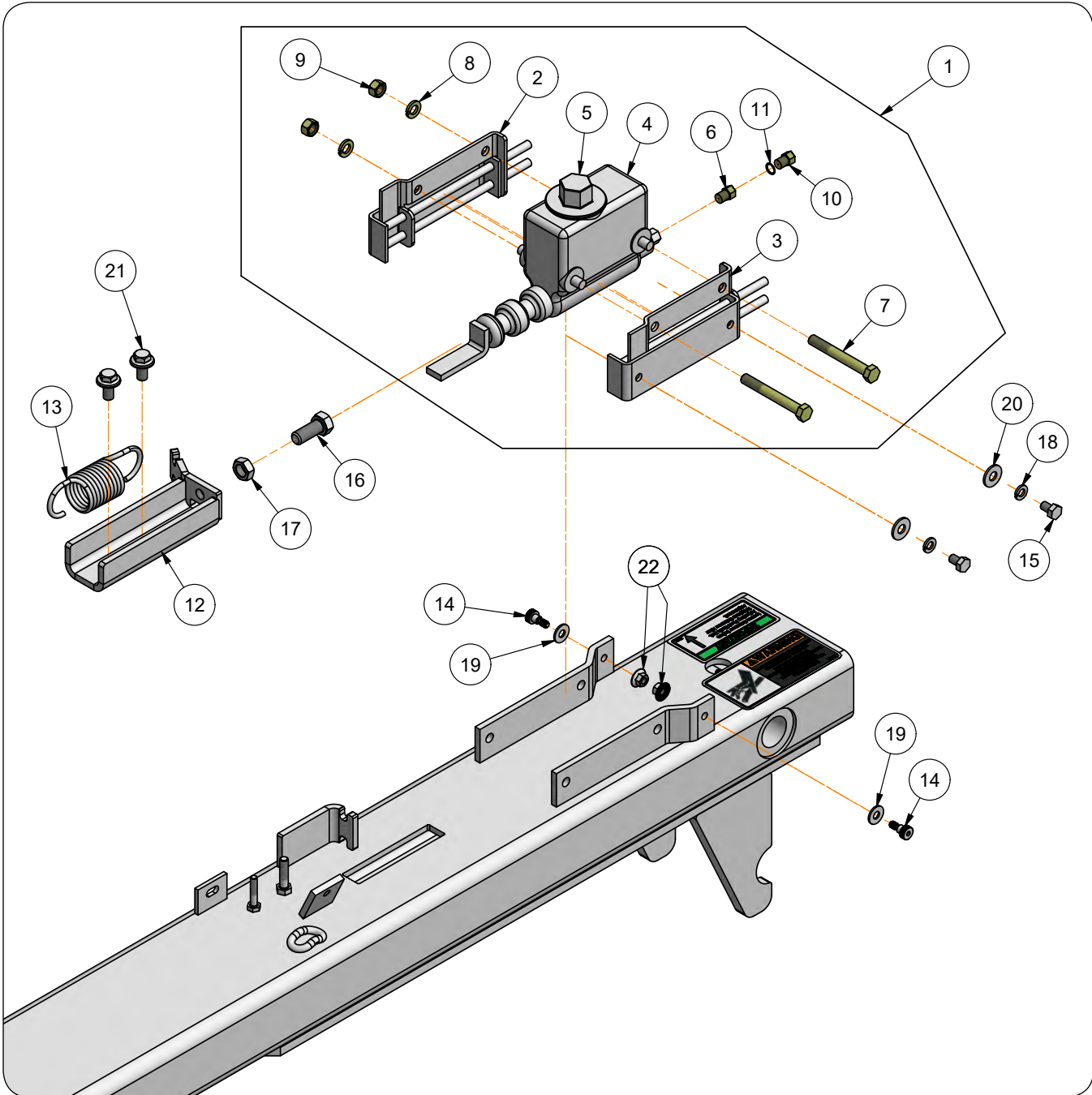
Tongue to Undercarriage, Turning Components

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

ITEM	PART NO.	DESCRIPTION	QTY	NOTES
1	300609B	Washer Weldment =Black=	2	
2	300611B	Spring Slide Weldment =Black=	1	
3	300612	Spring Adjusting Weldment	1	
4	300613	Pin, 1" Dia. x 8 3/4"	1	
5	300616BM	Mount - Spring =Black Metallic=	2	
	300616G	Mount - Spring =Green=		
	300616R	Mount - Spring =Red=		
6	9003880B	Spring - Compression	2	
7	91192	Retaining Ring, 1"	2	
8	300189	Tongue Pivot Nut Assembly	1	Includes Set Screw
	9002186	Set Screw, 5/16"-18UNC x 3/8" Cup Point	1	
9	300187	Tongue Pivot Bolt Assembly	1	
10	300697BM	Turning Weldment =Black Metallic=	1	Models 557/557Q Includes Items 11-13
	300697G	Turning Weldment =Green=		
	300697R	Turning Weldment =Red=		
	300579BM	Turning Weldment =Black Metallic=		Models 657/657Q/757/757Q Includes Items 11-13
	300579G	Turning Weldment =Green=		
	300579R	Turning Weldment =Red=		
11	9390-107	Capscrew, 1/2"-13UNC x 3" G5	2	
12	94981	Locknut/Center, 1/2"-13UNC	1	
13	300723	Shaft - Turning Assembly	1	
14	94733	Capscrew, 3/4"-10UNC x 3" (Fully Threaded)	4	
15	9395-016	Hex Jam Nut, 3/4"-10UNC	2	
16	300004BM	Tie Rod Assembly =Black Metallic=	2	Includes Items 17 through 22
	300004G	Tie Rod Assembly =Green=		
	300004R	Tie Rod Assembly =Red=		
17	8-402026	Tube - Tie Rod Pipe	2	
18	9393-018	Slotted Nut, 7/8"-14UNF	2	
19	92580	LH Thread Tie Rod End	2	Includes Item 18
20	92581	RH Thread Tie Rod End	2	Includes Item 18
21	93668	Clamp - Tie Rod	4	
22	9391-037	Cotter Pin, 5/32" Dia. x 2"	4	
23	9390-100	Capscrew, 1/2"-13UNC x 1 1/4" G5	3	
24	9404-026	Lock Washer, 1/2" Extra	4	

Brake Master Cylinder & Mounting Components

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



Brake Master Cylinder & Mounting Components

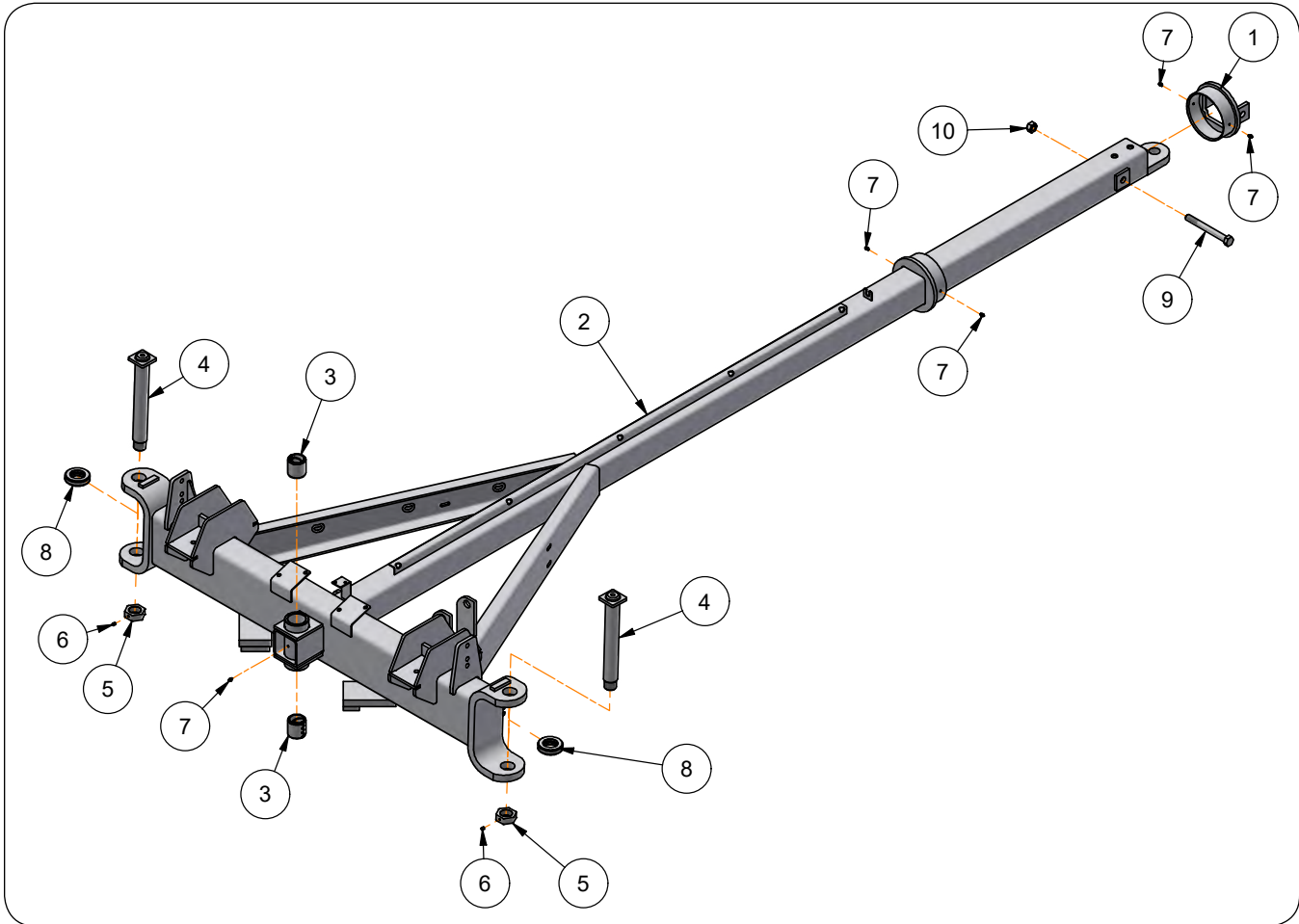
Please visit www.unverferth.com/parts/ for the most current parts listing.

ITEM	PART NO.	DESCRIPTION	QTY.	NOTES
1	92968	Master Cylinder w/Spring Bracket	1	Includes Items 2 - 9
	9001031	Seal Kit for Master Cylinder	1	
	9003931	Master Cylinder Assembly, 1 1/4" Bore	1	Includes Items 4 & 6
2	91672	Spring Bracket - Right	1	
3	91673	Spring Bracket - Left	1	
4	9003931	Master Cylinder ONLY	1	
5	92540	Fill Cap	1	
6	9003774	Orifice Adapter	1	Dryseal
7	9390-063	Capscrew, 3/8"-16UNC x 3" G5	2	
8	9404-021	Lock Washer, 3/8"	2	
9	9394-006	Hex Nut, 3/8"-16UNC	2	
10	91679	Orifice Adapter (Alternate)	1	Requires Item #11
11	91680	Washer, Brass (Alternate)	1	For Item #10 Only
12	300603B	Slide Weldment =Black=	1	
13	9003032B	Spring Extension, 1.5" OD x 4.5" =Black=	1	
14	9007013	Shoulder Bolt, 5/16" Dia. x 11/16" w/ 1/4"-20UNC	4	
15	9390-026	Capscrew, 5/16"-18UNC x 1/2" G5	4	
16	9390-100	Capscrew, 1/2"-13UNC x 1 1/4" G5	1	
17	9395-010	Hex Jam Nut, 1/2"-13UNC	1	
18	9404-019	Lock Washer, 5/16"	4	
19	9405-064	Flat Washer, 1/4" USS	2	
20	9405-070	Flat Washer, 5/16" USS	4	
21	95585	Capscrew/Large Flange, 3/8"-16UNC x 3/4" G5	2	
22	97189	Hex Nut/Large Flange, 1/4"-20UNC	2	

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

Front Axle Undercarriage Components - Models 557/557Q

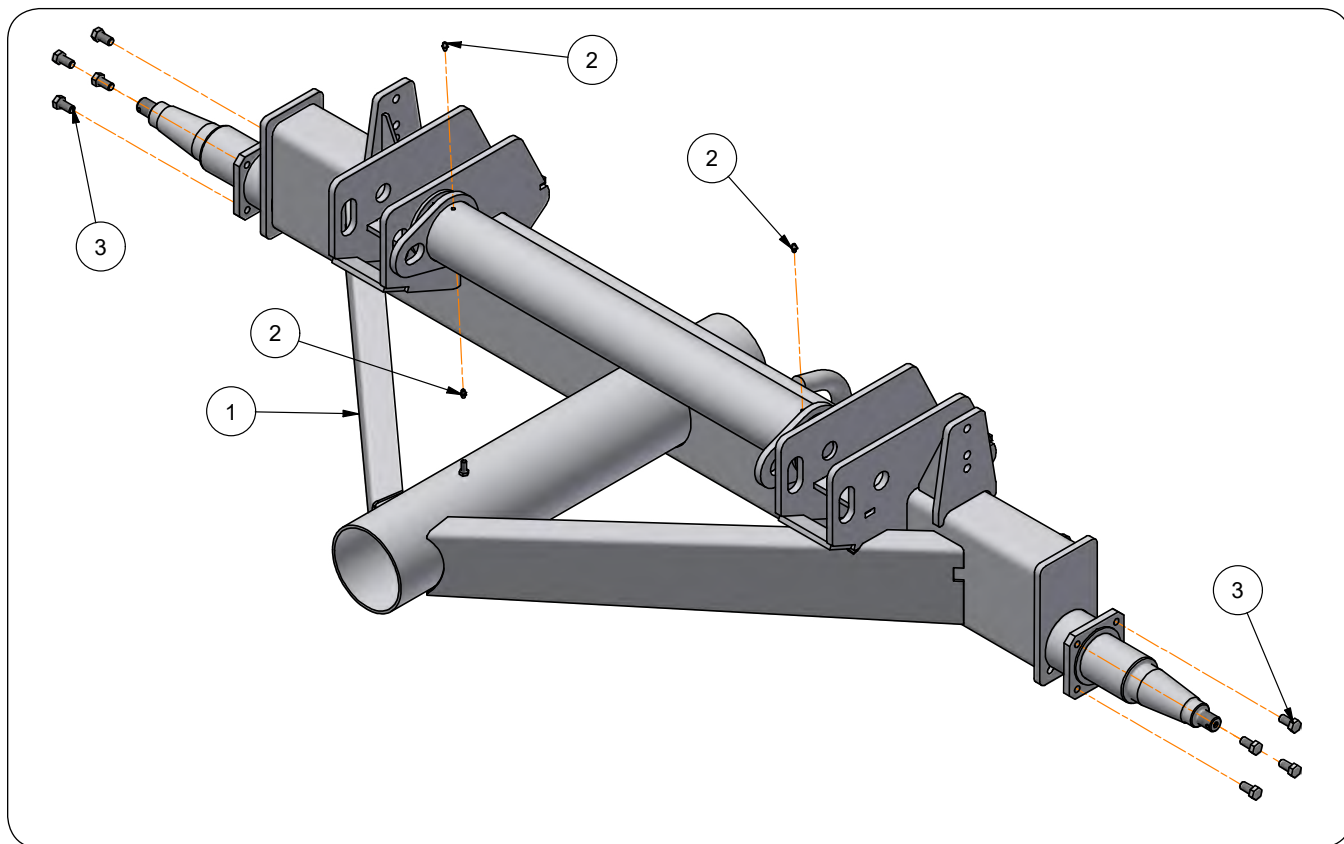
Please visit www.unverferth.com/parts/ for the most current parts listing.



ITEM	PART NO.	DESCRIPTION	QTY	NOTES
1	300220BM	Retainer Weldment - Rear Axle =Black Metallic=	1	
	300220G	Retainer Weldment - Rear Axle =Green=		
	300220R	Retainer Weldment - Rear Axle =Red=		
2	300684BM	Front Axle Weldment =Black Metallic=	1	Includes Item 3
	300684G	Front Axle Weldment =Green=		
	300684R	Front Axle Weldment =Red=		
3	9006088	Split Tension Bushing, 2 1/4" OD x 1 3/4" ID	2	
4	300761	Steering/King Pin Weldment	2	
5	9006386	Hex Jam Nut, 1 1/2"-6UNC w/ Set Screw	2	Includes Item 6
6	9002186	Set Screw, 5/16"-18UNC x 3/8", Cupped Point	2	
7	91160	Grease Zerk	4	
8	92583	Thrust Bearing, 1 3/4" ID (#E21)	2	
9	9390-159	Capscrew, 3/4"-10UNC x 7" G5	1	
10	96732	Locknut/Center, 3/4"-10UNC	3	

Rear Axle Undercarriage Components - Models 557/557Q

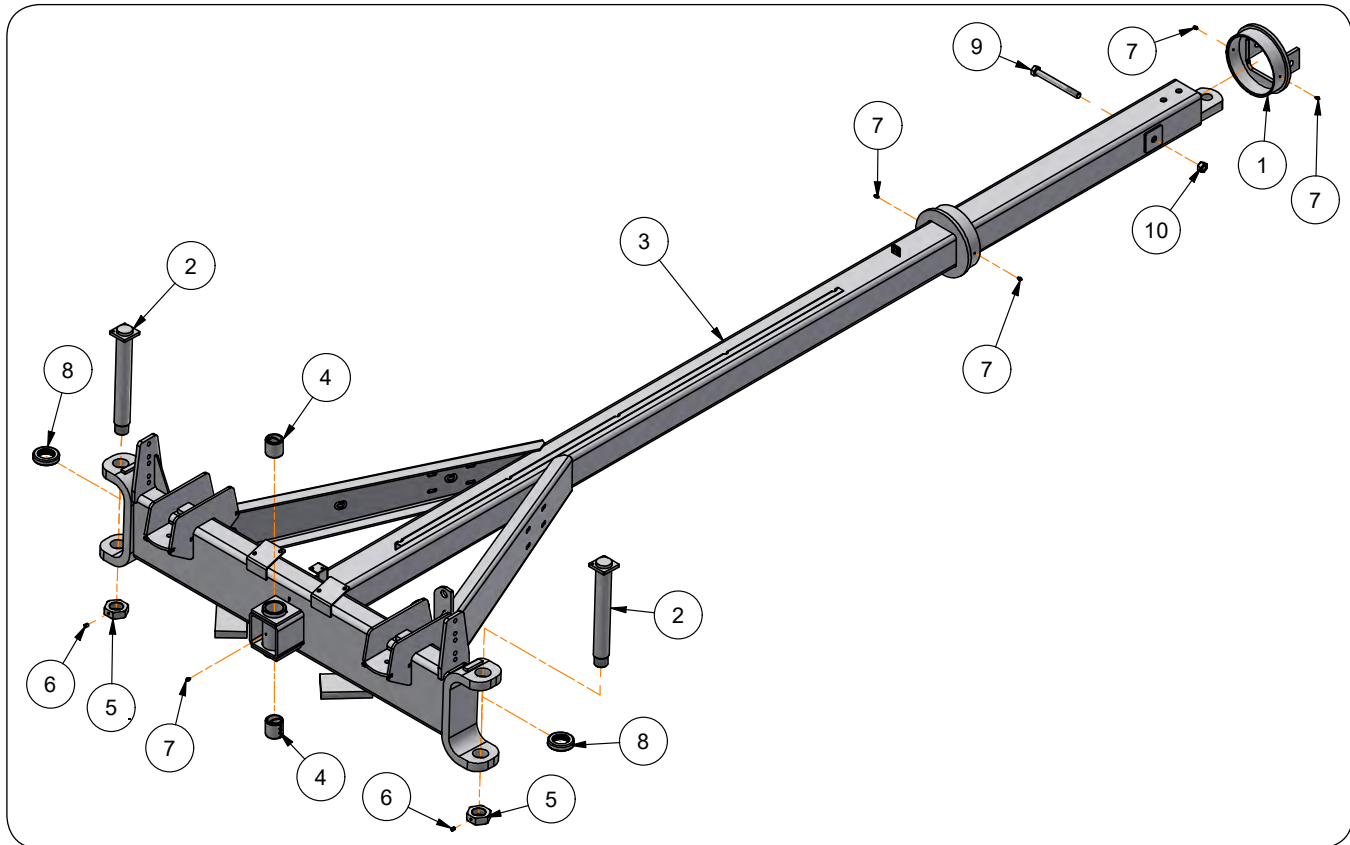
Please visit www.unverferth.com/parts/ for the most current parts listing.



ITEM	PART NO.	DESCRIPTION	QTY	NOTES
1	301229BM	Rear Axle Weldment =Black Metallic=	1	Includes Item 2
	301229G	Rear Axle Weldment =Green=		
	301229R	Rear Axle Weldment =Red=		
2	91160	Grease Zerk	4	
3	9390-323	Capscrew, 1/2"-20UNF x 1" G5	8	

**Front Axle Undercarriage Components
Models 657/657Q/757/757Q**

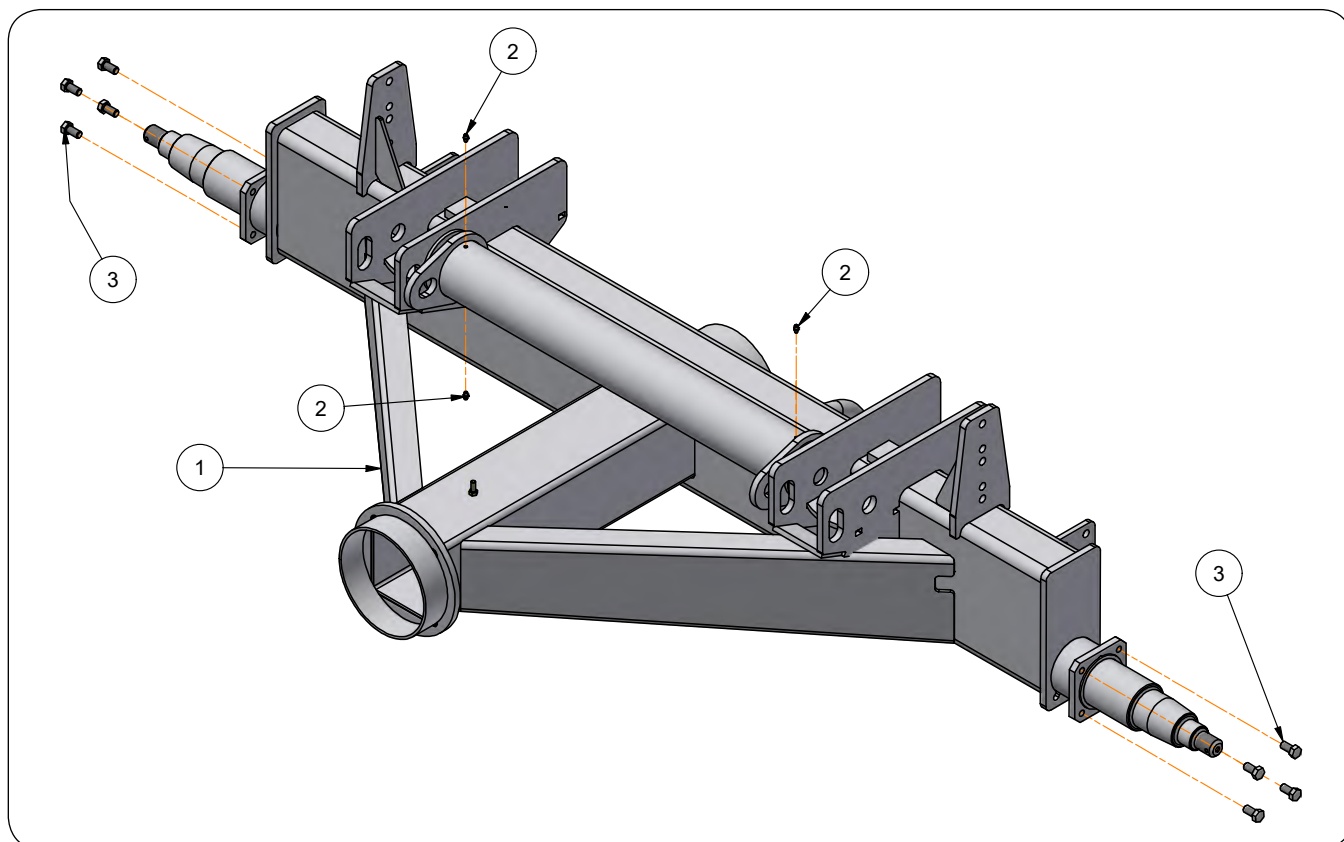
Please visit www.unverferth.com/parts/ for the most current parts listing.



