



Grain CartsDouble-Auger Model 1150

Beginning With Serial Number D71460100 & Higher

Part No. 2012602

Parker 1150 — Introduction

Foreword



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

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

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

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

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.

Parker 1150 — Introduction

Product Information

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

- Machine name
- Model
- Serial number

All products manufactured by Unverferth are warranted to be free from material and workmanship defects for one full year from time of consumer delivery. Your local dealer will gladly assist you with any warranty questions.

Please fill out and retain this portion for your records.

Purchase Date	Model	Serial Number	
Dealer		City	
Dealer Contact		Phone	



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General Hazard Information

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

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

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

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



REMEMBER:

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

SIGNAL WORDS



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

A WARNING

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

A CAUTION

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

IMPORTANT

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

Safety Decals

A WARNING

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



Part No. 98279



Part No. 9003474



NEVER PLAY IN OR ON THE GRAIN.
FLOWING GRAIN TRAPS AND SUFFOCATES VICTIMS IN SECONDS.

Part No. 9003478



Part No. 93552



Part No. 95046



WING

WERDING

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T.

WERD.

Part No. 9003476



Part No. 97961



Part No. 95839



Part No. 94094



Part No. TA1-906109-0

Amber Reflector - Part No. 9003127 Red Reflector - Part No. 9003126 Fluorescent Decal - Part No. 9003125



Part No. 97575



Part No. 95008







Part No. 9003477



Part No. 9008151

Follow 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 the tractor engine off and remove the key before servicing.



- Avoid personal attire such as loose fitting clothing, shoestrings, drawstrings, pants cuffs, long hair, etc. that may become entangled in moving parts.
- Do not allow anyone to ride on the implement. Make sure everyone is clear before operating machine or towing vehicle.
- Never attempt to operate the implement unless you are in the driver's seat.



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



Before Servicing or Operating

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



- Ensure that all applicable safety decals are installed and legible.
- When working around the implement, be careful not to be cut by sharp edges.
- To prevent personal injury or death, always ensure that there are people who remain outside the
 cart to assist the person working inside, and that all safe workplace practices are followed. There
 is restricted mobility and limited exit paths when working inside the implement.
- Secure drawbar pin with safety lock and lock the tractor drawbar in a fixed position.
- Explosive separation of a tire and rim can cause serious injury or death. Only properly trained personnel should attempt to service a tire and wheel assembly.
- Add sufficient ballast to tractor to maintain steering and braking control at all times. Do not exceed tractor's lift capacity or ballast capacity.
- Do not stand between the 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.



During Operation

- Regulate speed to field conditions. Maintain complete control at all times.
- Never service or lubricate equipment when in operation.
- Keep away from overhead power lines. Electrical shock can cause serious injury or death.



- Use extreme care when operating close to ditches, fences or on hillsides.
- Do not leave equipment unattended with engine running.

Before Transporting

- Secure transport chains to towing vehicle before transporting. DO NOT transport without the chains.
- Check for proper function of all available transport lights. Make sure that all reflectors are clean and in place on machine. Make sure that the SMV emblem and SIS decal are visible to approaching traffic.
- This implement may not be equipped with brakes. Ensure that the towing vehicle has adequate weight and braking capacity to tow this unit.

During Transport

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

Parker 1150 — Safety

Driveline Safety

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



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

Pressurized Oil

- Relieve the hydraulic system of all pressure before adjusting or servicing. See hydraulic power unit manual for procedure to relieve pressure.
- High-pressure fluids can penetrate the skin and cause serious injury or death. Leaks
 of high-pressure fluids may not be visible. Use cardboard or wood to detect leaks in
 the hydraulic system. Seek medical treatment immediately if injured by high-pressure
 fluids.



- Hydraulic system must be purged of air before operating to prevent serious injury or death.
- Do not bend or strike high-pressure lines. Do not install bent or damaged tubes or hoses.
- Repair all oil leaks. Leaks can cause fires, personal injury, and environmental damage.
- Route hoses and lines carefully to prevent premature failure due to kinking and rubbing against other parts. Make sure that all clamps, guards and shields are installed correctly.
- Check hydraulic hoses and tubes carefully. Replace components as necessary if any of the following conditions are found:
 - End fittings damaged, displaced, or leaking.
 - Outer covering chafed/cut or wire reinforcing exposed.
 - Outer covering ballooning locally.
 - Evidence of kinking or crushing of the flexible part of a hose.

Parker 1150 — Safety

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



Set Up

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Set Up Checklist

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

- o Set or Calibrate tractor PTO control engagement to MINIMUM setting. Refer to tractor operator's manual for setting information.
- Axles are adjusted from shipping position to desired operating position. (If Applicable)
- o Move rear left-hand and right-hand light brackets from shipping to operating position. See "Move Lights to Operating Position" in this section.
- o Torque wheel nuts as specified in MAINTENANCE section.
- o Verify track has been aligned and is properly conditioned. (If applicable)
- o Inflate tires to specified air pressure. (if applicable)
- Lubricate all grease fittings and check gearbox oil level.
- Inspect cleanout door assembly for proper adjustment, refer to MAINTENANCE section for adjustment procedure.
- o 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.
- o Verify PTO length, see "Verify Telescoping PTO Shaft Length" in MAINTENANCE section.
- Belts/Chains are aligned and properly tensioned.
- o Ensure screens over horizontal auger are in place and properly secured.
- o Transport chains are properly installed and hardware is torqued to specification. See "Transport Chain Connection" in OPERATION section.
- o Paint all parts scratched in shipment.
- o Test run the augers. See "Auger Operation" in OPERATION section.
- Check hydraulics for leaks and check hose routing.

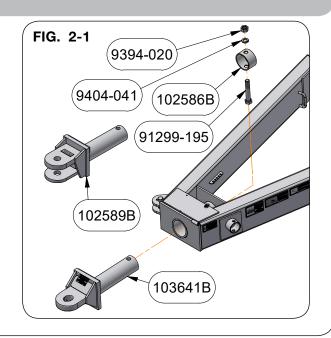
General Set Up Information

A WARNING

- FALLING OBJECTS CAN CAUSE SERIOUS INJURY OR DEATH. DO NOT WORK UNDER THE MACHINE AT ANY TIME WHILE BEING HOISTED. BE SURE ALL LIFTING DEVICES AND SUPPORTS ARE RATED FOR THE LOADS BEING HOISTED. THESE ASSEMBLY INSTRUCTIONS WILL REQUIRE SAFE LIFTING DEVICES UP TO 10,000 LBS. SPECIFIC LOAD RATING FOR INDIVIDUAL LOADS WILL BE GIVEN AT THE APPROPRIATE TIME IN THE INSTRUCTIONS.
- TO PREVENT PERSONAL INJURY OR DEATH, ALWAYS ENSURE THAT THERE ARE PEOPLE WHO REMAIN OUTSIDE THE CART TO ASSIST THE PERSON WORKING INSIDE THE CART, AND THAT ALL SAFE WORKPLACE PRACTICES ARE FOLLOWED. THERE IS RESTRICTED MOBILITY AND LIMITED EXIT PATHS WHEN WORKING INSIDE THE CART.
- EYE PROTECTION AND OTHER APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT MUST BE WORN WHILE SERVICING IMPLEMENT.
- KEEP HANDS CLEAR OF PINCH POINT AREAS.

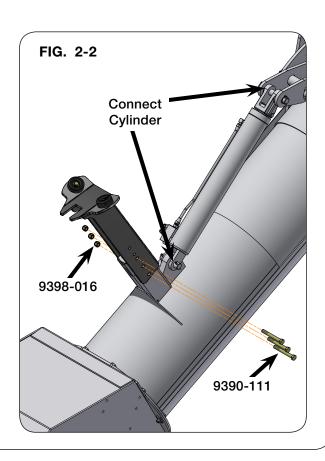
Hitch Installation

 Insert hitch (103641B or 102589B) into frame weldment and secure using coupler (102586) and 1"-8x6" capscrew (91299-195), 1" lock washer (9404-041), and 1"-8 hex nut (9394-020). FIG 2.1



Auger Rest Stand Set Up

- 1. Using safe lifting device rated at a minimum of 1800 lbs., raise the upper vertical auger tube assembly.
- Attach the auger rest stand weldment (2011827B) with rubber bumpers (97896 to the auger tube lower assembly with three 1/2"-13UNC x 4" capscrews (9390-111) and 1/2"-13UNC elastic lock nuts (9398-016). (FIG. 2-2)
- 3. Connect the auger fold cylinder with pins provided.



Wheel & Tire Set Up

Tire Pressure

Tire pressure must be verified before first use and adjusted as necessary. Refer to MAINTENANCE section of this manual for information on tire pressure.

Wheel Nuts



- 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 40,000 LBS. SPECIFIC LOAD RATINGS FOR INDIVIDUAL LOADS WILL BE GIVEN AT THE APPROPRIATE TIME IN THE INSTRUCTIONS.
- EYE PROTECTION AND OTHER APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT MUST BE WORN WHILE SERVICING IMPLEMENT.
- KEEP HANDS CLEAR OF PINCH POINT AREAS.
- TIPPING OR MOVEMENT OF THE MACHINE CAN CAUSE SERIOUS INJURY OR DEATH. BE SURE MACHINE IS SECURELY BLOCKED.

A CAUTION

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

IMPORTANT

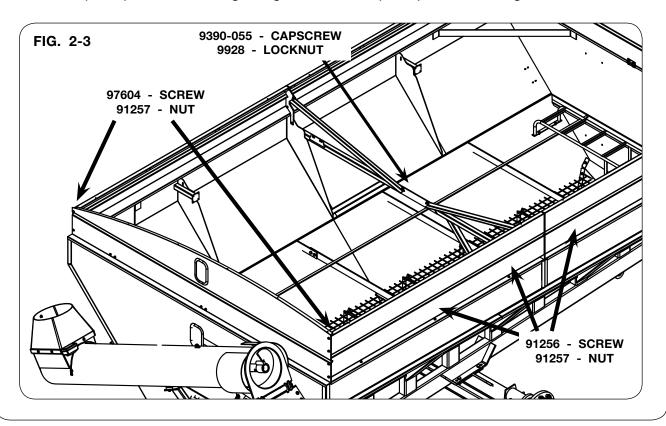
• Installing wheels without the proper inset could result in hub or spindle failure. This will cause substantial damage to cart.

Wheel nuts must be torqued to specification. Refer to MAINTENANCE section for proper wheel nut torque.

Sideboards

Sideboards are shipped either completely assembled or folded down. If your cart was shipped with the sideboards folded down proceed as follows:

- 1. Unfold the front and rear sideboards after removing and discarding shipping straps. Raise the right-hand sideboard and secure it to the front and rear sideboards using screws/large flange 5/16"-18UNC x 1" (97604) and hex nuts/large flange 5/16"-18UNC (91257). Repeat this process for the left-hand sideboard.
- 2. Attach the sideboard angles (25039M) to the cart using capscrews 3/8"-16UNC x 1" (9390-055) and locknuts 3/8"-16UNC (9928) as shown in Fig. 2-3.
- 3. Secure the left-hand and right-hand sideboards to the cart using screws/large flange 5/16"-18UNC x 3/4" (91256) and hex nuts/large flange 5/16"-18UNC (91257) as shown in Fig. 2-3.



Transport Lighting and Markings

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

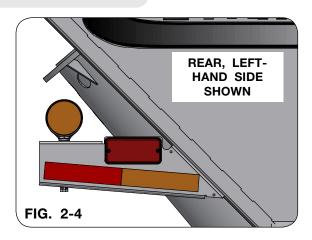
Compliance with all lighting and marking laws is the responsibility of the operator at the time of travel.

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

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

Lights Operating Position

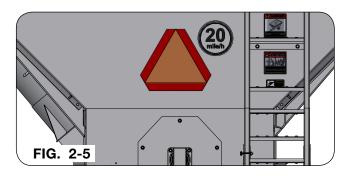
Lamp extension arms are positioned at the sides of cart. Be sure that amber reflector is facing the front of the cart (some lights on certain cart models will be flipped down for shipping).

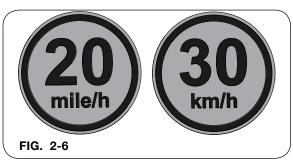


SMV Emblem & SIS Decal

The reflective surface of the SMV must face rearward. This may require removal of film protecting the reflective surface or removing and reinstallation of the SMV. (FIG. 2-5)

When reinstalling the SMV make sure that it is mounted with the wide part of the SMV at the bottom.





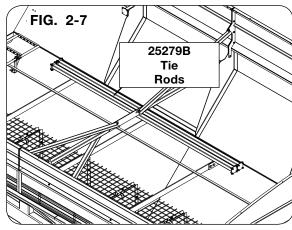
Ensure the front and rear SIS decals are clean and visible after shipping. (FIG. 2-6)

For 20 MPH SIS decals, order 9008715 for the front & 9008714 for the rear. For 30 KPH SIS decals, order 9008721 for the front & 9008720 for the rear.

Tank Tie Rods

IMPORTANT

- Tie rods are located inside the cart for shipping.
- 1. Secure tie rods (25279B) as shown to inside of cart with hardware provided. See FIG. 2-7 & 2-7.





Coupling PTO Driveshaft

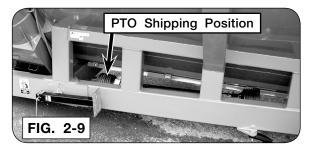
PTO is shipped under the grain cart on the left-hand side.

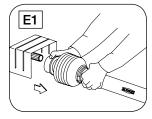
Clean and grease the PTO and implement input connection (IIC)

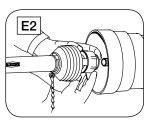
 Pull locking collar and simultaneously push PTO driveshaft onto PTO shaft until the locking device engages.

IMPORTANT

 Check to insure all the locks are securely engaged before starting work with the PTO driveshaft.







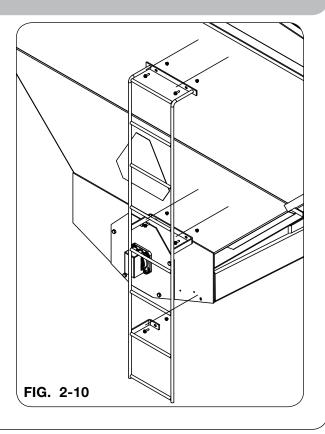
Ladder Installation

A WARNING

 TO PREVENT PERSONAL INJURY OR DEATH ALWAYS ENSURE THAT THERE ARE PEOPLE WHO REMAIN OUTSIDE THE CART TO ASSIST THE PERSON WORKING INSIDE THE CART, AND THAT ALL SAFE WORK PLACE PRACTICES ARE FOLLOWED. THERE IS RESTRICT-ED MOBILITY AND LIMITED EXIT PATHS WHEN WORKING INSIDE THE CART.

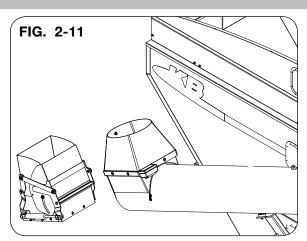
IMPORTANT

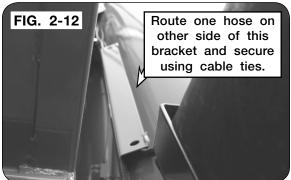
• Ladder is located inside the cart for shipping.

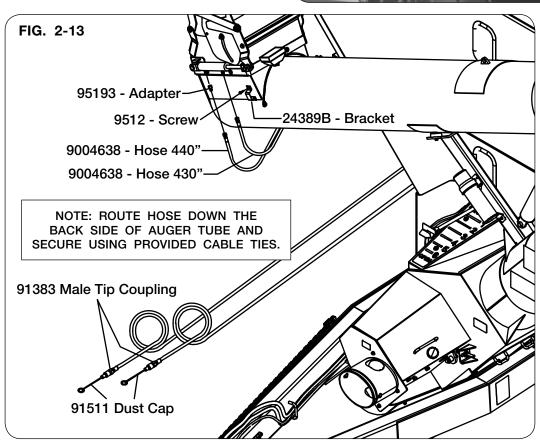


Optional Directional Downspout #24391 Installation

- 1. Remove the standard chute shown in FIG. 2-11 and attach the new directional downspout with the hardware provided.
- 2. Attach the adapter (95193) to the cylinder on the directional downspout (FIG. 2-13).
- 3. Connect the hydraulic hoses (9004637 & 9004638) to the directional downspout as shown in FIG. 2-13.
- 4. Connect the male tip coupling (91383) and dust cap (91511) to the ends of the hydraulic hoses (FIG. 2-13).
- 5. Secure bracket (24389B) using screws (9512) as shown in FIG. 2-13.
- 6. Route the hoses through the bracket (24389B) and along the back side of the auger secure using cable ties (FIG. 2-13).
- 7. Cycle the cylinder multiple times to purge air from cylinder and lines.







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Operating Checklist

- o Read and understand all safety precautions before operating cart.
- o Check axle spacing to be sure axle is adjusted from shipping position to desired operating width. (If Applicable)
- o Check to be sure all the reflective decals and the SMV sign are clearly visible with the cart attached to the tractor. Check to be sure the transport lights are in working condition. Check and follow federal, state/provincial and local regulations before towing on a road or highway.
- Check to be sure the hitch height when attached to the tractor is sufficient to prevent severe bends in PTO U-joint angles.
- o Check to be sure PTO is correct length for making turns and operating on uneven terrain. See "Verify Telescoping PTO Shaft Length" in MAINTENANCE section.
- o Torque wheel nuts according to "Wheel Torque Chart" in MAINTENANCE section.
- o Transport chains are properly installed and hardware is torqued to specification. See "Transport Chain Connection" in OPERATION section.
- o Check to be sure all screens and safety shields are in place.
- o Check to be sure recommended lubrication procedures are being followed.
- o Check operation and functionality of flow door, flow door indicator, auger fold, and auger pivot.
- o Set tractor PTO control engagement setting to a minimum, refer to tractor operators manual for setting information.
- o Test run the augers. See "Auger Operation" in OPERATION section.

Preparing Tractor

Selecting Proper Tractor

Approx. loaded cart weight -> 78,000 Lbs. Approx. loaded cart hitch weight -> 4500 Lbs.

