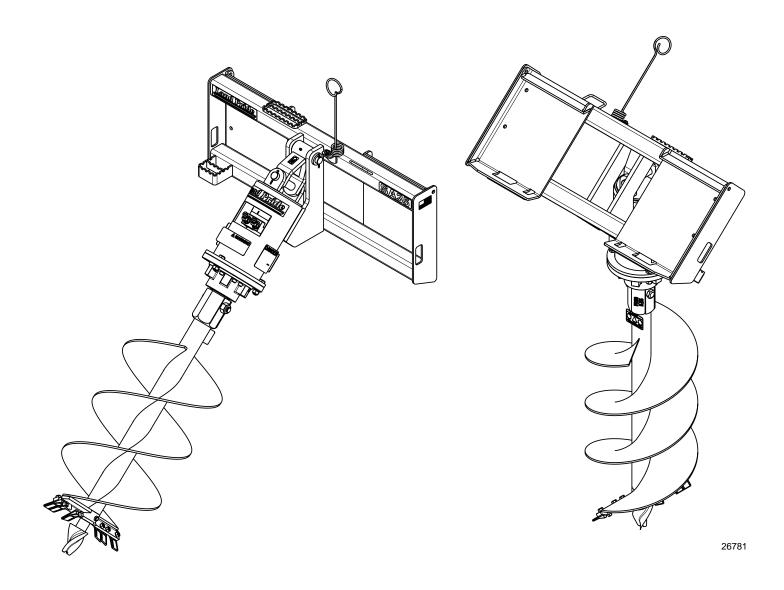
Hydraulic Post Hole Digger

Model SA35



317-093M Operator's Manual





Read the Operator's Manual entirely. When you see this symbol, the subsequent instructions and warnings are serious - follow without exception. Your life and the lives of others depend on it!

Cover photo may show optional equipment not supplied with standard unit.

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These are common practices that may or may not be applicable to the products described in this manual.

Safety at All Times

Thoroughly read and understand the instructions given in this manual before operation. Refer to the "Safety Label" section, read all instructions noted on them.

Do not allow anyone to operate this equipment who has not fully read and comprehended this manual and who has not been properly trained in the safe operation of the equipment.

- ▲ The operator must not use drugs or alcohol as they can change the alertness or coordination of that person while operating equipment. The operator should, if taking over-the-counter drugs, seek medical advice on whether he/she can safely operate the equipment.
- ▲ Operator should be familiar with all functions of the unit.
- Make sure all guards and shields are in place and secured before operating implement.
- Start skid steer with steering levers and hydraulic controls in neutral.
- ▲ Keep all persons away from equipment and work area.
- Operate implement and loader arms from the driver's seat only.
- ▲ Dismounting from a moving unit can cause serious injury or death.
- Do not allow anyone to stand between Skid Steer/Tractor and implement while hooking-up to implement.
- ▲ Keep hands, feet, and clothing away from power-driven parts.
- ▲ Watch out for objects overhead and along side such as fences, buildings, wires, trees, limbs, etc., while transporting and operating attached implement.
- ▲ Detach and store implement in an area where children normally do not play. Secure implement by using blocks and supports.

Look For The Safety Alert Symbol



The SAFETY ALERT SYMBOL indicates there is a potential hazard to personal safety involved and extra safety precaution must be taken. When you see this symbol, be alert and carefully read the message that follows it. In addition to design and configuration of equipment, hazard control, and accident prevention are dependent upon the awareness, concern, prudence, and proper training of personnel involved in the operation, transport, maintenance, and storage of equipment.

Be Aware of Signal Words

A Signal word designates a degree or level of hazard seriousness. The signal words are:

A DANGER

Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury. This signal word is limited to the most extreme situations, typically for machine components that, for functional purposes, cannot be guarded.

A WARNING

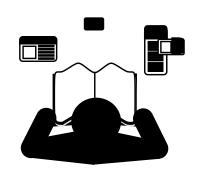
Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury, and includes hazards that are exposed when guards are removed. It may also be used to alert against unsafe practices.

A CAUTION

Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

For Your Protection

▲ Thoroughly read and understand the "Safety Label" section, read all instructions noted on them.



Avoid Underground Utilities

▲ Dig Safe, Call 811.

Always contact your local utility companies (electrical, telephone, gas, water, sewer, and others) before digging so that they may mark the location of any underground services in the area.

▲ Be sure to ask how close you can work to the marks they positioned.



Parts Manual QR Locator

The QR (Quick Reference) code on the cover and to the left will take you to the Parts Manual for this equipment. Download the appropriate App on your smart phone, open the App, point your phone on the QR code and take a picture.



Dealer QR Locator

The QR code on the left will link you to available dealers for Land Pride products. Refer to Parts Manual QR Locator on this page for detailed instructions.



These are common practices that may or may not be applicable to the products described in this manual.

Skid Steer Shutdown & Storage

Before leaving operator's seat:

- ▲ Lower lift arms and put attachment flat on the ground.
- Turn off engine.
- ▲ Engage park brake.
- ▲ If included, raise seat bar and move controls until both lock.
- Remove key to preventy unauthorized starting.
- ▲ Use steps, grab-handles and skid-resistant surfaces when getting on and off the loader.
- ▲ Detach and store implements in an area where children normally do not play. Secure implement by using blocks and supports.



Transport Safely

- ▲ Comply with state and local laws.
- ▲ Use towing vehicle and trailer of adequate size and capacity. Secure equipment towed on a trailer with tie downs and chains.
- ▲ Sudden braking can cause a towed trailer to swerve and upset. Reduce speed if towed trailer is not equipped with brakes.
- Avoid contact with any over head utility lines or electrically charged conductors.
- ▲ Always drive with load on end of loader arms low to the ground.
- Always drive straight up and down ramps with load on "uphill" side of Skid Steer or Tractor.
- ▲ Engage park brake when stopped on an incline.

- ▲ Maximum transport speed for an attached implement is 20 mph. DO NOT EXCEED. Never travel at a speed which does not allow adequate control of steering and stopping. Some rough terrains require a slower speed.
- ▲ As a guideline, use the following maximum speed weight ratios for an attached implement:
 - **20 mph** when weight of attached implement is less than or equal to the weight of machine towing the implement.
 - 10 mph when weight of attached implement exceeds weight of machine towing implement but not more than double the weight.
- ▲ IMPORTANT: Do not tow a load that is more than double the weight of the vehicle towing the load.





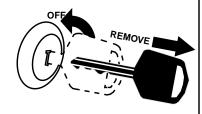




Tractor Shutdown & Storage

Before leaving operator's seat:

- ▲ If engaged, disengage PTO.
- ▲ Lower attached implement to ground or onto support blocks.
- ▲ Put tractor in park or set park brake, turn off engine, and remove switch key to prevent unauthorized starting.
- Wait for all components to come to a complete stop before leaving the operator's seat.
- ▲ Detach and store implement in an area where children normally do not play. Secure implement using blocks and supports.



Practice Safe Maintenance

- ▲ Understand procedure before doing work. Use proper tools and equipment, refer to Operator's Manual for additional information.
- ▲ Work in a clean dry area.
- ▲ Lower attached implement to the ground and follow all shutdown procedures before leaving the operator's seat to perform maintenance.
- Allow implement to cool completely before working on it.

- ▲ Disconnect battery ground cable (-) before servicing or adjusting electrical systems or before welding on implement.
- ▲ Do not grease or oil implement while it is in operation.
- ▲ Inspect all parts. Make sure parts are in good condition & installed properly.
- ▲ Remove buildup of grease, oil, or debris.
- ▲ Remove all tools and unused parts from implement before operation.