ITEM	PART NO.	DESCRIPTION	QTY	NOTES
1	300902B	Retainer Weldment - Rear Axle =Black=	1	
	300902G	Retainer Weldment - Rear Axle =Green=		
	300902R	Retainer Weldment - Rear Axle =Red=		
2	300726	Steering Pin Weldment	2	
3	300917BM	Front Axle Weldment =Black Metallic=	1	Includes Item 4
	300917G	Front Axle Weldment =Green=		
	300917R	Front Axle Weldment =Red=		
4	9006088	Split Tension Bushing	2	
5	9005290	1 3/4"-5UNC Hex Jam Nut w/ Setscrew	2	Includes Item 6
6	9005336	Set Screw, 3/8"-16UNC x 1/2", Cupped Point	2	
7	91160	Grease Zerk	4	
8	92433	Thrust Bearing 2"	2	
9	9390-160	Cap screw, 3/4"-10UNC x 7 1/2" G5	1	
10	96732	Locknut/Center, 3/4"-10UNC G5	3	

**Rear Axle Undercarriage Components
Models 657/657Q/757/757Q**

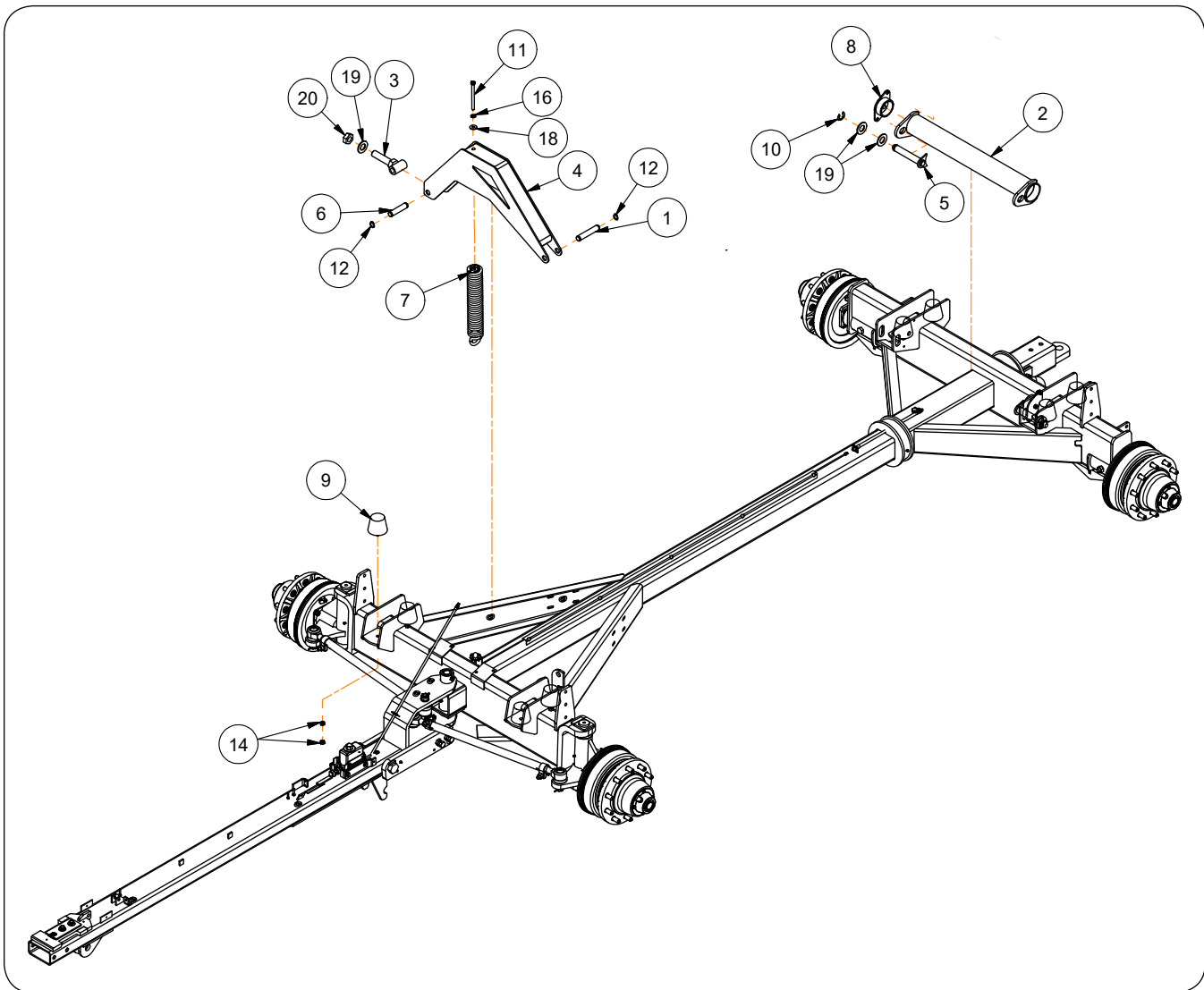
Please visit www.unverferth.com/parts/ for the most current parts listing.



ITEM	PART NO.	DESCRIPTION	QTY	NOTES
1	301230BM	Rear Axle Weldment =Black Metallic=	1	Includes Item 2
	301230G	Rear Axle Weldment =Green=		
	301230R	Rear Axle Weldment =Red=		
2	91160	Grease Zerk	4	
3	9390-323	Capscrew, 1/2"-20UNF x 1" G5	8	

Suspension Components

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

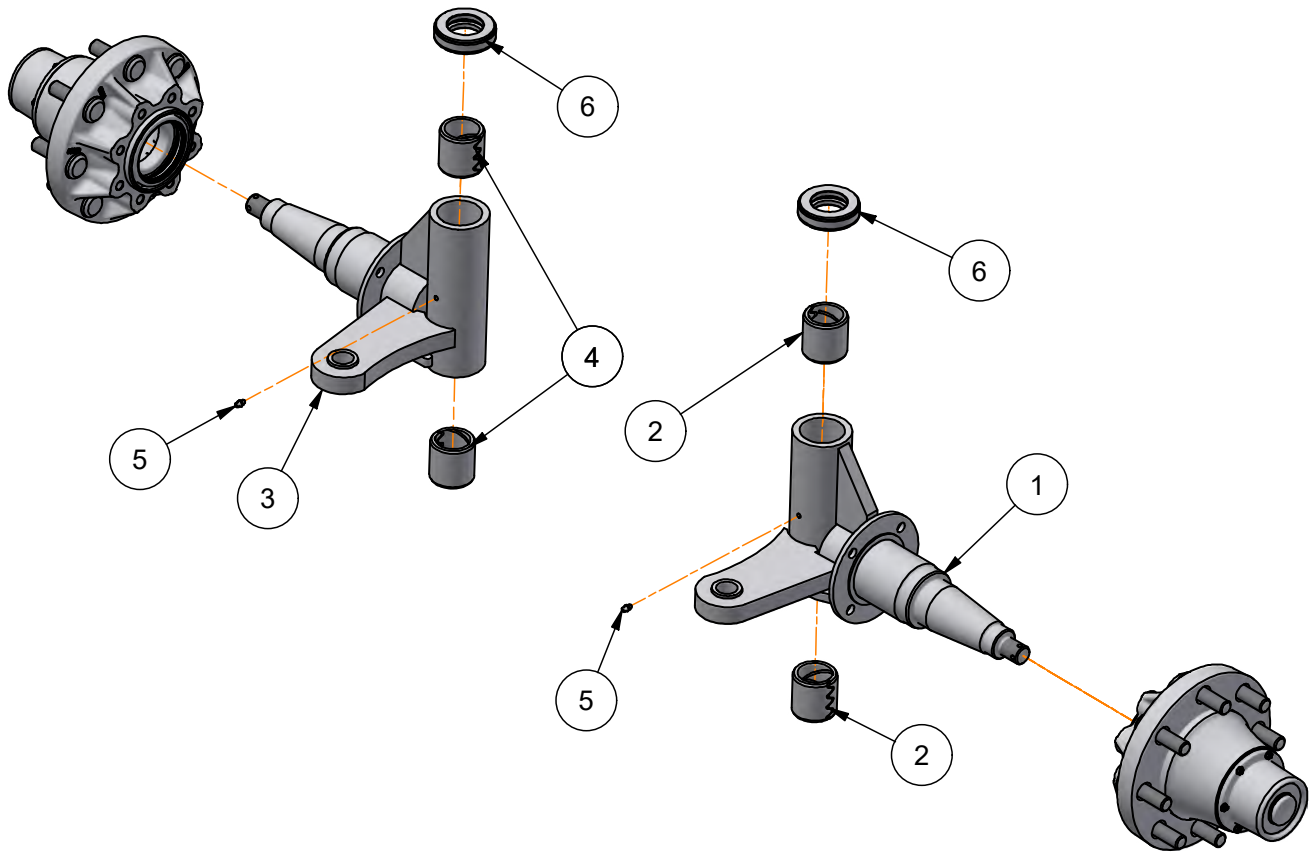


Suspension Components

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

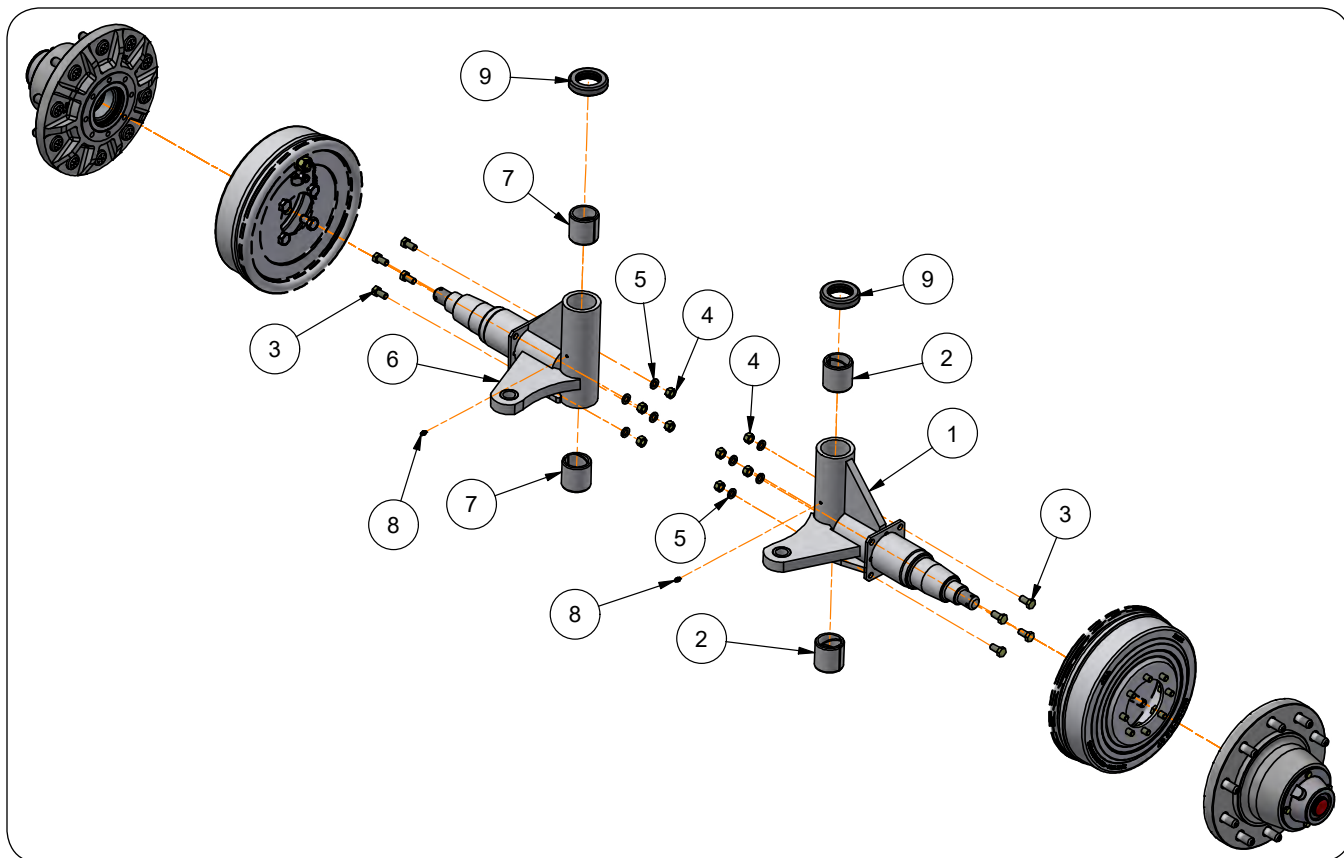
ITEM	PART NO.	DESCRIPTION	QTY	NOTES
1	282876	Hitch Pin, 1" Dia. x 5 1/2"	1	
2	300989B	Rear Link Replacement Kit =Black=	1	Includes item 8
	300989G	Rear Link Replacement Kit =Green=		
	300989R	Rear Link Replacement Kit =Red=		
3	300563	Front Link Weldment	1	
4	300564B	Front Torsion Weldment	1	
5	300568	Pin Weldment	2	
6	300571	Pin - Link Arm	1	
7	300673B	Spring Assembly =Black=	1	
8	300722B	Rear Link Mount Weldment =Black=	2	
9	9006063	Bumper	8	
10	9006455	E-Clip, 1 1/4"	2	
11	9006700	Capscrew, 1/2"-13UNC x 6" G8	1	
12	91192	Retaining Ring, 1"	4	
14	9394-010	Hex Nut, 1/2"-13UNC G5	2	
16	9404-026	Lock Washer, 1/2" EXTRA	1	
18	9405-088	Flat Washer, 1/2" USS	1	
19	9405-128	Flat Washer, 1 1/4" SAE	3	
20	94983	Locknut/Center, 1 1/4"-7UNC	1	

Front Spindle Components - Models 557/557Q



ITEM	PART NO.	DESCRIPTION	QTY	NOTES
1	300687BM	Spindle - LH Front Weldment =Black Metallic=	1	Includes Item 2
	300687G	Spindle - LH Front Weldment =Green=		
	300687R	Spindle - LH Front Weldment =Red=		
	301228	Mounting Brake Plate	1	NOT SHOWN
2	9006088	Split Tension Bushing, 2 1/4" OD x 1 3/4" ID	4	
3	300686BM	Spindle - RH Front Weldment =Black Metallic=	1	Includes Item 4
	300686G	Spindle - RH Front Weldment =Green=		
	300686R	Spindle - RH Front Weldment =Red=		
	301228	Mounting Brake Plate	1	NOT SHOWN
4	9006088	Split Tension Bushing, 2 1/4" OD x 1 3/4" ID	2	
5	91160	Grease Zerk	2	
6	92583	Thrust Bearing, 1 3/4" ID (#E21)	2	

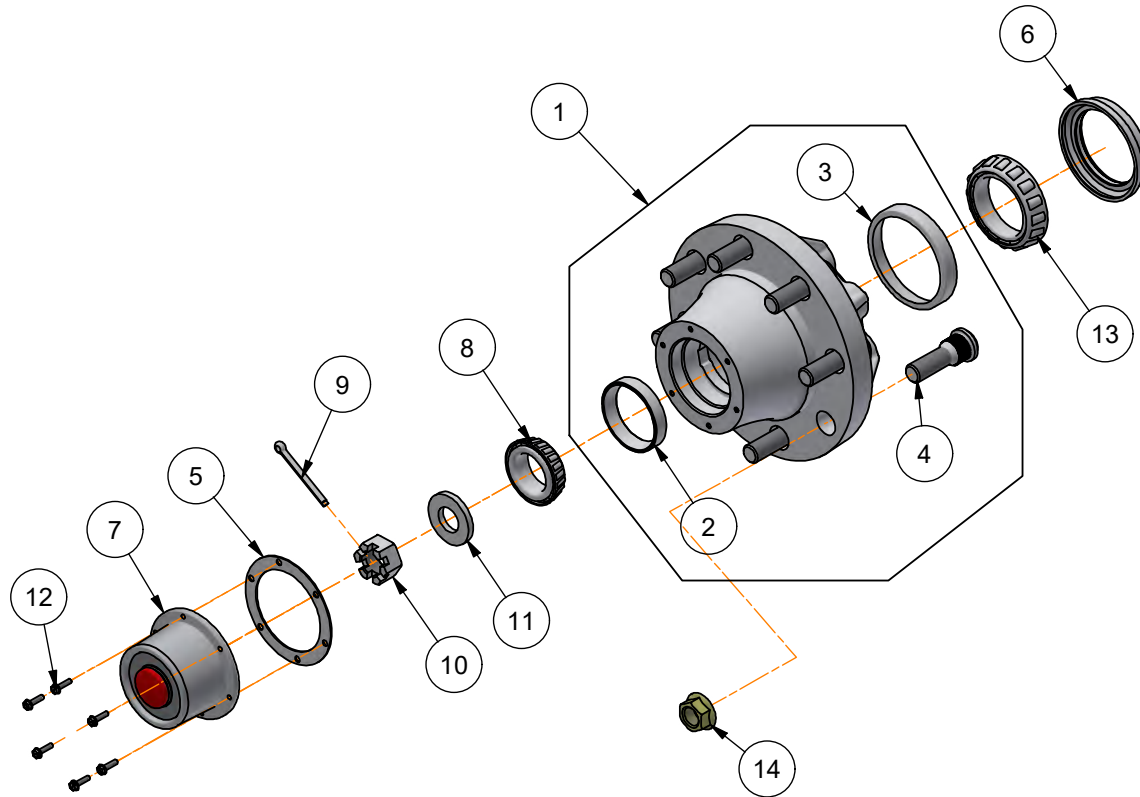
Front Spindle Components - Models 657/657Q/757/757Q



ITEM	PART NO.	DESCRIPTION	QTY	NOTES
1	273701BM	Spindle - LH Front Weldment =Black Metallic=	1	Includes Item 2
	273701G	Spindle - LH Front Weldment =Green=		
	273701R	Spindle - LH Front Weldment =Red=		
2	9006073	Split Tension Bushing	2	
3	9390-323	Capscrew, 1/2"-20UNF x 1" G5	8	
4	9394-009	Hex Nut, 1/2"-20UNF	8	
5	9404-025	Lock Washer, 1/2"	8	
6	273700BM	Spindle - RH Front Weldment =Black Metallic=	1	Includes Item 7
	273700G	Spindle - RH Front Weldment =Green=		
	273700R	Spindle - RH Front Weldment =Red=		
7	9006073	Split Tension Bushing	2	
8	91160	Grease Zerk	2	
9	92433	Thrust Bearing 2"	2	

Hub - Models 557/557Q

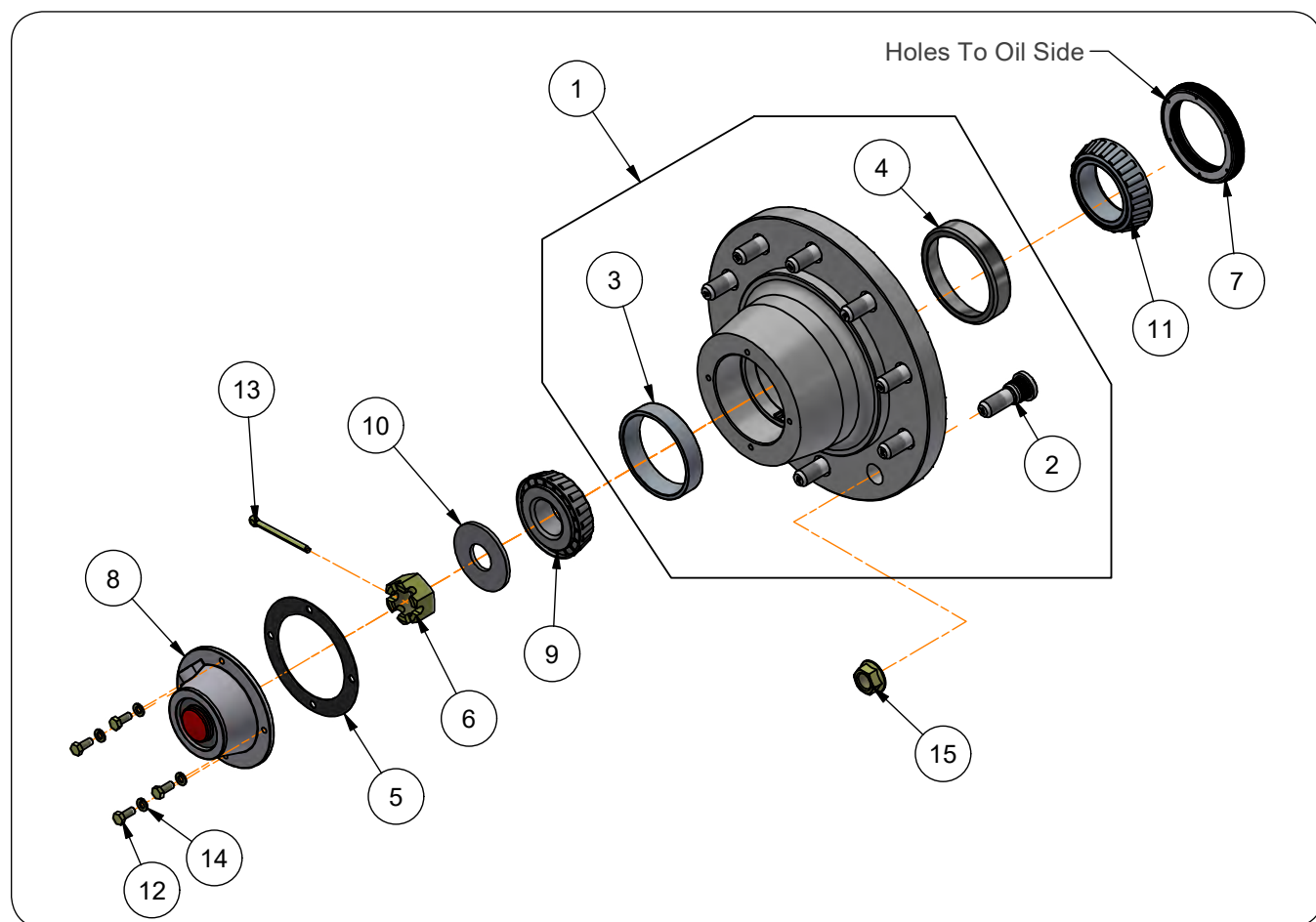
Please visit www.unverferth.com/parts/ for the most current parts listing.