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

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

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

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

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

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

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

Preparing Cart

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 Points

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

Hitch

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

Auger

Inspect auger for damage and wear.

Parker 1150 — Operation

Preparing Cart (continued)

Hydraulic System

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

Tires/Wheels

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



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

IMPORTANT

• Installing wheels without the proper inset could result in hub or spindle failure. This will cause substantial damage to cart.

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.

Lubrication

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

Hitching to Tractor

Drawbar Connection

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

Make sure sufficient counterweight is used on the tractor's front-end.

The cart is equipped standard with a single tang hitch. A hitch pin between 1 1/2" or 2" diameters must only be used with a clevis-type tractor drawbar.

<u>NOTE</u>: The use of a smaller diameter hitch pin will result in additional clearance between the hitch and pin. This additional clearance may cause accelerated pin wear, tractor and cart hitch wear, along with more pronounced jolting from the cart during transport operation.



• DO NOT STAND BETWEEN THE MACHINE AND TRACTOR WHEN HITCHING. ALWAYS ENGAGE PARKING BRAKE AND STOP ENGINE BEFORE INSERTING HITCH PIN.

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

The hitch has four different height settings that can be obtained. See the Maintenance section for information on this procedure.

Jack Usage



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

Use the jack to support an empty grain cart, never a loaded grain cart. Remove jack from storage on inside of left frame and install on mounting stud behind hitch.

IMPORTANT

 Mount jack in storage location indicated after cart is hitched to tractor.



Hitching to Tractor (continued)

Transport Chain Connection

A CAUTION

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

Tractor must be equipped with a transport chain support. Always use intermediate support when connecting cart directly to a tractor. DO NOT use intermediate chain support as the chain attaching point. See tractor operator's manual for proper chain attachment. FIG. 3-2 shows how the transport chain must be installed between implement and towing vehicle.

The standard transport chain is rated for towing the grain cart empty on public roads. Never tow a loaded grain cart on pubic roads.

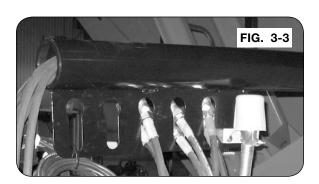




Hydraulic Connections

IMPORTANT

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



Parker 1150 — Operation

Hitching to Tractor (continued)

Clean hydraulic hose couplers before connecting to the tractor. For convenience, it is recommended to connect the flow door hoses to tractor implement coupler #1, and attach auger fold hoses to coupler #2.

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

Green: Raise and Lower Auger Red: Flow Door Open and Close

After initial set-up or replacement of any hydraulic component on the cart, air must be removed from the cart's hydraulic system.

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. Install couplers into storage slots provided.

Hitching to Tractor (continued)

Electrical Connections

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

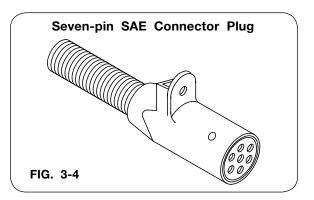
Compliance with all lighting and marking laws is the responsibility of the operator at the time of travel.

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

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

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

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



Parker 1150 — Operation

Towing

This cart is not 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 cart over public roads.

Do not exceed 10 mph during off-highway travel. Do not exceed 8 mph when cart is fully loaded.

Secure drawbar pin with a locking device and lock tractor drawbar in centered position. Connect the PTO driveshaft to the tractor.

Secure transport chain to tractor chain support before towing.



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

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

Always have auger folded back into storage position when auger is not in use.

To prevent damage during turning when using non-PTO equipped towing vehicles, store the PTO driveshaft in the brackets provided on the inside right frame rail.

Auger Operation

PTO Driven Auger

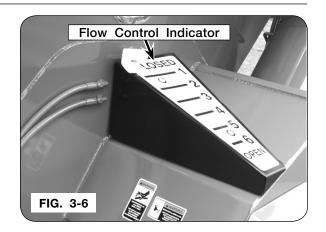
▲ DANGER

 ELECTROCUTION WILL CAUSE SERIOUS INJURY OR DEATH. THE GRAIN CART IS NOT INSULATED. KEEP AWAY FROM ALL ELECTRI-CAL LINES AND DEVICES. ELECTROCUTION CAN OCCUR WITHOUT DIRECT CONTACT.



A WARNING

- NEVER ENTER CART WITH AUGER OR TRACTOR RUNNING. SERIOUS OR FATAL IN-JURY CAN OCCUR DUE TO ENTANGLEMENT WITH ROTATING COMPONENTS. ALWAYS STOP ENGINE AND REMOVE KEY BEFORE ENTERING CART.
- TO PREVENT PERSONAL INJURY OR DEATH ALWAYS ENSURE THAT THERE ARE PEOPLE WHO REMAIN OUTSIDE THE CART TO ASSIST THE PERSON WORKING INSIDE THE CART, AND THAT ALL SAFE WORKPLACE PRACTICES ARE FOLLOWED. THERE IS RESTRICTED MOBILITY AND LIMITED EXIT PATHS WHEN WORKING INSIDE THE CART.
- 1. Make sure the flow control door is in the closed position before loading grain into the cart.
- 2. Engage PTO, increase engine RPM until 1000 PTO RPM is reached and open flow control gate.
- 3. Use the flow control opening to slow the rate of the flow rather than the tractor's RPM.
- 4. Do not disengage the auger with the flow control open. Excessive start-up torque may result, putting stress on cart driveline and tractor.
- Properly identify tractor remote for proper hook-up of the flow control and auger fold. A mix-up can damage the auger drive system.

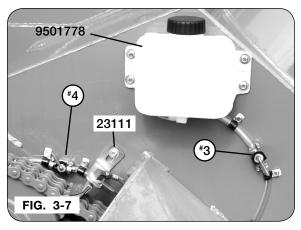


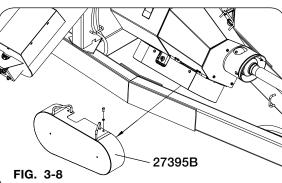
- 6. Never enter a loaded grain cart. Flowing grain traps and suffocates victims in seconds.
- 7. It is strongly advised that the unloaded auger always be returned to the transport position when not in use.
- 8. The transmission components of the augers are designed with 50% cycle time. This means that for proper life of components, cart should be ran for a maximum of five minutes at a time, and then left idle for five minutes.

Operating The Chain Oiler #23250

A WARNING

- MOVING OR ROTATING COMPONENTS CAN CAUSE SERIOUS INJURY OR DEATH.
 ALWAYS DISCONNECT THE POWER SOURCE BEFORE SERVICING. ENSURE THE SER VICE COVERS, CHAIN/BELT COVERS AND CLEAN-OUT DOOR(S) ARE IN PLACE AND
 SECURELY FASTENED BEFORE OPERATING THE MACHINE.
- 1. Park the empty cart on a firm, level surface. Block the tires on the machine to keep it from moving. Set the tractor's parking brake, shut off the engine, remove the ignition key and disconnect the PTO shaft and hydraulics from the tractor and cart.
- 2. Fill oil reservoir tank (9501778) with 30W oil.
- 3. Turn the ball valve (9002794) nearest the oil reservoir tank (9501778) all the way on (Fig. 3-7).
- 4. Turn the ball valve (9002794) nearest the bracket (23111) only half-way on (Fig. 3-7).
- 5. Remove the 5/16"-18UNC x 1" capscrews (9390-030) and lock washers (9404-021) so the guard weldment (27395B) can be removed as shown in Fig. 3-8.
- 6. Examine the oil flow and adjust the ball valve nearest the bracket (23111) so an even amount of oil is being distributed between both brushes.
- 7. Turn the ball valve (9002794) nearest the oil reservoir tank (9501778) off when operations are completed (Fig. 3-7).
- 8. Reattach the guard weldment using the previously removed hardware.





Parker 1150 — Operation

Notes

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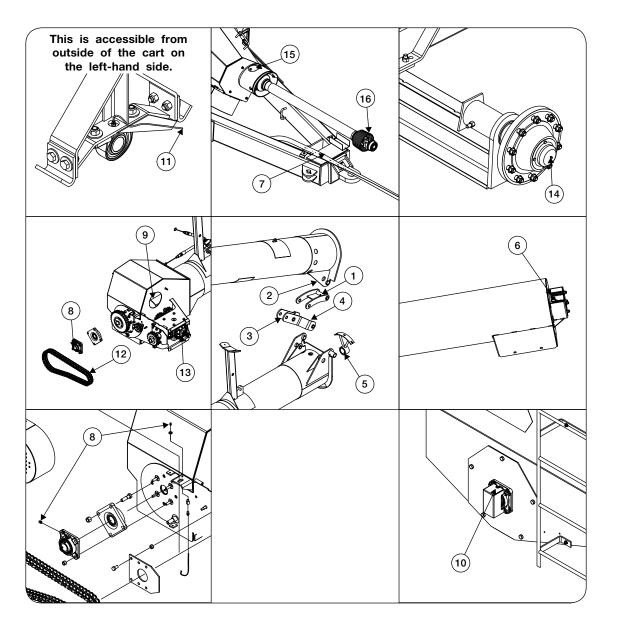
FOR TARP INFORMATION, PLEASE REFER TO YOUR TARP MANUAL.
FOR SCALE INFORMATION, PLEASE REFER TO YOUR SCALE MANUAL.
FOR UHARVEST PRO INFORMATION, PLEASE REFER TO YOUR UHARVEST MANUAL.
FOR TRACKS INFORMATION, PLEASE REFER TO YOUR TRACKS MANUAL.

Lubrication

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

ITEM	DESCRIPTION
1	Linkage Pivot
2	Hinge Tube
3	Linkage Pivot
4	Linkage Pivot
5	Vertical Auger Hanger Bearing (1 Shot Daily)
6	Vertical Auger Top End Bearing (1 Shot Daily)
7	Hitch Point (5 Shots/Seasonal)
8	Vertical Auger Lower Bearing (Inside/Outside - 1 Shot Daily)
9	Horizontal Auger Front Bearing (1 Shot Season)

ITEM	DESCRIPTION
10	Horizontal Auger Rear Bearing (1 Shot Season)
11	Horizontal Auger Center Bearing (1 Shot Season)
12	Chain - without oiler (Twice Daily SAE 80W90)
12	Chain - with oiler (30W)
13	Gearbox (Check weekly, replace once a year 2-2 1/2 Pints 85W140 EP)
14	Hubs (2) (Repack every 2 years)
15	PTO Universal Joint (2) (Refer to PTO Section)
16	PTO Safety Shield (2) (Refer to PTO Section)



Parker 1150 — Maintenance

U-Joints & Gearbox

The U-joint will give you many years of service if grease is applied to each joint and spline weekly.

For maximum gearbox life:

- -- Check oil level every 2 weeks
- -- Replace oil every season, fill to fluid level or 2 pints with 90 weight oil

Drivetrain Inspection

To insure long life and dependable service from your grain cart, the drivetrain should be inspected after the first 5 loads, at the beginning of each season and after every 25 loads or annually thereafter, whichever comes first.

Remove inspection cover and proceed as follows:

- Make a general inspection of drivetrain looking for loose hardware.
- Inspect chain tension.
- Inspect for wear on the side of the sprockets which may indicate poor chain alignment.
- Inspect chain connectors making sure they are properly secured.
- Inspect 3 setscrews in each sprocket bushing and tighten evenly to torque specifications.
- Inspect sprocket drive keys making sure they are properly located and tight.
- Inspect all grease hoses for damage and proper routing.
- Lubricate all grease fittings.
- Inspect bearings and seals in gearbox.
- Inspect PTO attaching hardware and safety shields.
- Repair or replace worn or damaged parts.

Drive Sprockets

The drivetrain components should be checked periodically for tightness. Loose sprockets or chains could result in excessive wear or damage to the drivetrain.

Use the following chart for reference during servicing.

Auger	Bushing	Bushing	Bushing
Horizontal	102246	102246	102246
Vertical	102247	102247	102247
Both	102248	102248	102248

Drive Sprockets (Continued)

Hole Configuration of Drive Sprocket

REMOVAL

1. Remove all set or cap screws.



2. Insert set or cap screw in hole indicated by on diagram. Loosen bushing by tightening set or cap screw.

INSTALLATION

- Clean shaft, bore of bushing, outside of bushing and hub bore of all oil, paint and dirt. File away burrs.
- 2. Insert bushing in hub. Match the hole pattern, not the threaded holes, (each hole will be threaded on one side only.)
- Lightly oil setscrews and thread into those half-threaded holes indicated by on above diagram.
 <u>DO NOT</u> lubricate the bushing taper, bushing bore, hub taper or the shaft. Doing so could result in breakage of the product.
- 4. Alternately torque setscrews or capscrews to recommended torque setting, see chart.
- 5. To increase gripping force, hammer face of bushing using block, or sleeve. (Do not hit bushing directly with hammer.)
- 6. Re-torque screws after hammering.
- 7. Recheck screw torques after initial run-in, and periodically thereafter. Repeat steps 4, 5 and 6 if loose.

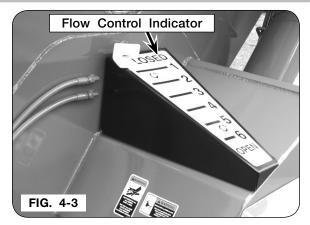
Indicator Arm

The Indicator Arm lets the operator know the position of the flow control gates, open or closed. This arm is connected to the flow control gate. If the indicator arm is not working properly see that the hardware is securely connecting the indicator arm to the gate. See flow control gates for further adjustments.

Flow Control Gates

The Flow Control Gates are designed to prevent grain from putting an excess load on the horizontal auger during initial start-up. If gates are not working properly check:

- each pivot, on each end of gate, for wear or tightness.
- -- the hydraulic cylinder, making sure hoses are attached properly, clevis pins are secure, and fluid level in hydraulic oil reservoir is at its recommended level.



- -- for any debris that may have wedged between gates.
- -- hardware connecting gates are secure.

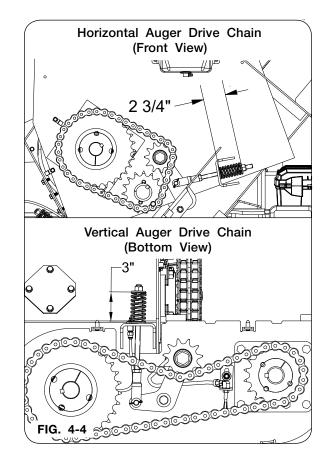
Chain Tightener Bracket

Due to prolonged use, gear wear may be evident causing slack in chains. To correct this, follow these steps:

- Adjust horizontal tightener to 2.75" in spring shown.
- 2. Adjust vertical auger tightener to 3" in spring shown.
- 3. Clear work area and test run drivetrain for 3 minutes at no greater than 1000 R.P.M.
- Disengage P.T.O. and turn tractor off. Check slack in chain. If more adjustment is needed repeat steps 1-3.

IMPORTANT

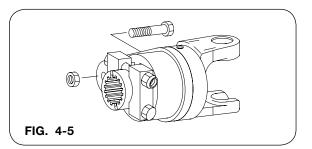
 Improper chain tensioning can cause premature wear on chains and sprockets. Too tight can cause heat and lubrication to dissipate, or too loose could cause chain slap and excess vibration. Both contribute to chain elongation and/or sprocket wear. It is recommended to check chain tension daily and always replace both sprockets and chain when installing new components.



PTO Shear Bolt

IMPORTANT

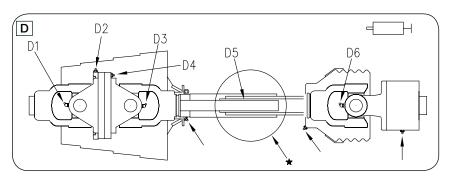
 Use a genuine OEM replacement shear bolt to ensure that the shear function does not occur too soon causing inconvenience or too late resulting in damage to driveline and auger components, see "Driveline Components".

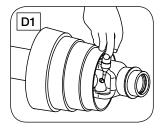


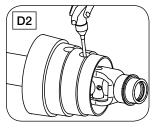
PTO Shaft & Clutch

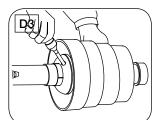
Lubrication (Figs. D1-D6)

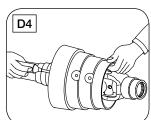
Lubricate with quality grease before starting work and every 8 operating hours. Clean and grease PTO driveshaft before each prolonged period of non-use. Molded nipples on the shield near each shield bearing are intended as grease fittings and should be lubricated every 8 hours of operation! Telescoping members must have lubrication to operate successfully regardless of whether a grease fitting is provided for that purpose! Telescoping members without fittings should be pulled apart and grease should be added manually. Check and grease the guard tubes in winter to prevent freezing.

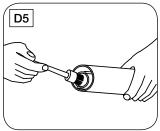


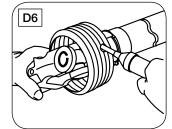












Coupling The PTO Driveshaft (Figs. E1-E2)

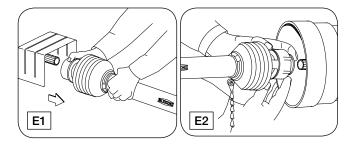
Clean and grease the PTO and implement input connection (IIC)

AS-Lock

 Pull locking collar and simultaneously push PTO driveshaft onto PTO shaft until the locking device engages.

Push-Pull Lock

Pull locking collar and simultaneously push PTO driveshaft onto PTO shaft until the locking device engages.



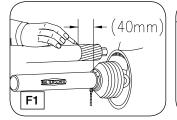
A WARNING

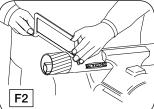
• CHECK TO INSURE ALL THE LOCKS ARE SECURELY ENGAGED BEFORE STARTING WORK WITH THE PTO DRIVESHAFT.

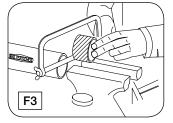
Length Adjustment (Figs. F1-F4)

NOTE: Maximum operating length LB.

- 1. To adjust length, hold the half-shafts next to each other in the shortest working position and mark them.
- 2. Shorten inner and outer guard tubes equally.
- 3. Shorten inner and outer sliding profiles by the same length as the guard tubes.
- 4. Round off all sharp edges and remove burrs. Grease sliding profiles.