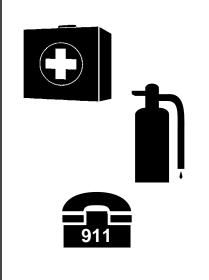




These are common practices that may or may not be applicable to the products described in this manual.

Prepare for Emergencies

- ▲ Be prepared if a fire starts.
- ▲ Keep a first aid kit and fire extinguisher handy.
- ▲ Keep emergency numbers for doctor, ambulance, hospital, and fire department near phone.



Wear Protective Equipment

- ▲ Wear protective clothing and equipment appropriate for the job. Clothing should be snug fitting without fringes and pull strings to avoid entanglement with moving parts.
- Prolonged exposure to loud noise can cause hearing impairment or hearing loss. Wear suitable hearing protection such as earmuffs or earplugs.
- ▲ Operating equipment safely requires the operator's full attention. Avoid wearing radio headphones while operating machinery.

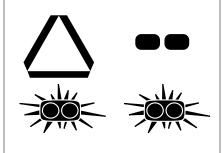


Avoid High Pressure Fluids Hazard

- Escaping fluid under pressure can penetrate the skin causing serious injury.
- ▲ Avoid the hazard by relieving pressure before disconnecting hydraulic lines or performing work on the system.
- Make sure all hydraulic fluid connections are tight and all hydraulic hoses and lines are in good condition before applying pressure to the system.
- ▲ Use a piece of paper or cardboard, NOT BODY PARTS, to check for suspected leaks.
- ▲ Wear protective gloves and safety glasses or goggles when working with hydraulic systems.
- ▲ DO NOT DELAY. If an accident occurs, see a doctor familiar with this type of injury immediately. Any fluid injected into the skin or eyes must be treated within a few hours or gangrene may result.

Use Safety Lights and Devices

- ▲ Slow moving Skid Steers, skid steer, self-propelled equipment, and towed implements can create a hazard when driven on public roads. They are difficult to see, especially at night.
- Flashing warning lights and turn signals are recommended whenever driving on public roads.



Keep Riders Off Machinery

- Never carry riders or use machinery as a personlift.
- ▲ Riders obstruct operator's view.
- Riders could be struck by foreign objects or thrown from the machine.
- ▲ Never allow children to operate equipment.



Use Seat Belt and ROPS

- Operate only tractors & skid steer loaders equipped with Roll-Over Protective Structure (ROPS) and seat belt.
- ▲ Fasten seat belt snugly and securely to help protect operator from being thrown, crushed, or severely injured if a rollover occurs; and from falling off the tractor or skid steer loader and being ran over. Not using the seat belt can result in serious injury or death.
- ▲ Wearing protective equipment such as safety shoes, safety glasses, hard hat, and ear plugs is highly recommended.



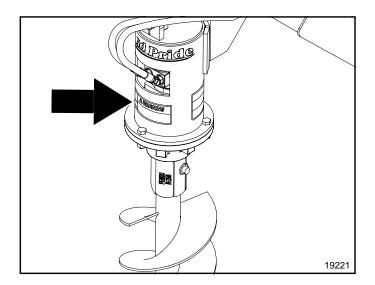


Safety Labels

Your Post Hole Digger comes equipped with all safety labels in place. They were designed to help you safely operate your implement. Read and follow their directions.

- 1. Keep all safety labels clean and legible.
- 2. Refer to this section for proper label placement. Replace all damaged or missing labels. Order new labels from your nearest Land Pride dealer. To find your nearest dealer, visit our dealer locator at www.landpride.com.
- Some new equipment installed during repair requires safety labels to be affixed to the replaced component as specified by Land Pride. When ordering new components make sure the correct safety labels are included in the request.

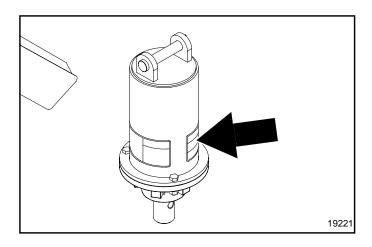
- 4. Refer to this section for proper label placement. To install new labels:
 - a. Clean the area wher the label is to be placed.
 - b. Spray soapy water on the surface where the label is to be placed.
 - c. Peel backing from label. Press firmly onto the surface.
 - d. Squeeze out air bubbles with the edge of a credit card or with a similar type straight edge.





838-094C

Warning: High Pressure

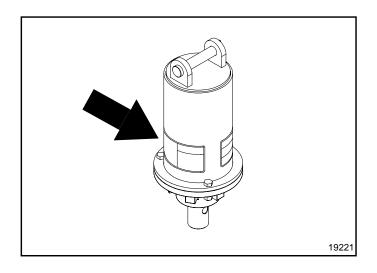




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Warning: Electrocute Hazard

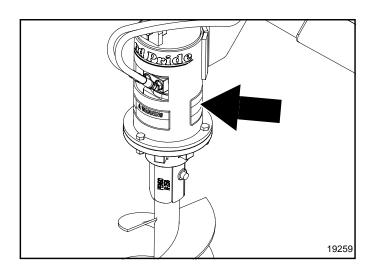






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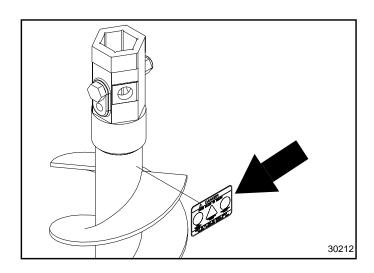
Warning: Read Manual

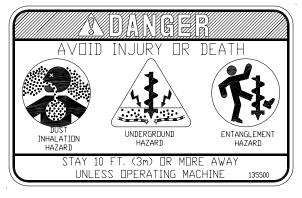




838-294C

Danger: Rotating Auger





135500

Danger: Rotating Auger, Stay

Away



Land Pride welcomes you to the growing family of new product owners.

This Post Hole Digger has been designed with care and built by skilled workers using quality materials. Proper assembly, maintenance, and safe operating practices will help you get years of satisfactory use from this machine.

Application

Land Pride offers a complete line of Post Hole Diggers designed to meet a wide range of customer needs and applications. The hydraulically driven SA35 Series Post Hole Diggers meet the needs of most owners and operator's having Skid Steers or Tractors with 10 to 25 gallons per minute hydraulic flow capacity at 1500 to 3500 psi and if attaching to a tractor, have a skid steer adapter hitch on the tractor loader. Depending on your specific needs, our Pengo brand augers are offered in single, semi-double, and double flighting configuration. These augers come in 48" length with a choice of 9", 12", 15", 18", 24", 30" & 36" flighting and with a 3-Point cast steel tip for guick piloting and faster hole starting. The ability to reverse the auger greatly reduces the strain on the auger and equipment when extracting the digger from the ground.

The SA35 Series meets the industrial duty applications of nurseries, landscapers, contractors, construction companies, farmers, ranchers, and municipalities.

See "Specifications & Capacities" on page 17 and "Features & Benefits" on page 18 for additional information and performance enhancing options.

Using This Manual

- This Operator's Manual is designed to help familiarize you with safety, assembly, operation, adjustments, troubleshooting, and maintenance. Read this manual and follow the recommendations to help ensure safe and efficient operation.
- The information contained within this manual was current at the time of printing. Some parts may change slightly to assure you of the best performance.
- To order a new Operator's or Parts Manual, contact your authorized dealer. Manuals can also be downloaded, free-of-charge, from our website at www.landpride.com

Terminology

"Right" or "Left" as used in this manual is determined by facing the direction the machine will operate while in use unless otherwise stated.