ITEM	PART NO.	DESCRIPTION	QTY	NOTES
	300330B	Hub Assembly Complete =Black=	1	Includes Items 1 through 13
	300330G	Hub Assembly Complete =Green=		
	300330R	Hub Assembly Complete =Red=		
1	300327B	Axle Hub =Black=	1	Includes Items 2, 3, 4
	300327G	Axle Hub =Green=		
	300327R	Axle Hub =Red=		
2	9349	Bearing Cup, 2.891" ID (LM501310)	1	
3	TA39412	Bearing Cup, 4.125" OD (39412)	1	
4	9004943	Stud Bolt, 3/4"-16UNF x 2.75"	8	
5	300328	Gasket, Rubber	1	
6	9006201	Seal - Spindle, Oil Bath	1	
7	9006768	Hub Cap (Oil Bath)	1	
	9006203	O-Ring	1	
	9006204	Plug	1	
8	9247	Bearing Cone, 1.625" Bore (LM501349)	1	
9	9391-061	Cotter Pin, 1/4" x 2 1/2"	1	
10	9393-020	Slotted Nut, 1" UNS G2	1	
11	9448	Washer	1	
12	9500763-034	Machine Screw, #10-24UNC x 3/4"	6	
13	TA37827	Bearing Cone, 2.5" Bore (39250)	1	
14	92458	Wheel Nut, 3/4"-16UNF	8	

Hub - Models 657/657Q/757/757Q

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



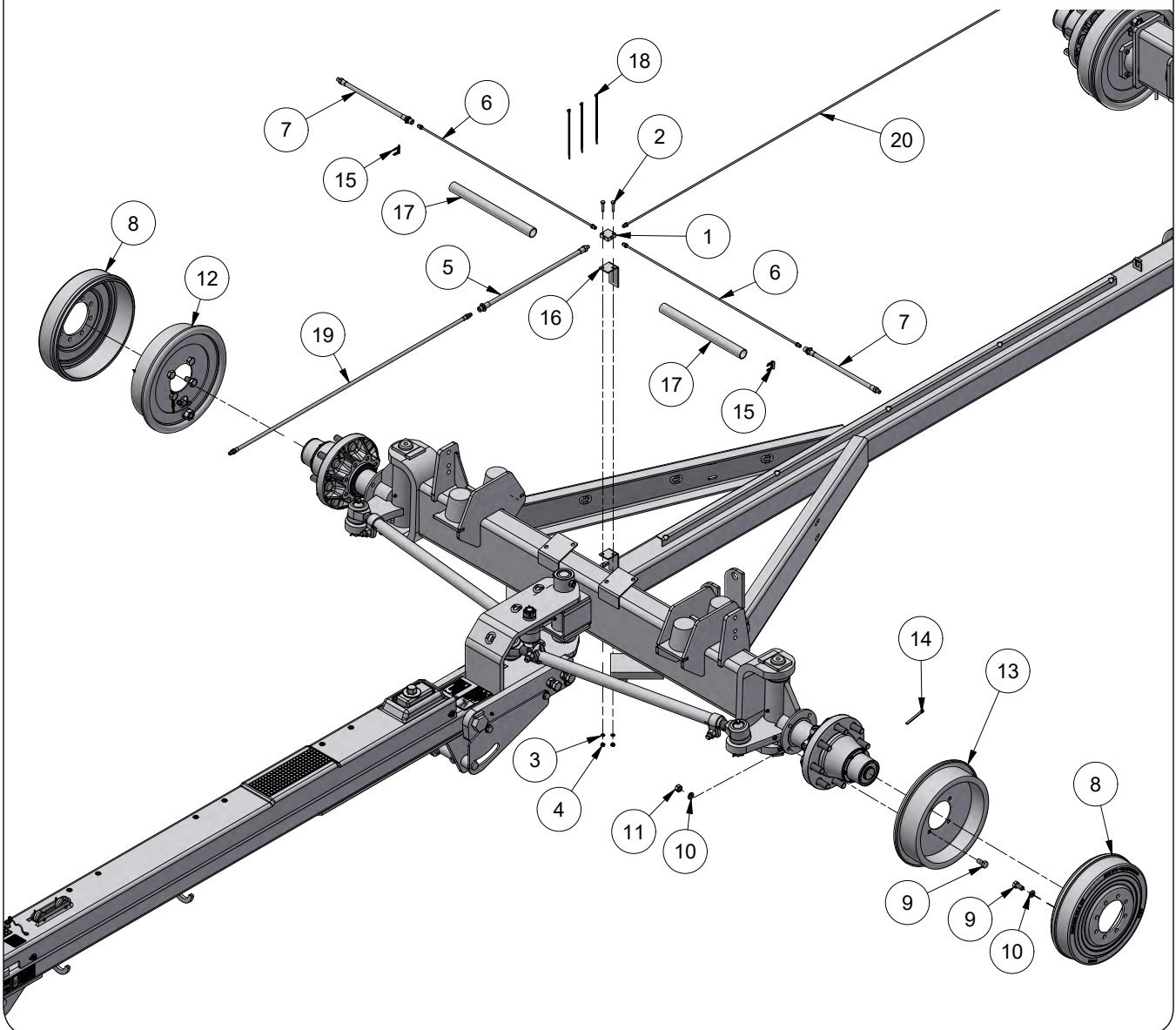
ITEM	PART NO.	DESCRIPTION	QTY	NOTES
1	220416B	Hub Assembly =Black=	1	Includes Items 2, 3, 4
	220416G	Hub Assembly =Green=		
	220416R	Hub Assembly =Red=		
2	92457	Stud Bolt, 3/4"-16UNF x 2 1/2"	10	
3	92461	Bearing Cup, 4 1/4" OD (453A)	1	
4	92475	Bearing Cup, 4.625" OD (33462)	1	
5	284229	Hub Cap Gasket	1	
6	9002721	Slotted Hex Nut, 1 1/4"-12UNF	1	
7	9006086	Seal - Spindle, Oil Bath	1	
8	9006087	Hub Cap - Oil Bath	1	
9	92463	Bearing Cone, 1.75" Bore (460)	1	
10	92471	Spindle Washer	1	
11	92546	Bearing Cone, 2.750" Bore (33275)	1	
12	9390-028	Capscrew, 5/16"-18UNC x 3/4" G5	4	
13	9391-062	Cotter Pin, 1/4" Dia. x 3"	1	
14	9404-019	Lock Washer, 5/16"	4	
15	92458	Wheel Nut, 3/4"-16UNF	10	

Optional Front Brake Components - Models 557/557Q

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



NOTE: Brake shoe anchor bolt must be indexed opposite from the steering arm or towards the rear of the wagon.



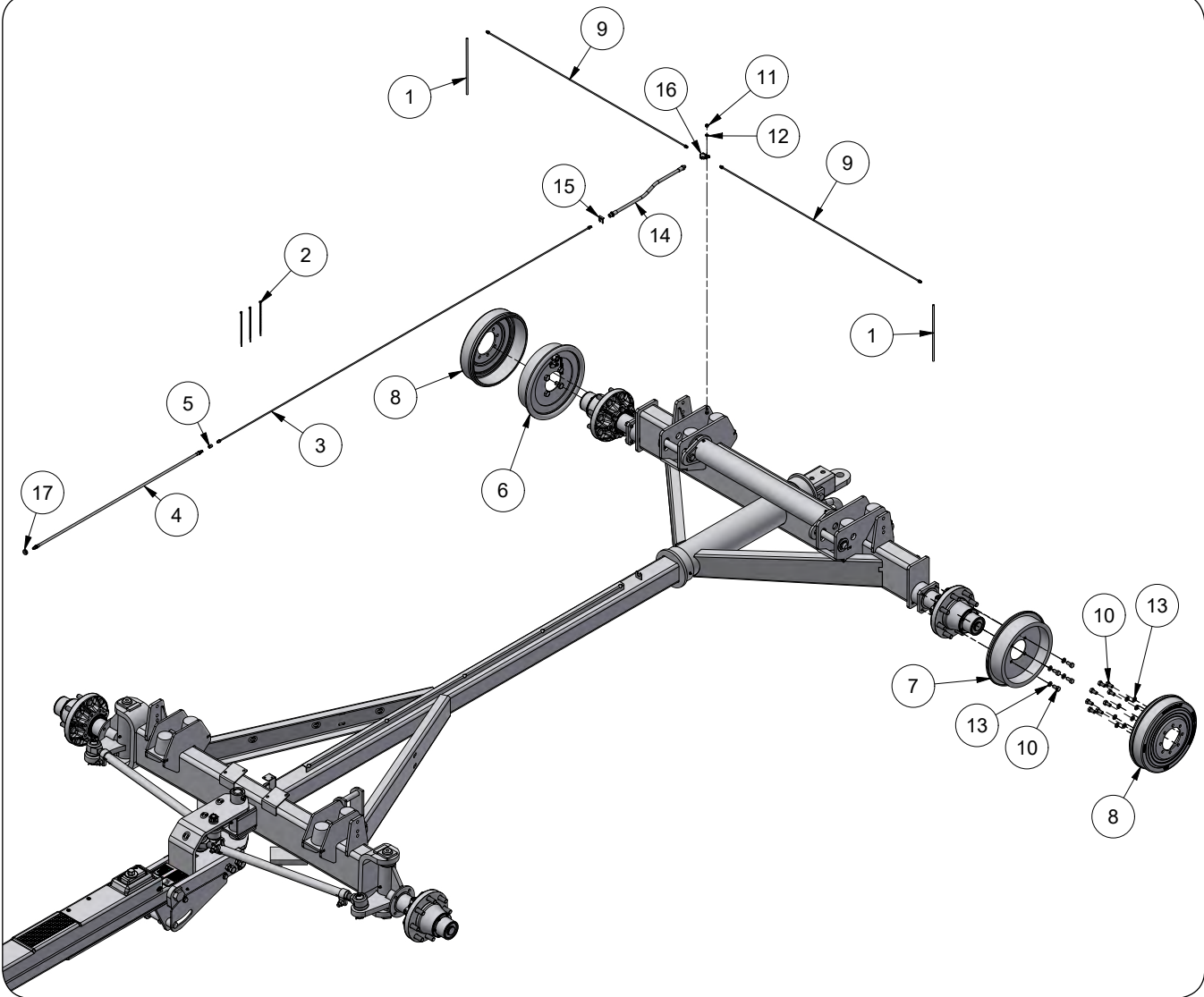
Optional Front Brake Components - Models 557/557Q

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

ITEM	PART NO.	DESCRIPTION	QTY.	NOTES
	300170	Front Brake Package	-	Includes Items 1-17
1	300184	Inverted Flare Cross	1	Inverted Flare
2	9390-006	Capscrew, 1/4"-20UNC x 1 1/4" G5	2	
3	9404-017	Lock Washer, 1/4"	2	
4	9394-002	Hex Nut, 1/4"-20UNC	2	
5	94089	Brake Hose, 18 7/8"	1	Male - Female
6	92568	Brake Line, 30" Bundyweld	2	
7	9461	Brake Hose, 13"	2	
8	9007018	Brake Drum	2	For SN B35780100 and Higher
	92575B			For SN B35780099 and Lower
9	9390-323	Capscrew, 1/2"-20UNF x 1" G5	24	
10	9404-025	Lock Washer, 1/2"	24	
11	9394-009	Hex Nut, 1/2"-20UNF	2	
12	9007016	Brake Cluster, RH	1	Refer to 13" Brake Components Section
13	9007017	Brake Cluster, LH	1	
14	9391-062	Cotter Pin, 1/4" Dia. x 3"	2	
15	9464	Hose Brake Clip	3	
16	300185	Plate, Cross 1 1/2" x 4 3/4"	1	
17	8-405040	Conduit, 1 1/4" Dia. x 14"	2	
18	9000106	Cable Tie, 7 1/2"	AR	
19	9005636	Brake Hose - 42"	1	
20	9001190	Bundyweld Brake Line - 93"	1	

Brake Components - Models 557/557Q

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



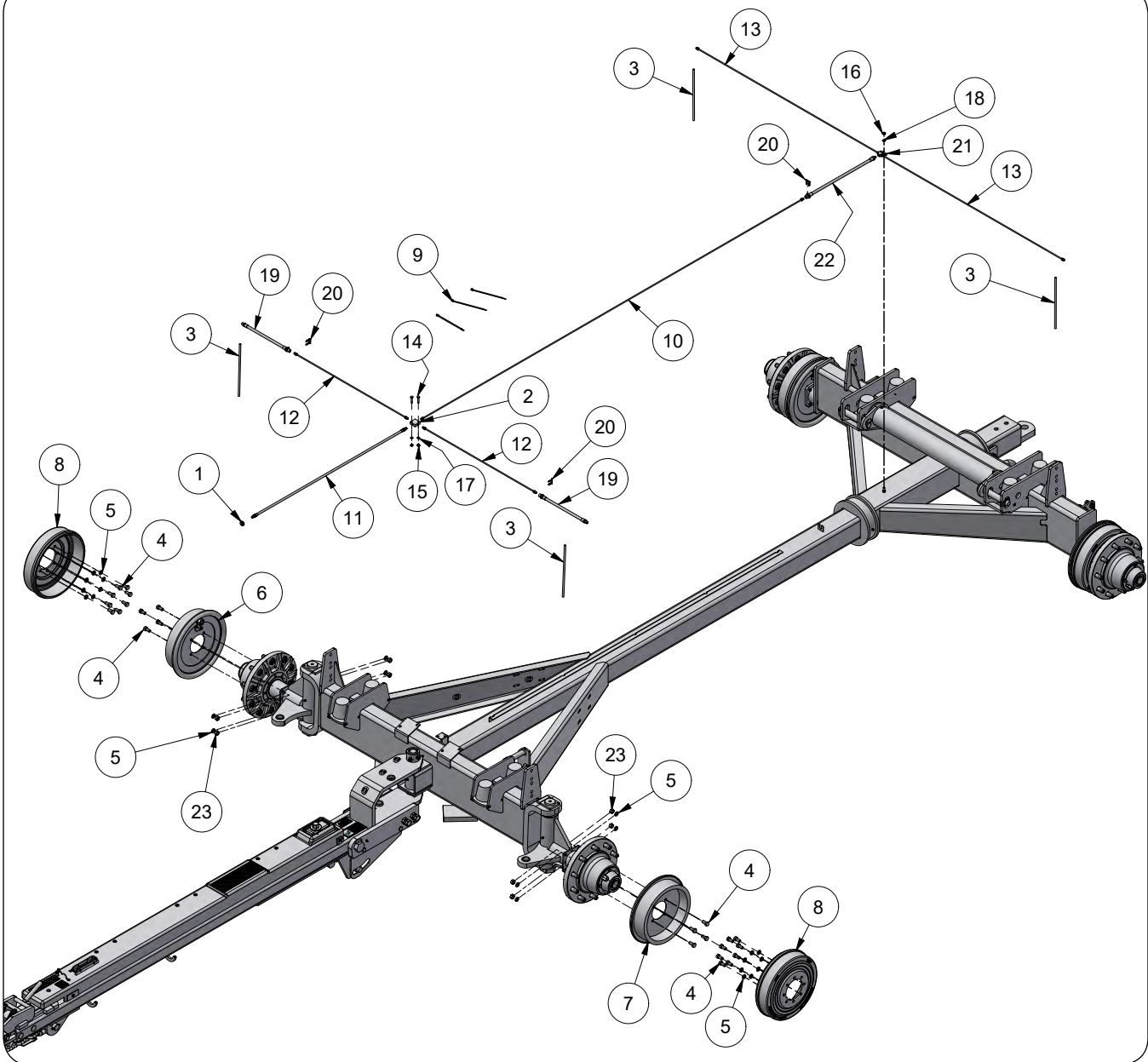
Brake Components - Models 557/557Q

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

ITEM	PART NO.	DESCRIPTION	QTY	NOTES
1	300480	Bleeder Hose - 5/16" Dia. x 12"	2	
2	9000106	Cable Tie, 7 1/2"	AR	
3	9001190	Bundyweld Brake Line - 93"	1	
4	9005636	Brake Hose - 42"	1	
5	9005637	Union, 3/8"-24UNF Inverted Female x 5/8"	1	
6	--	RH Brake Cluster	1	Refer to 13" Brake Components Section
7	--	LH Brake Cluster	1	
8	9007018	Brake Drum	2	Beginning With Serial Number B35780100
	92575B			Prior to Serial Number B35780100
9	92819	Bundyweld Brake Line - 50"	2	
10	9390-323	Capscrew, 1/2"-20UNF x 1" G5	24	
11	9394-004	Hex Nut, 5/16"-18UNC	1	
12	9404-019	Lock Washer, 5/16"	1	
13	9404-025	Lock Washer, 1/2"	24	
14	94089	Hose - Brake	1	
15	9464	Brake Line Clip	1	
16	9465	Tee w/Mounting Bracket	1	
17	9005653	Grommet	1	

Brake Components - Models 657/657Q/757/757Q

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



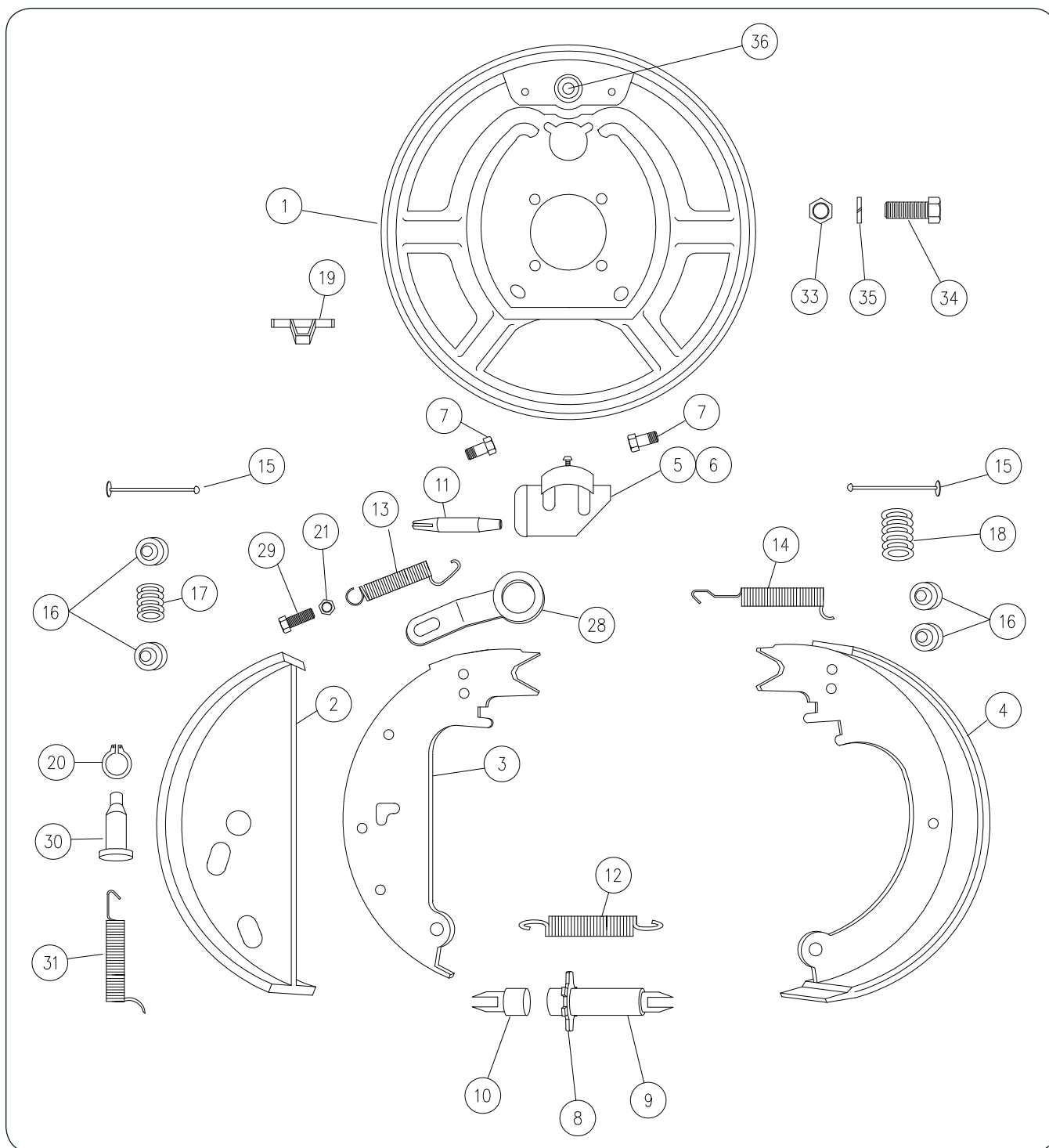
Brake Components - Models 657/657Q/757/757Q

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

ITEM	PART NO.	DESCRIPTION	QTY	NOTES
1	9005653	Grommet	1	
2	300184	Inverted Flare Cross	1	
3	300480	Bleeder Hose - 10	4	
4	9390-323	Capscrew 1/2"-20UNF x 1" G5	48	
5	9404-025	Lock Washer, 1/2"	48	
6	--	RH Brake Cluster	2	Refer to 13" Brake Components Section
7	--	LH Brake Cluster	2	Refer to 13" Brake Components Section
8	9007018	Brake Drum	4	
9	9000106	Cable Tie, 7 1/2"	AR	
10	9005635	Bundyweld Brake Line - 104"	1	
11	9005636	Brake Hose - 42"	1	
12	92568	Bundyweld Tubing	2	
13	92819	Bundyweld Brake Line - 50"	2	
14	9390-006	Capscrew, 1/4"-20UNC x 1 1/4" G5	2	
15	9394-002	Hex Nut, 1/4"-20UNC	2	
16	9394-004	Hex Nut, 5/16"-18UNC	1	
17	9404-017	Lock Washer, 1/4"	2	
18	9404-019	Lock Washer, 5/16"	1	
19	9461	Hose - Brake 13"	2	
20	9464	Brake Line Clip	3	
21	9465	Tee w/Mounting Bracket	1	
22	94089	Brake Hose - 18 7/8"	1	
23	9394-009	Hex Nut, 1/2"-20UNF	16	

13" Brake Components

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



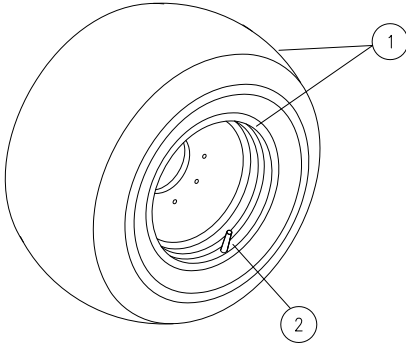
13” Brake Components

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

ITEM	PART NO.	DESCRIPTION	QTY.	NOTES
	9007016	RH Cluster Complete	1	
	9007017	LH Cluster Complete	1	
	91646	Wheel Cylinder Repair Kit	-	
1	91609	Back Plate Assembly	1	
2	91610	Front Brake Shoe Assembly	1	
3	91611	Front Shoe Lever	1	
4	91612	Rear Brake Shoe Assembly	1	
5	91613	Wheel Cylinder Assembly - Right	1	
6	91614	Wheel Cylinder Assembly - Left	1	
7	91615	Screw & Lock Washer	2	
8 & 9	91616	Adjusting Screw & Pivot Nut	1	
10	91618	Socket - Adjusting Screw	1	
11	91619	Push Rod - Wheel Cylinder	1	
12	91620	Spring - Adjusting Screw (yellow)	1	
13	91621	Spring - Front Lever (Red)	1	
14	91622	Spring - Rear Shoe (Orange)	1	
15	91623	Pin - Shoe Hold Down	2	
16	91624	Cup - Shoe Hold Down	4	
17	91625	Spring - Front Hold Down (Yellow)	1	
18	91626	Spring - Rear Hold Down (Black)	1	
19	91627	Cover Plate - Adjusting Hole	1	
20	91628	Retaining Ring (Truarc)	1	
21	93531	Locknut, 5/16"-18UNC	1	
22-27	-	Not Applicable	-	
28	91636	Travel Link	1	
29	9390-027	Travel Link Bolt - Capscrew, 5/16"-18UNC x 5/8"		
30	91639	Pin - Front Shoe	1	
31	91640	Spring - Front Shoe	1	
33	9394-009	Hex Nut, 1/2"-20UNF	4	
34	9390-323	Capscrew, 1/2"-20UNF x 1" G5	4	
35	9404-025	Lock Washer, 1/2"	4	
36	9004072	Stud - Brake Shoe Anchor	1	
	9004073	Lock Washer - Brake Shoe Anchor	1	
	9004074	Nut - Brake Shoe Anchor	1	