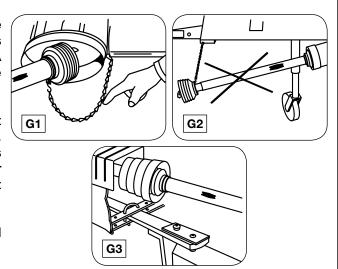
A WARNING

 CHECK THE LENGTH OF THE TELESCOPING MEMBERS TO INSURE THE DRIVELINE WILL NOT BOTTOM OUT OR SEPARATE WHEN TURNING AND/OR GOING OVER ROUGH TERRAIN.

Chains (Figs. G1-G3)

NOTE: The chain is intended to prevent the shield from rotating against non-moving parts and thereby preventing shield damage. A properly installed chain will increase the service life of the shield.

- Chains must be fitted so as to allow sufficient articulation of the shaft in all working positions.
 Care must be taken to be sure that chain does not become entangled with drawbar hitch or other restrictions during operation or transport of machine.
- 2. The PTO driveshaft must not be suspended from the chain.



Shear Bolt & Friction Clutches (Figs. H1-H2)

1. Shear bolt clutches:

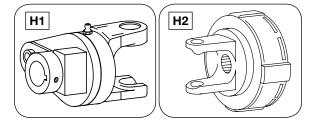
When the torque is exceeded, power flow is interrupted due to the bolt shearing. The torque is re-established by replacing the broken shear bolt. Use only the bolt specified in the Operator's Manual for replacement. Remove locking screw.

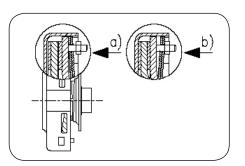


When overload occurs, the torque is limited and transmitted constantly during the period of slipping. Short-duration torque peaks are limited.

Prior to first utilization and after long periods out of use, check working of disk clutch.

- a. Tighten nuts until friction disks are released. Rotate clutch fully.
- b. Turn nuts fully back. Now the clutch is ready for use.



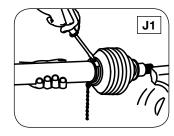


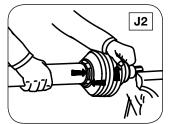
WARNING

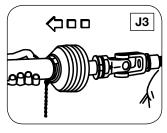
AVOID EXTENDED AND FREQUENT SLIPPAGE OR OVER-LOAD CLUTCHES.

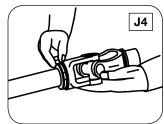
To Dismantle Guard Figs. (J1-J4)

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



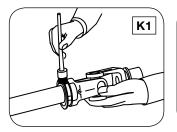


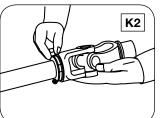


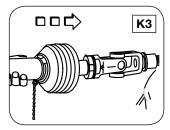


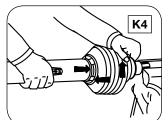
To Assemble Guards Figs. (K1-K5)

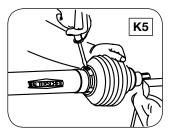
- 1. Grease yoke groove and inner profile tube.
- 2. Fit bearing ring in groove with recesses facing profile tube.
- 3. Slip on half-guard.
- 4. Turn cone until it engages correctly.
- 5. Install locking screw.





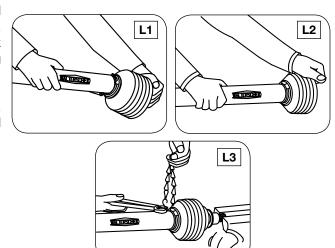






To Assemble Cone Figs. (L1-L3)

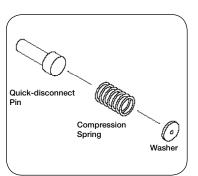
- Dismantle guard (Figs. J1 J3). Remove old cone (e.g. cut open with knife). Take off chain. Place neck of new cone in hot water (approx 80° C /180° F) and pull onto bearing housing (Fig. L1).
- 2. Turn guard cone into assembly position (Fig. L2). Further assembly instructions for guard (Figs. K1 K5).
- 3. Reconnect chain if required (Fig. L3).

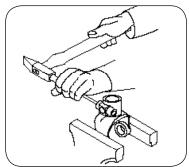


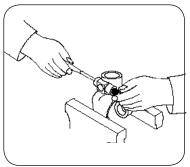
PTO Quick Disconnect

Quick Disconnect Pin

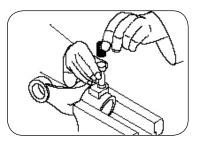
Using a drift punch and hammer, drive the pin towards the retaining washer to force the complete assembly out. Clear the edges of the retaining washer bore to accept the new one by removing the deformed metal from the last peening operation to hold the washer in place.

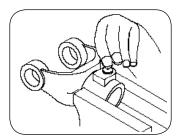


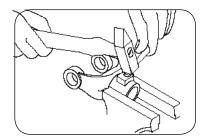




Insert quick-disconnect pin, compression spring and washer into hole, Holding the washer in place, peen the edges of the pore seat to retain the washer, spring and pin.



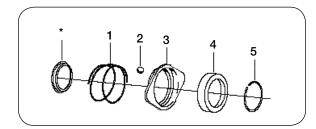




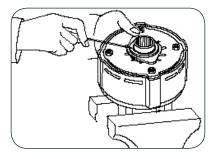
PTO Quick Disconnect (Continued)

Quick Disconnect Disassembly

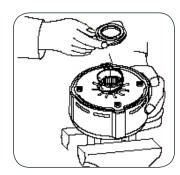
- 1. Compression Spring
- 2. Ball
- 3. Lock Collar
- 4. Back-up ring
- 5. Snap ring
 - * Back-up ring
 - * (For some clutch types, place additional back up ring first).



Compress lock collar (#3) and remove snap ring (#5).

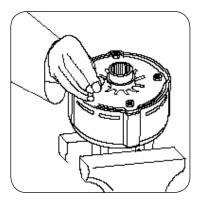


Remove back-up ring, lock collar, compression spring and balls.

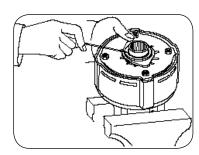


Quick Disconnect Assembly

Insert balls. Place compression spring, lock collar and back-up ring onto the hub. Remove back-up ring, lock collar, compression spring and balls.



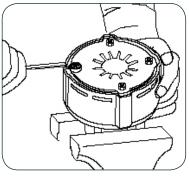


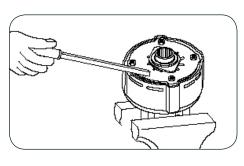


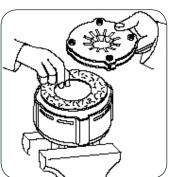
PTO Quick Disconnect (Continued)

Clutch Disassembly

Tighten the four hex nuts (12) uniformly until the clutch pack and hub are loose. Use special tool 9002007 to bend all four retaining lugs back on the edge of the clutch housing. Remove the thrust plate with Belleville springs to get at the friction disks, drive plates and hub for inspection and service.





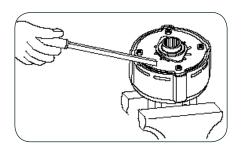


Clutch Assembly

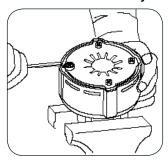
Place hub and friction disks into the clutch housing. Note that items 8 and 9 are only used in the four plate clutch. Next, compress the Belleville spring(s) to the pressure plate by tightening the four hex nuts and placing them into the clutch housing as illustrated.

Use special tool #9002007 to bend the retaining lugs inward over the Belleville spring edges to secure the springs when you back the four hex nuts off. (Note: Wide lugs for one (1) Belleville spring, narrow lugs for two (2) Belleville springs).





With the lugs in place, loosen the four hex nuts completely to the end of the threaded studs. Replace the quick-disconnect assembly.





Auger Maintenance

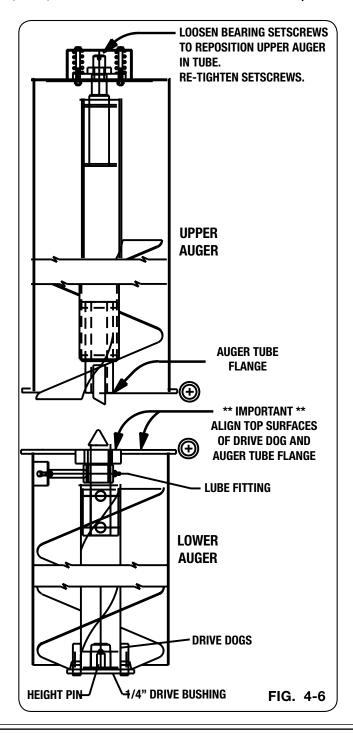
Vertical Auger

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

NOTE: The lower auger position is indexed from the drive dog/tube flange hinge surface, as shown.

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

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

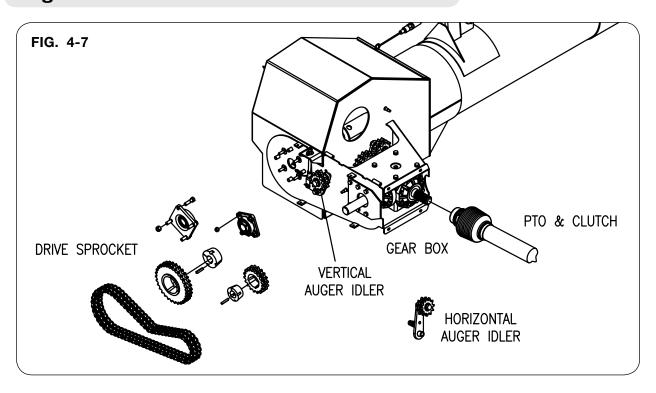


Auger Maintenance (continued)

Horizontal Auger

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

Auger Chain Drive



Wheel, Hub and Spindle Disassembly and Assembly

A WARNING

- TIPPING OR MOVEMENT OF THE MACHINE CAN CAUSE SERIOUS INJURY OR DEATH.
 BE SURE MACHINE IS SECURELY BLOCKED.
- 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 20,000 LBS. SPECIFIC LOAD RATINGS FOR INDIVIDUAL LOADS WILL BE GIVEN AT THE APPROPRIATE TIME IN THE INSTRUCTIONS.

A CAUTION

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

IMPORTANT

- Remove only one wheel and tire from a side at any given time in the following procedure.
- 1. Hitch cart to tractor. Park the empty cart on a firm, level surface. Set the tractor's parking brake, shut off engine and remove key.



- 2. With cart empty, use safe lifting device rated at 10 ton to support the weight of your grain cart. Place the safe lifting device under the axle closest to the tire.
- 3. Use a 1 1/2 ton lifting device to support the wheel and tire during removal.
- 4. Remove the hardware retaining the hubcap. Next, remove the hubcap, gasket, cotter pin, castle nut and spindle washer. Remove hub with bearings from old spindle using a 250 lb. lifting device.

Wheel, Hub and Spindle Disassembly and Assembly (cont)

5. Inspect the spindle and replace if necessary. If spindle does not need to be replaced, skip to Step 6; otherwise continue with Step 5.

Remove the bolt and lock nut that retains the spindle to the axle. Using a lifting device rated for 200 lbs, replace the old spindle with a new spindle. Coat axle contact length of spindle shaft (scale or non-scale) with anti-seize lubricant prior to installation. If installing scale spindle, install with 'top' decal facing upwards. Reuse bolt and lock nut to retain spindle to axle. Tighten as outlined in Maintenance Section.

- 6. Remove seal and inspect bearings, spindle washer, castle nut and cotter pin. Replace if necessary. Pack both bearings with approved grease and reinstall inner bearing. Install new seal in hub with garter spring facing the hub by tapping on flat plate that completely covers seal while driving it square to hub. Install until flush with back face of hub. Using a 250 lb rated lifting device, install hub assembly onto spindle. Install outer bearing, spindle washer and castle nut.
- 7. Slowly tighten castle nut while spinning the hub until hub stops rotating. Do not use an impact! Turn castle nut counterclockwise until the hole in the spindle aligns with the next notch in castle nut. Hub should spin smoothly with little drag and no end play. If play exists, tighten to next notch of castle nut. If drag exists, then back castle nut to next notch of castle nut. Spin and check again. Install cotter pin. Clean face for hub cap gasket and install gasket, grease filled hub cap and retain hubcap with hardware removed. Tighten hubcap hardware in alternating pattern.
- 8. Attach the wheel(s) and tire(s) to the hub using the same rated lifting device for removal. Tighten wheel nuts to appropriate requirements and recheck as outlined in the Wheel and Tire section of this manual.
- 9. Raise cart, remove safe lifting device and lower tire to the ground.

Wheels and Tires

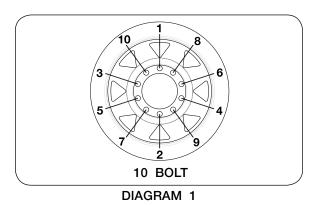
Wheel Nut Torque Requirements



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

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

WHEEL HARDWARE		
SIZE	FOOT-POUNDS	
7/8-14 (UNF)	440 ftlbs.	
M22x1.5	475 ftlbs.	



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 specific brand of tire used. It is important that tires are inspected after unit is loaded. Start with minimum pressure indicated. The tire should stand up with no side-wall buckling or distress as tire rolls. Record the pressure needed to support the full load and maintain this pressure to achieve proper tire life. Do not exceed maximum recommended tire pressure. 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 when mounting.

Tire Pressure for Grain Carts			
		Load Index / Ply	
Tire Make	Tire Size	Rating	Max. PSI
Firestone	23.1x26 R-3	12	32
	23.1x26 R-1	12	32
	28Lx26 R-3	12	26
	24.5x32 R-3	12	32
	24.5x32 R-1	12	32
	30.5x32 R-1	14	28
	30.5x32 R-3	14	28
	30.5x32 R-3	16	34
	30.5x32 R-1	16	26
	35.5x32 R-3	20	36
	76x50.00x32 HF-3	16	40
	76x50.00x32 HF-3	20	50
	800/65R32 R-1W	172A8	44
	800/60R32 R-3	181B	46
	900/65R32 R-3	191B	46
	900/60R32 R-1	176A8	44
	1250/50R32F IF/CFO R-1WNP	201D	46
	1250/50R32F IF/CFO R-1W	188B	30
	520/85R38 R-1	155A8	29
	520/85R38 R-1	173A8	64
	480/80R42 R-1	151A8	36
	520/85R42 R-1	157A8	29
	520/85R42 R-1	165A8	51
	520/85R42 IF/CFO R-1	169A8/B	35
	520/85R42 R-1W	169B	35
	420/80R46 R-1	151A8	44
	480/80R46 R-1	158A8	44
	380/90R46 R-1	152B	51

Wheels and Tires (continued)

Tire Pressure (continued)

	Tire Pressure for Grain Carts	3	
		Load Index / Ply	
Tire Make	Tire Size	Rating	Max. PSI
Titan/Goodyear	23.1x26 R-3	10	26
	23.1x26 R-1	10	26
	24.5R32 R-1	169A8/B (5-Star)	48
	24.5x32 R-3	12	32
	24.5x32 R-1	12	32
	30.5x32 R-3	16	26
	30.5x32 R-3	14	22
	30.5x32 R-1	14	22
	480/80x42 R-1	166A8	23
	1100/45R46 F-1W	195D	35
Mitas	650/75R32 R-1W	172A8	58
	900/60x32 R-1W	176A8	41
	900/70R32 R-1W	188A8	53
	1050/50x32 R-1W	178A8	41
	1250/50R32 R-1W	188A8	41
	900/60x38 R-1W	181A8	44
	520/85x42 R-1W	162A8	44
	650/65x42 R-1W	168A8	44
Alliance	35.5LR32	193A8	44
	900/60R32 R-1W	192D	46
	1050/50R32 R-1W	185A8	63
	1250/50R32 R-1W	201B	46
Trelleborg	VF1050/50R32 R-1	198D	52
-	900/50R32 R-1W	181A8	55
	900/60x32	176LI	44
	850/55R42 R-1W	161A8	32

^{*}Each tire must be inflated to 35 PSI max to set the beads, deflated to 5-10 PSI and reinflated to the tire's max PSI.

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	Trelleborg	www.trelleborg.com Phone 866-633-8473
Titan or Goodyear	www.titan-intl.com Phone 800-USA-BEAR Fax 515-265-9301	Continental/Mitas	www.mitas-tires.com Phone 704-542-3422 Fax 704-542-3474
		Alliance	www.atgtire.com Phone 781-325-3801

Seasonal Storage

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

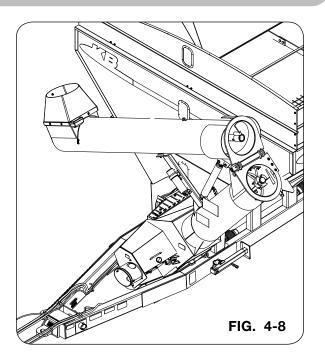
Wash machine inside and out before storing to remove dirt and debris that can draw and collect moisture. When using pressure washers maintain an adequate distance so not to force water into bearings.

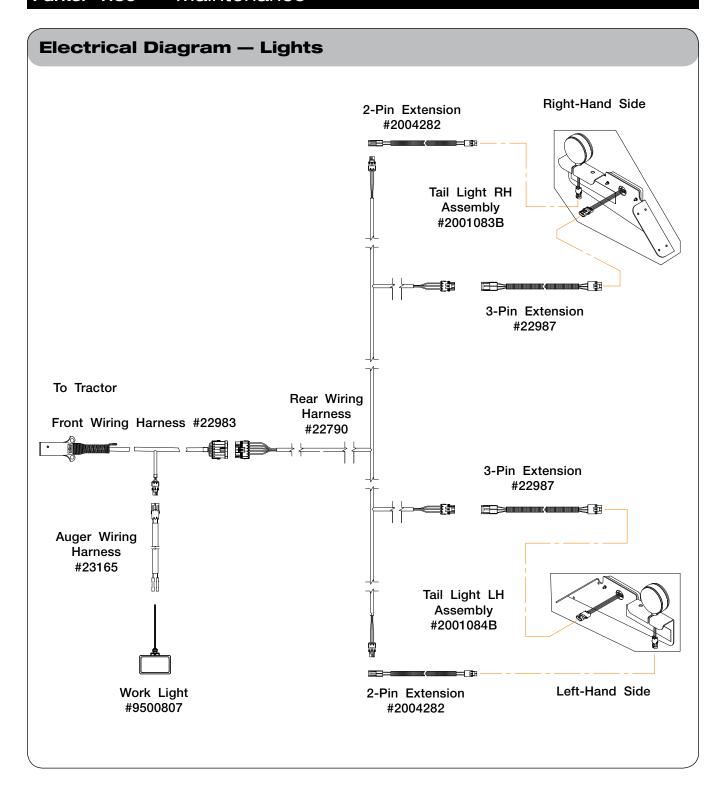
Lubricate machine at all points outlined.