Definitions

IMPORTANT: A special point of information related to the following topic. Land Pride's intention is that this information must be read and noted before continuing.

NOTE: A special point of information that the operator should be aware of before continuing.

Owner Assistance

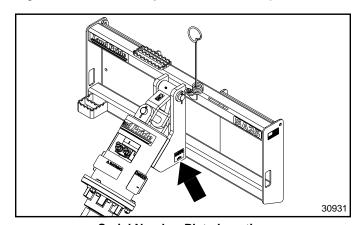
The Online Warranty Registration should be completed by the dealer at the time of purchase. This information is necessary to provide you with quality customer service.

The parts on your Post Hole Digger have been specially designed by Land Pride and should only be replaced with genuine Land Pride parts. Contact a Land Pride dealer if customer service or repair parts are required. Your Land Pride dealer has trained personnel, repair parts, and equipment needed to service the implement.

Serial Number

Model No. _____Serial No. ____

For quick reference and prompt service, record model number and serial number in the spaces provided above and again on warranty page 20. Always provide model number and serial number when ordering parts and in all correspondences with your Land Pride dealer. Refer to Figure 1 for location of your serial number plate.



Serial Number Plate Location Figure 1

Further Assistance

Your dealer wants you to be satisfied with your new Post Hole Digger. If for any reason you do not understand any part of this manual or are not satisfied with the service received, the following actions are suggested:

- Discuss the matter with your dealership service manager making sure that person is aware of any problems you may have and has had the opportunity to assist you.
- If you are still not satisfied, seek out the owner or general manager of the dealership, explain the problem, and request assistance.
- 3. For further assistance write to:

Land Pride Service Department 1525 East North Street

P.O. Box 5060 Salina, Ks. 67402-5060

E-mail address lpservicedept@landpride.com



Skid Steer/Tractor Requirements

The Post Hole Digger is designed to attach to Skid Steer Loaders and to Tractors with a Skid Steer adapter hitch on its loader with the following requirements:

Torque Requirements

Refer to "**Torque Values Chart**" on page 20 to determine correct torque values for bolts when tightening hardware.

Skid Steer & Tractor Hook-Up

Refer to Figure 1-1:



DANGER

A Crushing Hazard exists when hooking-up equipment. Do not allow anyone to stand between skid steer and implement while hooking-up to implement. Do not operate hydraulics while someone is near the skid steer or implement.



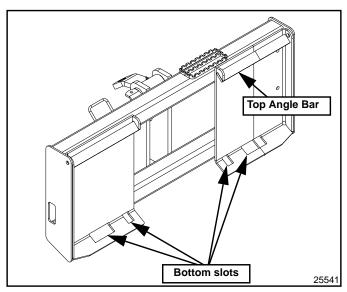
WARNING

Make sure tractor/skid steer hitch is properly attached to the equipment hitch plate. It must be secured under the hitch plate top angle bar. Hitch locking handles must be locked down with locking pins extending fully through bottom slots in the hitch plate. An improperly attached hitch can allow equipment to fall and be thrown towards bystanders and/or operator.

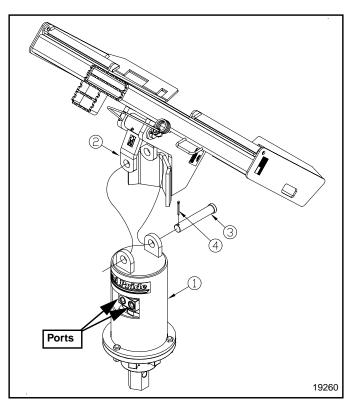
- Make sure hydraulic hoses do not interfere with hitch hook-up.
- 2. Drive machine slowly to the Post Hole Digger making sure its hitch is parallel with the Post Hole Digger hitch plate.
- 3. Rotate top of machine tilt arms slightly forward.
- 4. Place top of Skid Steer/Tractor hitch under the top angled bars on the Post Hole Digger hitch plate.
- Slowly lift Skid Steer/Tractor hitch up until the top angle bars and Skid Steer hitch have come together.
- Push lock handles of Skid Steer/Tractor hitch down so that the pins go through bottom slots of Post Hole Digger hitch plate and handles lock down.

Hydraulic Gearbox Mount Assembly Refer to Figure 1-2:

- 1. Position hydraulic gearbox housing (#1) with ports facing forward as shown.
- 2. Attach gearbox housing to clevis (#2) with 1 1/4" x 6 7/8" clevis pin (#3) as shown.
- 3. Secure clevis pin with 3/16" x 2" cotter pin (#4). Bend one or more legs of cotter pin to retain pin.



Post Hole Digger Hitch Plate Figure 1-1



Gearbox housing Assembly Figure 1-2



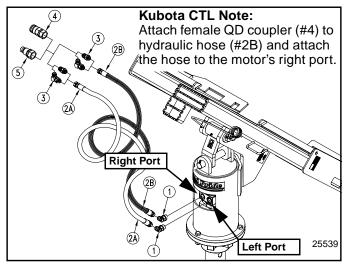
Hydraulic Hose Assembly

Refer to Figure 1-3:



WARNING

The tractor/skid steer hydraulics must not to exceed 3500 PSI. The attached hydraulic operated equipment is rated for a maximum of 3500 PSI working pressure. Exceeding maximum PSI can result in serious injury, death, or equipment damage.



Hose Assembly Figure 1-3

- 1. Install 45 degree elbows (#1) into motor ports as shown and tighten.
- 2. Screw 99" long hydraulic hoses (#2A & #2B) into fittings (#1) and tighten.

NOTE: Provided are four fittings (#3). Two are 90° elbows and two are straight adapters. Customer may attach the fittings that best suits his fit-up.

 Attach straight adapter or 90° elbow fittings (#3) to the other end of hydraulic hoses (#2A & #2B). Tighten fittings to the hoses.

NOTE: The preferred hose connections to the equipment is to be able to lock hydraulic operation in continues flow while digging hole. Line (#2B) is the pressure line when digging (auger turning clockwise). Therefore it is best to attach line (#2B) to the Skid Steer or Tractor line that is under pressure when controls are locked for continues operation.

Kubota CTL Note: Attach female QD coupler (#4) to hydraulic hose (#2B) & hose to the motor's right port.

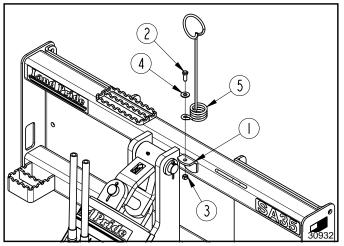
- Consult your Skid Steer or Tractor Operator's Manual to determine which line on the Skid Steer is under pressure when locked for continues operation.
- 5. Select the coupling (#4 or #5) that will mate with the Skid Steer's coupling that is under pressure and attach that coupling to line (#2B) and tighten. Attach remaining coupling to line (#2A) and tighten.

Spring Hose Loop Assembly

Refer to Figure 1-4:

NOTE: Spring Hose Loop may not be used on some Skid Steer hook-ups. For additional information, see step under "**Hose Hook-up**" below.

- 1. Attach spring hose loop (#5) to hitch plate (#1) with 3/8"-16 x 1" GR5 cap screw (#2), flat washer (#4), and hex locknut (#3).
- 2. Torque nut to the correct torque.