Wheels and Tires

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



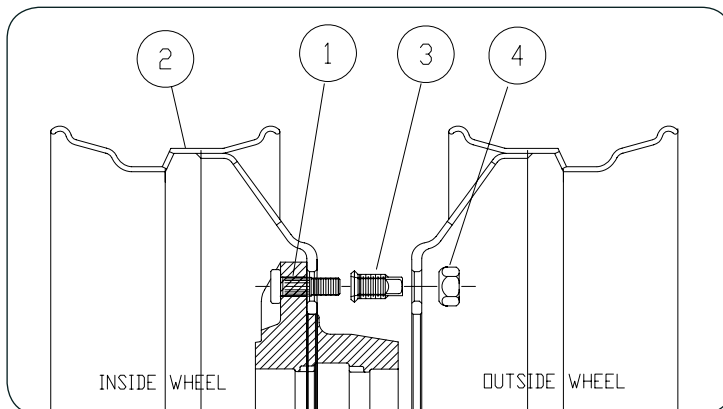
TIRES

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

ITEM	PART NO.	DESCRIPTION	QTY	NOTES
For Models 557/557Q				
1	9004747SM/902563	Wheel & Tire Assembly =Silver Mist=	4	TL460/65R22.5 (New, Mitas)
	17262SM	Wheel & Tire Assembly =Silver Mist=	4	425/65R22.5 (Used)
	17263SM	Wheel & Tire Assembly =Silver Mist=	4	445/65R22.5 (Used)
	17938SM	Wheel & Tire Assembly =Silver Mist=	4	455/55R22.5 (Used)
	9004747SM	Wheel Only =Silver Mist=	4	13 x 22.5 (8 bolt)
For Models 657/657Q				
1	902395SM/99493	Wheel & Tire Assembly =Silver Mist=	4	TL560/60R22.5 (New, Mitas)
	902395SM	Wheel Only =Silver Mist=	4	16 x 22.5
	12770SM	Wheel & Tire Assembly =Silver Mist=	4	TL425/65R22.5 (Used)
	12154SM	Wheel & Tire Assembly =Silver Mist=	4	445/65R22.5 (Used)
	95542SM/902563	Wheel & Tire Assembly =Silver Mist=	4	460/65R22.5 (New, Mitas)
	17514SM	Wheel & Tire Assembly =Silver Mist=	4	TL455/55R22.5 (Used)
	95542SM	Wheel Only =Silver Mist=	4	13 x 22.5 10-Bolt
For Models 757/757Q				
1	902412SM/902566	Wheel & Tire Assembly =Silver Mist=	4	TL600/50R22.5 (New Mitas)
	902412SM	Wheel Only =Silver Mist=	4	20 x 22.5
	902395SM/99493	Wheel & Tire Assembly =Silver Mist=	4	TL560/60R22.5 (New, Mitas)
	902395SM	Wheel Only =Silver Mist=	4	16 x 22.5
	95542SM/902563	Wheel & Tire Assembly =Silver Mist=	4	460/65R22.5 (New, Mitas)
	95542SM	Wheel Only =Silver Mist=	4	13 x 22.5
	12154SM	Wheel & Tire Assembly =Silver Mist=	4	445/65R22.5 (Used)
	17514SM	Wheel & Tire Assembly =Silver Mist=	4	455/55R2.5 (Used)
	110147SM	Wheel & Tire Assembly =Silver Mist=	4	TLVF445/65R22.5 (New, Firestone)
2	93300	Valve Stem	4	

Dual Wheels (Optional)

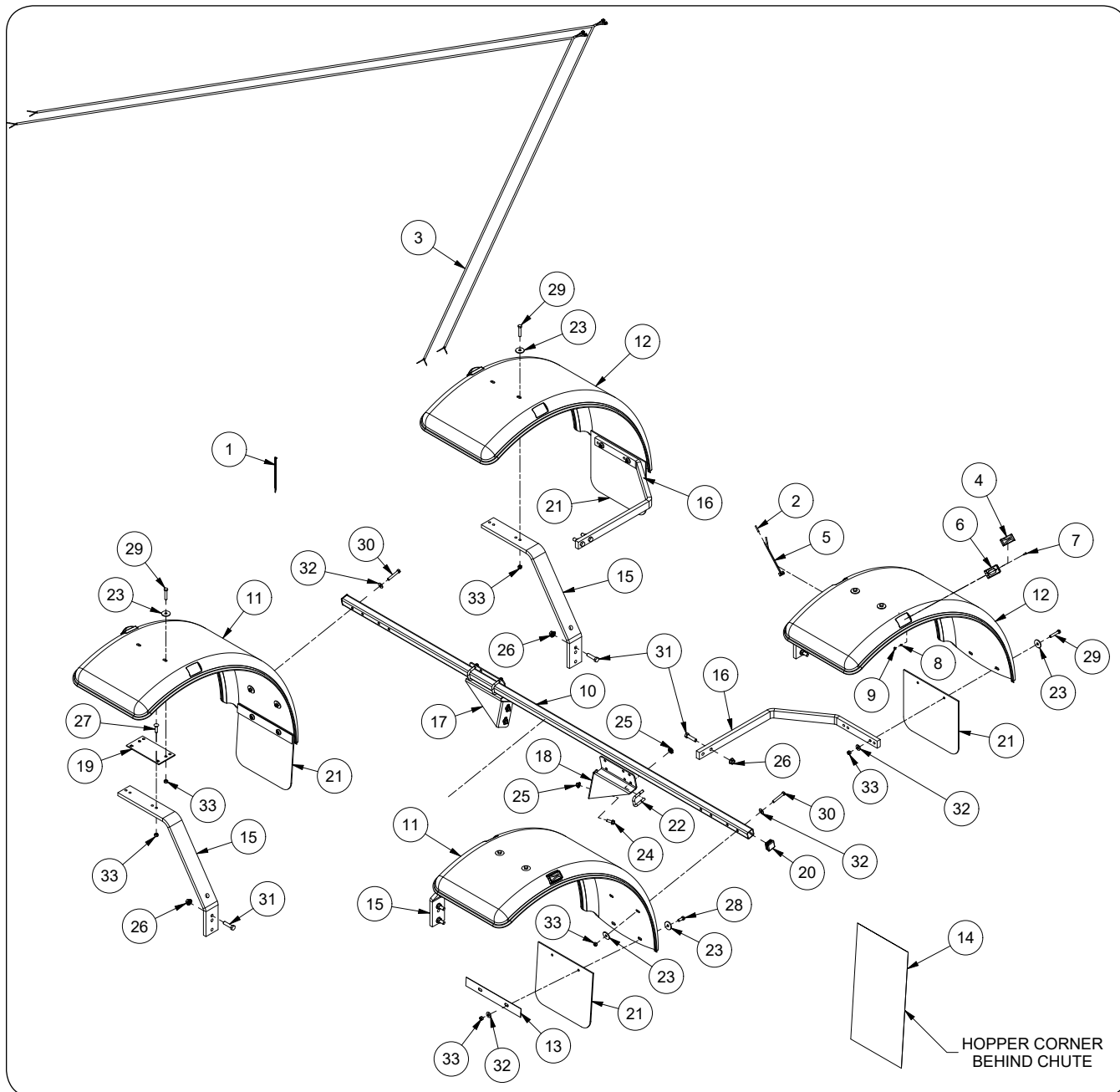
Please visit www.unverferth.com/parts/ for the most current parts listing.



ITEM	PART NO.	DESCRIPTION	QTY.	NOTES
1	92457	Stud Bolt, 3/4"-16UNF x 2 1/2"		Existing
2	9002752/96285	Wheel & Tire Assembly	8	315/80R22.5 (Used)
	9002752	Wheel Only	8	9 x 22.5
3	9001980	Wheel Nut, Inner (3/4"-16UNF Female, 1 1/8"-16UNF Male)	40	
4	9001981	Wheel Nut, Outer (1 1/8"-16UNF)	40	
5	9001990	Valve Stem	8	

**Optional Standard Tire Fender Components
557/557Q/657/657Q/757/757Q w/ Singles**

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



**Optional Standard Tire Fender Components
557/557Q/657/657Q/757/757Q w/ Singles**

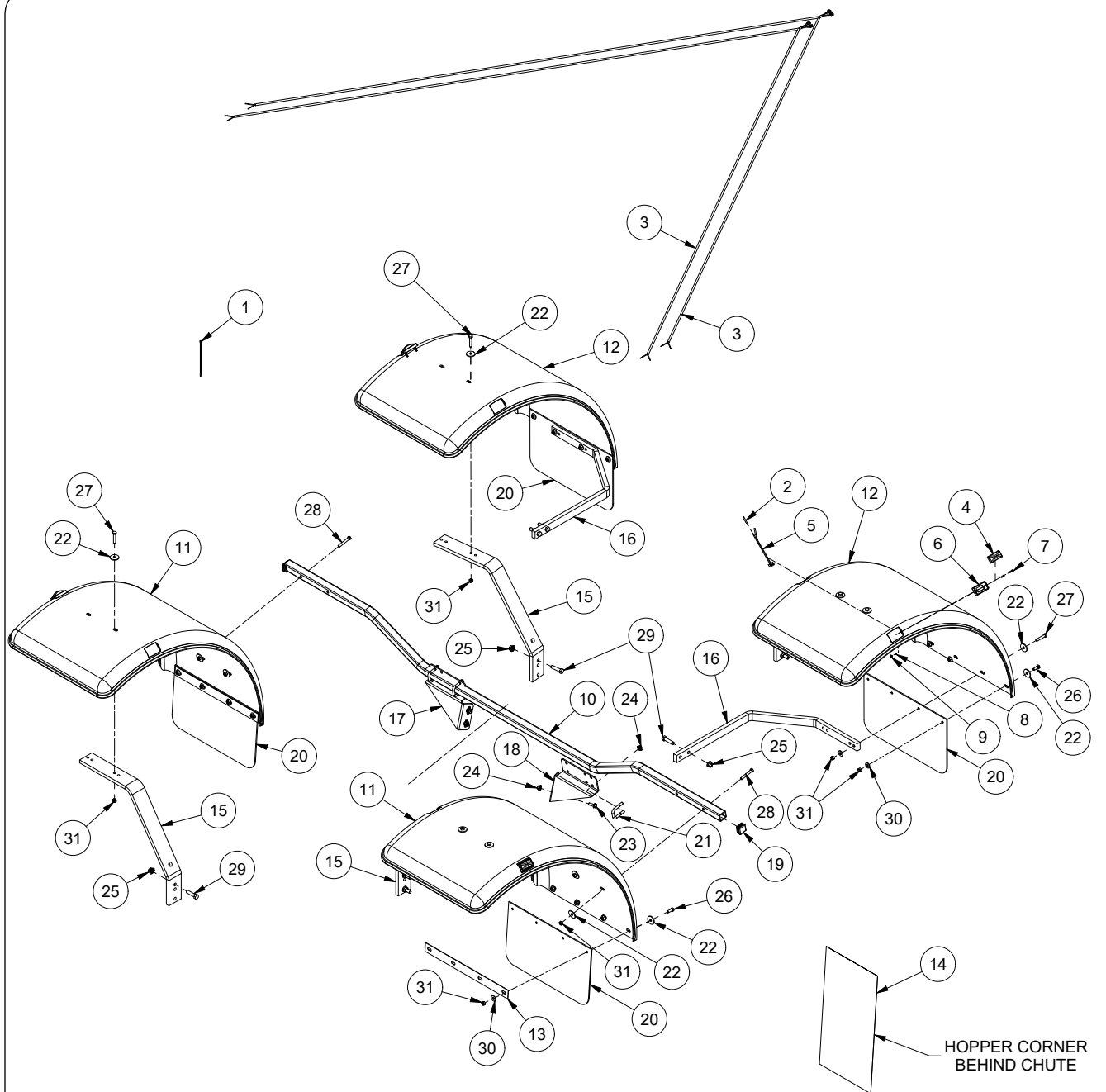
Please visit www.unverferth.com/parts/ for the most current parts listing.

ITEM	PART NO.	DESCRIPTION	QTY	NOTES
	300780B	Fender Kit 500 Bushel Wagons - 13 x 22.5 wheels; 425/65; 460/65; 445/65 Tires 650/750 Bushel Wagons for 425/65; 460/65; 445/65 Tires	1	Includes Items 1-33
	300803	Fender Light Kit	1	Incl. items 1-9
1	9000106	Zip-Tie	AR	
2	9000166	Butt Connector	8	
3	9006184	Harness - Fender Lights	2	
4	9006333	Light - Amber LED	4	
5	9006334	Harness - Pigtail	4	
6	9006335	Bezel Mounting	4	
7	903171-550	Screw-Countersunk Head Slotted, #8-32UNC x 3/4"	8	
8	9404-011	Lock Washer, #8	8	
9	9830-015	Hex Nut, #8-32UNC	8	
10	300671B	Fender Mount Tube	1	
11	9001689	Front Fender	2	
12	9001690	Rear Fender	2	
13	220725B	Back Plate Fender	2	
14	220890	Film - Paint Protection	1	
15	300618B	Fender Plate Weldment	4	
16	300620B	Fender Mount Bar	2	
17	300644B	Bracket - Fender RH	1	
18	300645B	Bracket - Fender LH	1	
19	300672B	Fender Mount Plate	2	
20	9001645	Plug - Plastic	2	
21	9001691	Mud Flap - Rubber	4	
22	91163	U-Bolt, 3/8"-16UNC x 2 1/4", 1 15/16" C/C	4	
23	9005696	Fender Washer, 3/8"	24	
24	91262	Flange Screw, 3/8"-16UNC x 1" G5	4	
25	91263	Nut/Large Flange, 3/8"-16UNC	16	
26	91267	Flange Nut, 1/2"-13UNC	12	
27	9388-053	Carriage Bolt, 3/8"-16UNC x 1 1/2" G5	4	
28	9390-055	Capscrew, 3/8"-16UNC x 1" G5	4	
29	9390-059	Capscrew, 3/8"-16UNC x 2" G5	4	
	9390-057	Capscrew, 3/8"-16UNC x 1 1/2" G5	8	
30	9390-061	Capscrew, 3/8"-16UNC x 2 1/2" G5	4	
31	9390-102	Capscrew, 1/2"-13UNC x 1 3/4" G5	12	
32	9405-076	Flat Washer, 3/8" USS	12	
33	9928	Locknut/Top, 3/8"-16UNC G5	20	

Optional Wide Tire Fender Components

657/657Q/757/757Q w/ Duals & 560/60 and 600/50 Singles

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

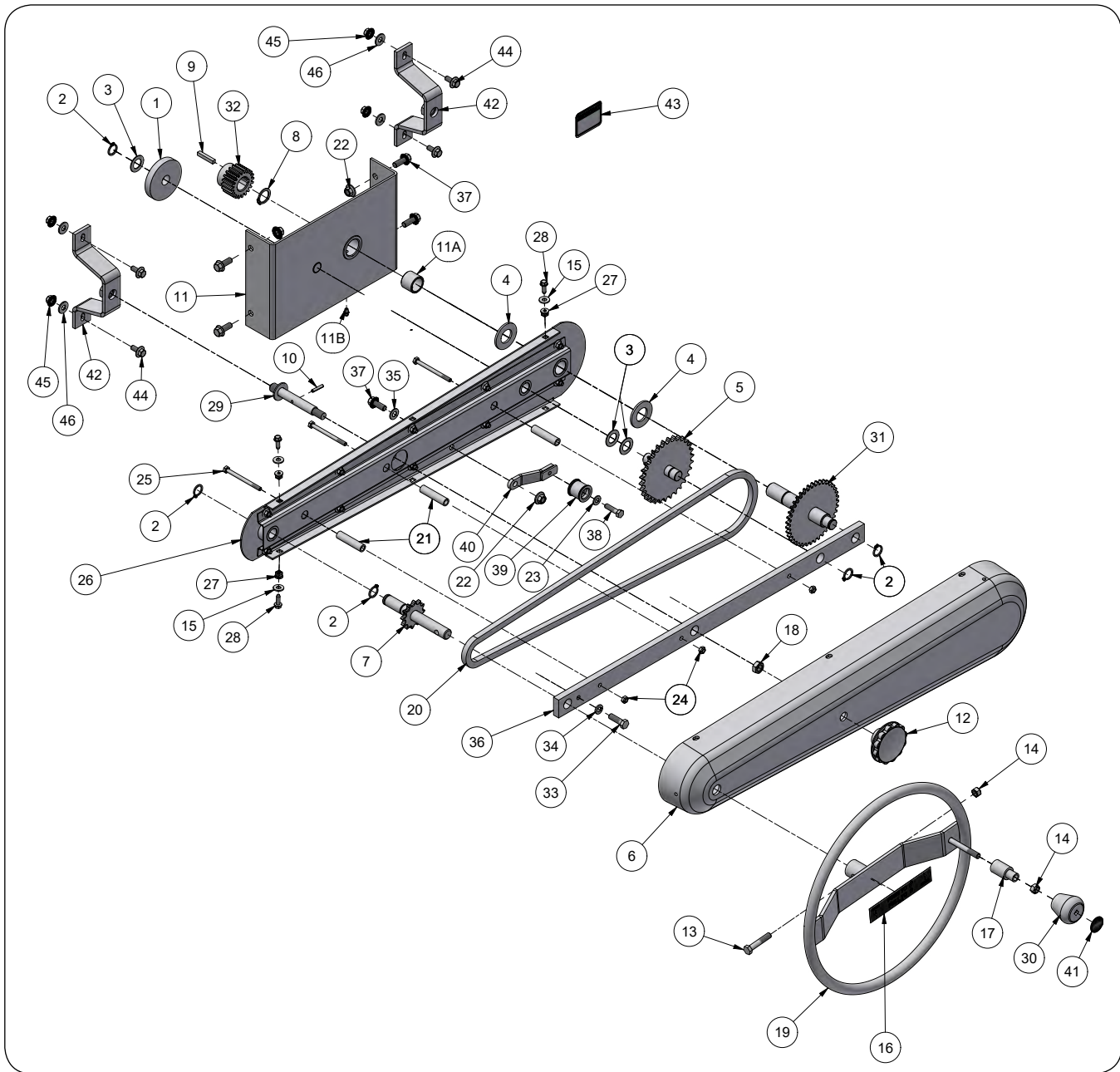


Optional Wide Tire Fender Components
657/657Q/757/757Q w/ Duals & 560/60 and 600/50 Singles
Please visit www.unverferth.com/parts/ for the most current parts listing.

ITEM	PART NO.	DESCRIPTION	QTY	NOTES
	300781B	Fender Kit	1	Includes Items 1-31
	300803	Fender Light Kit	1	Includes Items 1-9
1	9000106	Zip-Tie	AR	
2	9000166	Butt Connector	8	
3	9006184	Harness - Fender Lights	2	
4	9006333	Light - Amber LED	4	
5	9006334	Harness - Pigtail	4	
6	9006335	Bezel Mounting	4	
7	903171-550	Screw-Countersunk Head Slotted, #8-32UNC x 3/4"	8	
8	9404-011	Lock Washer, #8	8	
9	9830-015	Hex Nut, #8-32UNC	8	
10	300625B	Fender Mount Tube	1	
11	220872	Fender - Front	2	
12	220873	Fender - Rear	2	
13	220877B	Dual Back Plate	2	
14	220890	Film - Paint Protection	1	
15	300618B	Fender Plate Weldment	4	
16	300620B	Fender Mount Bar	2	
17	300644B	Bracket - Fender RH	1	
18	300645B	Bracket - Fender LH	1	
19	9001645	Plug - Plastic	2	
20	220874	Dual Mud Flap - Rubber	4	
21	91163	U-Bolt, 3/8"-16UNC x 2 1/4", 1 15/16" C/C	4	
22	9005696	Fender Washer, 3/8"	40	
23	91262	Flange Screw, 3/8"-16UNC x 1" G5	4	
24	91263	Nut/Large Flange, 3/8"-16UNC	12	
25	91267	Flange Nut, 1/2"-13UNC	12	
26	9390-055	Capscrew, 3/8"-16UNC x 1" G5	8	
27	9390-059	Capscrew, 3/8"-16UNC x 2" G5	16	
28	9390-061	Capscrew, 3/8"-16UNC x 2 1/2" G5	4	
29	9390-102	Capscrew, 1/2"-13UNC x 1 3/4" G5	12	
30	9405-076	Flat Washer, 3/8" USS	16	
31	9928	Locknut/Top, 3/8"-16UNC G5	28	

Door Gearbox Assembly Components — Models 557/657/757

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



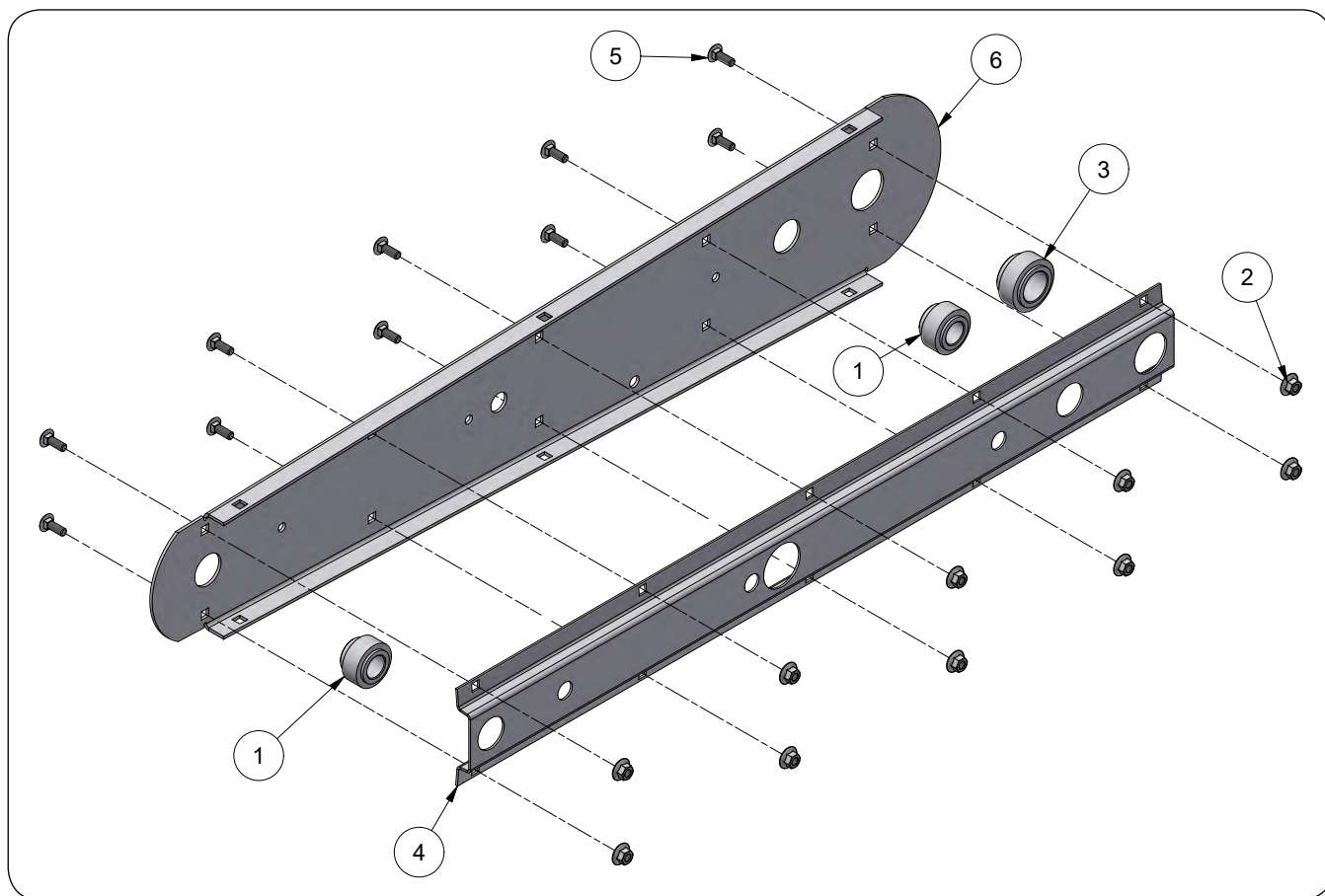
Door Gearbox Assembly Components — Models 557/657/757