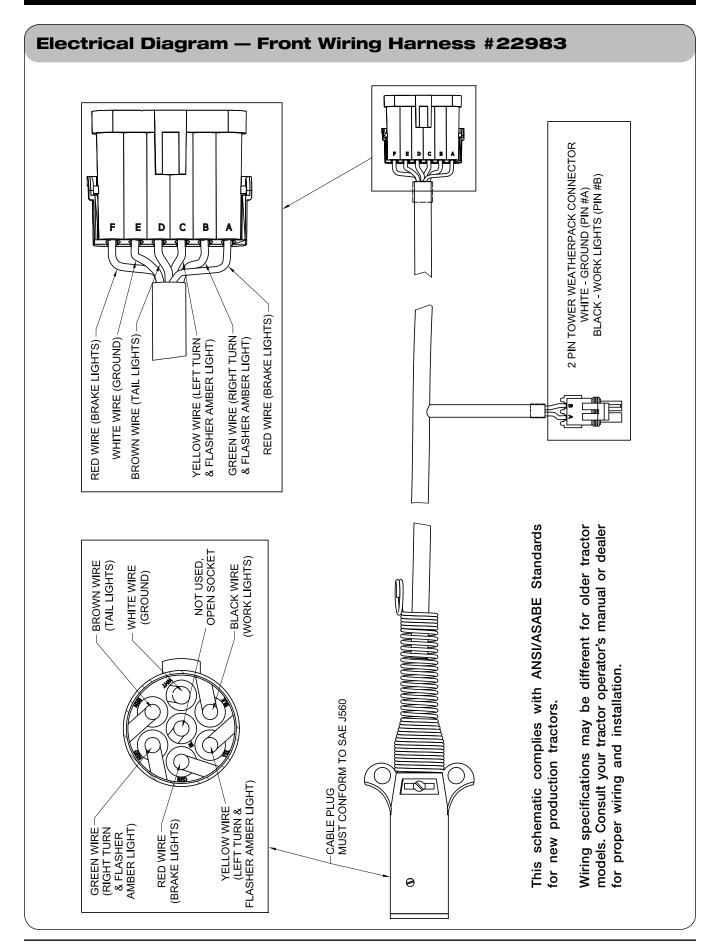
Repaint all areas where paint has been removed to keep from rust developing. Rust will affect grain flow.

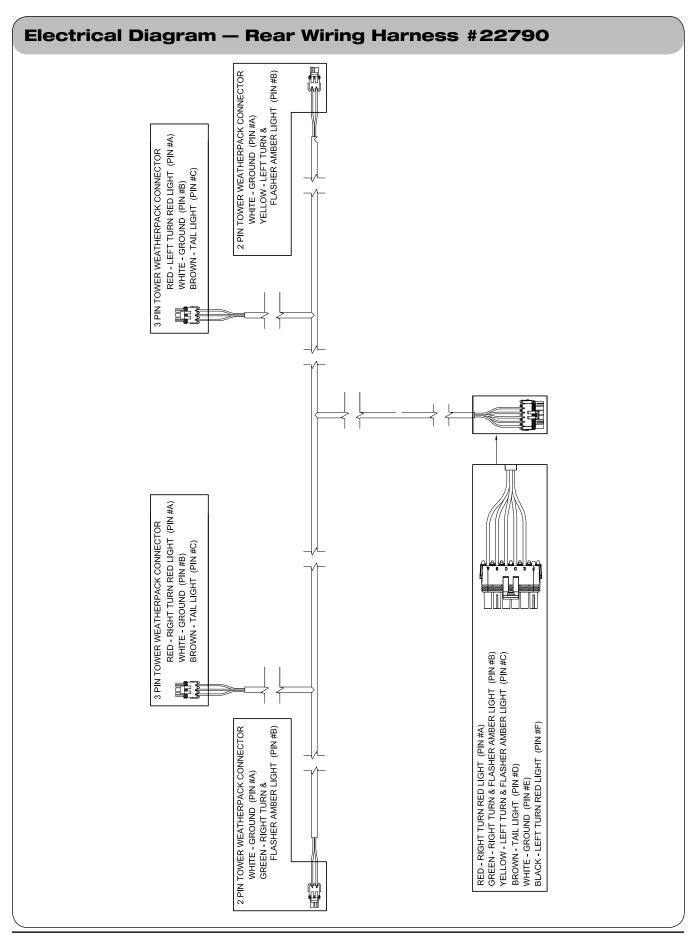
Coat exposed cylinder piston rods with rust preventative material if applicable.

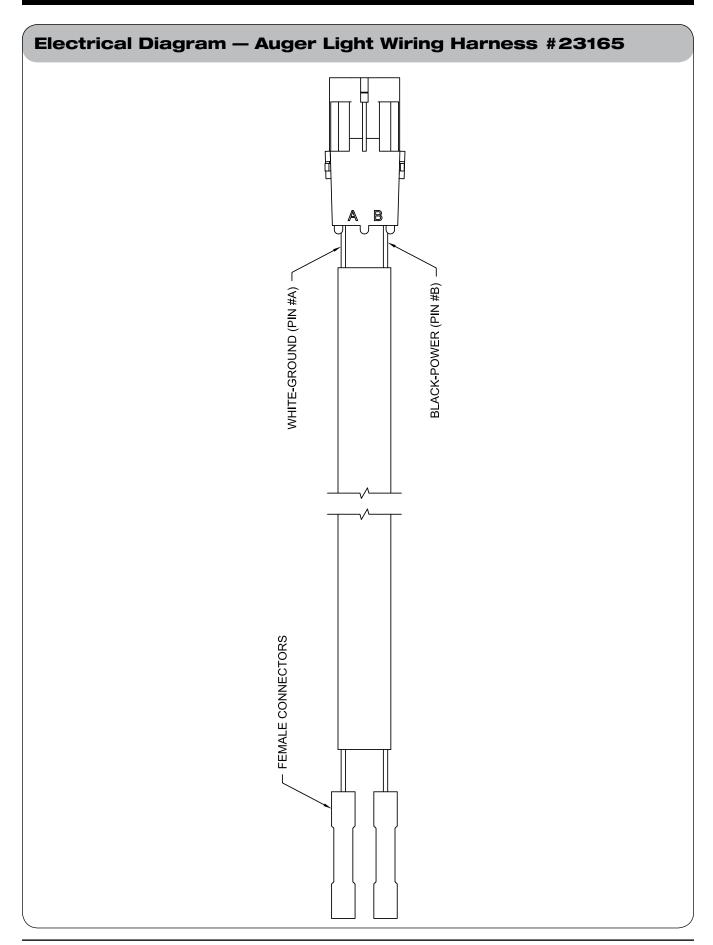
Inspect machine for parts that may need to be replaced so they may be ordered in the off season.



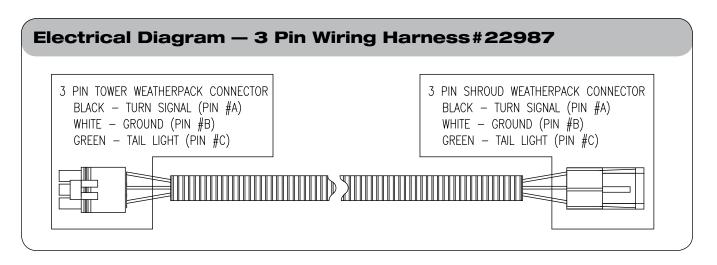


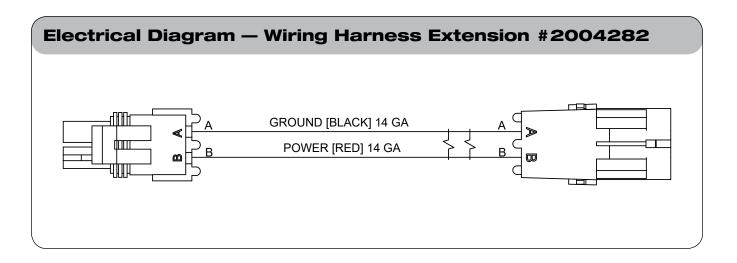


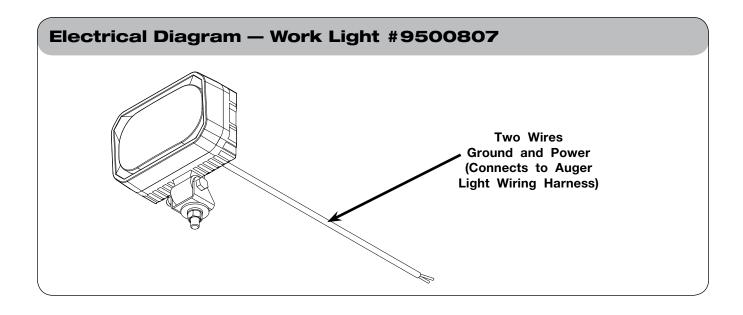




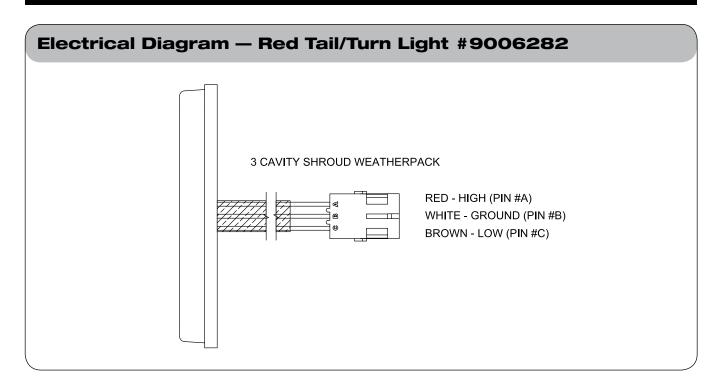
Parker 1150 — Maintenance

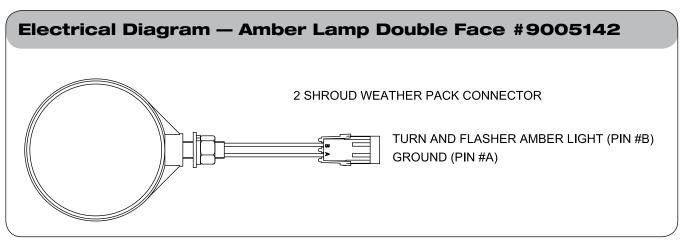






Parker 1150 — Maintenance





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.





SIZE	FOOT POUNDS	NEWTON METERS
1/1 00		
1/4-20	8-10	11-13
1/4-28	9-11	12-15
5/16-18	15-17	20-23
5/16-24	17-19	23-26
3/8-16	25-28	34-38
3/8-24	28-31	38-42
7/16-14	40-45	54-61
7/16-20	45-50	61-68
1/2-13	62-68	84-92
1/2-20	68-75	92-102
9/16-12	90-98	122-133
9/16-18	100-110	134-148
5/8-11	120-135	162-183
5/8-18	124-137	168-186
3/4-10	200-220	270-300
3/4-16	210-230	285-310
7/8-9	330-350	425-475
7/8-14	360-380	460-515
1-8	500-525	675-710
1-14	540-560	730-760
1 1/8-7	600-635	815-860
1 1/8-12	665-700	920-950
1 1/4-7	850-895	1150-1215
1 1/4-12	940-990	1275-1340
1 3/8-6	1125-1175	1525-1590
1 3/8-12	1280-1335	1735-1810
1 1/2-6	1500-1560	2035-2115
1 1/2-12	1685-1755	2285-2380

IMPORTANT

• Follow these torque recommendations except when specified in text.

Complete Torque Chart

Capscrews - Grade 8

NOTE:

- Grade 8 capscrews can be identified by six radial dashes on the head.
- For 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
1/2-13	82-88	110-120
1/2-20	94-99	125-135
9/16-12	127-134	170-180
9/16-18	147-155	199-210
5/8-11	160-170	215-230
5/8-18	165-175	225-235
3/4-10	280-295	380-400
3/4-16	330-365	445-495
7/8-9	410-430	555-580
7/8-14	420-440	570-595
1-8	630-650	850-880
1-14	680-700	920-950
1 1/8-7	900-930	1220-1260
1 1/8-12	930-950	1260-1290
1 1/4-7	1250-1300	1695-1760
1 1/4-12	1280-1320	1735-1790

IMPORTANT

• Follow these torque recommendations except when specified in text.

Hydraulic Fittings - Torque and Installation

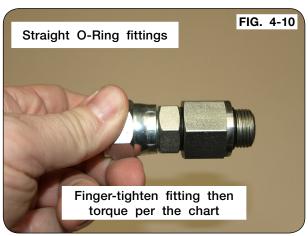
Tightening O-Ring Fittings

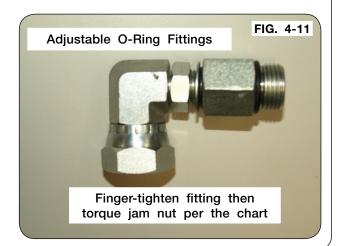
- Inspect components for damage or contamination. Do not connect any other type of fitting to an O-ring fitting.
- 2. For adjustable fittings, insure the jam nut and washer are fully backed up.
- 3. Lubricate the O-ring and threads on the fitting.
- 4. Turn the fitting into the port until it is finger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

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

Dash	Thread	Straight	Adjust-
Size	Size	Stud	able Stud
		Torque	Torque
		(Ft-Lbs)	(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







Parker 1150 — Maintenance

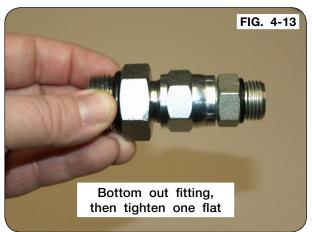
Hydraulic Fittings - Torque and Installation (continued)

Tightening JIC Fittings

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

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





SECTION V

Parts

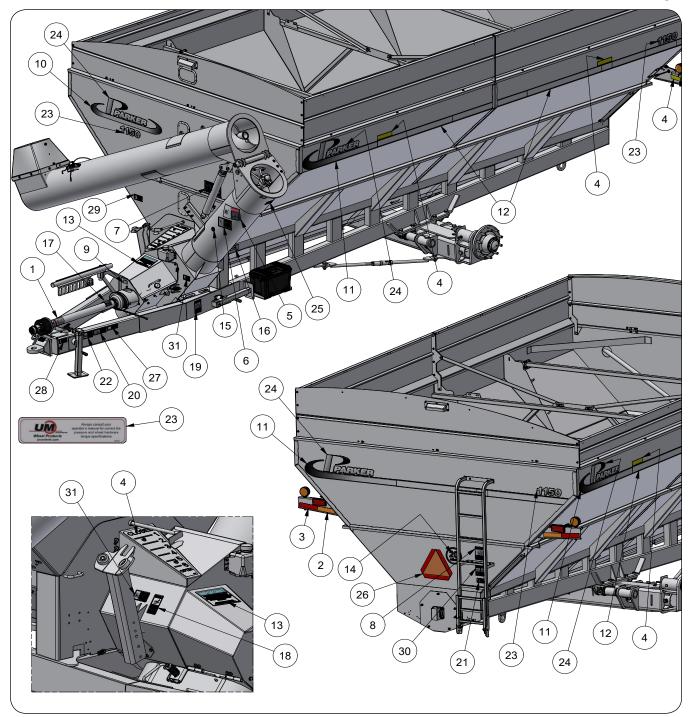
Decals	5-2
Touch-Up Paint	5-3
Hitch, Transport Chain, and Miscellaneous Tongue Components	5-4
Indicator Components	5-6
Axle Assembly	5-8
Hub & Spindle Components	5-10
Wheels & Tires	5-12
Track Axle Components	5-13
Ladder Assembly	5-14
Sideboards	5-16
Vertical Lower Auger Door Panel & Flighting Components	5-18
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FOR TARP INFORMATION, PLEASE REFER TO YOUR TARP MANUAL.
FOR SCALE INFORMATION, PLEASE REFER TO YOUR SCALE MANUAL.
FOR UHARVEST PRO INFORMATION, PLEASE REFER TO YOUR UHARVEST MANUAL.
FOR TRACKS INFORMATION, PLEASE REFER TO YOUR TRACKS MANUAL.