Spring Hose Loop Assembly Figure 1-4

Hose Hook-up

Refer to Figure 1-6 on page 9:



DANGER

Hydraulic fluid under high pressure can penetrate skin. Wear protective gloves and safety glasses or goggles when working with hydraulic systems. Use a piece of cardboard or wood rather than hands when searching for hydraulic leaks. If hydraulic fluid is injected into the skin or eyes, it must be treated by a doctor familiar with this type of injury within a few hours or gangrene may result. DO NOT DELAY.



DANGER

Make sure hydraulic hoses are properly routed without twists to prevent becoming pinched or kinked while operating. A pinched or kinked hose can burst and leak hydraulic fluid. Zip Ties

33083



Kubota CTL Note: If attaching to Kubota CTL, thread hoses through Kubota's Hose Stay Kit #S6689. Hose Stay Kit can be purchased through your nearest Kubota Dealer. Female Coupler Male Coupler Hose Bracket

Option 1 Hose Routing Figure 1-5

Open End Of Hitch Plate

(Typical Both Ends Of Hitch Plate)

Hydraulic hoses may be routed one of two ways:

Option 1 - Refer to Figure 1-5:

Left Port

Right Port

- a. If mounted, remove spring hose loop from hitch plate to facilitate accessing Skid Steer cab.
- b. Thread hydraulic hoses down through hose bracket and out through open end of hitch plate.

Option 2 - Refer to Figure 1-6:

Thread hydraulic hoses up through hose bracket and then through spring hose loop as shown.

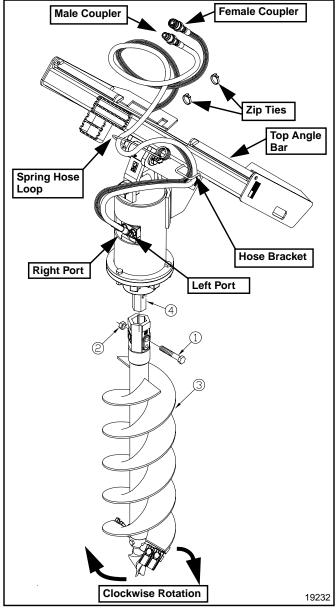
- 3. Thread hoses through any hose holders that may be provided on the machine operating the Auger. If attaching to Kubota CTL, thread hoses through Hose Stay Kit #S6689. Kubota Hose Stay Kit can be purchased through your nearest Kubota Dealer. See your Skid Steer/Tractor Operator's Manual for instruction on how to use these hose holders.
- Connect male and female couplers to the Skid Steer/Tractor high pressure outlets.
- 5. Make sure hoses are kept away from all pinch points and then zip tie hoses together as needed. Two zip ties are provided for this purpose.
- 6. Operate Skid Steer/Tractor to check auger rotation. The auger should rotate clockwise when looking down from above. If auger rotates counterclockwise, switch male and female couplers on the hydraulic hoses and then reconnect hoses to the outlets.
- Also see Hydraulic Hook-up instructions in your Skid Steer/Tractor Operator's Manual.

Auger Assembly

Refer to Figure 1-6:

NOTE: Augers are supplied with either a 2 9/16" dia. round hub or 2" hex hub. Make sure gearbox output shaft matches the auger hub.

- Position mounting holes in auger tube (#3) in line with hole in gearbox output shaft (#4).
- 2. Slide auger tube (#3) over gearbox output shaft (#4) and install:
 - Round Hub 7/8"-9 x 5" GR5 cap screw (#1) and nylock nut (#2).
 - Hex Hub 3/4"- 10 x 4 1/2" GR5 cap screw (#1) and nylock nut (#2).
- 3. Tighten hardware to proper torque.



Auger Screw Assembly With Option 2 Hose Routing Figure 1-6



Unhooking Post Hole Digger

Refer to Figure 1-1 & Figure 1-6 on page 9:

- Rotate top of tilt arms back and lower Skid Steer/ Tractor lift arms down until the auger tip touches the ground.
- 2. At this point, slowly back Skid Steer/Tractor up until hitch plate frame is on the ground.
- Stop engine, engage parking brake, raise seat bar, move controls until both are locked and remove key to prevent unauthorized starting. Use steps, grab-handles and skid-resistant surfaces when getting on or off the loader.
- Disconnect hydraulic hoses and release locking levers or pins. It may be necessary to release hydraulic pressure in the lines before hoses will disconnect from the loader.
- 5. Restart Skid Steer/Tractor and slowly rotate tilt arms back and lower loader arms down until auger tip and auger hitch plate are both resting on the ground.
- 6. Continue to lower the loader arms until the Skid Steer/Tractor hitch clears the auger hitch plate top angle bar.
- 7. Back away from auger hitch plate and then raise Skid Steer/Tractor loader arms up.



Operator's Responsibilities

Hazard control and accident prevention are dependent upon the awareness, concern, prudence, and proper training involved in the operation, transport, storage, and maintenance of the Skid Steer Auger. Therefore, it is absolutely essential that no one operates the auger screw without first having read, fully understood, and become totally familiar with the Operator's Manual. Make sure the operator has completed the Operating Checklist below.

Operating Checklist

_	T			
🗸	Check	Page No.		
	Read and follow all Safety Rules carefully. Refer to "Important Safety Information".	Page 1		
	Make sure all guards and shields are in place. Refer to "Important Safety Information".	Page 1		
	Read and follow hook-up & preparation instructions. Refer to "Section 1: Assembly & Set-up".	Page 7		
	Read and follow all operating procedures. Refer to "Section 2: Operating Procedures".	Page 11		
	Read and follow all Maintenance Instructions. Refer to "Section 4: Maintenance & Lubrication".	Page 15		
	Make sure their are no hydraulic leaks on the unit. Refer to "Avoid High Pressure Fluids Hazard".	Page 3		
	Read and follow all Lubrication Instructions. Refer to "Lubrication Points".	Page 16		
	Make sure all gearboxes are properly lubricated. Refer to Gearbox lubrication.	Page 16		
	Check auger screw initially and periodically for loose bolts and pins. Refer to "Torque Values Chart".	Page 20		



DANGER

The operator should be a person who is responsible, physically capable, and properly trained to operate this Post Hole Digger. Anyone not properly trained and all persons under the age of 16 should not operate this machine. Physical limitations of the elderly need to be recognized and taken into consideration when helping with the work.



DANGER

All guards and shields must be installed and in good working condition at all times while operating the digger. Do not operate digger with missing shields.



DANGER

Do not allow anyone to manually guide the auger to position its point on the ground while auger is operating. People can become entangled in the unit.



DANGER

Do not allow anyone to manually push down on the Post Hole Digger while in operation; or put anything or anyone on the unit for the purpose of adding weight to the unit. Objects and people can be pinched, thrown, or entangled in the unit.



DANGER

Do not allow anyone to manually guide the auger to position its point on the ground while auger is operating. People can become entangled in the unit.



DANGER

Do not remove spoil-pile with hand tools while auger is operating. Doing so can result in serious injury or death.



DANGER

It is the operator's responsibility to keep others away from the Post Hole Digger while auger is rotating. A person's body and/or clothing can become entangled in the auger causing serious injury or death. Anyone helping should be kept a safe distance (a minimum of 10 feet) from the auger while rotating.



DANGER

Keep all persons away from the Post Hole Digger while lowering, raising, and tilting the auger. Coming in contact with the attached machine can result in being pinched and/or entangled causing serious injury or death.