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

ITEM	PART NO.	DESCRIPTION	QTY	NOTES
1	9001879	Roller - Plastic, 3 1/16" Dia.	1	
2	9003810	Snap Ring, 3/4"	5	
3	9005685	Machine Washer, 3/4"	3	
4	9405-116	Flat Washer, 1" SAE	2	
5	300888	Shaft & Sprocket Weldment	1	
6	9006398	Cover - Gearbox (Black)	1	
7	300889	Gear & Shaft Weldment	1	
8	91192	Retaining Ring 1"	1	
9	800713	Square Key, 1/4" x 1/4" x 1 1/2"	1	
10	9392-097	Roll Pin, 3/16" Dia. x 1"	1	
11	300874B	Gearbox Mount Weldment =Black=	1	
11A	94930	Bushing - Bronze, 1 1/4" Dia. x 1"	1	
11B	91160	Grease Zerk	1	
12	9000479	Knob	1	
13	9390-059	Capscrew, 3/8"-16UNC x 2" G5	1	
14	9928	Locknut/Top, 3/8"-16UNC	2	
15	9405-064	Flat Washer, 1/4" USS	6	
16	9006428	Decal, Door Lift	1	
17	300904	Bushing, Wheel Ball, 1" Dia. x 2"	1	
18	9395-010	Hex Jam Nut, 1/2"-13UNC	1	
19	300870B	Door Wheel Weldment =Black=	1	
20	9006423	Roller Chain #40 (Single) 120 Links	1	
21	300883B	Spacer Pipe =Black=	2	
22	91263	Nut/Large Flange, 3/8"-16UNC	5	
23	9405-068	Flat Washer, 5/16" SAE	2	
24	9936	Locknut/Top, 1/4"-20UNC	2	
25	9390-014	Capscrew, 1/4"-20UNC x 3 1/4" G5	2	
26	300944B	Gearbox Plate Assembly =Black=	1	
27	9006565	Nylon Insert Screw, 9/16"-18UNC x 3/8"	6	
28	9006564	Self Thread Screw, 1/4"-20UNC x 3/4"	6	
29	300952	Shaft Weldment - Lock	1	
30	9006433	Spinner Knob Assembly	1	
31	300965	Shaft & Sprocket Weldment	1	
32	9001809	Gear-Spur 20 Tooth, Door Opener Gear w/Setscrews	1	
33	9390-056	Capscrew, 3/8"-16UNC x 1 1/4" G5	1	
34	9404-021	Lock Washer, 3/8"	2	
35	9405-074	Flat Washer, 3/8" SAE	1	
36	300984	Poly Bar Replacement Kit	1	Includes Items: 21, 24, 25
37	91262	Flange Screw, 3/8"-16UNC x 1" G5	1	
38	9390-031	Capscrew, 5/16"-18UNC x 1 1/4" G5	1	
39	9007055	Idler Block	1	
40	301168B	Idler Arm Weldment =Black=	1	
41	9008911	Decal, Spinner "BRENT"	1	
42	300950B	Bracket Weldment =Black=	2	
43	9004599	Decal, IMPORTANT "Grease - 2 Shots Monthly	1	
44	91256	Flange Screw, 5/16"-18UNC x 3/4" G5	7	
45	91257	Hex Nut/Large Flange, 5/16"-18UNC	6	
46	9405-070	Flat Washer, 5/16" USS	10	

Gearbox Plate Assembly Components — Models 557/657/757

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



Gearbox Plate Assembly Components — Models 557/657/757

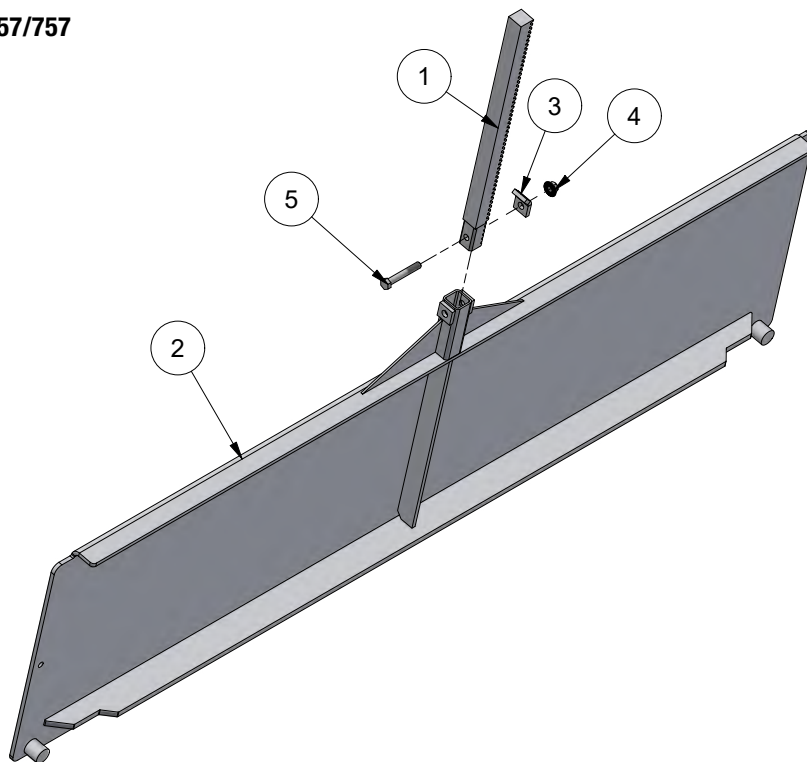
Please visit www.unverferth.com/parts/ for the most current parts listing.

ITEM	PART NO.	DESCRIPTION	QTY	NOTES
	300944B	Gearbox Plate Assembly =Black=	1	
1	9006533	Poly Bushing, 3/4"	2	
2	97189	Large Flange Hex Nut, 1/4"-20UNC G5	10	
3	9006534	Poly Bushing, 1"	1	
4	300946B	Doubler Plate =BLACK=	1	
5	9388-002	Carriage Bolt, 1/4"-20UNC x 3/4" G5	10	
6	300945B	Gearbox Mount =BLACK=	1	

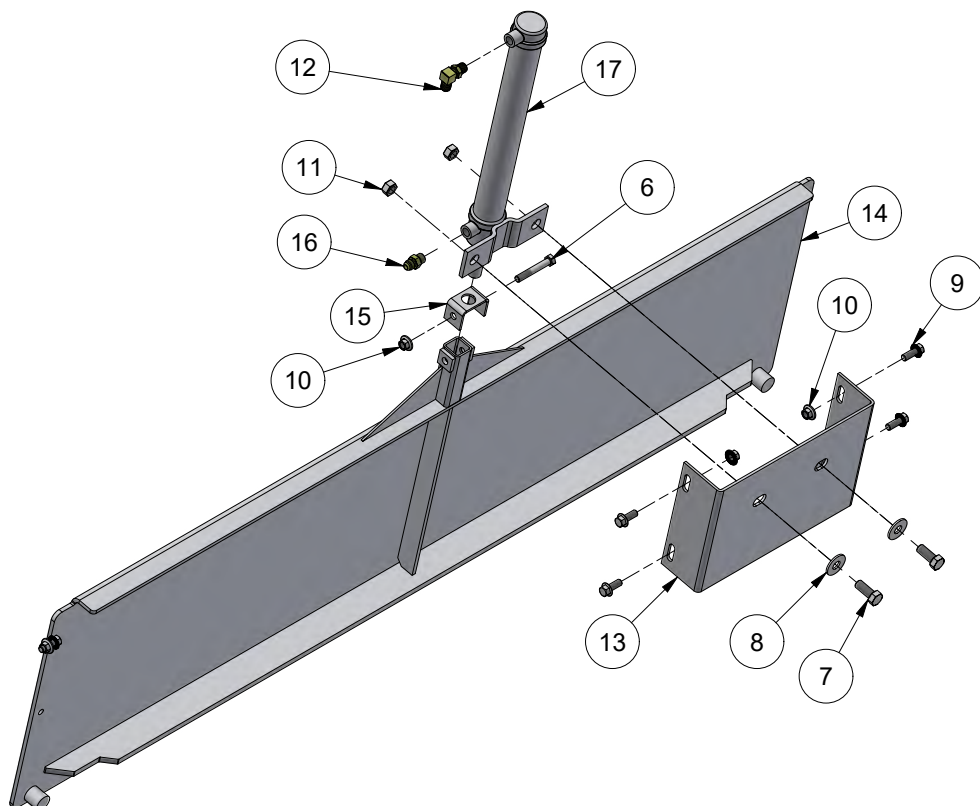
Door Components

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

MODELS 557/657/757



MODELS 557Q/657Q/757Q



Door Components

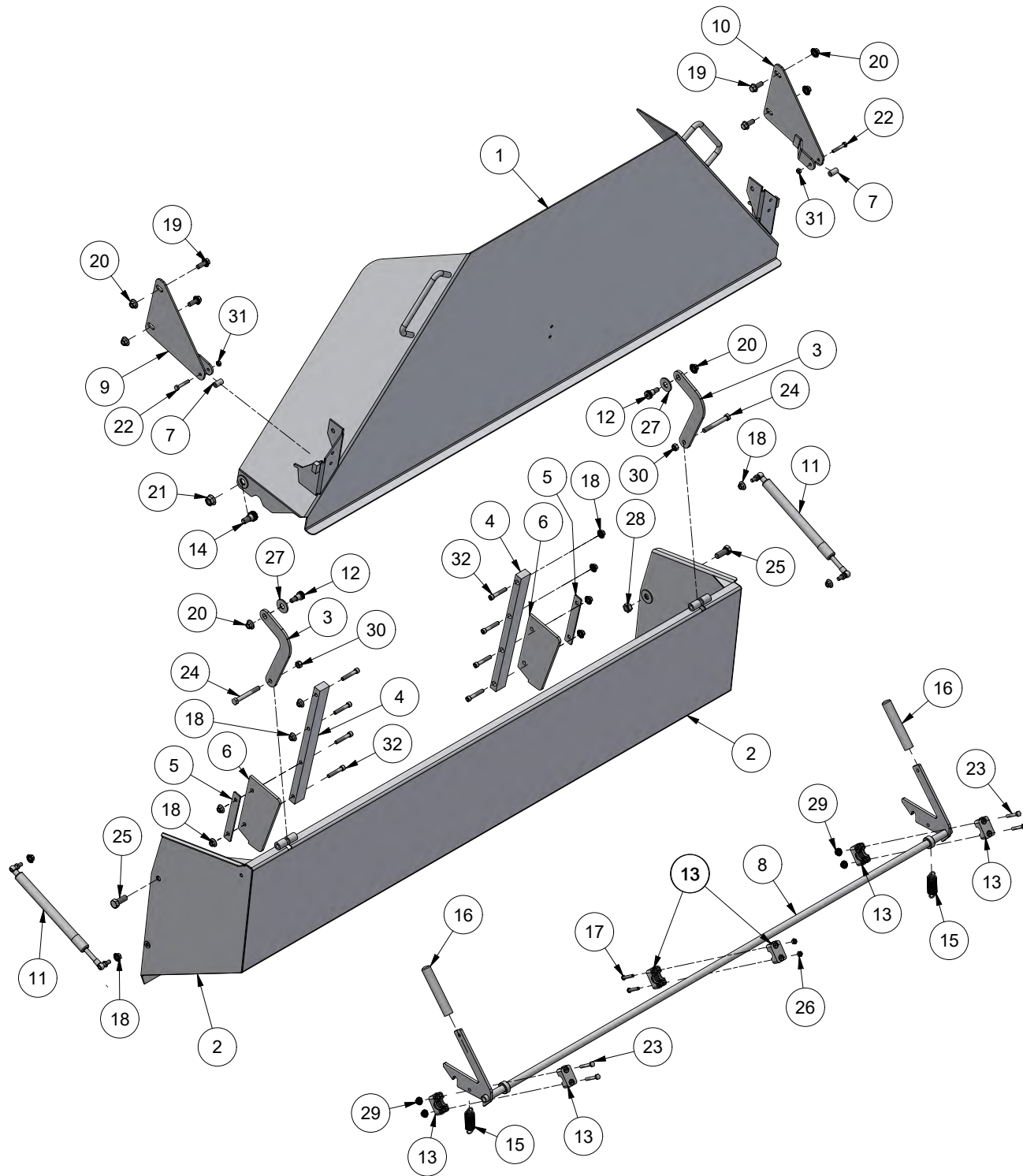
Please visit www.unverferth.com/parts/ for the most current parts listing.

MODELS 557/657/757				
ITEM	PART NO.	DESCRIPTION	QTY	NOTES
1	220033B	Door Rack Bar =Black=	1	
2	273667B	Door Weldment =Black=	1	
3	300968B	Door Stop Bracket =Black=	1	
4	91263	Nut/Large Flange, 3/8"-16UNC	1	
5	9390-061	Capscrew, 3/8"-16UNC x 2 1/2" G5	1	

MODELS 557Q/657Q/757Q				
ITEM	PART NO.	DESCRIPTION	QTY	NOTES
6	273660B	Cylinder Retainer Plate =Black=	1	
7	273667B	Door Weldment =Black=	1	
8	300667B	Cylinder Bracket =Black=	1	
9	9001495	Adapter, 9/16-18 JIC Male x 9/16-18 O-Ring Male	1	
10	9006060	Cylinder, 1 1/2" x 14" (2350PSI)	1	
11	91262	Flange Screw, 3/8"-16UNC x 1" G5	4	
12	91263	Nut/Large Flange, 3/8"-16UNC	5	
13	9390-061	Capscrew, 3/8"-16UNC x 2 1/2" G5	1	
14	9390-121	Capscrew, 5/8"-11UNC x 1 1/4" G5	2	
15	9405-098	Flat Washer, 5/8" SAE	2	
16	9801	Locknut/Top, 5/8"-11UNC	2	
17	97445	90° Elbow, 9/16-18 JIC Male x 9/16-18 O-Ring Male	1	

Chute Assembly

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



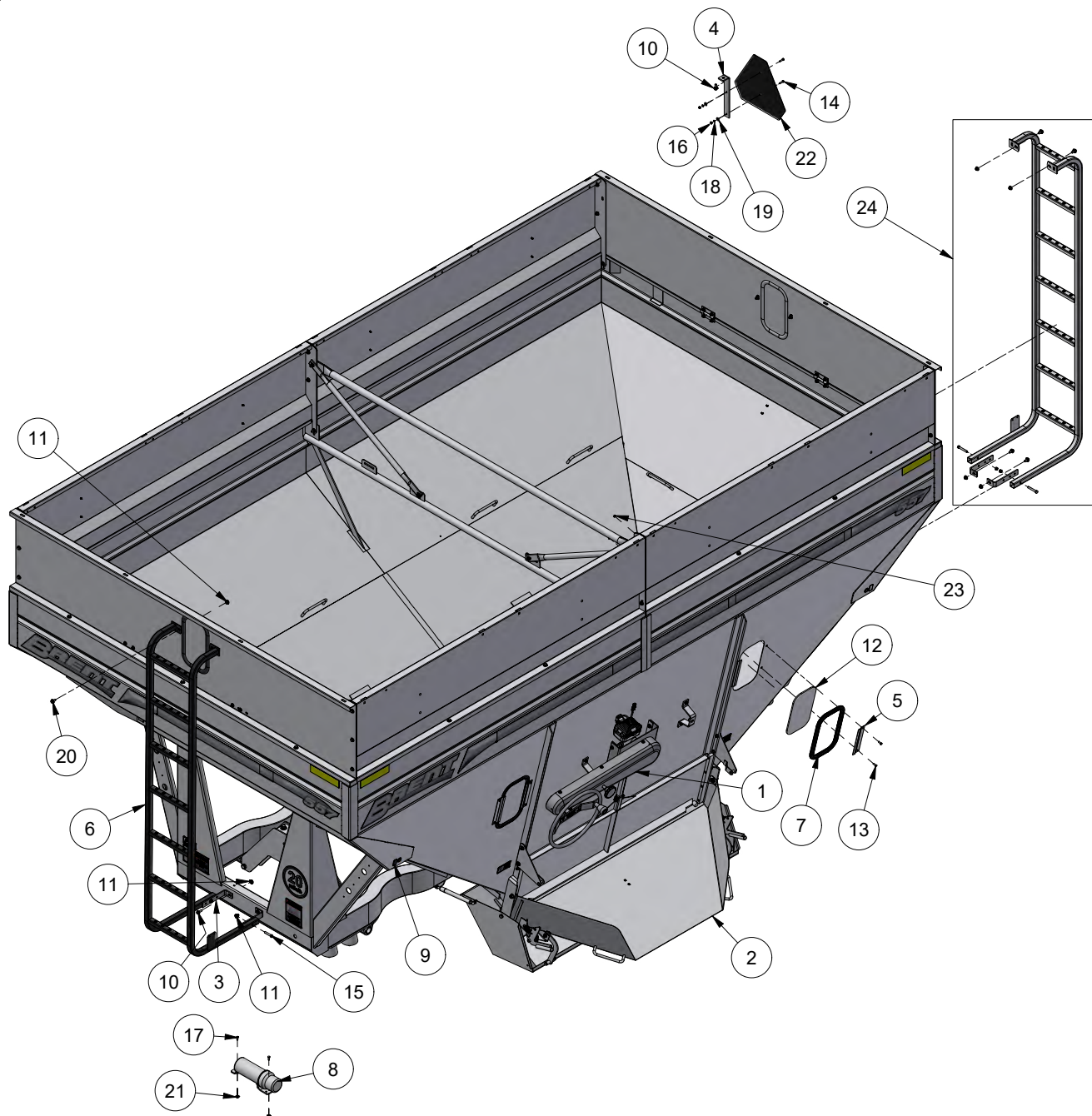
Chute Assembly

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

ITEM	PART NO.	DESCRIPTION	QTY	NOTES
1	273673B	Bottom Chute Weldment =Black=	1	
2	273675B	Kick Back Chute Weldment =Black=	1	
3	273683	Plate - Linkage	2	
4	273686	Door Slide	2	
5	273687B	Deflector Retainer Plate =Black=	2	
6	273692	Deflector - Rubber	2	
7	300661	Bushing - Latch	2	
8	300664B	Latch Tube Weldment =Black=	1	
9	300665B	Latch Bracket Weldment - Right-Hand =Black=	1	
10	300666B	Latch Bracket Weldment - Left-Hand =Black=	1	
11	9006149	Gas Spring	2	
12	9006181	Shoulder Bolt, 1/2" Dia. x 1/2"	2	
13	9006259	Clamp Single Hose (Pair)	3	
14	9006279	Shoulder Bolt - 5/8" Dia. x 3/8"	2	
15	9006328	Spring - Extension	2	
16	9006337	Grip - Handle	2	
17	9006339	Button Head Socket, 1/4"-20UNC x 1 1/2"	2	
18	91257	Hex Nut/Large Flange, 5/16"-18UNC	12	
19	91262	Flange Screw, 3/8"-16UNC x 1" G5	4	
20	91263	Nut/Large Flange, 3/8"-16UNC	6	
21	91267	Flange Nut, 1/2"-13UNC	2	
22	9390-007	Capscrew, 1/4"-20UNC x 1 1/2" G5	2	
23	9390-008	Capscrew, 1/4"-20UNC x 1 3/4" G5	4	
24	9390-063	Capscrew, 3/8"-16UNC x 3" G5	2	
25	9390-100	Capscrew, 1/2"-13UNC x 1 1/4" G5	3	
26	9394-002	Hex Nut, 1/4"-20UNC	2	
27	9405-088	Flat Washer, 1/2" USS	7	
28	94981	Locknut/Center, 1/2"-13UNC	3	
29	97189	Hex Nut/Large Flange 1/4"-20UNC	4	
30	9928	Locknut/Top, 3/8"-16UNC	2	
31	9936	Locknut/Top, 1/4"-20UNC	2	
32	99888-037	Socket Head, 5/16"-18UNC x 1 3/4" G8	8	

Ladder, Windows, Manual Holder & SMV Components

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



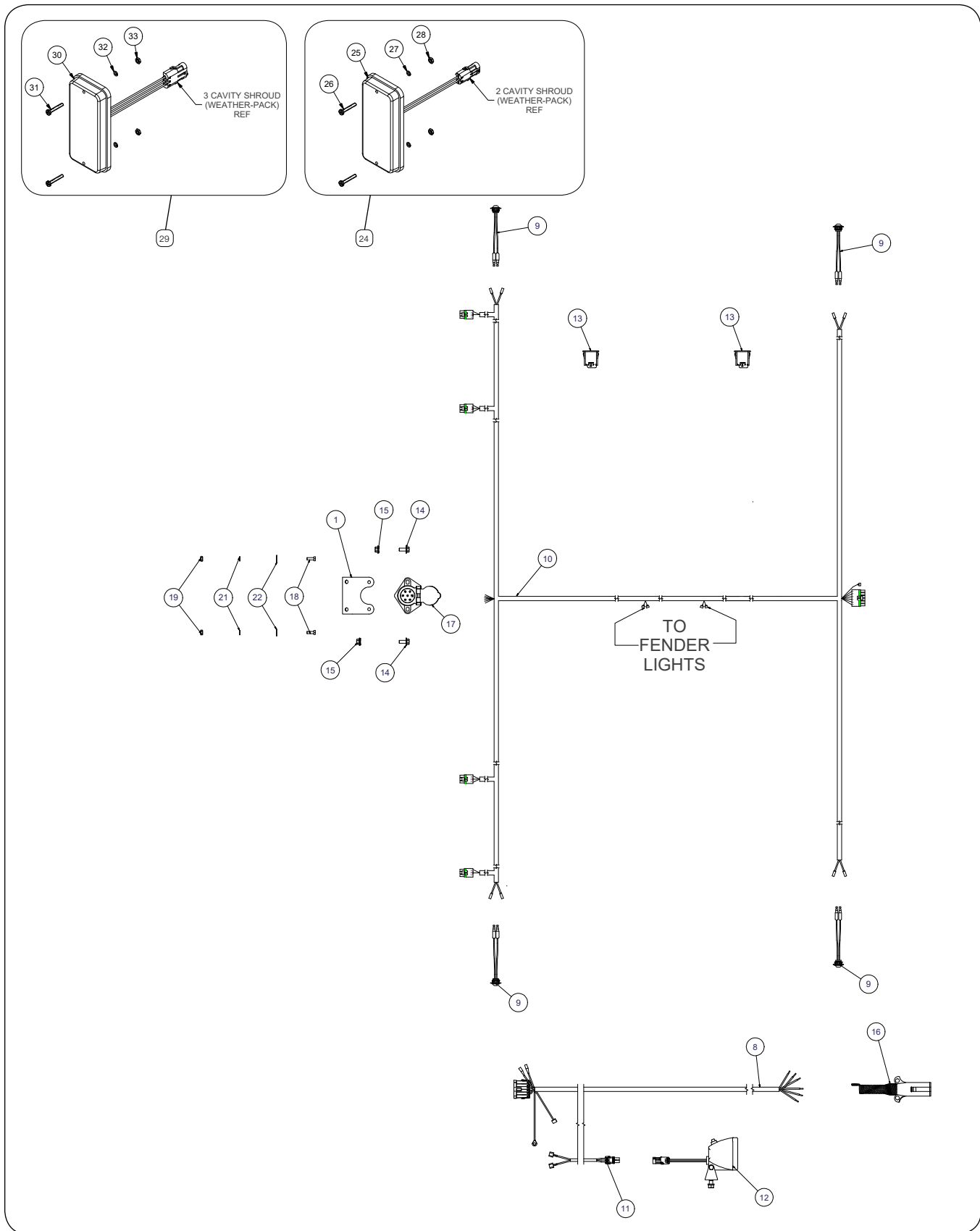
Ladder, Windows, Manual Holder & SMV Components