Parker 1150 — Parts

Decals

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



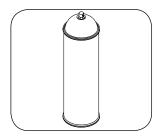
ITEM	PART NO.	DESCRIPTION	QTY	NOTES
1	92377	Decal - Danger Rotating Driveline	1	
2	9003125	Fluorescent Strip - Orange	1	
3	9003126	Reflector Strip - Red	1	
4	9003127	Reflector Strip - Amber	4	

Decals

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

ITEM	PART NO.	DESCRIPTION	QTY	NOTES
5	9003474	Danger Decal - Electric Shock	1	
6	9003476	Warning Decal - No Riders	1	
7	9003477	Decal - Important Operation	1	
8	9003478	Decal - Never Play On or In	1	
9	9003574	Important Decal - Shear Bolts	1	
10	9004173	Decal - Double Swoosh, 6 1/2"x44 1/2"	1	
11	9004174	Decal - LH Swoosh, 8 1/2"x46"	3	
12	9004175	Decal - Parker Stripe, 3 1/4"x46"	12	
13	9008151	Decal - Pto Engagement	1	
14	9008714	Decal - Sis, 20 Mph, Rear	1	
15	9008715	Decal - Sis, 20 Mph, Front	1	
16	91605	Decal - Fema/Member Farm	1	
17	92378	Danger Decal - Pto Guard	1	
18	93551	Warning Decal - Hydraulic Pressure	1	
19	93552	Danger Decal - Auger	1	
20	94094	Warning Decal - Tongue	1	
21	95008	Caution Decal - Slippery Surface	1	
22	95046	Decal Danger - Driveline	1	
23	9504968	Decal - 1150, 3 1/2"x12 1/4"	4	
24	9504970	Decal - Parker Logo, 8"x25"	4	
25	95839	Warning Decal - Pinch Point	1	
26	97530	Smv Decal	1	
27	97575	Caution Decal - Transport Chains	1	
28	97961	Warning Decal - Operators Manual	1	
29	98229	Warning Decal - Lower Equip	1	
30	98279	Danger Decal - Auger Entanglement	1	
31	TA1-906109-0	Warning Decal - Moving Part	2	
32	94754	Wheel Systems Decal	2	

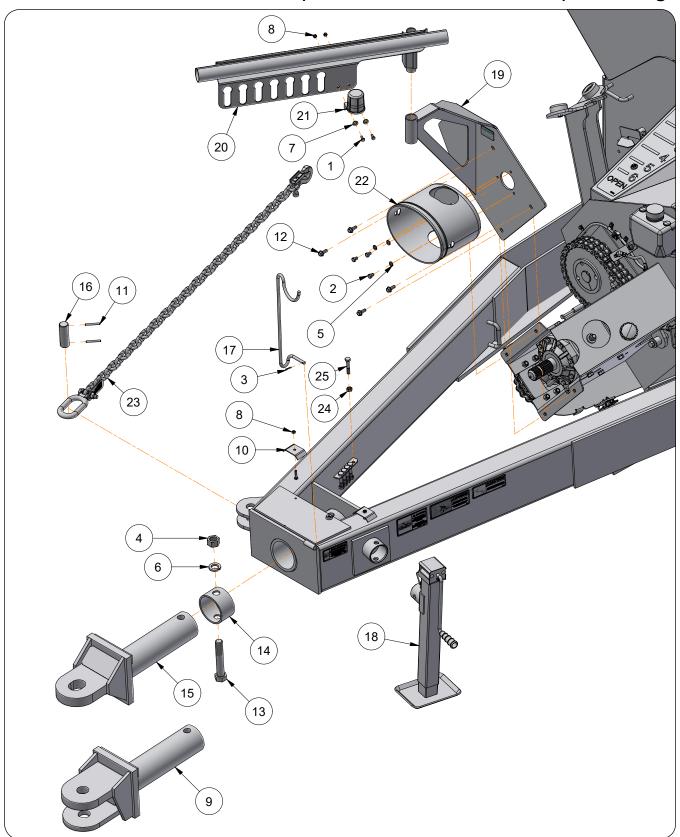
Touch-Up Paint



SPRAY PAINT COLOR	TOUCH-UP PAINT		
Red	97301		
Green	97015		
Black	97013		
Black Metallic	2012467		

Hitch, Transport Chain, and Miscellaneous Tongue Components

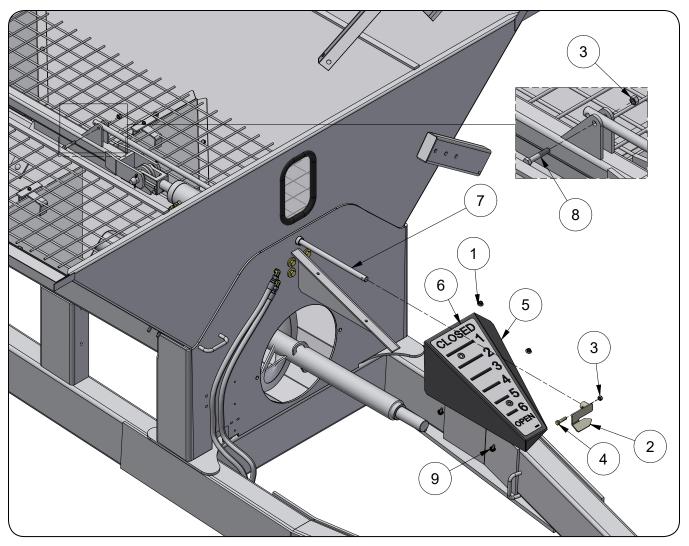
Please visit www.unverferth.com/parts/ for the most current parts listing.



Hitch, Transport Chain, and Miscellaneous Tongue Components

ITEM	PART NO.	DESCRIPTION	QTY	NOTES
1	9390-003	Capscrew 1/4" x 3/4" UNC GR5	2	
2	9390-051	Capscrew 3/8" x 1/2" UNC GR5	3	
3	9391-022	Cotter Pin 1/8" x 3/4"	1	
4	9394-020	Hex Nut 1"-8 UNC GR5	1	
5	9404-021	Lock Washer 3/8" (.382)	3	
6	9404-041	Lock Washer 1"	1	
7	9405-064	Flat Washer 1/4" USS	4	
8	9936	Locknut 1/4"-20	4	
9	23253	Clevis Hitch Weldment	1	Optional
10	24901B	Clamp =Black=	2	
11	91144-166	Spiral Pin 1/4" Dia. x 2"	2	
12	91262	Flange Screw 3/8" x 1"	4	
13	91299-195	Capscrew 1" x 6" UNC GR 8	1	
14	102586B	Hitch Coupler =Black=	1	
15	103641B	Spade Hitch Weldment =Black=	1	
16	108047	Pin, 1 1/4" Dia. x 3 3/4"	1	
17	297558	Rod - Driveline Storage, 3/8" Dia. Hard Drawn Spring Steel	1	
18	901235	Jack - 3,000# Lift, 5,000# Static Capacity	1	
19	2011990B	Hose Caddy Mount =Black=	1	
20	2012171B	Hose Caddy Weldment =Black=	1	
21	9001968	Holder, Trailer Connector	1	
22	9002499	PTO Guard	1	
23	9003278	Transport Chain, 20,200#	1	
24	9003645	Locknut, M10 x 1.5	5	
25	9003646	Capscrew, M10 x 1.5 x 60mm	5	

Indicator Components

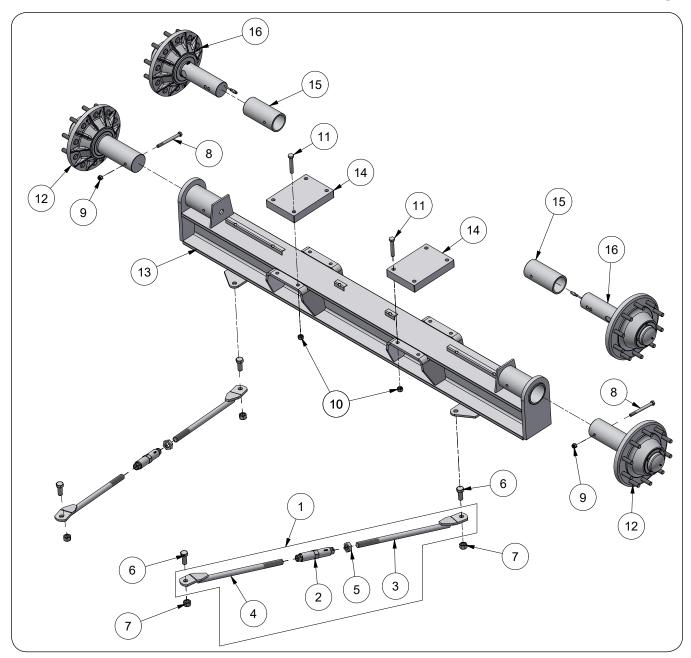


ITEM	PART NUMBER	DESCRIPTION	QTY	NOTES
1	91257	Hex Nut/Large Flange, 5/16"-18UNC	2	
2	24644B	Indicator Weldment =Black=	1	
3	9928	Locknut/Top, 3/8"-16UNC	2	
4	9390-057	Capscrew, 3/8"-16UNC x 1 1/2" G5	2	
5	24640B	Cover Assembly =Black= w/Gate Position Decal	1	
6	24641	Decal, Gate Position	1	
7	24637B	Gate Rod/Bar =Black=	1	
8	9390-059	Capscrew, 3/8"-16UNC x 2" G5	1	
9	91256	Flange Screw, 5/16"-18UNC x 3/4" G5	2	

Parker 1150 — Parts

Notes

Axle Assembly

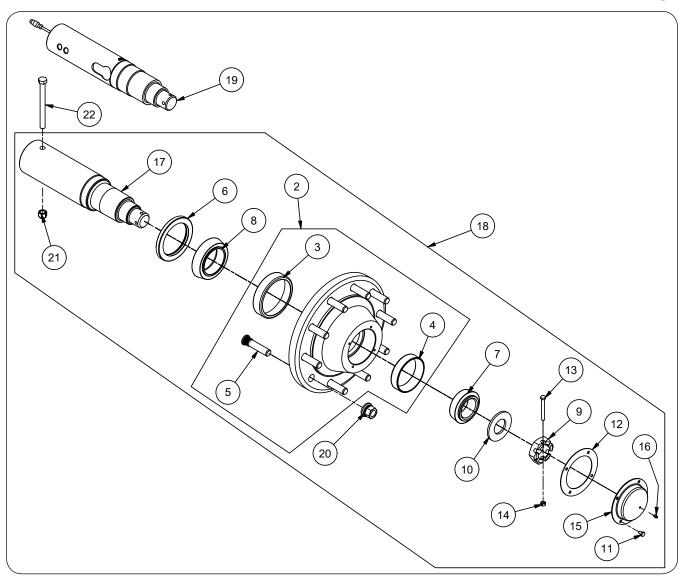


Parker 1150 — Parts

Axle Assembly

ITEM	PART NO.	DESCRIPTION	QTY	NOTES
1	266662B	Axle Brace/Turnbuckle Assembly =Black=	2	Includes Items 2-5
2	62324	Turnbuckle	1	
3	266660B	Axle Brace Weldment Right-Hand =Black=	1	
4	266661B	Axle Brace Weldment Left-Hand =Black=	1	
5	9395-041	Heavy Hex Jam Nut, 1 1/4"-7UNC	1	
6	9390-185	Capscrew, 1"-8UNC x 2 1/2" G5	4	
7	9663	Locknut/Top, 1"-8UNC	4	
8	9390-138	Capscrew, 5/8"-11UNC x 7" G5	2	
9	9398-019	Elastic Locknut, 5/8"-11UNC	2	
10	9802	Locknut/Top, 3/4"-10UNC	8	
11	91299-154	Capscrew, 3/4"-10UNC x 4 1/2" G8	8	
12	284268B	Hub and Spindle Assembly (No-Scale Units Only)	2	
13	28192B	Axle Weldment =Black=	1	
14	28202B	Spacer Plate =Black=	2	
15	23248	Tube (Scale Units Only)	2	
16	267203B	Hub and Spindle Assembly (Scale Units Only)	2	

Hub & Spindle Components

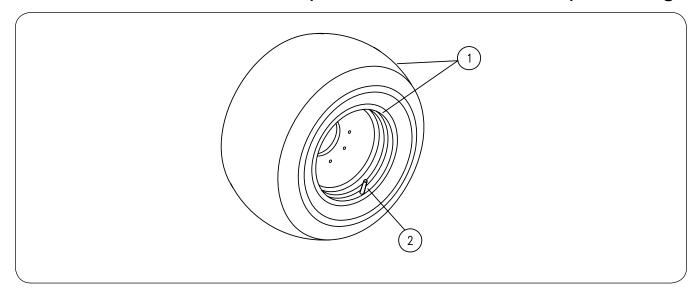


Hub & Spindle Components

ITEM	PART NUMBER	DESCRIPTION	QTY	NOTES
1	267284B	Hub & Spindle Assembly =Black=	-	For Units With NO Scales Includes 2 through 17
2	265390B	Hub Sub Assembly =Black=	1	Includes Items 3, 4, 5
3	92476	Bearing Cup, 5.786" OD x 1.2795"	1	HM218210
4	92462	Bearing Cup, 4.8125" OD x 1.170"	1	HM212011
5	9007001	Stud Bolt, M22 x 1.5 x 4	10	
6	92455	Seal, 4.375" I.D.	1	43605SA
7	92464	Bearing Cone, 2.625" Bore x 1.510"	1	HM212049
8	92545	Bearing Cone, 3.5423" Bore x 1.5748"	1	HM218248
9	92470	Castle Nut, 2"-12UNF	1	
10	92472	Spindle Washer	1	
11	9390-026	Capscrew, 5/16"-18UNC x 1/2" G5	4	
12	284230	Gasket, 6 1/2" OD x 4 1/2" ID	1	
13	9390-064	Capscrew, 3/8"-16UNC x 3 1/4" G5	1	
14	902875	Locknut/Center, 3/8"-16UNC	1	
15	286171B	Hub Cap =Black=	1	
16	91160	Grease Zerk	1	
17	286172	Spindle 4 1/2" Dia. with 2-12UNF Threaded End	1	For Units With NO Scales
18	267278B	Hub & Spindle Assembly =Black=	-	For Units With Scales Includes 2 through 16 & 18
19	9006347	Load Bar Spindle, 3 3/4" Dia. 2-12UNF Threaded End	1	For Units With Scales
20	97319	Flanged Cap Nut, M22 x 1.5	10	
21	9398-019	Elastic Locknut, 5/8"-11UNC	1	
22	9390-138	Capscrew, 5/8"-11UNC x 7" G5	1	

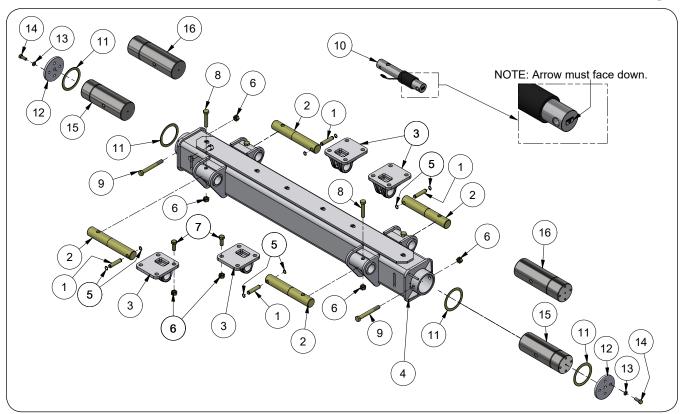
Parker 1150 — Parts

Wheels & Tires



ITEM	PART NO.	DESCRIPTION	NOTES
4	18904	Wheel & Tire Assembly 30x32 / 900/70R32 R-1W	
'	17939SM	Wheel Only 30x32	
1	17923	Wheel & Tire Assembly 36x32 / 1050/50R32	
'	17922W0	Wheel Only 36x32	
2	93300	Valve Stem	
2	95365	Plug	

Track Axle Components



ITEM	PART NO.	DESCRIPTION	QTY	NOTES
1	250843	Pin 1" Dia. x 4 9/16	4	
2	268289	Hitch Bar, 2.875" Dia.	4	For Units with NO Scales
3	268836B	Axle Mount Weldment =Black=	4	
4	28985B	Axle Weldment =Black=	1	
5	91192	Retaining Ring 1"	8	
6	92199	Locknut/Center, 1"-8UNC	22	
7	9390-185	Capscrew, 1"-8UNC x 2 1/2" G5	16	
8	9390-193	Capscrew, 1"-8UNC x 5" G5	4	
9	9390-462	Capscrew, 1"-8UNC x 8 1/2" G5	2	
10	9004903	Hitch Bar, 2.875" Dia.	4	For Units with Scales Only
11	268619	Washer, 7 1/2" OD	4	
12	268121B	Cover Plate =Black=	2	
13	9404-033	Lockwasher 3/4	8	
14	9390-145	Capscrew 3/4-10UNC x 2 Grade 5	8	
15	268640	Track Pivot Shaft, 6" Dia. x 16 5/8	2	
16	267124	Track Pivot Shaft, 6" Dia. x 18 3/8	2	

Ladder Assembly

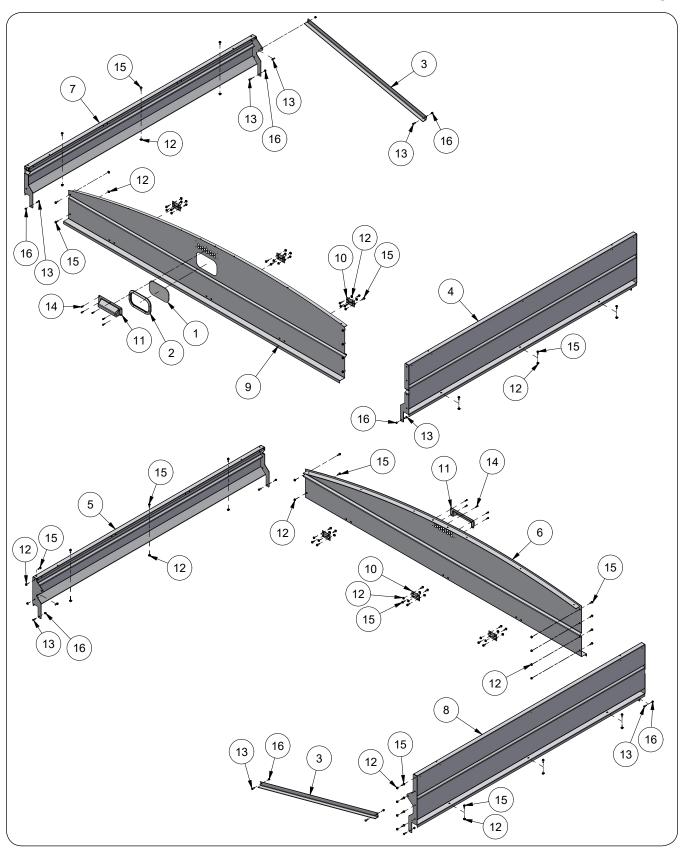


Parker 1150 — Parts

Ladder Assembly

ITEM	PART NO.	DESCRIPTION	QTY	NOTES
	24873B	Ladder Assembly =Black=	1	
1	9928	Locknut/Top, 3/8"-16UNC	2	
2	97604	Flange Screw, 5/16"-18UNC x 1"	5	
3	91257	Hex Nut/Large Flange, 5/16"-18UNC	5	
4	25458B	Ladder Weldment =Black=	1	
5	25457B	Ladder Step Weldment =Black=	1	
6	9000938	Lynch Pin, 3/8" Dia. x 2 1/4"	1	
7	9390-060	Capscrew, 3/8"-16UNC x 2 1/4" G5	2	