DANGER

Make sure the site is free from hazards before drilling. Look for obstacles on the ground, beneath mulching, and below ground that may need to be removed such as landscape fabric. Hand digging may be necessary to verify the presence of underground materials.



DANGER

Prior to drilling, cut a hole in landscape fabric sufficiently larger than the diameter of the auger to prevent contact or entanglement with the fabric. Fabric caught in the auger can cause someone nearby to fall and become caught in the auger.



DANGER

Never allow children or other passengers to ride on the tractor/skid steer or carry a rider on the Post Hole Digger. They can sustain serious injuries or be killed.



WARNING

Always secure attached implement with solid supports before working under it. Never work under equipment supported by hydraulics. Hydraulics can drop equipment if controls are actuated or if hydraulic lines burst. Either situation can drop machinery instantly even when power to hydraulics is off.



WARNING

Always travel with adequate clearance between ground and auger. Hitting an object while traveling forward can damage the auger, machine, and injure the operator.





WARNING

Always travel with auger lowered to reduce the chances of tip over due to high center of gravity. Tether auger with a chain if necessary to stop it from swinging while transporting.



WARNING

Avoid tipping the tractor/skid steer over. Never operate on hill sides or sloping ground that will tip the machine over. Make sure the machine is always on firm stable ground.



WARNING

Before digging, contact your local utility companies (electrical, telephone, gas, water, sewer, and others) so that they may mark the location of any under ground services in the area. Be sure to ask how close you can work to the marks they positioned. Avoid contact with any over head utility lines or electrically charged conductors.



WARNING

Do not install a bolt that is longer than what was originally supplied with the auger. A protruding fastener is more likely to grab loose clothing and may cause serious injury or death.



WARNING

Make sure tractor/skid steer hitch is properly attached to the equipment hitch plate. It must be secured under the hitch plate top angle bar. Hitch locking handles must be locked down with locking pins extending fully through bottom slots in the hitch plate. An improperly attached hitch can allow equipment to fall and be thrown towards bystanders and/or operator.



WARNING

The tractor/skid steer hydraulics must not to exceed 3500 PSI. The attached hydraulic operated equipment is rated for a maximum of 3500 PSI working pressure. Exceeding maximum PSI can result in serious injury, death, or equipment damage.



WARNING

Use the Post Hole Digger for its intended purpose only. Do not use digger to lift or carry objects; to pull fence posts, stumps, or other objects; or to tow other equipment. Doing so can damage the unit, cause serious bodily injury, or death.



CAUTION

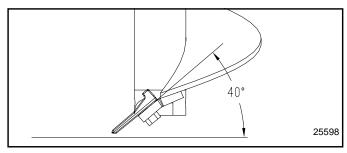
Never adjust tractor pressure relief valve for a pressure rating higher than what is recommended by the tractor manufacture.

Dual-Angle Teeth

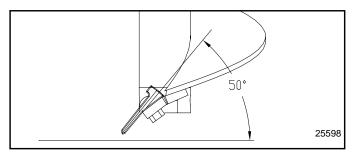
Refer to Figure 2-1 & Figure 2-2:

The Auger is shipped with teeth mounted at 40 degrees (see Figure 2-1). If you are experiencing difficulty in penetrating the soil, they can be turned over and

mounted at 50 degrees (see Figure 2-2) for a more aggressive bite. Be sure to tighten all mounting hardware to the proper torque when securing teeth to the Auger. See "Torque Values Chart for Common Bolt Sizes" on page 20 for torque ratings.



Auger Teeth Mounted at 40 Degrees Figure 2-1



Auger Teeth Mounted at 50 Degrees Figure 2-2

Operating Instructions

- 1. Roll tilt arms to carry the auger low to the ground while traveling between drilling positions.
- Position Skid Steer/Tractor on the upside of the hill when drilling a hole. This will greatly improve its balance and down force.
- 3. Experiment with auger speeds before digging. Increase Skid Steer/Tractor engine speed to increase auger speed and decrease engine speed to reduce auger speed. Run at higher auger speeds when digging in soft and/or sandy soils and at lower auger speeds when digging in hard, rocky, or frozen soils. Normal auger speed is 85 to 100 rpm. Never exceed 110 rpm or the equipment can become damaged.

IMPORTANT: Operate one loader function at a time. Operating two or more functions at a time (loader arms, tilt arms, engine speed, and loader positioning) can lead to damaged equipment.

- Maker sure auger rotation is stopped and then lower auger point to the ground.
- With engine running at a slow speed, start auger turning clockwise. Increase engine speed to desired digging speed.

IMPORTANT: Avoid side pressure on the auger. This can damage auger and drive components.



- Periodically adjust the machine's position to keep the auger and hole vertical. Be careful not to damage gearbox or auger.
- 7. Apply down pressure to assist ground penetration. If auger speed slows or stops, back off down pressure. Excessive down pressure can stall the auger.

IMPORTANT: Always stop auger from rotating before raising it out of the hole. This will keep auger from wobbling with an unbalanced dirt load.

Do not reverse auger rotation when raising it up. This will dump soil back into the hole.

- 8. After penetrating the ground approximately 24", stop auger rotation and raise it up to remove soil and debris from the hole. Lower auger back down to continue digging. Dig another 24" and again raise auger up except this time keep auger turning to lessen the strain on the equipment. Stop raising auger within 1 to 2 feet of being out of the hole and lower it back down to continue digging. Repeat this procedure until hole is at its final depth.
- Allow auger to turn several revolutions at final depth. With auger still turning, raise auger up to within 1 to 2 feet of being out of the hole. Stop auger rotation and continue to raise auger out of the hole.

IMPORTANT: Stop auger rotation immediately if it becomes stalled while digging. Some power machinery have a hydraulic relief valve to protect equipment. This valve will open in a stalled situation and allow oil to bypass the machine's hydraulic motor. Check your Operator's Manual to see if your machine is equipped with a hydraulic relief valve.

IMPORTANT: Stop auger immediately if auger starts to screw itself into the soil, hits a large obstruction or becomes stalled, raise auger up to free it and then continue normal digging operations by lowering auger down slowly. If auger does not penetrate obstruction, raise auger out of the hole and remove obstruction by other means or dig a new hole nearby.

It is best to leave drilling through hard rock to premium high pressure drilling equipment or other rock excavation methods

 Roll tilt arms into a low carry position when transporting from one digging site to the next. Be careful to watch out for people, obstructions, and uneven terrain.

General Operation

By now you should have thoroughly read your Operator's Manual, properly installed your Post Hole Digger onto your machine and performed your pre-start and operational running checklist. If you plan to dig holes immediately, you should have also contacted your local utility companies to make sure it is safe to dig where you

plan to work. If you haven't done all of the things just described above, please stop and do them now. This is a must for your safety and the safety of others.

Now that you are properly briefed, your SA35 Post Hole Digger is properly installed, and you have the proper digging authorization from the utility companies, it's time to transport to the work site. Make sure that the Post Hole Digger is in the raised position and not in contact with the ground. If you have an extensive distance to travel, you may want to secure the auger with ropes, slings, or chains to prevent swinging and potential damage in transport. Select a safe speed and transport to your digging site in such a manor that faster moving vehicles can pass you safely. A slow moving vehicle sign should be employed if you are using a public road or right-of-way.