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

ITEM	PART NO.	DESCRIPTION	QTY	NOTES
1	See Door Components	Door Assembly	1	
2	See Chute Assembly	Chute Assembly	1	
3	220288B	Bracket - Ladder	2	Models 557/557Q/657/657Q
	220287B			Models 757/757Q
4	221243B	Bracket - SMV	1	
5	250461B	Bracket - Window	4	
6	220291B	Ladder Weldment	1	
7	271951	Window Molding	2	
8	900552	Manual Holder	1	
9	9006436	Panel Plug	2	
10	91262	Flange Screw, 3/8"-16UNC x 1" G5	2	
11	91263	Nut/Large Flange, 3/8"-16UNC	4	
12	92403	Window, Glass	2	
13	9390-003	Capscrew, 1/4"-20UNC x 3/4" G5	8	
14	9390-005	Capscrew, 1/4"-20UNC x 1" G5	2	
15	9390-059	Capscrew, 3/8"-16UNC x 2" G5	2	
16	9394-002	Hex Nut, 1/4"-20UNC	2	
17	903174-535	Phillips Machine Screw, 1/4"-20UNC x 3/4" Truss Head	2	
18	9404-017	Lock Washer, 1/4"	2	
19	9405-064	Flat Washer, 1/4" USS	4	
20	95585	Capscrew/Large Flange, 3/8"-16UNC x 3/4" G5	2	
21	97189	Hex Nut/Large Flange, 1/4"-20UNC	2	
22	TA510514	SMV Emblem	1	
23	9936	Locknut/Top, 1/4"-20UNC	8	
24	220684	Ladder Bracket Assembly Option	1	Models 557/557Q/657/657Q
	220560			Models 757/757Q

Electrical Components

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

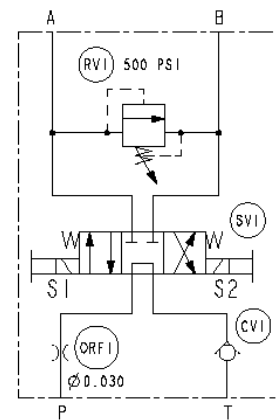
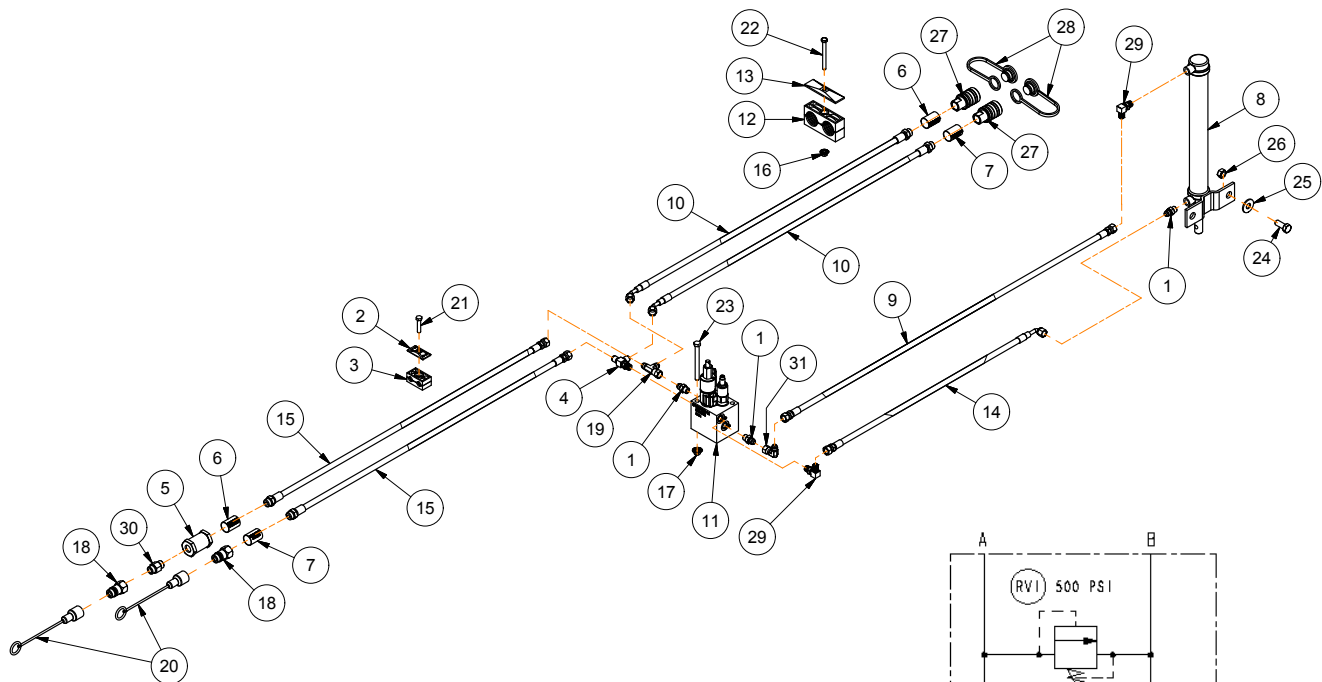


Electrical Components

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

ITEM	PART NO.	DESCRIPTION	QTY.	NOTES
1	221527B	Bracket - Socket	1	
8	9006066	Wire Harness 218"	1	
9	9006107	Amber Light - Micro Dot, LED	4	
10	9006393	Wire Harness - Rear, Wagon	1	Models 557/557Q
	9006253			Models 657/657Q/757/757Q
11	9006330	Wire Harness, 170" - Chute	1	
12	301213	Work Light Replacement Kit	1	
13	9006436	Panel Plug	2	
14	91256	Flange Screw, 5/16"-18UNC x 3/4" G5	2	
15	91257	Hex Nut/Large Flange, 5/16"-18UNC	2	
16	92450	7-Way Plug	1	
17	92824	Socket 7-Way w/ Split Pins	1	
18	9390-003	Capscrew, 1/4"-20UNC x 3/4" G5	4	
19	9394-002	Hex Nut, 1/4"-20UNC G5	2	
21	9404-017	Lock Washer, 1/4"	3	
22	9405-064	Flat Washer, 1/4" USS	2	
24	232168	LED Light Conversion Kit (Amber)	2	
25	9006281	Tail Light, LED Amber (2-Cavity Shroud)	1	
26	903172-350	Phillips Machine Screw, #10-32UNF x 1 1/4"	2	
27	9404-013	Lock Washer, #10	2	
28	9830-016	Hex Nut, #10-32UNF G2	2	
29	232170	LED Light Conversion Kit (Red)	2	
30	9006282	Tail Light, LED Red (3-Cavity Shroud)	1	
31	903172-350	Phillips Machine Screw, #10-32UNF x 1 1/4"	2	
32	9404-013	Lock Washer, #10	2	
33	9830-016	Hex Nut, #10-32UNF G2	2	

Hydraulic Components



VALVE BLOCK SCHEMATIC

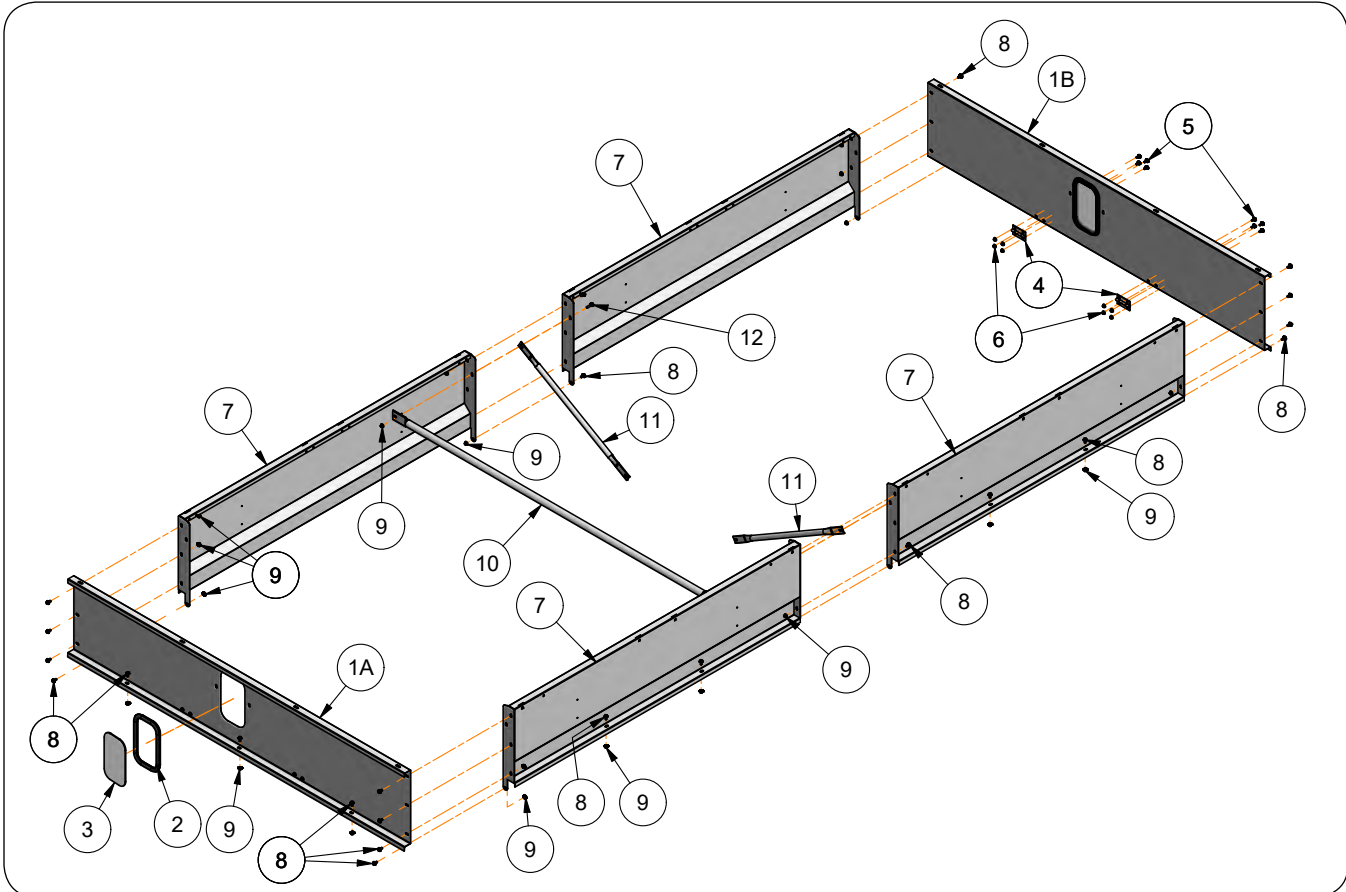
P - HYDRAULIC PRESSURE
T - HYDRAULIC RETURN
A - CYLINDER EXTEND
B - CYLINDER RETRACT

Hydraulic Components

ITEM	PART NO.	DESCRIPTION	QTY.	NOTES
1	9001495	Adapter, 9/16-18 JIC Male x 9/16-18 O-Ring Male	3	
2	9003814	Clamp Top Plate, 1 1/8" x 2 1/16"	6	
3	9003816	Clamp/Double Hose, 0.55" Dia.	6	
4	9004064	Tee, 9/16-18 JIC Male x 9/16-18 O-Ring Male x 9/16-18 JIC Male	1	
5	9005403	120 Micron Hydraulic Filter	1	
6	9005982	Hose Marker Sleeve, Hydraulic Press (RED)	2	
7	9005983	Hose Marker Sleeve, Hydraulic Return (RED)	2	
8	9006060	Cylinder Welded, 1 1/2" x 14"	1	
9	9006062	Hose, 1/4" x 170" Hydraulic 3000 PSI (9/16-18 JIC Female x 9/16-18 JIC Female)	1	657Q/757Q - Use 9006407 for 557Q
10	9006067	Hose, 1/4" x 164" Hydraulic 3000 PSI (45° Elbow Short 9/16-18 JIC Female x 3/4-16 O-Ring Male)	2	657Q/757Q - Use 9006407 for 557Q
11	9006100	Valve Manifold - Wagon Door	1	
12	9006189	Clamp Double Hose (Pair)	1	
13	9006190	Top Plate - Clamp Pair	1	
14	9006191	Hose, 1/4" x 154" Hydraulic 3000 PSI (90° Elbow Short 9/16-18 JIC Female x 9/16-18 JIC Female)	1	657Q/757Q - Use 9006406 for 557Q
15	9006329	Hose, 1/4" x 180" Hydraulic 3000 PSI (9/16-18 JIC Female x 3/4-16 O-Ring Male)	2	557Q/657Q/757Q
16	91257	Hex Nut/Flange Nut, 5/16"-18UNC	1	
17	91263	Nut/Large Flange, 3/8"-16UNC	2	
18	91383	Male Tip Coupling, 3/4-16 O-Ring Female Threaded	2	
19	91465	Tee, 9/16-18 JIC Male x 9/16-18 JIC Female x 9/16-18 JIC Male	1	
20	91511	Dust Cap/ISO Coupler	2	
21	9390-032	Capscrew, 5/16"-18UNC x 1 1/2" G5	6	
22	9390-039	Capscrew, 5/16"-18UNC x 3 1/4" G5	1	
23	9390-067	Capscrew, 3/8"-16UNC x 4" G5	2	
24	9390-100	Capscrew, 1/2"-13UNC x 1 1/4" G5	2	
25	9405-088	Flat Washer, 1/2" USS	2	
26	94981	Locknut/Center, 1/2"-13UNC	2	
27	97286	Coupler-Pioneer, 3/4-16 O-Ring Female	2	
28	97287	Dust Plug	2	
29	97445	90° Elbow, 9/16-18 JIC Male x 9/16-18 O-Ring Male	2	
30	98508	Adapter, 3/4-16 O-Ring Male x 3/4-16 O-Ring Male	1	
31	9876	90° Elbow, 9/16-18 JIC Male x 9/16-18 JIC Female	1	

Sideboard Components - Models 557/557Q

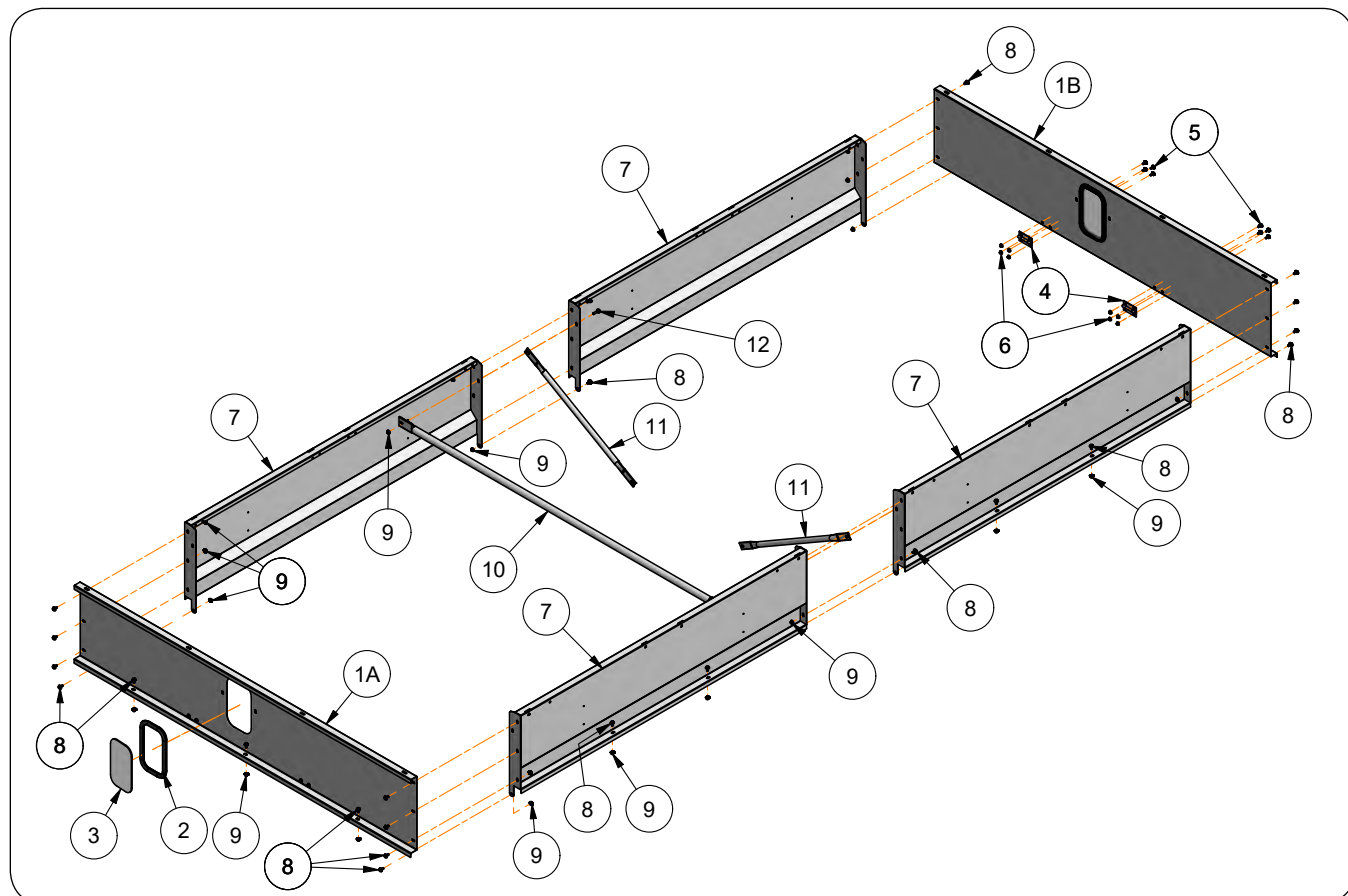
Please visit www.unverferth.com/parts/ for the most current parts listing.



ITEM	PART NO.	DESCRIPTION	QTY	NOTES
1A	221519	Rear Board, Left-Hand Chute Kit / Front Board, Right-Hand Chute Kit	1	20 3/8" Tall (Includes Items 2 - 6)
1B	221520	Rear Board, Right-Hand Chute Kit / Front Board, Left-Hand Chute Kit	1	20 3/8" Tall (Includes Items 2 - 6)
2	250431	Window Molding	2	
3	92403	Window	2	
4	9004626	Hinge	4	
5	91256	Flange Screw, 5/16"-18UNC x 3/4" G5	16	
6	91257	Hex Nut/Large Flange, 5/16"-18UNC	16	
7	221343B	Side Board, Front & Rear	4	20 3/8" Tall
8	95585	Capscrew/Large Flange, 3/8"-16UNC x 3/4" G5	40	
9	91263	Nut/Large Flange, 3/8"-16UNC	40	
10	221340B	Side Board Support	1	103 3/4" Long
11	220032B	Side Board Support	2	39 7/8" Long
12	95785	Flange Screw, 3/8"-16UNC x 1 1/2" G5	2	

Sideboard Components - Models 657/657Q

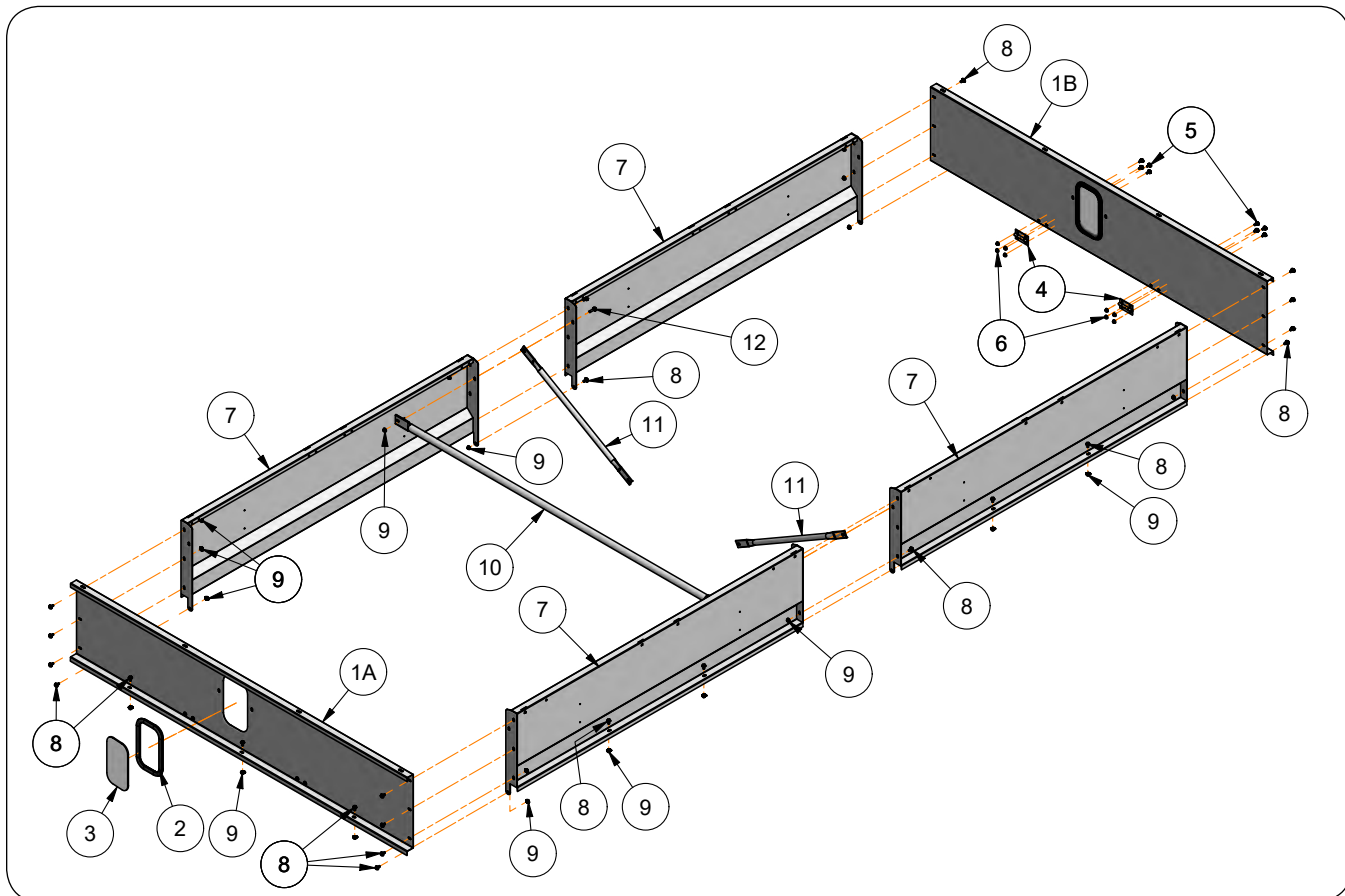
Please visit www.unverferth.com/parts/ for the most current parts listing.