Sideboards

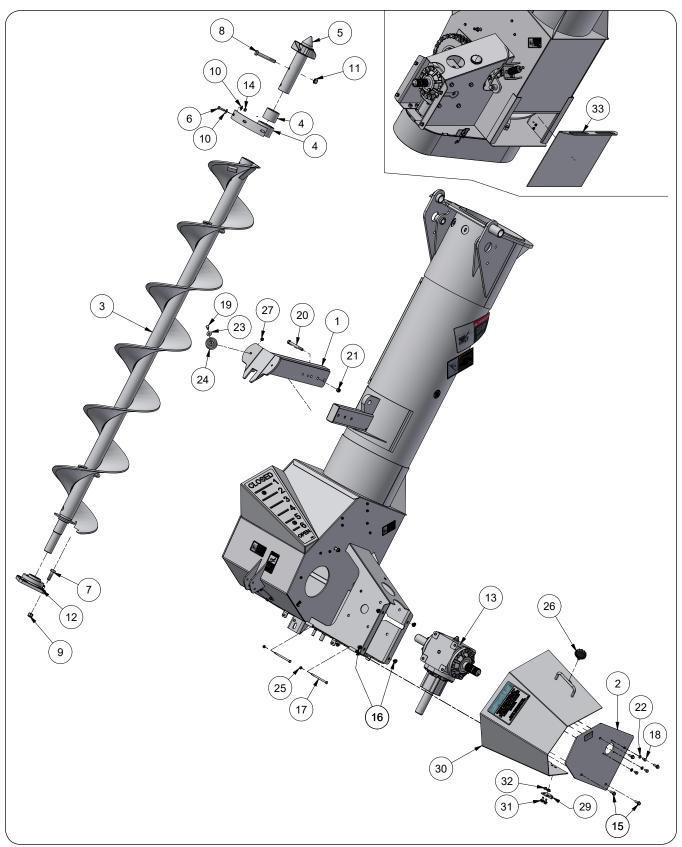


Parker 1150 — Parts

Sideboards

ITEM	PART NO.	DESCRIPTION	QTY	NOTES
1	102608	Window (Clear Glass)	1	
2	102693	Weatherstrip	1	
3	25039B	Sideboard Angle 62 1/2"	2	
4	25311B	Front Sideboard Weldment 22" =BLACK=	1	
5	25312B	Rear Sideboard Weldment 12" =BLACK=	1	
6	25318B	Rear Board Weldment 12"-22" =BLACK=	1	
7	25321B	Front Sideboard Weldment 12" =BLACK=	1	
8	25324B	Rear Sideboard Weldment 22" =BLACK=	1	
9	25326B	Front Board Weldment 12"-22" =BLACK=	1	
10	9004626	Hinge	6	
11	9009504	Endcap Vent Cover	2	
12	91257	Hex Nut/Large Flange, 5/16-18UNC	42	
13	9390-055	Capscrew, 3/8'-16UNC x 1" G5	18	
14	9512	Screw/Self Drill, 1/4-14 x 1"	10	
15	97604	Flange Screw, 5/16"-18UNC x 1" G5	54	
16	9928	Locknut/Top, 3/8"-16UNC	18	

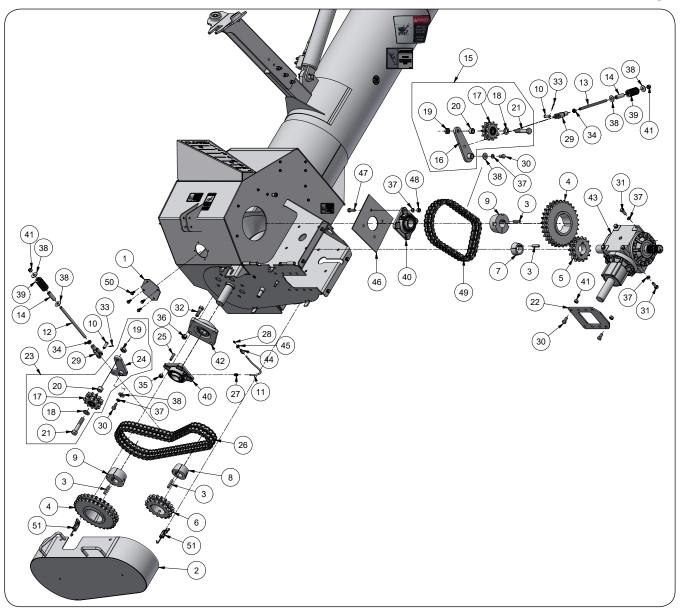
Vertical Lower Auger Door Panel & Flighting Components



Vertical Lower Auger Door Panel & Flighting Components

ITEM	PART NO.	DESCRIPTION	QTY	NOTES
1	2011827B	Rest Stand Weldment =Black=	1	
2	23106B	Plate with Holes, 13 3/8" x 19"	1	
3	23028B	Flight Weldment RH, 15" Dia. x 96 1/2" =Black=	1	
4	23081B	Bearing Weldment =Black=	1	
5	28977	Drive Dog, Three Lobe	1	
6	9390-056	Capscrw, 3/8"-16UNC x 1 1/4" G5	3	
7	9390-124	Capscrew, 5/8"-11UNC x 2" G5	4	
8	9390-133	Capscrew, 5/8"-11UNC x 4 1/2" G5	2	
9	9398-019	Elastic Locknut, 5/8"-11UNC	4	
10	9405-076	Flat Washer, 3/8" USS	6	
11	9801	Locknut/Top, 5/8"-11UNC	2	
12	98116	Flange Bearing Assembly 4 Bolt with Set Screws	1	
13	98120	Gearbox, 1000 RPM 1 3/4-20 Spline Shaft & 1 3/4" Dia. x 3/8" Keyways	1	
14	9928	Locknut/Top, 3/8"-16UNC	4	
15	91262	Flange Screw, 3/8"-16UNC x 1" G5	4	
16	91263	Nut/Large Flange, 3/8"-16UNC	6	
17	9390-043	Capscrew, 5/16"-18UNC 4 1/2" G5	2	
18	9390-051	Capscrew, 3/8"-16UNC x 1/2" G5	3	
19	9390-056	Capscrew, 3/8"-16UNC x 1 1/4" G5	2	
20	9390-111	Capscrew, 1/2"-13UNC x 4" G5	3	
21	9398-016	Elastic Locknut, 1/2"-13UNC	3	
22	9404-021	Lock Washer, 3/8"	11	
23	9405-076	Flat Washer, 3/8" USS	10	
24	97896	Rubber Bumper, 2 1/2" Dia.	2	
25	9807	Locknut/Top, 5/16"-18UNC	2	
26	98356	Knob/Round Fluted Rim	1	
27	9928	Locknut/Top, 3/8"-16UNC	14	
28	9936	Locknut/Top, 3/8"-16UNC	4	
29	23378B	Hinge Weldment =Black=	2	
	23380G	Shield Weldment =Green=		
30	23380R	Shield Weldment =Red=	1	
	23380M	Shield Weldment =Midnight Gray Metallic=		
31	91256	Flange Screw, 5/16"-18UNC x 3/4" G5	4	
32	91257	Hex Nut/Large Flange, 5/16"-18UNC	4	
33	2004555B	Door Panel =Black=	1	

Vertical Lower Auger Idlers, Sprockets, and Chains

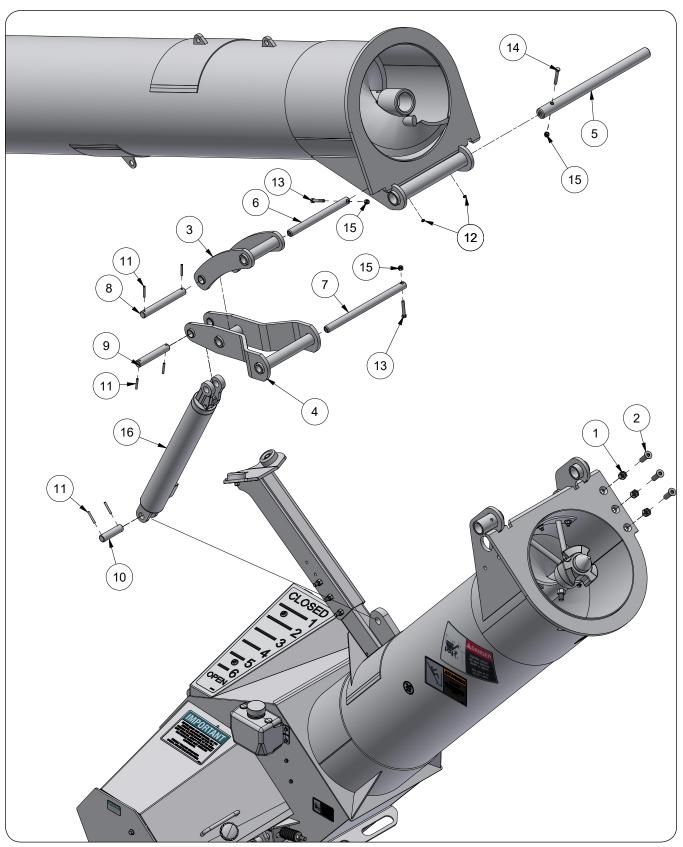


ITEM	PART NO.	DESCRIPTION	QTY	NOTES
1	2001446B	Cover Plate =Black=	1	
2	27395B	Guard Weldment w/Handles =Black=	1	
3	100775	Key, 3/8" x 3/8" x 2"	4	
4	102245	Sprocket Taper (30 Teeth)	1	
5	102243	Sprocket Taper (15 Teeth)	1	
6	102244	Sprocket Taper (18 Teeth)	1	
7	102246	Taper Lock Bushing, 1 3/4" ID x 2 3/4" OD x 1 1/4" with Set Screws	1	
1	9399-100	Set Screw, 7/16"-14UNC x 7/8"	2	
8	102247	Taper Lock Bushing, 1 3/4" ID x 3 3/8" OD x 1 3/4" with Set Screws	1	
O	9399-100	Set Screw, 7/16"-14UNC x 7/8"	2	
9	102248	Taper Lock Bushing, 1 3/4" ID x 4 1/4" OD x 2" with Set Screws	2	
9	9399-120	Set Screw, 5/8"-11UNC x 1 1/4"	2	

Vertical Lower Auger Idlers, Sprockets, and Chains

ITEM	PART NO.	DESCRIPTION	QTY	NOTES
10	104559	Clevis Pin, 1/2" Dia. x 1 17/32" =Black=	2	
11	24397	Grease Tube (Steel)	1	
12	2012406	Thread Rod, 1/2"-13UNC x 10"	1	
13	2012407	Thread Rod, 1/2"-13UNC x 8 1/4"	1	
14	2012589Y	Spring Guide, 3/4" OD x .532" ID x 2 1/4" =Implement Yellow=	2	
15	23090B	Idler Arm Assembly =Black=	1	
16	23089B	Idler Arm Weldment =Black=	1	
17	9002486	Sprocket (11 Teeth) #80 Double Chain	1	
18	91050	Flat Washer, 13/16" (Hardened)	1	
19	9395-016	Hex Jam Nut, 3/4"-10UNC G2	1	
20	23096	Tube/Bushing, 1 1/8" OD x .781" ID x 3/4"	1	
21	9390-152	Capscrew, 3/4"-10UNC x 3 3/4" G5	1	
22	23191	Plate w/Holes (7" x 8 3/4")	1	
23	24651	Idler Arm Assembly	1	
24	24650B	Chain Idler Arm Weldment =Black=	1	
25	N/A	Weld Stud, 1/2"-13UNC x 1 3/4"	4	
26	900492	Roller Chain #80 (Double) 66 Links	1	
26	9000157	Connecting Link For #80 Double Roller Chain	-	
27	900932	Tube Connector Lube Fitting	1	
28	91160	Grease Zerk, 1/4-28	4	
29	93383	Clevis Yoke End, 1/2"-13UNC	2	
30	9390-099	Capscrew, 1/2"-13UNC x 1" G5	8	
31	9390-100	Capscrew, 1/2"-13UNC x 1 1/4" G5	8	
32	9390-124	Capscrew, 5/8"-11UNC x 2" G5	4	
33	9391-023	Cotter Pin, 1/8" Dia. x 1"	2	
34	9395-010	Hex Jam Nut, 1/2"-13UNC	2	
35	9398-016	Elastic Stop Nut, 1/2"-13UNC	4	
36	9398-019	Elastic Stop Nut, 5/8"-11UNC	4	
37	9404-025	Lock Washer, 1/2"	10	
38	9405-088	Flat Washer, 1/2" USS	8	
39	9504960B	Compression Spring, 1 1/2" Dia. x 3 1/2" =Black=	2	
40	97382	Flange Bearing Assembly 4 Bolt w/1 3/4" Bore (Includes Set Screws)	1	
41	9800	Locknut/Top, 1/2"-13UNC	8	
42	98116	Flange Bearing Assembly 4 Bolt w/2" Bore (Includes Set Screws)	1	
43	98120	Gearbox, 1000 RPM 1 3/4-20 Spline Shaft & 1 3/4" Dia. x 3/8" Key-ways	1	
44	98222	Connector	1	
45	98223	Hex Nut/Thin, 1/8" NPSM	1	
46	23643	Plate w/Holes (9" x 9")	1	
47	9390-101	Capscrew, 1/2"-13UNC x 1 1/2" G5	4	
48	9394-010	Hex Nut, 1/2"-13UNC	4	
	98124	Roller Chain #80 (Double) 43 Links	1 1	
49	9000157	Connecting Link For #80 Double Roller Chain	 	
50	9500724	Screw, 5/16"-18UNC x 3/4" (Self Threading)	4	
51	902455	Adjustable Draw Latch	2	

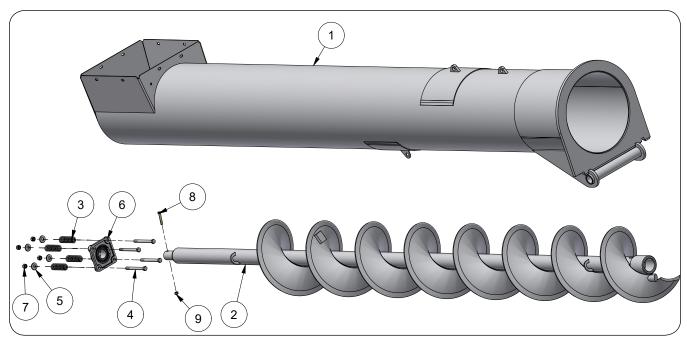
Vertical Auger Folding Components



Vertical Auger Folding Components

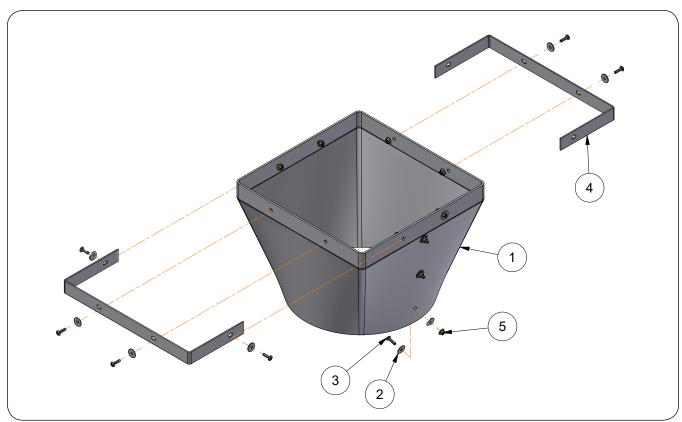
ITEM	PART NO.	DESCRIPTION	QTY	NOTES
1	9398-019	Elastic Lock Nut, 5/8"-11UNC	3	
2	98107	Flat Head Capscrew, 5/8"-11UNC x 2"	3	
3	23047B	Link Weldment =Black=	1	
4	23049B	Link Weldment =Black=	1	
5	23063	Pin, 1" 1/2" Dia. x 20 9/16"	1	
6	23064	Pin, 1" Dia. x 11 1/4"	1	
7	23065	Pin, 1" Dia. x 15 1/16"	1	
8	23066	Pin, 1" Dia. x 7 15/16"	1	
9	23067	Pin, 1" Dia. x 5 3/4"	1	
10	85632	Pin, 1" Dia. x 3 3/4"	1	
11	91144-164	Spiral Pin, 1/4" Dia. x 1 3/4"	4	
12	91160	Grease Zerk	4	
13	9390-060	Capscrew, 3/8"-16UNC x 2 1/4" G5	3	
14	9390-061	Capscrew, 3/8"-16UNC x 2 1/2" G5	2	
15	9398-012	Elastic Locknut, 3/8"-16UNC	2	
16	99509	Cylinder 3 x 20 Assembly w/Check Valve	1	
16	98660	Seal Kit for 3 x 20 Cylinder	·	

Vertical Upper Auger & Flighting Components



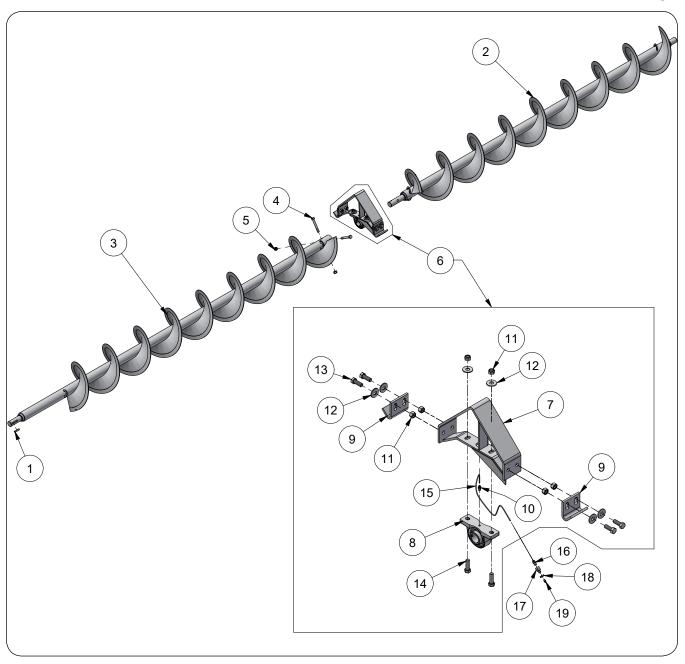
ITEM	PART NO.	DESCRIPTION	QTY	NOTES
	2011809G	Auger Tube Weldment v=Green=		
1	2011809R	Auger Tube Weldment =Red=	1	
	23380M	Auger Tube Weldment =Midnight Gray Metallic=		
2	2011813B	Flight Weldment, 149 1/8"	1	
3	9001812B	Spring/Compression, 1.207" OD x 4"	4	
4	9390-114	Capscrew, 1/2"-13UNC x 5 1/2" G5	4	
5	9405-088	Flat Washer, 1/2" USS	4	
6	97382	Flange Bearing Assembly w/1 3/4" Bore	1	
7	9800	Locknut/Top, 1/2"-13UNC	4	
8	9390-060	Capscrew, 3/8"-16UNC x 2 1/4" G5	1	
9	9928	Locknut/Top, 3/8"-16UNC	1	