Once you have safely arrived at your digging site, position your Skid Steer/Tractor so that the auger is directly over the spot where you want to dig a hole. Make sure your operator protective shield or safety door is securely in place. Lower Skid Steer/Tractor arms and auger to a point where the auger clears the ground by approximately 12". Do not operate the digger when the auger is more than 12" above ground level or the auger could bind or swing erratically causing injury to the operator and damage to the equipment.

With the engine at idle, engage hydraulic circuit and raise engine rpm to operate between 10 and 25 GPM hydraulic flow to a point where the auger is turning at speeds a speed of approximately 85 to 100 rpm. Do not operate the auger at over 110 rpm or damage to the Post Hole Digger and Skid Steer/Tractor could result. Using the loader arm controls, lower the auger into the ground until the desired depth is achieved and then raise the spinning auger back up to remove extraneous soil. Once the hole is completed, disengage hydraulic drive circuit, raise auger to a point where the auger tip is approximately 12" off of the ground, release park brake and move away from the hole.

If an obstacle is encountered that stalls the auger while digging, reverse auger rotation and lift up to clear the obstacle.

Periodically adjust the machine's position to keep the auger and hole vertical. Be careful not to damage gearbox or auger.

Before dismounting your Skid Steer/Tractor; you must always set the park brake, lower your loaders arms and attachment to the ground, turn off the machine, and remove the ignition key. If you must park on a hillside you should always chock the Skid Steer/Tractor wheels for an extra measure of safety.

With a little practice and experience you should become very good at operating your Land Pride SA35 Series Post Hole Digger.

See "Features and Benefits" section or "Product Specifications" for additional information on performance enhancing options.



Auger Extension

Refer to Figure 3-1:

If desired hole depth cannot be achieved, an auger extension shaft can be purchased from your nearest Land Pride dealer.

Land Pride Auger Extensions							
Part No.	Part Description						
	SA 24" X 2 9/16"OD AUGER EXT. ASY SA 48" X 2 9/16" OD AUGER EXT. ASY						
	SA 24" X 2" HEX AUGER EXTEN. ASSY SA 48" X 2" HEX AUGER EXTEN. ASSY						

Augers

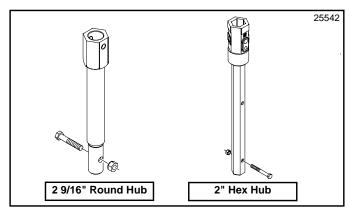
Refer to Figure 3-2 & Figure 3-3:

Land Pride offers standard and tree augers with 2 9/16" dia. round hubs or 2" hex hubs with aggressive cutting teeth on both.

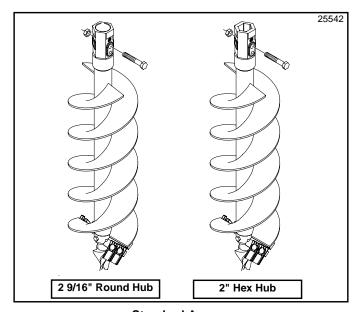
Tree augers are excellent for digging holes that are larger in diameter at the top and smaller at the bottom. This hole designed is good for planting bush, shrub, and tree bulbs at soil level and allowing the root system to reach down underneath to collect needed nutrients.

Land Pride Standard Augers							
Part No.	Part Description						
317-096A 317-099A 317-102A 317-105A 317-108A 317-114A 317-120A	SA 9" X 2 9/16" HUB DOUBLE AUGER SA 12" X 2 9/16" HUB DOUBLE AUGER SA 15" X 2 9/16" HUB DOUBLE AUGER SA 18" X 2 9/16" HUB DOUBLE AUGER SA 24" X 2 9/16" HUB DOUBLE AUGER SA 30" X 2 9/16" HUB DOUBLE AUGER SA 36" X 2 9/16" HUB DOUBLE AUGER SA 36" X 2 9/16" HUB DOUBLE AUGER						
317-095A 317-098A 317-101A 317-104A 317-107A 317-113A 317-119A	SA 9" X 2" HEX HUB DOUBLE AUGER SA 12" X 2" HEX HUB DOUBLE AUGER SA 15" X 2" HEX HUB DOUBLE AUGER SA 18" X 2" HEX HUB DOUBLE AUGER SA 24" X 2" HEX HUB DOUBLE AUGER SA 30" X 2" HEX HUB DOUBLE AUGER SA 36" X 2" HEX HUB DOUBLE AUGER						

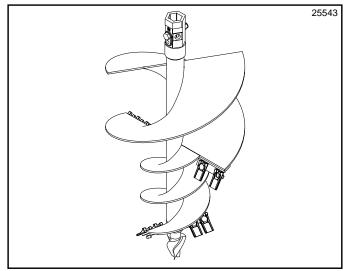
Land Pride Tree Augers							
Part No.	Part Description						
317-117A	SA 24" X 2 9/16" HUB TREE AUGER SA 30" X 2 9/16" HUB TREE AUGER SA 36" X 2 9/16" HUB TREE AUGER						
	SA 24" X 2" HEX HUB TREE AUGER SA 30" X 2" HEX HUB TREE AUGER SA 36" X 2" HEX HUB TREE AUGER						



Auger Extensions Figure 3-1



Standard Augers Figure 3-2



Tree Augers (2" Hex hub shown) Figure 3-3



Maintenance

General

Proper servicing and adjustment is the key to the long life of any implement. With careful inspection and routine maintenance, you can avoid costly downtime and repair.

Read and obey all safety labels on the Skid Steer Auger. Securely block raised equipment before working under or around it. Do not allow anyone to operate or perform maintenance on this implement who has not been properly trained in its safe operation. Do not alter the equipment in a way which will adversely affect its performance or reliability, or for a purpose the product is not designed.



DANGER

All guards and shields must be installed and in good working condition at all times while operating the digger. Do not operate digger with missing shields.



DANGER

Do not allow anyone to perform maintenance on this implement who has not been properly trained in its safe operation.



DANGER

Keep all persons away from rotating auger. Contact with rotating parts may cause serious injury or death.



WARNING

Stop engine, engage parking brake, raise seat bar, move controls until both are locked, and remove key to prevent unauthorized starting before performing maintenance on the auger. Use steps, grab-handles, and anti-slip surfaces when getting on or off the loader.



DANGER

Always secure Post Hole Digger in the raised position with solid supports before servicing underside of auger. Never work under equipment supported by hydraulics. Hydraulics can drop equipment instantly if controls are actuated even when power to the hydraulics is shut off.



WARNING

Frequently check all hardware to make certain it is tight. Operating equipment with loose pins, bolts, and nuts can cause equipment to not perform properly and may result in a serious breakdown that can cause bodily injury or death.



WARNING

Read and obey all instructions on the safety labels. Make sure they are installed in their proper location and are in good condition before operating the digger.

Daily Inspections

- Inspect auger point and teeth for wear and loose fit. Keep cutting edges sharp. Sharp cutting edges dig easier and better.
- Inspect flighting for wear, bend, and cracks.
- 3. Inspect auger mounting hardware for wear, bend, and loose fit.
- 4. Inspect all connecting pins and hardware for wear, bend, and loose fit.
- 5. Inspect out put shaft for bend and wear.
- Check gearbox fluid level periodically. Refer to "Gear Lube Fluid Level" on page 16 for detailed instructions.
- Replace all worn, damaged, or illegible safety labels by obtaining new labels from your nearest Land Pride dealer.