ITEM	PART NO.	DESCRIPTION	QTY	NOTES
1A	221521	Rear Board, LH Chute	1	24 3/8" Tall (Includes Items 2 - 6)
1B	221522	Rear Board, RH Chute	1	24 3/8" Tall (Includes Items 2 - 6)
2	250431	Window Molding	2	
3	92403	Window	2	
4	9004626	Hinge	4	
5	91256	Flange Screw, 5/16"-18UNC x 3/4" G5	16	
6	91257	Hex Nut/Large Flange, 5/16"-18UNC	16	
7	221345B	Side Board, Front & Rear	4	24 3/8" Tall
8	95585	Capscrew/Large Flange, 3/8"-16UNC x 3/4" G5	40	
9	91263	Nut/Large Flange, 3/8"-16UNC	44	
10	221340B	Side Board Support	1	103 3/4" Long
11	220032B	Side Board Support	2	39 7/8" Long
12	95785	Flange Screw, 3/8"-16UNC x 1 1/2" G5	2	

Sideboard Components - Models 757/757Q

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



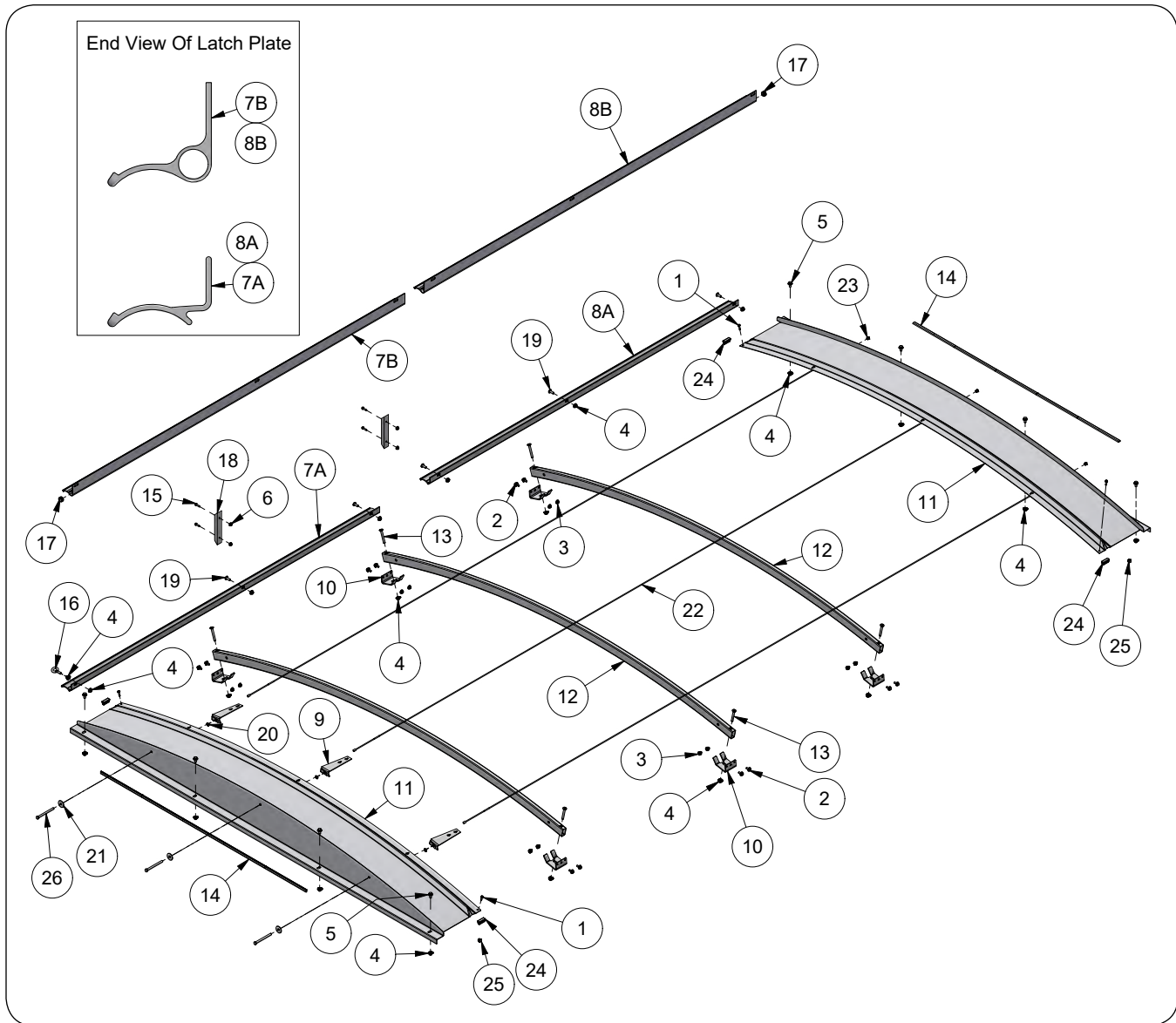
Sideboard Components - Models 757/757Q

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

ITEM	PART NO.	DESCRIPTION	QTY	NOTES
1A	221523	Rear Board, LH Chute	1	24 3/8" Tall (Includes Items 2 - 6)
1B	221524	Rear Board, RH Chute	1	24 3/8" Tall (Includes Items 2 - 6)
2	250431	Window Molding	2	
3	92403	Window	2	
4	9004626	Hinge	4	
5	91256	Flange Screw, 5/16"-18UNC x 3/4" G5	16	
6	91257	Hex Nut/Large Flange, 5/16"-18UNC	16	
7	221347B	Side Board, Front & Rear	4	24 3/8" Tall
8	95585	Capscrew/Large Flange, 3/8"-16UNC x 3/4" G5	40	
9	91263	Nut/Large Flange, 3/8"-16UNC	44	
10	221371B	Side Board Support	1	110 1/2" Long
11	220032B	Side Board Support	2	39 7/8" Long
12	95785	Flange Screw, 3/8"-16UNC x 1 1/2" G5	2	

Weather Guard Tarp Frame Components - Models 557/557Q

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



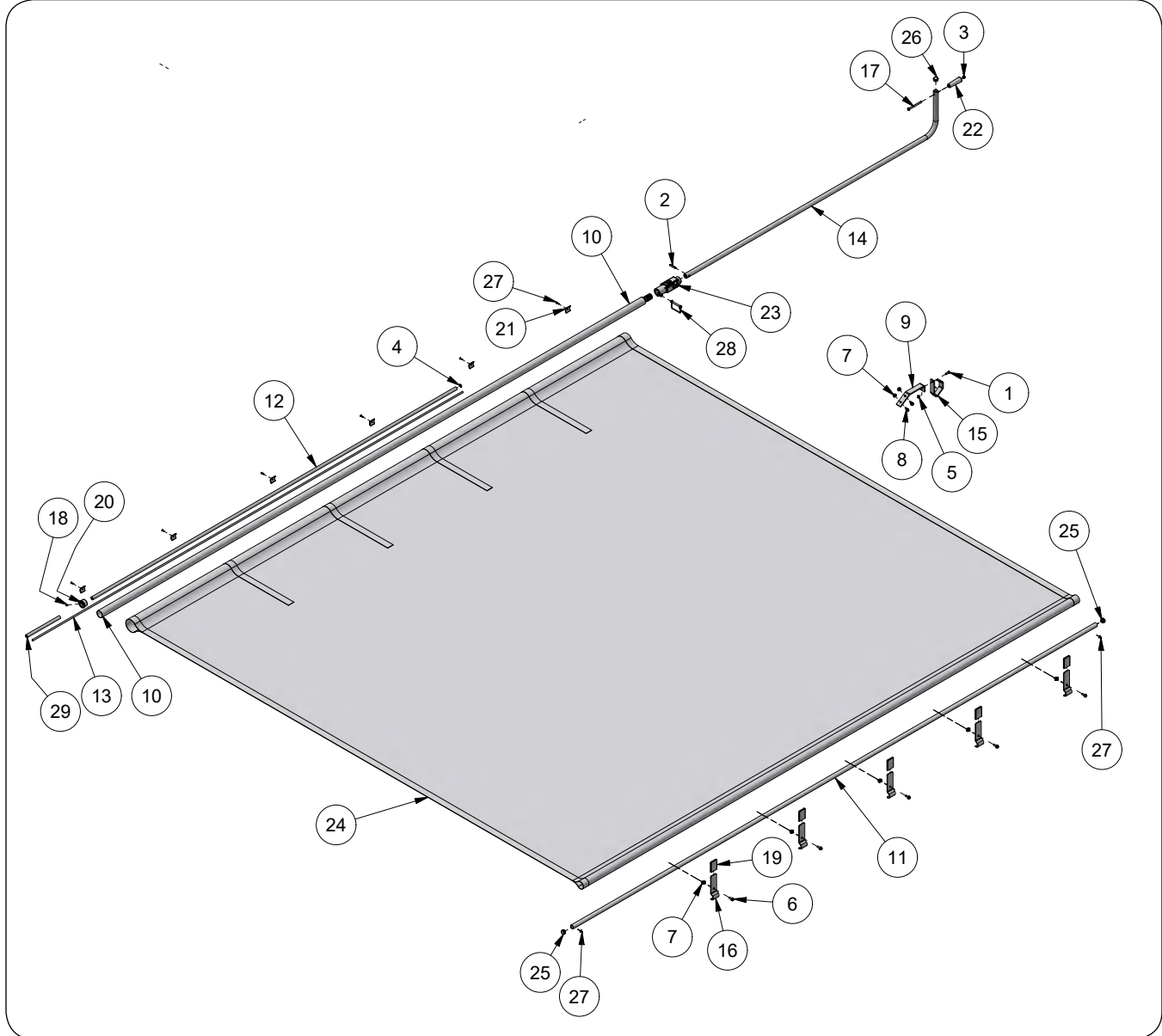
Weather Guard Tarp Frame Components - Models 557/557Q

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

ITEM	PART NO.	DESCRIPTION	QTY	NOTES
	221637	Tarp Kit w/End Caps	-	
1	9512	Screw/Self Drilling, 1/4-14 x 1" Hex Washer Head	4	
2	91256	Flange Bolt, 5/16"-18UNC x 3/4" G5	12	
3	91257	Nut/Large Flange, 5/16"-18UNC	12	
4	91263	Nut/Large Flange, 3/8"-16UNC	29	
5	95585	Capscrew/Large Flange, 3/8"-16UNC x 3/4" G5	8	
6	97189	Hex Nut/Large Flange, 1/4"-20UNC	4	
7A	296836	Plate - Latch 90" (Front)	1	Replacement Service Kit #297794 Includes Front & Rear Latch Plates
7B	221780			
8A	296837	Plate - Latch 90" (Rear)	1	Replacement Service Kit #297794 Includes Front & Rear Latch Plates
8B	221781			
9	281712B	Bracket & U-Nut Assembly	3	
10	283425B	Bracket For Side Boards/Tarp Bow Weldment	6	
11	300494B	End Cap Weldment (Front & Rear) =Black=	2	
12	301208B	Tarp Bow Weldment =Black=	3	
	301210B	Tarp Bow Replacement Kit	1	Includes One Tarp Bow & Items 2, 3, 4, 10, 13
13	902703-046	Socket Flat Countersunk Capscrew, 3/8"-16UNC x 3"	6	
14	9000787	Trim-lok	A/R	
15	9004355	Screw, 1/4"-20UNC x 1" (Self-Threading)	4	
16	9004548	Eye Bolt, 3/8"-16UNC x 1 3/4"	1	
17	9004968	Plug 1"	2	Used with Items 7B & 8B
18	9005307	Deflector	2	
19	9005312	Truss Screw, 3/8"-16UNC x 1" Torx Head Machine Screw G5	5	
20	9005688	Lock Washer, 3/8" External Tooth	4	
21	9005696	Fender Washer, 3/8"	4	
22	9005708	Cable Assembly, 163"	3	
23	9005727	Plug, 7/16"	3	
24	9009793	Plug, Rectangular	4	
25	9009796	Plug, Square	2	
26	TA0-907131-0	Capscrew, 3/8"-16UNC x 4 1/2" G5	4	

Weather Guard Tarp Components - Models 557/557Q

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

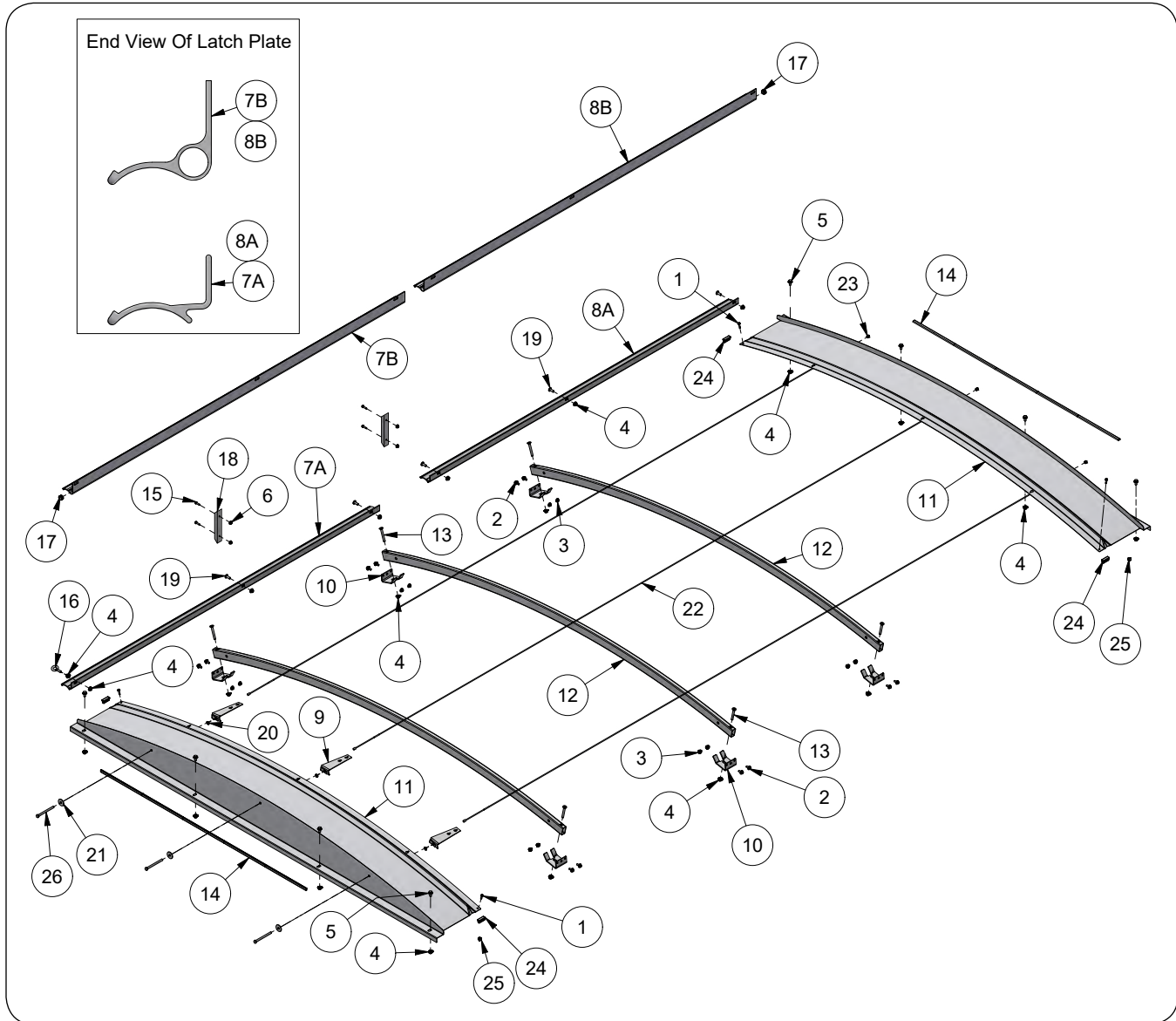


Weather Guard Tarp Components - Models 557/557Q**Please visit www.unverferth.com/parts/ for the most current parts listing.**

ITEM	PART NO.	DESCRIPTION	QTY	NOTES
	221637	Tarp Kit w/End Caps	-	
1	9390-055	Capscrew, 3/8"-16UNC x 1" G5	1	
2	9392-180	Roll Pin, 3/8" Dia. x 2"	1	
3	9398-012	Elastic Stop Nut, 3/8"-16UNC	1	
4	9405-074	Flat Washer, 3/8"	1	
5	9928	Locknut, 3/8"-16UNC	1	
6	91262	Screw/Large Flange, 3/8"-16UNC x 1" G5	5	
7	91263	Nut/Large Flange, 3/8"-16UNC	29	
8	96972	Capscrew, 3/8"-16UNC x 1" (Self-Tapping) G5	2	
9	220579B	Crank Holder	1	
10	221577	Roll Tube Weldment	1	
11	221580	Fixed Tube Weldment	1	
12	221582	Pipe - 132"	1	
13	221721	Bungee 3/8" Dia. x 156"	1	
14	221748	Tarp Handle Weldment	1	
15	221770B	Handle Retainer (Metal)	1	
16	266689B	Tarp Short Stop Plate	5	
17	903172-450	Phillips Machine Screw, 3/8"-16UNC x 4 1/2"	1	
18	9001396	Self Drilling Screw, #10-16 x 1/2"	1	
19	9003078	Cap - Plastic (2" x 3")	5	
20	9004947	Plug 2"	1	
21	9004949	U-Clamp	6	
22	9004969	Handle	1	
23	9004977	U-Joint w/ 1 3/8"-21 Spline	1	
24	9004955	Tarp 130" x 174"	1	
	9005581	Tarp Repair Kit	-	Not Shown
25	9005088	Plug 1 1/8"	2	
26	9005089	Plug 1 1/4"	1	
27	9005197	Screw/Self Drilling, #10-16 x 3/4" Pan Head	8	
28	9005305	Lynch Pin, 3/8" x 3"	1	
29	TA806225	Hose 1/2" EPDM	1	

Weather Guard Tarp Frame Components - Models 657/657Q

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



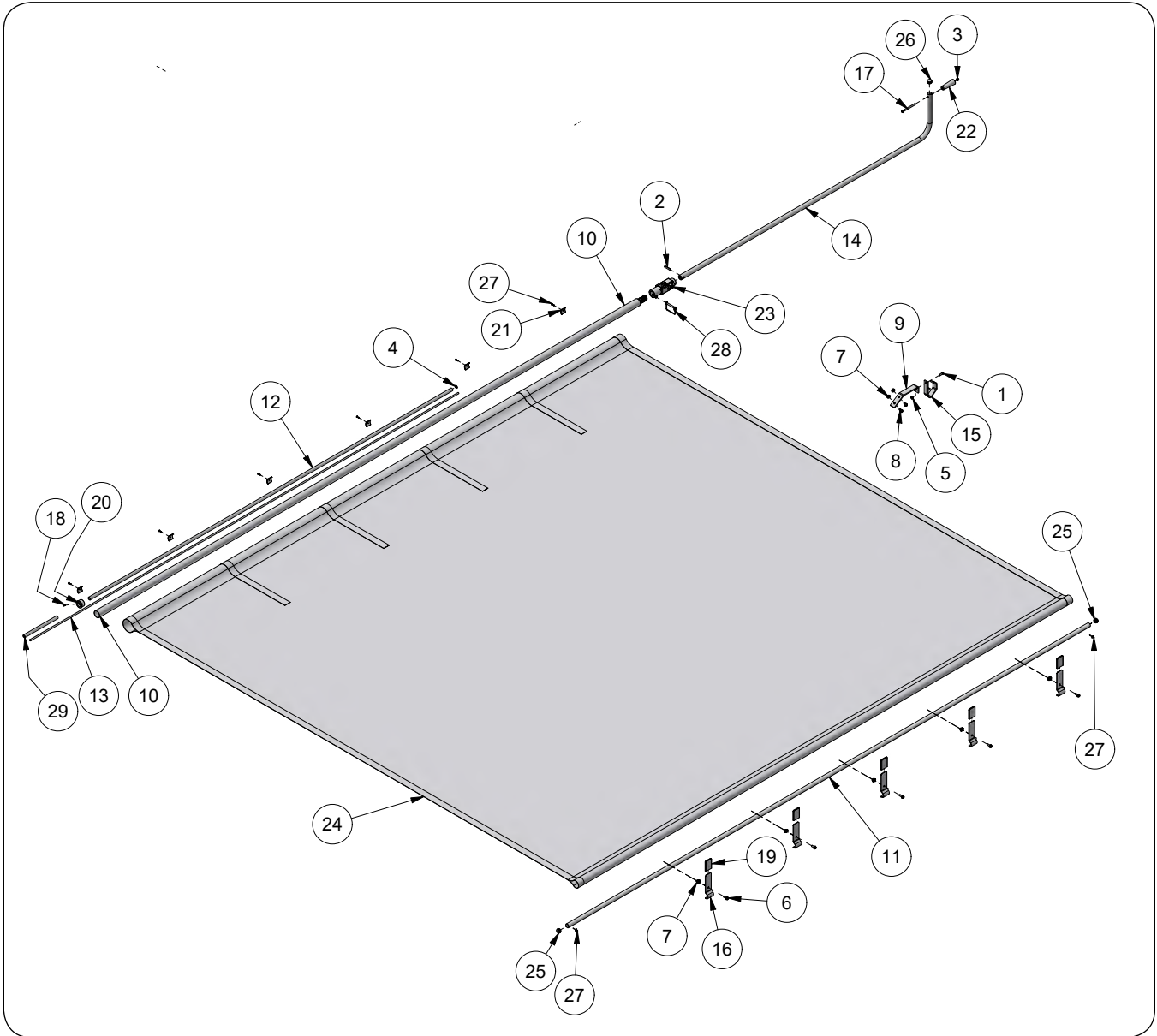
Weather Guard Tarp Frame Components - Models 657/657Q

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

ITEM	PART NO.	DESCRIPTION	QTY	NOTES
	221638	Tarp Kit w/End Caps	-	
1	9512	Screw/Self Drilling, 1/4"-14 x 1" Hex Washer Head	4	
2	91256	Flange Bolt, 5/16"-18UNC x 3/4"	12	
3	91257	Nut/Large Flange, 5/16"-18UNC	12	
4	91263	Nut/Large Flange, 3/8"-16UNC	29	
5	95585	Capscrew/Large Flange, 3/8"-16UNC x 3/4" G5	8	
6	97189	Hex Nut/Large Flange, 1/4"-20UNC	4	
7A	296838	Plate - Latch 97" (Front)	1	Replacement Service Kit #297811 Includes Front & Rear Latch Plates
7B	221782			
8A	296839	Plate - Latch 97" (Rear)	1	Replacement Service Kit #297811 Includes Front & Rear Latch Plates
8B	221783			
9	281712B	Bracket & U-Nut Assembly	3	
10	283425B	Bracket For Side Boards/Tarp Bow Weldment	6	
11	300494B	End Cap Weldment (Front & Rear) =Black=	2	
12	301208B	Tarp Bow Weldment =Black=	3	
	301210B	Tarp Bow Replacement Kit	1	Includes One Tarp Bow & Items 2, 3, 4, 10, 13
13	902703-046	Socket Flat Countersunk Capscrew 3/8"-16UNC x 3"	6	
14	9000787	Trim-lok	A/R	
15	9004355	Screw 1/4"-20UNC x 1" (Self-Threading)	4	
16	9004548	Eye Bolt 3/8"-16UNC x 1 3/4"	1	
17	9004968	Plug 1"	2	Used with Items 7B & 8B
18	9005307	Deflector	2	
19	9005312	Truss Screw 3/8"-16UNC x 1" Torx Head Machine Screw G5	5	
20	9005688	Lock Washer, 3/8" External Tooth	4	
21	9005696	Fender Washer, 3/8"	4	
22	9005707	Cable Assembly, 177"	3	
23	9005727	Plug, 7/16"	3	
24	9009793	Plug, Rectangular	4	
25	9009796	Plug, Square	2	
26	TA0-907131-0	Capscrew, 3/8"-16UNC x 4 1/2" G5	4	