Downspout



ITEM	PART NUMBER	DESCRIPTION	QTY	NOTES
1	9001438	Rubber Hood	1	
2	9405-066	Fender Washer, 1/4"	14	
3	903174-537	Truss Head, Phillips Screw 1/4"-20UNC x 1"	11	
4	106906	Spout Strap =Black=	2	
5	97189	Hex Nut/Large Flange, 1/4"-20UNC	11	

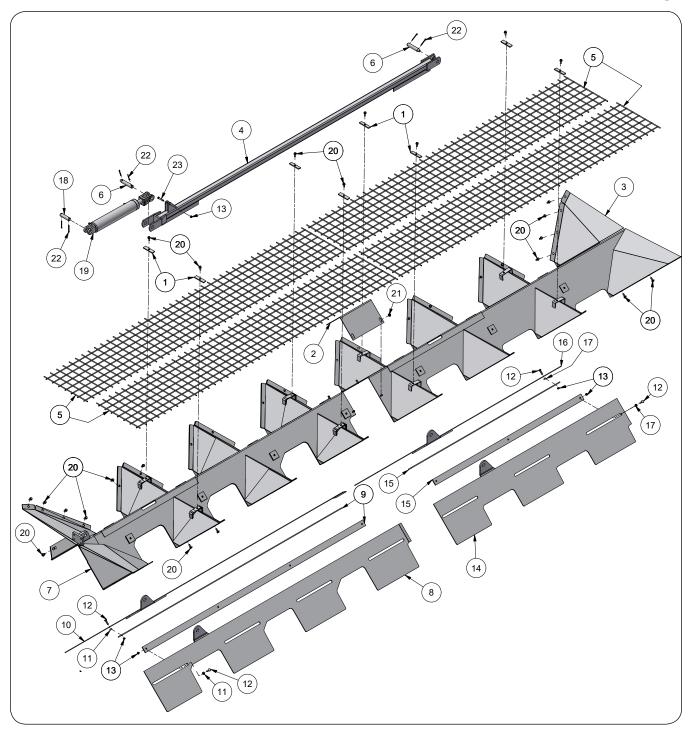
Horizontal Auger Components



Horizontal Auger Components

ITEM	PART NO.	DESCRIPTION	QTY	NOTES
1	100775	Key, 3/8" x 3/8" x 2"	1	
2	23560B	Flight Weldment Left-Hand, 14" Dia. x 128 5/8" =Black=	1	
3	23559B	Flight Weldment Left-Hand, 14" Dia. x 144 1/4" =Black=	1	
4	91299-133	Capscrew, 5/8"-11UNC x 4 1/2" G8	2	
5	9801	Locknut/Top, 5/8"-11UNC	2	
6	23580	Bearing Holder Assembly	1	Includes Items 7-15
7	23579B	Bearing Holder Weldment =Black=	1	
8	98146	Pillow Bearing Assembly, 2-Bolt	1	
9	23581	V-Bracket	2	
10	98222	Connector/Tube, 1/8-27 NPTF Male x 1/8 OD Tube Female Fitting	1	
11	9801	Locknut/Top, 5/8"-11UNC	6	
12	9405-100	Flat Washer, 5/8" USS	6	
13	9390-123	Capscrew, 5/8"-11UNC x 1 3/4" G5	4	
14	9390-124	Capscrew, 5/8"-11UNC x 2" G5	2	
15	24068	Tube, 1/8" OD x 15"	1	
16	98222	Connector/Tube, 1/8-27 NPTF Male x 1/8 OD Tube Female Fitting	1	
17	98221	Bulkhead Connector, 1/8 NPTSM Male x 1/8 PTF Female	1	
18	98223	Hex Nut/Thin, 1/8 NPTSM	1	
19	91160	Grease Zerk	1	

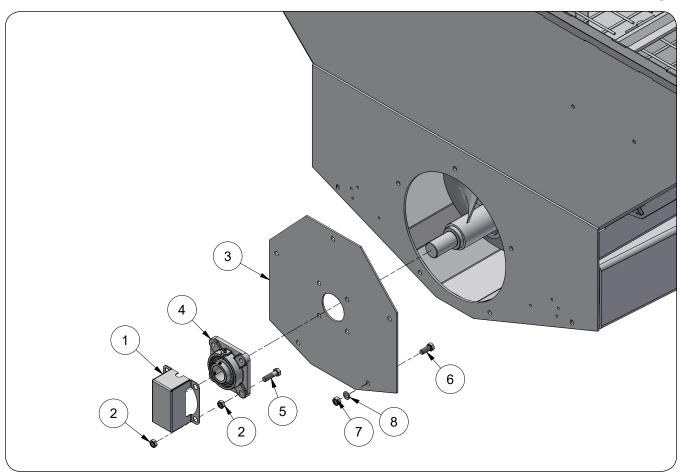
Tent/Baffle, Screen, Gate Linkage Components



Tent/Baffle, Screen, Gate Linkage Components

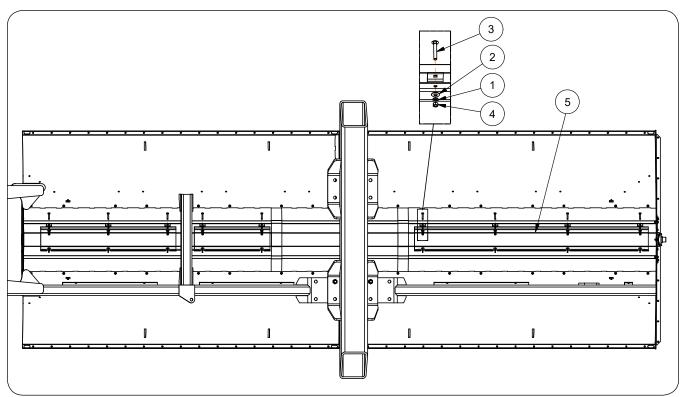
ITEM	PART NO.	DESCRIPTION	QTY	NOTES
1	23653B	Bar/Strap w/Hole	8	
2	24474B	Cover	1	
3	24471	Rear Tent/Baffle Weldment	1	
4	24489B	Gate Linkage Weldment	1	
5	24586B	Screen	4	
6	24607	Pin 1" Dia. x 5 1/8	1	
7	24469	Front Tent/Baffle Weldment	1	
8	24480B	Gate Weldment (Front/LH)	1	
9	24486B	Front Tent/Baffle Bar	2	
10	24605B	Gate Weldment (Front/RH)	1	
11	271045	Door Tube Bushing	8	
12	9388-053	Carriage Bolt 3/8-16UNC x 1 1/2	14	
13	9928	Locknut 3/8-16UNC	8	
14	24482B	Gate Weldment (Rear/LH)	1	
15	24485B	Rear Tent/Baffle Bar	2	
16	24606B	Gate Weldment (Rear/RH)	1	
17	271045	Door/Baffle Bushing	8	
18	85632	Pin 1" Dia. x 3 3/4	1	
10	901047	Cylinder 3 x 14	1	
19	98660	Seal Kit for 3 x 14 Cylinder	1	
20	91262	Flange Screw, 3/8"-16UNC x 1" G5	80	
21	91263	Nut/Large Flange 3/8-16UNC	4	
22	9391-046	Cotter Pin 3/16" Dia. x 2	6	
23	9390-059	Capscrew 3/8-16UNC x 2	1	

Rear Horizontal Auger Bearing Cover Components



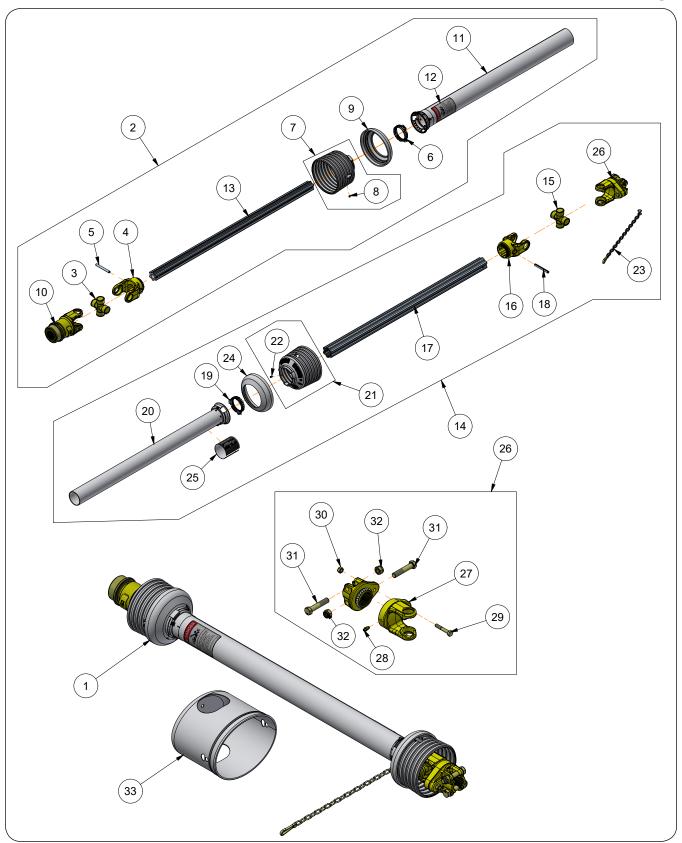
ITEM	PART NO.	DESCRIPTION	QTY	NOTES
1	23638B	Cover	1	
2	9395-010	Hex Jam Nut, 1/2"-13UNC	8	
3	23569B	Bearing Plate =Black=	1	
4	97382	Flange Bearing Assembly 4 Bolt	1	
5	9390-102	Capscrew, 1/2"-13UNC x 1 3/4" G5	4	
6	9390-100	Capscrew, 1/2"-13UNC x 1 1/4" G5	5	
7	9394-010	Hex Nut, 1/2"-13UNC	5	
8	9404-025	Lock Washer, 1/2"	5	

Cleanout Door Components



ITEM	PART NUMBER	DESCRIPTION	QTY	NOTES
1	9404-021	Lock Washer 3/8"	9	
2	9405-076	Flat Washer 3/8" USS	9	
3	9388-057	Carriage Bolt 3/8-16UNC x 2 1/2 Gr.5	9	
4	9394-006	Hex Nut 3/8-16UNC	9	
5	23623	Cleanout Door (Unpainted)	2	

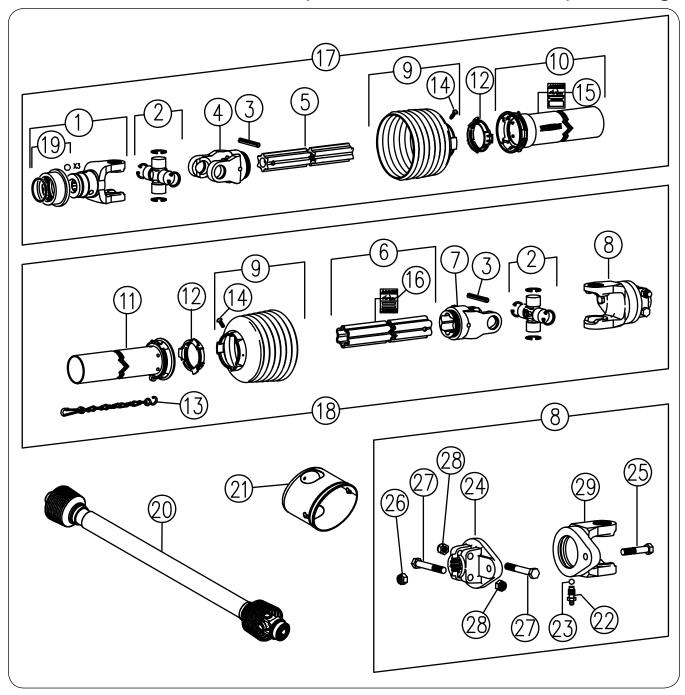
Driveline Components with Over-Running Clutch Shear Bolts



Driveline Components with Over-Running Clutch Shear Bolts

ITEM	PART NUMBER	DESCRIPTION	QTY	NOTES
1	9504668	PTO Assembly/Over-Running Clutch/Shear-Bolt)		Includes Items 2 & 14
2	9504661	PTO Drive Shaft Assembly/Front Half	1	Includes Items 3 through 13
3	92529	Cross & Bearing Kit	2	
4	9002610	Inboard Yoke	1	
5	9002609	Spring Pin 10 x 80	2	
6	92373	Bearing Ring	2	
7	9002615	Shield Cone	1	
8	92372	Screw	2	
9	9002513	Reinforcing Collar	1	
10	9005234	Driveline Clutch/Over-Running		
11	900137	Outer Shield Tube	1	
12	92377	Decal - Shield	1	
13	900134	Inner Profile	1	
14	900031	Rear-Half 1 3/4-20	1	
15	92529	Cross & Bearing Kit	2	
16	9002613	Inboard Yoke	1	
17	900135	Outer Profile	1	
18	9002609	Spring Pin 10 x 80	2	
19	92373	Bearing Ring	2	
20	900138	Inner Shield Tube	1	
21	9002615	Shield Cone	1	
22	92372	Screw	2	
23	92374	Safety Chain	1	
24	9002513	Reinforcing Collar	1	
25	92378	Decal - Steel	1	
26	900136	Shearbolt Clutch	1	Includes Items 27 through 32
27	900425	Yoke	1	
28	95256	Zerk	1	
29	9003646	Shearbolt M10x60-Gr8.8	2	DO NOT SUBSTITUTE
30	9003645	Locknut M10	2	
31	9003714	Bolt M16x80-Gr8.8	2	
32	9500390	Locknut M16	2	
33	9002499	PTO Shield	1	

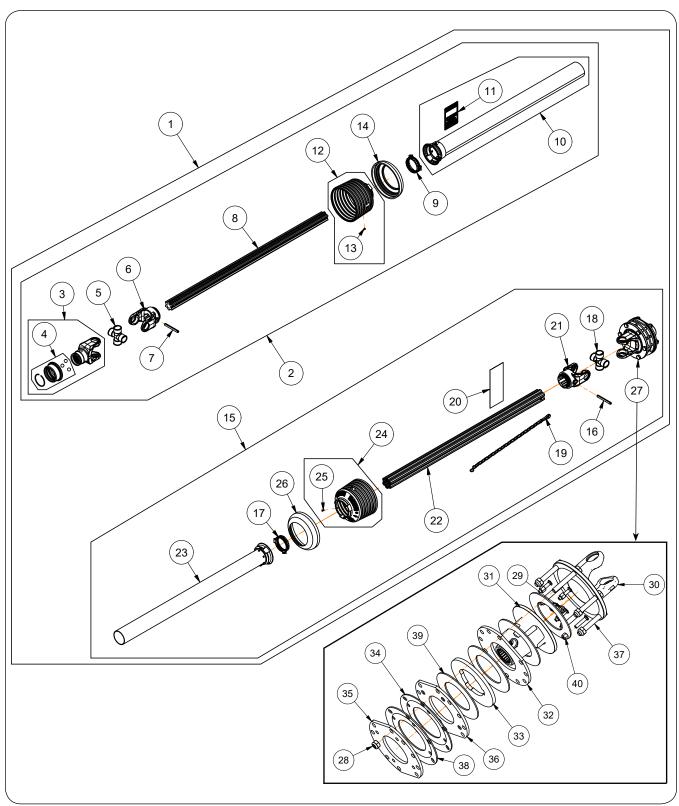
Driveline Components with Shear Bolts Option



Driveline Components with Shear Bolts Option

ITEM	PART NO.	DESCRIPTION	QTY	NOTES
1	9002608	Yoke 1 3/4-20	1	
1	9002684	Yoke 1 3/8-21	1	
2	92529	Cross & Bearing Kit	2	
3	9002609	Spring Pin 10 x 80	2	
4	9002610	Inboard Yoke	1	
5	900134	Inner Profile	1	
6	900135	Outer Profile	1	
7	9002613	Inboard Yoke	1	
8	900136	Shearbolt Clutch	1	
9	9002615	Shield Cone	1	
10	900137	Outer Shield Tube	1	
11	900138	Inner Shield Tube	1	
12	92373	Bearing Ring	2	
13	92374	Safety Chain	1	
14	92372	Screw	2	
15	92377	Decal - Shield	1	
16	92378	Decal - Steel	1	
17	900073	Front-Half 1 3/8-21	1	
18	900031	Rear-Half 1 3/4-20	1	
19	9002669	Quick Disconnect 1 3/8-21	1	
20	900072	PTO Driveshaft Asy	1	
21	9002499	PTO Shield	1	
22	95256	Zerk	1	
23	95257	Ball	1	
24	900426	Hub	1	
25	9003646	Shear Bolt M10x60-Gr8.8	2	DO NOT SUBSTITUTE
26	9003645	Locknut M10	2	
27	9003714	Bolt M16x80-Gr8.8	2	
28	9500390	Locknut M16	2	
29	900425	Yoke	1	