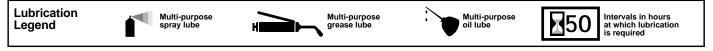
Storage

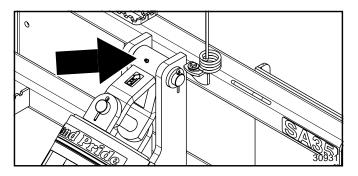
Clean, inspect, service, and make necessary repairs to the Skid Steer Auger when parking it for long periods and when parking it at the end of a working season. This will help ensure the auger is ready for field use the next time you hook-up to it.

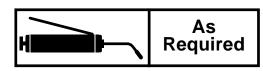
- Clean off any dirt and grease that may have accumulated on the unit and moving parts. Scrape off compacted dirt and then wash surfaces thoroughly with a garden hose. A coating of oil may also be applied to the spiral flights to minimize oxidation.
- 2. Inspect unit for loose, damaged, or worn parts and adjust or replace as needed.
- 3. Lubricate as noted on page 16.
- Store unit on a level surface in a clean, dry place. Be sure unit is properly supported so as not to fall on any one during storage.
- Repaint parts where paint is worn or scratched to prevent rust. Ask your dealer for Land Pride touch-up paint. They are available in aerosol spray cans, touch-up bottles, quarts, and gallon sizes
- 6. Replace all damaged or missing decals.



Lubrication Points



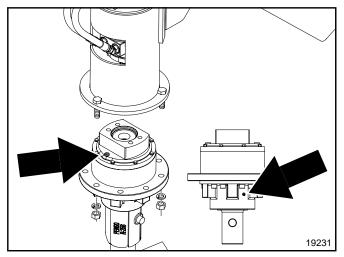




Auger Clevis Pivot

Type of Lubrication: Multi-purpose grease

Quantity = Light film



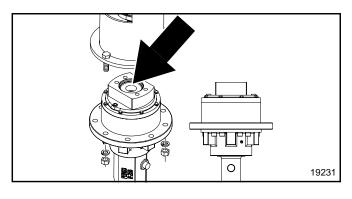


Gear Lube Fluid Level

The gearbox housing should be removed for checking or changing the gearbox oil as shown. Change oil after the first 50 hours of operation. Then every 1200 hours or 12 months whichever comes first.

NOTE: The gearbox is pre filled with oil at the factory.

Type of Lubrication: SAE 90W Multi-purpose Lube Quantity = Check oil daily before use by removing plug from side of gearbox. If oil level is low remove top plug and fill with lube until fluid flows from side port. Do not overfill.

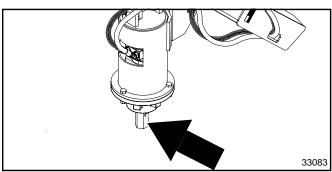


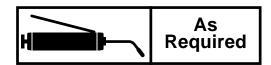


Gearbox Input Shaft

Type of Lubrication: Multi-purpose grease

Quantity = Light film





Gearbox Output Shaft

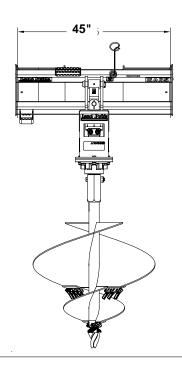
Type of Lubrication: Multi-purpose grease

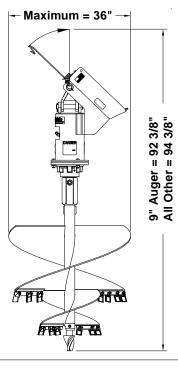
Quantity = Light film



SA35 Model

Description	SA35						
Skid Steer Hydraulic Requirements	10 - 25 GPM @ 1500 to 3500 PSI						
Weight without Auger	435 lbs.						
Auger Length	9" Auger size = 49" All other auger sizes = 50 3/4"						
Auger Flighting Thickness	5/16"						
Auger Pipe	2 1/2" ID						
Auger Teeth	Forged, Individually Replaceable 40 Degree angle installed on flat side 50 Degree angle installed on angled side						
Number of Teeth	Standard Augers 9" & 12" - 4 teeth 15" - 5 teeth 18" - 6 teeth 24" - 8 teeth 30" - 10 teeth 36" - 12 teeth						
Pilot	Cast Steel, 3 -Drill Points						
Auger Drive	Hydraulic						
Gearbox	18 GPM (Gallons Per Minute) Hydraulically	driven planetary gearbox; reversible					
Output Shaft	2" Hex or 2 9/16" O.D. round						
Hitch	Skid Steer or Front Loader Plate						
	Options and Accessories						
Auger sizes (Options).	Standard: 9", 12", 15", 18", 24", 30" and 36	5" / Tree: 24", 30" and 36"					
Gearbox Output Shafts (Options)	2" Hex or 2 9/16" OD round						
Auger Extensions (Accessories)	2" Hex extension: 2 9/16" OD round extension: 24" & 48" Extensions Available 24" & 48" Extensions Available						





26782



SA35 Model (Skid Steer)

Features	Benefits
Universal Fit	Fits most Skid Steers
Maneuverability	Skid Steer Post Hole Diggers are able to reach over fences or other obstructions.
Replaceable hardened steel points on auger	Hardened points will last longer than non-hardened. Points are replaceable. Fish tail tips and steel point make it easier to start a hole.
SA35 Series	Fits 10 – 25 GPM hydraulic systems.
Output shaft options	2" Hex shaped output shaft, or 2 9/16" shaft. Both offer high torque resistance, with the hex shaft being the heaviest available.
Planetary gearbox	Design is a tougher, more construction grade than chain and sprocket designed gearboxes. Boxes are completely sealed with all moving parts running in oil for constant lubrication.
5 Year gearbox warranty on housings, gears & shafts	Shows our confidence in the gearbox integrity.
Auger sizes	9", 12", 15", 18", 24", 30", or 36" augers
Auger length	46" on 9" Auger, 48" on all others.