Weather Guard Tarp Components - Models 657/657Q

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

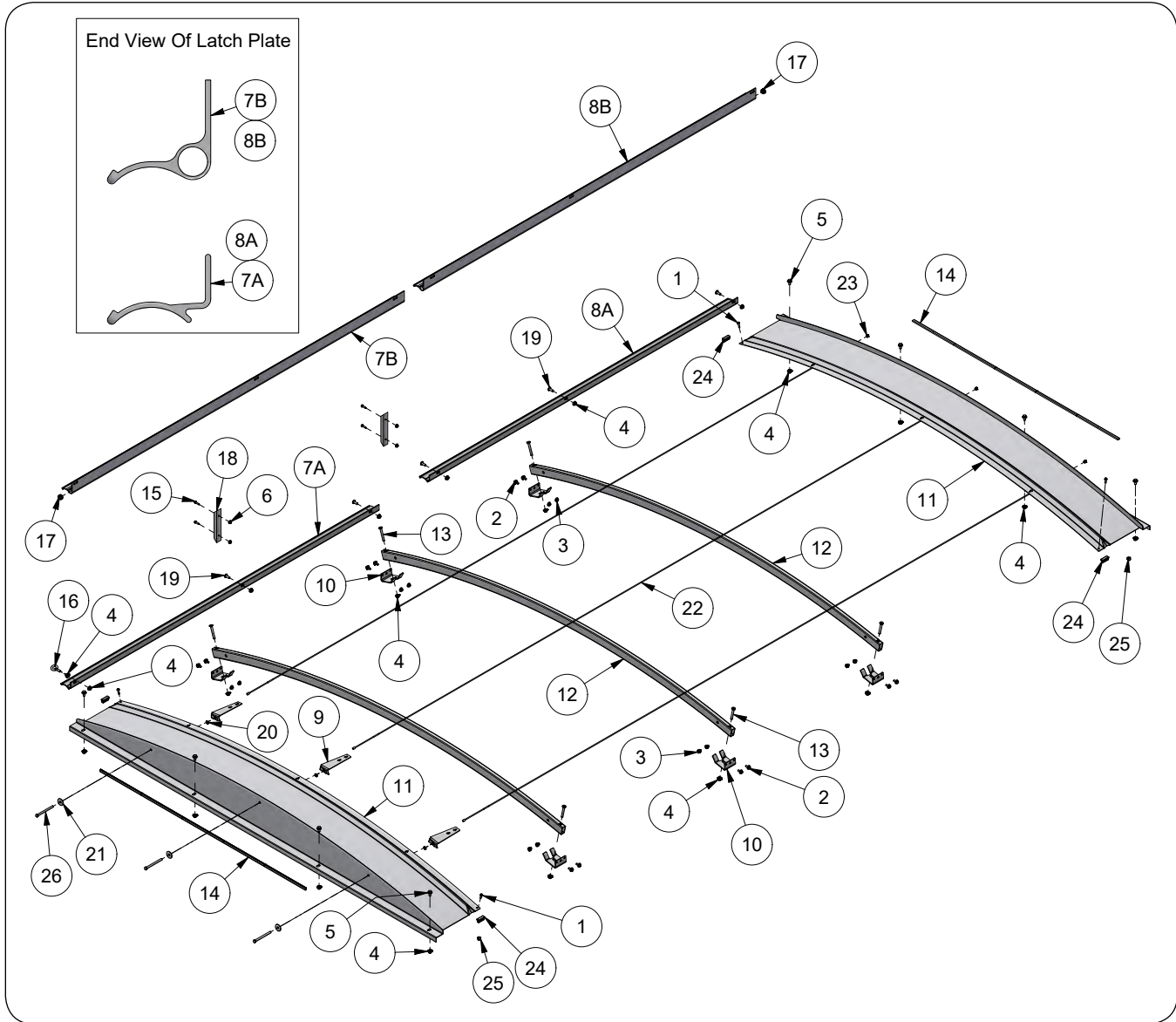


Brent 557/557Q/657/657Q/757/757Q Grain Wagon — Parts**Weather Guard Tarp Components - Models 657/657Q****Please visit www.unverferth.com/parts/ for the most current parts listing.**

ITEM	PART NO.	DESCRIPTION	QTY	NOTES
	221638	Tarp Kit w/End Caps	-	
1	9390-055	Capscrew, 3/8"-16UNC x 1" G5	1	
2	9392-180	Roll Pin, 3/8" Dia. x 2"	1	
3	9398-012	Elastic Stop Nut, 3/8"-16UNC	1	
4	9405-074	Flat Washer, 3/8"	1	
5	9928	Locknut, 3/8"-16UNC	1	
6	91262	Screw/Large Flange, 3/8"-16UNC x 1" G5	5	
7	91263	Nut/Large Flange, 3/8"-16UNC G5	29	
8	96972	Capscrew, 3/8"-16UNC x 1" (Self-Tapping) G5	2	
9	220579B	Crank Holder	1	
10	221578	Roll Tube Weldment	1	
11	221581	Fixed Tube Weldment	1	
12	221582	Pipe - 132"	1	
13	221721	Bungee 3/8" Dia. x 156"	1	
14	221748	Tarp Handle Weldment	1	
15	221770B	Handle Retainer (Metal)	1	
16	266689B	Tarp Short Stop Plate	5	
17	903172-450	Phillips Machine Screw, 3/8"-16UNC x 4 1/2"	1	
18	9001396	Self Drilling Screw, #10-16 x 1/2"	1	
19	9003078	Cap - Plastic (2" x 3")	5	
20	9004947	Plug 2"	1	
21	9004949	U-Clamp	6	
22	9004969	Handle	1	
23	9004977	U-Joint w/ 1 3/8-21 Spline	1	
24	9004956	Tarp 130" x 188"	1	
	9005581	Tarp Repair Kit	-	Not Shown
25	9005088	Plug 1 1/8"	2	
26	9005089	Plug 1 1/4"	1	
27	9005197	Screw/Self Drilling #10-16 x 3/4" Pan Head	8	
28	9005305	Lynch Pin, 3/8" x 3"	1	
29	TA806225	Hose 1/2" EPDM	1	

Weather Guard Tarp Frame Components - Models 757/757Q

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



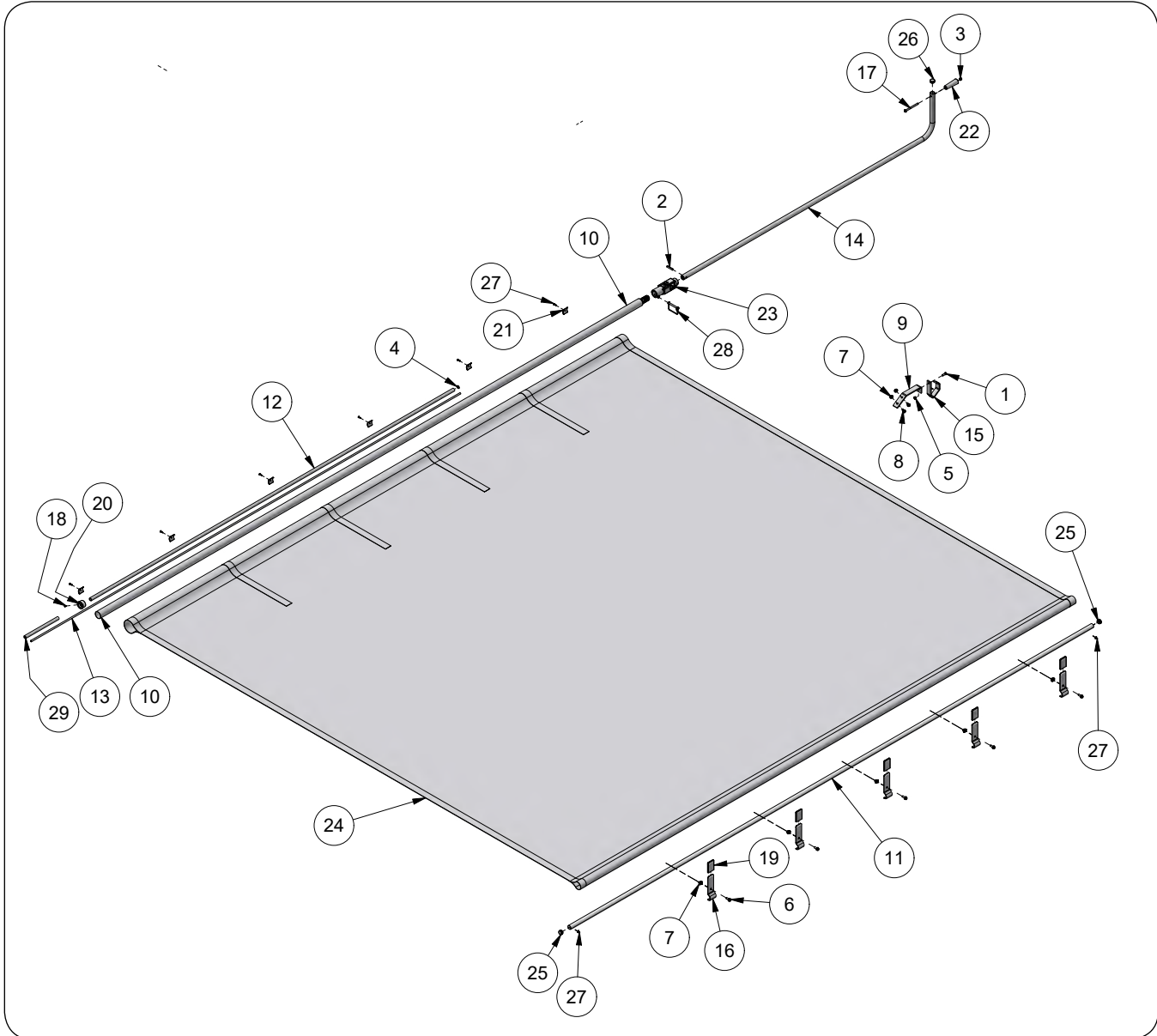
Weather Guard Tarp Frame Components - Models 757/757Q

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

ITEM	PART NO.	DESCRIPTION	QTY	NOTES
	221639	Tarp Kit w/End Caps	-	
1	9512	Screw/Self Drilling, 1/4"-14 x 1" Hex Washer Head	4	
2	91256	Flange Bolt, 5/16"-18UNC x 3/4"	12	
3	91257	Nut/Large Flange, 5/16"-18UNC	12	
4	91263	Nut/Large Flange, 3/8"-16UNC	29	Grade 5
5	95585	Capscrew/Large Flange, 3/8"-16UNC x 3/4"	8	Grade 5
6	97189	Hex Nut/Large Flange, 1/4"-20UNC	4	
7A	296840	Plate - Latch 102 5/8" (Front)	1	Replacement Service Kit #297795 Includes Front & Rear Latch Plates
7B	221784			
8A	296841	Plate - Latch 102 5/8" (Rear)	1	Replacement Service Kit #297795 Includes Front & Rear Latch Plates
8B	221785			
9	281712B	Bracket & U-Nut Assembly	3	
10	283425B	Bracket For Side Boards/Tarp Bow Weldment	6	
11	300495B	End Cap Weldment (Front & Rear) =Black=	2	
12	301209B	Tarp Bow Weldment =Black=	3	
	301211B	Tarp Bow Replacement Kit	1	Includes One Tarp Bow & Items 2, 3, 4, 10, 13
13	902703-046	Socket Flat Countersunk Capscrew, 3/8"-16UNC x 3"	6	
14	9000787	Trim-lok	A/R	
15	9004355	Screw, 1/4"-20UNC x 1" (Self-Threading)	4	
16	9004548	Eye Bolt, 3/8"-16UNC x 1 3/4"	1	
17	9004968	Plug 1"	2	Used with Items 7B & 8B
18	9005307	Deflector	2	
19	9005312	Truss Screw 3/8"-16UNC x 1" Torx Head Machine Screw	5	Grade 5
20	9005688	Lock Washer, 3/8" External Tooth	4	
21	9005696	Fender Washer, 3/8"	4	
22	9005706	Cable Assembly, 187"	3	
23	9005727	Plug, 7/16"	3	
24	9009793	Plug, Rectangular	4	
25	9009796	Plug, Square	2	
26	TA0-907131-0	Capscrew, 3/8"-16UNC x 4 1/2"	4	Grade 5

Weather Guard Tarp Components - Models 757/757Q

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



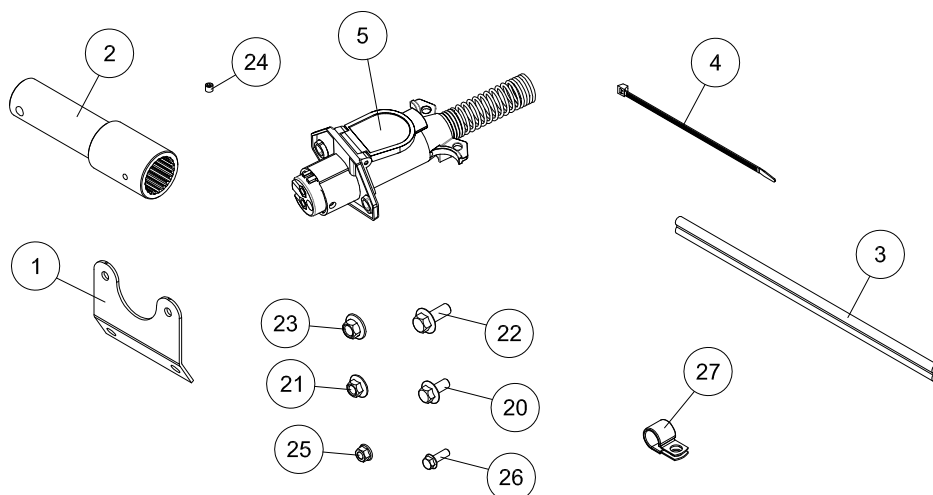
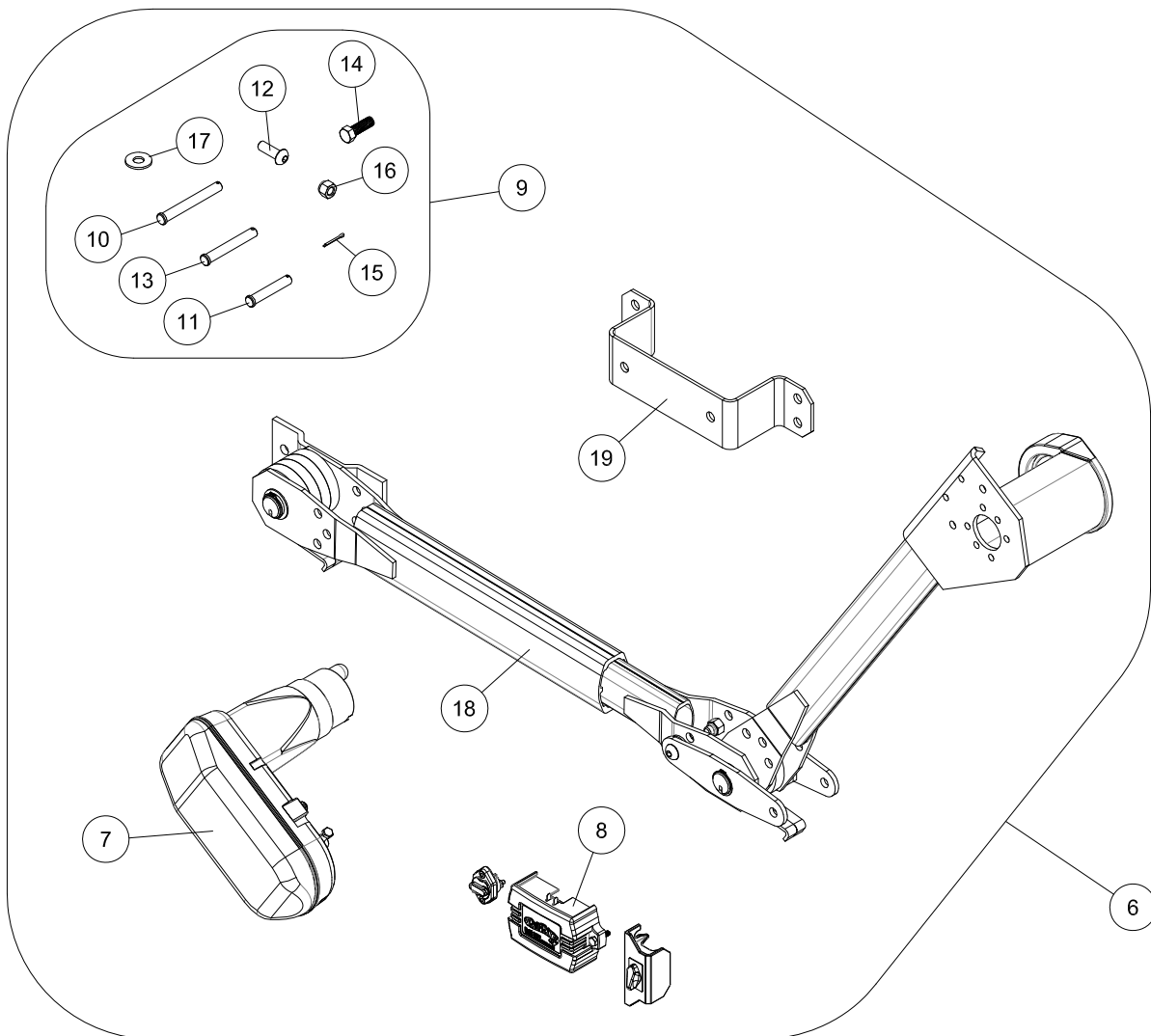
Weather Guard Tarp Components - Models 757/757Q

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

ITEM	PART NO.	DESCRIPTION	QTY	NOTES
	221639	Tarp Kit w/End Caps	-	
1	9390-055	Capscrew 3/8"-16UNC x 1"	1	Grade 5
2	9392-180	Roll Pin 3/8" Dia. x 2"	1	
3	9398-012	Elastic Stop Nut 3/8"-16UNC	1	
4	9405-074	Flat Washer 3/8"	1	
5	9928	Locknut 3/8"-16UNC	1	
6	91262	Screw/Large Flange 3/8"-16UNC x 1"	5	Grade 5
7	91263	Nut/Large Flange 3/8"-16UNC	29	Grade 5
8	96972	Capscrew 3/8"-16UNC x 1" (Self-Tapping)	2	Grade 5
9	220579B	Crank Holder	1	
10	221564	Roll Tube Weldment	1	
11	221567	Fixed Tube Weldment	1	
12	221668	Pipe - 180"	1	
13	221722	Bungee 3/8" Dia. x 204"	1	
14	221748	Tarp Handle Weldment	1	
15	221770B	Handle Retainer (Metal)	1	
16	266689B	Tarp Short Stop Plate	5	
17	903172-450	Phillips Machine Screw 3/8"-16UNC x 4 1/2"	1	
18	9001396	Self Drilling Screw #10-16 x 1/2"	1	
19	9003078	Cap - Plastic (2" x 3")	5	
20	9004947	Plug 2"	1	
21	9004949	U-Clamp	6	
22	9004969	Handle	1	
23	9004977	U-Joint w/ 1 3/8"-21 Spline	1	
24	9004957	Tarp 136" x 199"	1	
	9005581	Tarp Repair Kit	-	Not Shown
25	9005088	Plug 1 1/8"	2	
26	9005089	Plug 1 1/4"	1	
27	9005197	Screw/Self Drilling #10-16 x 3/4" Pan Head	8	
28	9005305	Lynch Pin 3/8" x 3"	1	
29	TA806225	Hose 1/2" EPDM	1	

Electric Roll Tarp Components

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

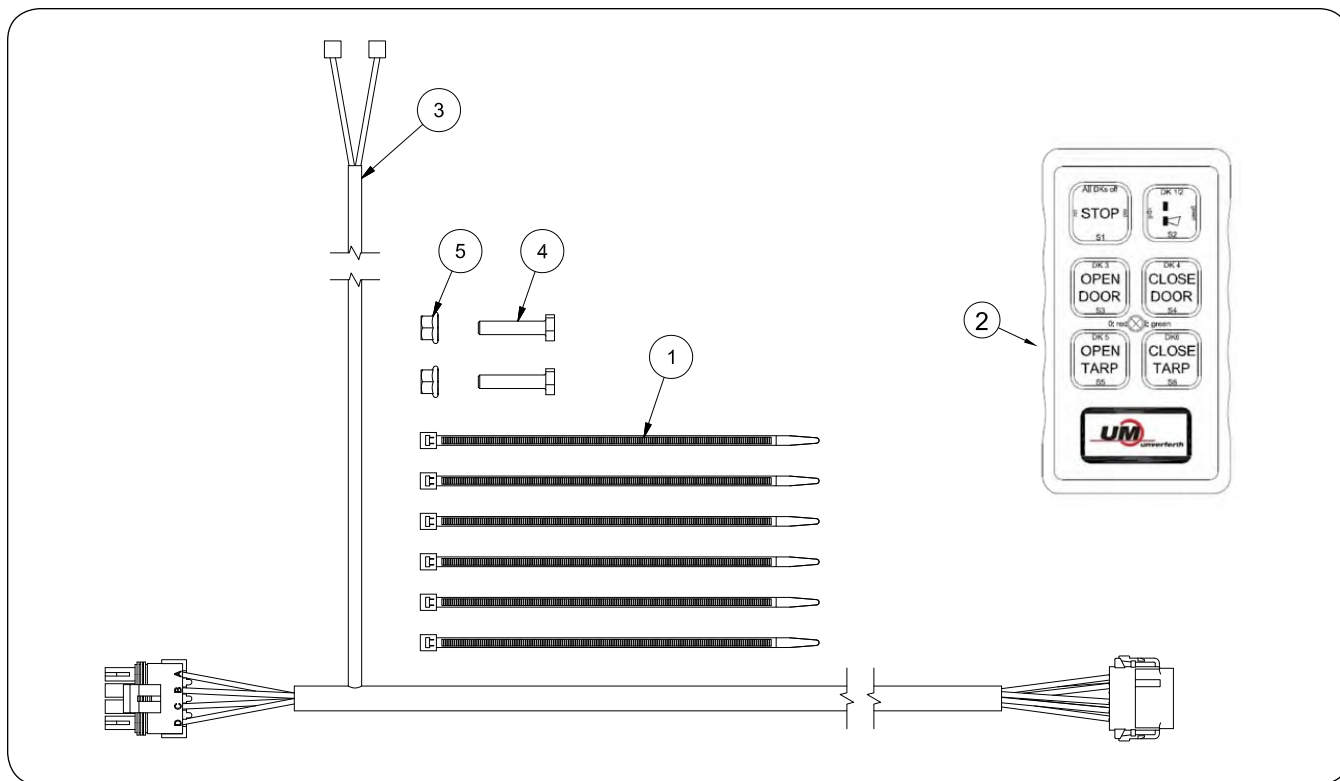


Electric Roll Tarp Components

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ITEM	PART NO.	DESCRIPTION	QTY.	NOTES
	282752B	Electric Roll Tarp Kit	1	
1	221527B	Socket Bracket =Black=	1	
2	221759	Roll Tarp Coupler Weldment	1	
3	221805	6 GA Dual Conductor Wire, 62'	1	
4	9000106	Cable Tie, 6" Long	12	
5	9005327	Dual Conductor Plug Set	2	
6	9006466	Power Kit - Electric Roll Tarp	1	
7	9005385	Super Duty Gear Motor	1	
8	9006022	Electric Tarp Kit	1	
9	9006512	Hardware Kit	1	
10	9005394	Clevis Pin, 1/2" x 4 1/8	1	
11	9005395	Clevis Pin, 1/2" x 2 3/4	1	
12	9005397	Buttonhead Capscrew, 1/2-13UNC x 1 1/2	2	
13	9006511	Clevis Pin, 1/2" x 3 1/2	1	
14	9390-101	Capscrew, 1/2-13UNC x 1 1/2	4	Grade 5
15	9391-023	Cotter Pin, 1/8D x 1	3	
16	9398-016	Elastic Stop Nut, 1/2-13UNC	6	
17	9405-086	Flat Washer, 1/2 SAE	10	
18	9006517	Pivot Arm Assembly	1	
19	9006518	Pivot Mount	1	
20	91256	Large Flange Screw, 5/16-18UNC x 3/4	2	Grade 5
21	91257	Large Flange Hex Nut, 5/16-18UNC	2	Grade 5
22	91262	Large Flange Screw, 3/8-16UNC x 1	5	Grade 5
23	91263	Large Flange Nut, 3/8-16UNC	5	Grade 5
24	9399-057	Set Screw, 1/4-20UNC x 1/4	1	
25	97189	Large Flange Hex Nut, 1/4-20UNC	2	Grade 5
26	97420	Flange Screw, 1/4-20UNC x 3/4	2	Grade 5
27	TA0-903850-0	Clamp	5	

Wireless Remote Components - Models 557Q/657Q/757Q



ITEM	PART NO.	DESCRIPTION	QTY.	NOTES
	282764	Wireless Remote Kit	1	
1	9000106	Cable Tie, 6" Lg.	6	
2	9006465	Wireless Remote Kit	1	
3	9006547	Wireless Wire Harness, 43" Lg.	1	
4	9390-006	Capscrew, 1/4"-20UNC x 1 1/4" G5	2	
5	97189	Large Flange Hex Nut, 1/4"-20UNC G5	2	

Notes



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