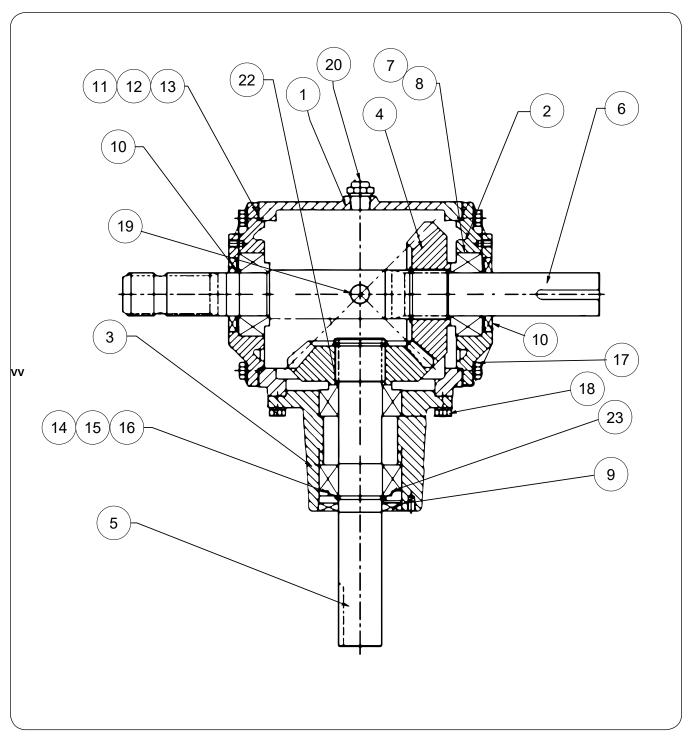
Driveline Components with Friction Clutch Option



Driveline Components with Friction Clutch Option

I1	ЕМ	PART NO.	DESCRIPTION	QTY	NOTES
	1	900508	PTO Shaft w/ Shielding	1	Includes Items 2-40
	2	900030	Front Half PTO	1	Includes Items 3-14
	3	9002608	End Yoke	1	includes Item 4
	4	93856	Quick Disconnect Kit	1	
	5	92529	Cross & Bearing Kit	1	
	6	9002610	Inboard Yoke	1	
	7	9002609	Spring Pin	1	
	8	900134	Inner Profile	1	
	9	92373	Bearing Ring	1	
	10	900137	Outer Shield Tube w/ Cap	1	Includes Item 11
	11	92377	Danger Decal - Shield	1	
	12	9002615	Shield Cone - Yoke	1	Includes Item 13
	13	92372	Screw	1	
	14	9002513	Reinforcing Collar	1	
	15	900509	Rear Half PTO	1	Includes Items 16-40
	16	9002609	Spring Pin	1	
	17	92373	Bearing Ring	1	
	18	92529	Cross & Bearing Kit	1	
	19	92374	Safety Chain	1	
	20	92378	Danger Decal - Steel	1	
	21	9002613	Inboard Yoke	1	
	22	900135	Outer Profile	1	
	23	900138	Inner Shield Tube w/ Cap	1	
	24	9002615	Shield Cone - Yoke	1	includes Item 25
	25	92372	Screw	1	
	26	9002513	Reinforcing Collar	1	
	27	900534	Friction Clutch Complete	1	Includes Items 28-40
	28	9002268	Elastic Stop Nut, M12 x 1.75-6H	6	
	29	9005253	Clutch Clamp Cone Assembly	1	
	30	900536	Flange Yoke 188mm	1	
	31	900538	Hub, 1 3/4-20 Spline For Clutch Assembly	1	
	32	900539	Drive Plate	1	
	33	900540	Drive Plate	1	
	34	900541	Belleville Spring	1	
	35	900542	Backup Plate	1	
	36	900543	Thrust Plate	1	
	37	900544	Bolt, M12 x 1.75-6G x 85	6	
	38	900545	Belleville Spring	1	
	39	92382	Clutch Lining	4	
	40	92386	Hex Nut, M8-1.25-6H C10	4	

Gearbox

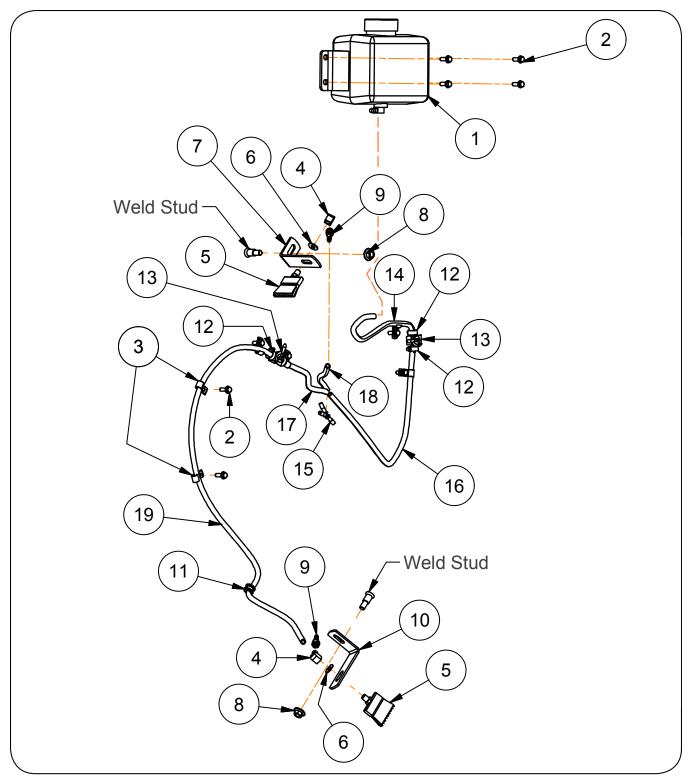


Parker 1150 — Parts

Gearbox

ITEM	PART NO.	DESCRIPTION	QTY	NOTES
1	900220	Housing	1	
2	900221	Cap, Thru	2	
3	900222	Cap, Cantilvrd	1	
4	900223	Gear, 22T	2	
5	900224	Shaft w/Keyway	1	
6	900225	Shaft w/Spline	1	
7	900226	Bearing Cup	4	
8	900227	Bearing Cone	4	
9	900228	Seal 3N2413C	1	
10	900229	Seal 3N2410C	2	
11	900230	Gasket, 0.1mm	3	
12	900231	Gasket, 0.2mm	3	
13	900232	Gasket, 0.5mm	3	
14	900233	Shim, Input 0.1mm	1	
15	900234	Shim, Input 0.2mm	1	
16	900235	Shim, Input 0.3mm	1	
17	9390-056	Capscrew 3/8-16 x 1 1/4"	24	
18	9404-021	Lockwasher 3/8-16	24	
19	900236	Plug	1	
20	900237	Press Relief Plug	2	
22	900238	Retaining Ring	1	
23	9504847	Retaining Ring	2	
24	9504845	Shim Plate, 55 mm OD x 45 mm ID x .5 mm	1	NOT SHOWN

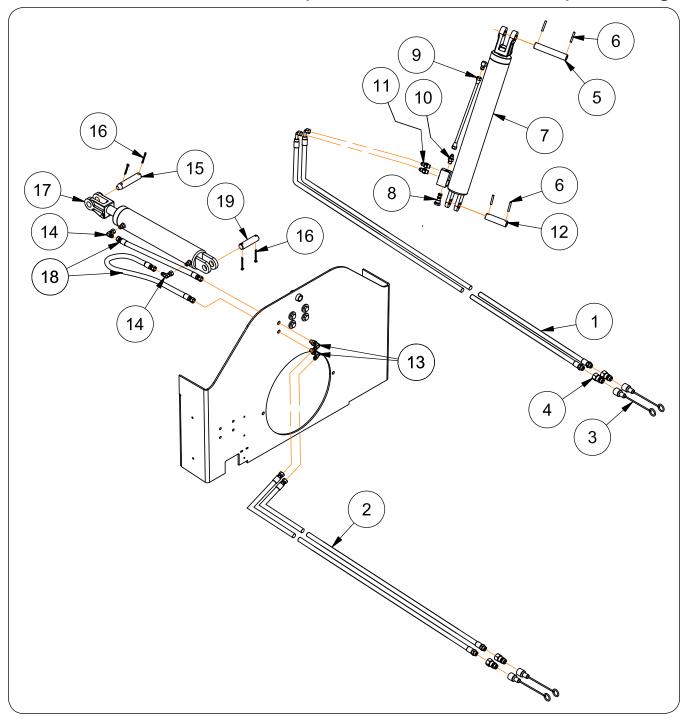
Chain Oiler Components



Chain Oiler Components

ITEM	PART NUMBER	DESCRIPTION	QTY	NOTES
1	9501778	Oil Reservoir Tank - 2 Quart with Cap	1	
2	97420	Flange Screw, 1/4"-20UNC x 3/4" G5	10	
3	97063	Hose Clip for 3/8" OD Tubing	6	
4	98134	90° Elbow Brass 1/8-27 NPTF Male x 1/8-27 NPTF Female	2	
5	96863	Brush 2" Lube Felt	2	
6	9405-064	Flat Washer, 1/4" USS	2	
7	23111	Bracket, 1 1/4" x 5 7/16"	1	
8	91263	Nut/Large Flange, 3/8"-16UNC	2	
9	96869	Hose Barb Brass, 1/4" ID x 1/8-27 NPTF Female	2	
10	23112	Bracket, 1 1/4 x 6	1	
11	98136	Grommet, 1/2" Dia. Groove	1	
12	9000389	Clamp, 1/4" to 5/8" (Size 4)	4	
13	9002794	Ball Valve, 1/4" Heavy Duty	2	
14	23161	Clear Plastic Tube, 3/8" OD x 10"	1	
15	98610	Fitting "Y"	1	
16	105538	Clear Plastic Tube, 3/8" OD x 18"	1	
17	2001227	Clear Plastic Tube, 3/8" OD x 6 1/2"	1	
18	2001226	Clear Plastic Tube, 3/8" OD x 3 1/2"	1	
19	23287	Clear Plastic Tube, 3/8" OD x 32"	1	

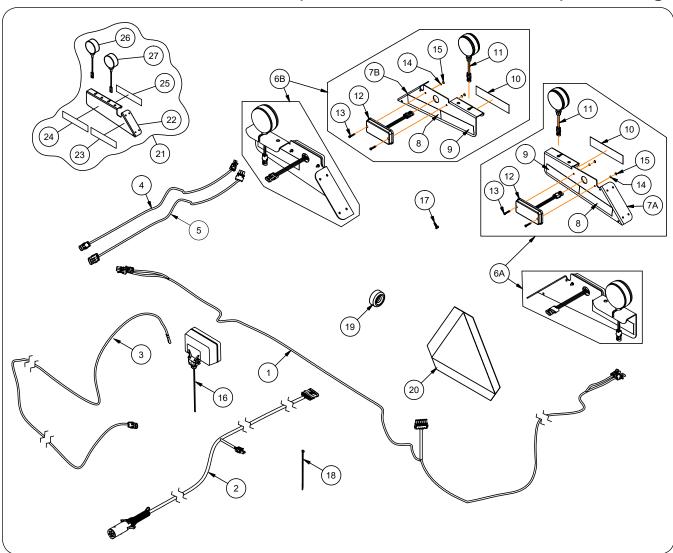
Hydraulic Components



Hydraulic Components

ITEM	PART NO.	DESCRIPTION	QTY	NOTES
1	98230	Hose, 3/8" Dia. x 210"	2	
2	99954	Hose, 3/8" Dia. x 168"	2	
3	91511	Dust Cap	4	
4	91383	Male Tip Coupling, 3/4-16 Female Thread	4	
5	23067	Pin, 1" Dia. x 5 3/4"	1	
6	91144-164	Spiral Pin 1/4" Dia. x 1 3/4	4	
7	99509	Cylinder, 3" x 20" Assembly	1	
1	98660	Seal Kit for 3" x 20" Cylinder	1	
8	99515	Ball Valve	1	
0	99516	Seal Kit for Ball Valve	ı	
9	99510	Tube Asy (Female/Female)	1	
10	98435	Adapter (Male/Male)	1	
11	900034	Adapter (Male/Male)	2	
12	85632	Pin, 1" Dia. x 3 3/4"	1	
13	92761	90° Elbow Bulkhead Union, 9/16-18 JIC Male x 9/16-18 JIC Male	2	
14	9876	90° Elbow, 9/16-18 JIC Male x 9/16-18 JIC Female	2	
15	24607	Pin, 1" Dia. x 5 1/8"	1	
16	9391-046	Cotter Pin, 3/16" Dia. x 2"	4	
17	901047	Cylinder, 3" x 14"	1	
17	98660	Seal Kit for 3 x 14 Cylinder	ı	
18	91530	Hose, 3/8" Dia. x 26"	2	
19	85632	Pin, 1" Dia. x 3 3/4"	1	

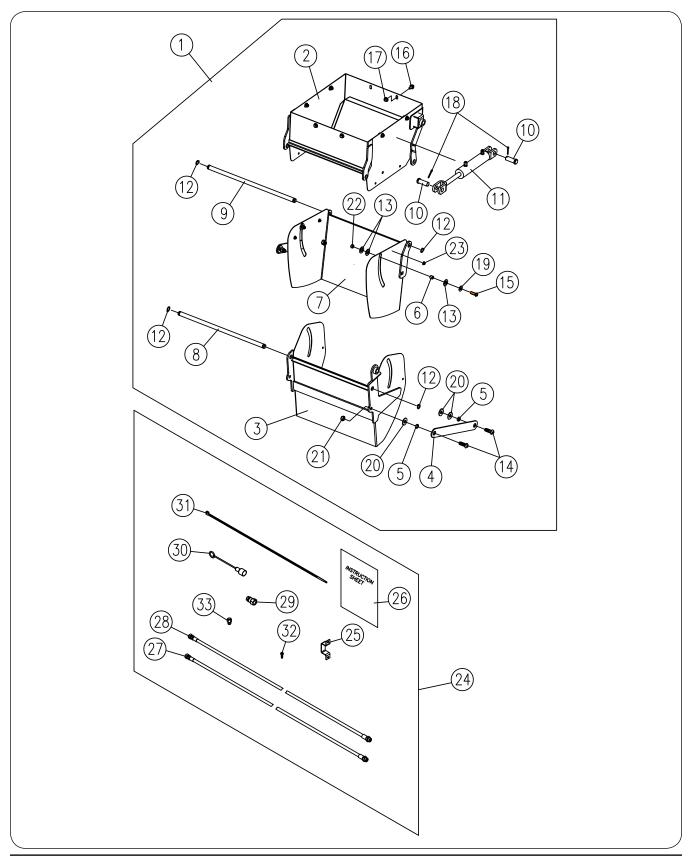
Electrical Components



Electrical Components

	ITEM	PART NUMBER	DESCRIPTION	QTY	NOTES
	1	22790	Wiring Harness 132" 3-T	1	
	2	22983	Wiring Harness 396" T	1	
	3	23165	Wiring Harness 264"	1	
	4	2004282	Wiring Harness 36" (2 Pin Connector)	1	
	5	22987	Wiring Harness 36" (3 Pin Connector)	1	
	6A	2001084B	Bracket Assembly (Left-Hand)	1	Includes items 7 through 15
	6B	2001083B	Bracket Assembly (Right-Hand)	1	
	7A	2001081B	Bracket (Left-Hand)	1	
	7B	2001082B	Bracket (Right-Hand)	1	
	8	9003125	Fluorescent Strip	2	
	9	9003126	Reflector, Red	2	
	10	9003127	Reflector, Amber	2	
	11	9005142	Light, Amber	2	
	12	9006282	Light, Red	2	
	13	903172-350	Pan Head Machine Screw #10-32UNF x 1 1/4	2	
	14	9404-013	Lock Washer #10	2	
	15	9830-016	Hex Nut #10-32UNF	2	
	16	9500807	LED - Work Light	1	
	17	9473	Self-Tapping Screw 1/4-20 x 3/4	4	
	18	9000106	Cable Tie 6"	A/R	
	19	103617	Clip	2	
	20	97530	Decal, SMV	1	
	21	23429B	Bracket Assembly (Left-Hand) SHOWN	1	Includes Items 22 through 27
		23428B	Bracket Assembly (Right-Hand)	1	
	22	22980	Bracket (Right-Hand)	1	
		22981	Bracket (Left-Hand) SHOWN	1	
	23	9003125	Fluorescent Strip	2	
	24	9003126	Reflector, Red	2	
	25	9003127	Reflector, Amber	2	
	26	9003876	Light, Amber	2	
	27	9003877	Light, Red	2	

Adjustable Hydraulic Spout Option



Adjustable Hydraulic Spout Option

ITEM	PART NUMBER	DESCRIPTION	QTY	NOTES
	24391	Adjustable Hydraulic Spout	-	
1	24390B	Adjustable Spout Assembly =Black=	1	
2	24385B	Shroud Weldment =Black=	1	
3	24387B	Spout Weldment =Black=	1	
4	281368	Arm Link Plate	2	
5	281369	Bushing, 3/4 Dia.	4	
6	281372	Bushing, 9/16 Dia.	2	
7	281377B	Upper Deflector Weldment =Black=	1	
8	281389	Pivot Shaft, 3/4 Dia. x 19 21/32	1	
9	281390	Pivot Shaft, 3/4 Dia. x 19 15/16	1	
10	9002032	Clevis Pin	2	
11	9003789	Hydraulic Cylinder, 3000 PSI	1	
12	9003810	Snap Ring	4	
13	9004494	Nylon Washer	6	
14	902337	Socket Capscrew, 1/2-13 x 1 1/2	4	
15	902338	Socket Capscrew, 3/8-16 x 1 1/4	2	
16	91256	Large Flange Screw, 5/16-18 x 3/4	8	Grade 5
17	91257	Large Flange Hex Nut, 5/16-18	8	Grade 5
18	9391-034	Cotter Pin	2	
19	9405-076	Flat Washer, 3/8	2	
20	9405-088	Flat Washer, 1/2	6	
21	94981	Locknut, 1/2-13UNC	4	
22	9928	Locknut, 3/8-16UNC	2	Grade 5
23	9004457	Plug, Plastic	6	
24	24392	Adjustable Hydraulic Spout Parts Box	1	
25	24389B	Bracket	1	
26	25348	Instruction Sheet	1	
27	9004637	Hose, 1/4 x 430 9/16-18 JIC FM Swivel x 3/4-16 OR M	1	
28	9004638	Hose, 1/4 x 440 9/16-18 JIC FM Swivel x 3/4-16 OR M	1	
29	91383	Male Tip Coupling	2	
30	91511	Dust Cap	2	
31	94038	Cable Tie, 32" Lg.	8	
32	9512	Self Drilling Screw, 1/4-14 x 1	2	
33	95193	Adapter, 9/16-18 JIC FM x 9/16-18 JIC M	1	