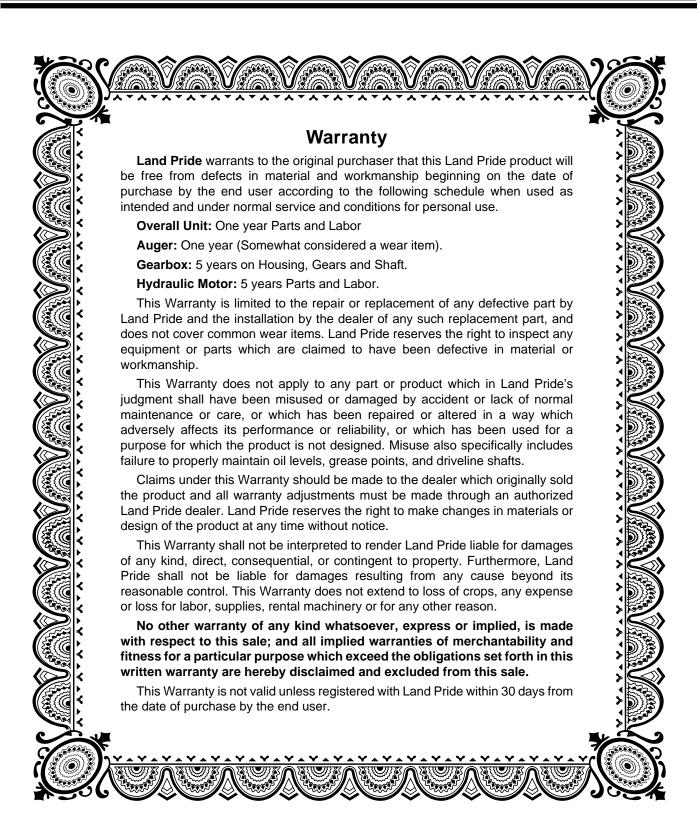
Troubleshooting Chart

Problem	Cause	Solution					
Auger will not dig	Teeth are dull.	Sharpen or replace teeth.					
	Auger is turning too fast and bouncing.	Reduce engine speed. Do not exceed 300 RPM.					
	Auger is encountering rocks, roots, or other obstructions.	Lift auger from hole and remove obstruction or change location.					
	Skid Steer/Tractor is not positioned properly.	Reposition Skid Steer/Tractor.					
Auger digs so far, but will not dig deeper	Soil could have hardpan layer below surface.	Use Skid Steer to push auger into ground. May Need to use an extension.					
Auger is bent and/or auger flighting is bent	Skid Steer/Tractor moved on its own while auger was in the hole.	Always make sure gear selector is in neutral or park and brakes are set.					
	Operator moved Skid Steer/Tractor excessively with auger in hole to try to straighten hole being dug at an angle.	Be careful not to damage gearbox or auger when moving. While digging, move Skid Steer/Tractor in small increments to keep the hole straight.					
	Auger is encountering rocks, roots, or other obstructions.	Lift auger from hole and remove obstruction or change location.					
Excessive oil heating	Flow in hydraulic line is restricted due to dirt particles in fittings and twisted hydraulic hoses.	Remove dirt particles in fittings and untwist hydraulic hoses that maybe pinched or kinked.					
	Defective or mismatched coupler.	Replace with proper couplers.					
	Hydraulic fluid is dirty.	Replace hydraulic fluid and filter.					
	Insufficient quantity of hydraulic fluid.	Fill reservoir to proper level. Increase reservoir storage capacity.					
	Digging load is excessive.	Reduce load to within machine specifications.					
Gearbox is damaged	No oil in Gearbox.	Check oil level in gearbox per instructions.					
	Oil not changed per instructions.	Change oil per instructions.					
Jerky operation	Cold oil or air in hydraulic lines.	Allow time for the hydraulic oil to warm up.					
	Hydraulic system not working properly.	See Skid Steer/Tractor Operator's Manual.					
Insufficient	Excessive wear of auger teeth or point.	Replace auger teeth or point.					
digging power	Low system pressure. (PSI)	Check system with pressure gauge. If low, investigate cause.					
	Relief valve is damaged or is set wrong.	Refer to Skid Steer/Tractor or Operator's Manual.					
	Excessive digging load.	Reduce load to within machine specifications.					
Hydraulic Oil leaks	Loose or damaged hoses.	Tighten or replace hydraulic hoses.					
	Loose or damaged fittings.	Tighten or replace hydraulic fittings.					
	Hydraulic motor seals and gaskets are worn or damaged.	See Dealer for repair.					
Auger turns in reverse direction	Hydraulic hoses are reversed.	Re-install hoses correctly.					
Auger speed is slow	Low hydraulic flow through the system.	Check with flow meter. If low, investigate and correct.					
	Flow in hydraulic line is restricted due to dirt particles in fittings and twisted hydraulic hoses.	Remove dirt particles in fittings and untwist hydraulic hoses that maybe pinched or kinked.					
	Defective or mismatched couplers.22	Replace with proper couplers.					
	Fittings and/or connections are too small.	Replace with proper size fittings and/or connections.					
	Dirty oil filter.	Replace oil filter.					
	Worn or damaged hydraulic pump.	See dealer for repair					
	Excessive wear of auger teeth or point.	Replace auger teeth and/or point.					



Torque Values Chart for Common Bolt Sizes													
		Bolt Head Identification											
Bolt Size		\supset	\in	$\langle \rangle$	\mathcal{E}	\setminus	Bolt Size	5	.8	8	8.8	10	0.9
(inches)	Gra	de 2	Gra	de 5	Gra	de 8	(Metric)	Class 5.8		Class 8.8		Class 10.9	
in-tpi ¹	N·m²	ft-lb ³	N⋅m	ft-lb	N⋅m	ft-lb	mm x pitch ⁴	N⋅m	ft-lb	N · m	ft-lb	N · m	ft-lb
1/4" - 20	7.4	5.6	11	8	16	12	M 5 X 0.8	4	3	6	5	9	7
1/4" - 28	8.5	6	13	10	18	14	M 6 X 1	7	5	11	8	15	11
5/16" - 18	15	11	24	17	33	25	M 8 X 1.25	17	12	26	19	36	27
5/16" - 24	17	13	26	19	37	27	M 8 X 1	18	13	28	21	39	29
3/8" - 16	27	20	42	31	59	44	M10 X 1.5	33	24	52	39	72	53
3/8" - 24	31	22	47	35	67	49	M10 X 0.75	39	29	61	45	85	62
7/16" - 14	43	32	67	49	95	70	M12 X 1.75	58	42	91	67	125	93
7/16" - 20	49	36	75	55	105	78	M12 X 1.5	60	44	95	70	130	97
1/2" - 13	66	49	105	76	145	105	M12 X 1	90	66	105	77	145	105
1/2" - 20	75	55	115	85	165	120	M14 X 2	92	68	145	105	200	150
9/16" - 12	95	70	150	110	210	155	M14 X 1.5	99	73	155	115	1215	160
9/16" - 18	105	79	165	120	235	170	M16 X 2	145	105	225	165	315	230
5/8" - 11	130	97	205	150	285	210	M16 X 1.5	155	115	240	180	335	245
5/8" - 18	150	110	230	170	325	240	M18 X 2.5	195	145	310	230	405	300
3/4" - 10	235	170	360	265	510	375	M18 X 1.5	220	165	350	260	485	355
3/4" - 16	260	190	405	295	570	420	M20 X 2.5	280	205	440	325	610	450
7/8" - 9	225	165	585	430	820	605	M20 X 1.5	310	230	650	480	900	665
7/8" - 14	250	185	640	475	905	670	M24 X 3	480	355	760	560	1050	780
1" - 8	340	250	875	645	1230	910	M24 X 2	525	390	830	610	1150	845
1" - 12	370	275	955	705	1350	995	M30 X 3.5	960	705	1510	1120	2100	1550
1-1/8" - 7	480	355	1080	795	1750	1290	M30 X 2	1060	785	1680	1240	2320	1710
1-1/8" - 12	540	395	1210	890	1960	1440	M36 X 3.5	1730	1270	2650	1950	3660	2700
1-1/4" - 7	680	500	1520	1120	2460	1820	M36 X 2	1880	1380	2960	2190	4100	3220
1-1/4" - 12	750	555	1680	1240	2730	2010	¹ in-tpi = nomir	nal threa	ıd diame	eter in in	ches-thr	eads pe	r inch
1-3/8" - 6	890	655	1990	1470	3230	2380	² N⋅ m = newto	n-meter:	S				
1-3/8" - 12	1010	745	2270	1670	3680	2710	³ ft-lb= foot po	unds					
1-1/2" - 6	1180	870	2640	1950	4290	3160	4 mm x pitch = nominal thread diameter in millimeters x thread						
1-1/2" - 12	1330	980	2970	2190	4820	3560	pitch						
Torque tolerance + 0%, -15% of torquing values. Unless otherwise specified use torque values listed above.													





IMPORTANT: The Online Warranty Registration should be completed by the dealer at the time of purchase. This information is necessary to provide you with quality customer service.

Model Number _____ Serial Number ____



Corporate Office: P.O. Box 5060 Salina, Kansas 67402-5060 USA www.landpride.com