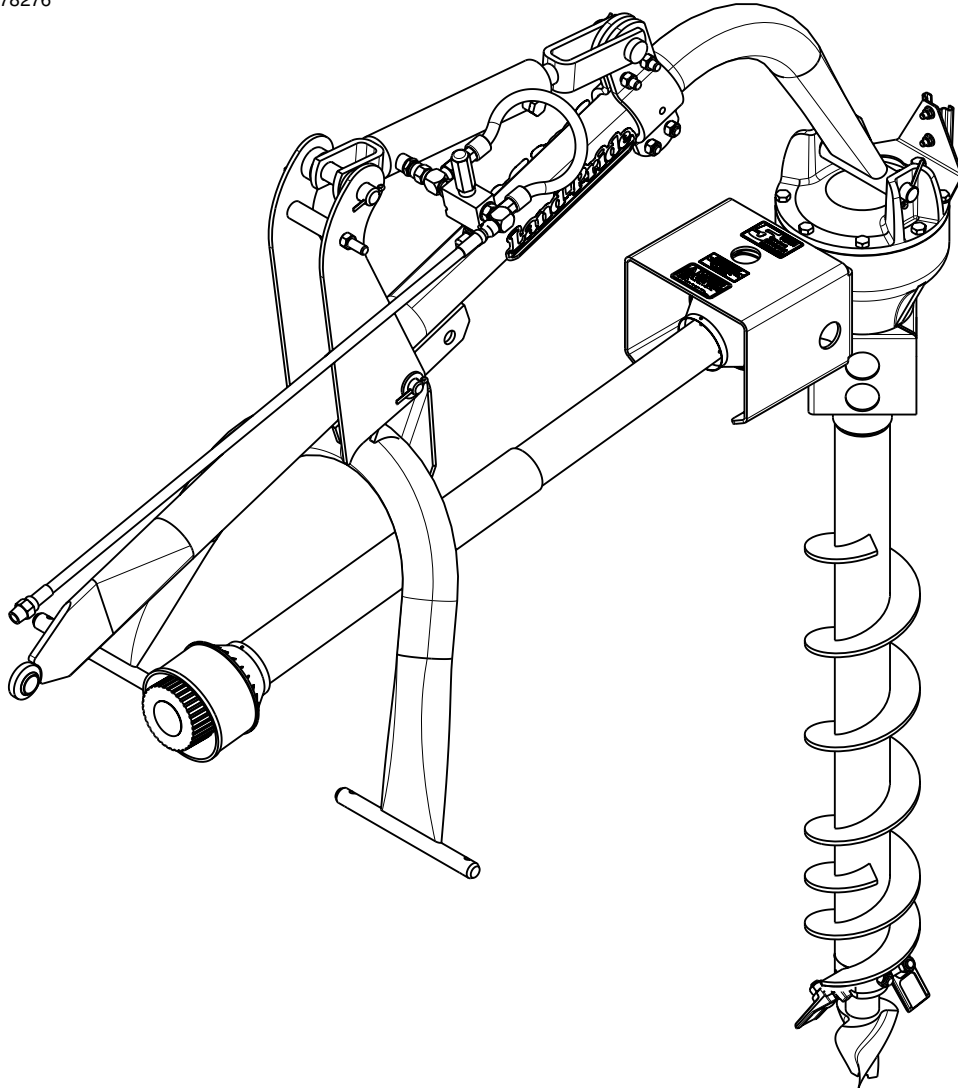


Post Hole Diggers

PD10, PD15, PD25 & PD35

78276



317-048M 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.

For an Operator's Manual and Decal Kit in French or Spanish Language, please see your Land Pride dealer.





Machine Identification

Record your machine details in the log below. If you replace this manual, be sure to transfer this information to the new manual.

If you, or the dealer, have added Options not originally ordered with the machine, or removed Options that were originally ordered, the weights and measurements are no longer accurate for your machine. Update the record by adding the machine weight and measurements provided in the Specifications & Capacities Section of this manual with the Option(s) weight and measurements.

Model Number	
Serial Number	
Machine Height	
Machine Length	
Machine Width	
Machine Weight	
Delivery Date	
First Operation	
Accessories	

Dealer Contact Information

Name: _____

Street: _____

City/State: _____

Telephone: _____

Email: _____

	California Proposition 65 WARNING: Cancer and reproductive harm - www.P65Warnings.ca.gov
---	---

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Printed in the United States of America.



See previous page for Table of Contents.



Parts Manual QR Locator

The QR (Quick Reference) code on 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.

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

Safety at All Times

Careful operation is your best assurance against an accident.

All operators, no matter how much experience they may have, should carefully read this manual and other related manuals, or have the manuals read to them, before operating the power machine and this implement.

- ▲ Thoroughly read and understand the "Safety Label" section. Read all instructions noted on them.
- ▲ Do not operate the equipment while under the influence of drugs or alcohol as they impair the ability to safely and properly operate the equipment.
- ▲ The operator should be familiar with all functions of the tractor and attached implement, and be able to handle emergencies quickly.
- ▲ Make sure all guards and shields appropriate for the operation are in place and secured before operating the implement.
- ▲ Keep all bystanders away from equipment and work area.
- ▲ Start tractor from the driver's seat with hydraulic controls in neutral.
- ▲ Operate tractor and controls from the driver's seat only.
- ▲ Never dismount from a moving tractor or leave tractor unattended with engine running.
- ▲ Do not allow anyone to stand between tractor and implement while backing up to implement.
- ▲ Keep hands, feet, and clothing away from power-driven parts.
- ▲ While transporting and operating equipment, watch out for objects overhead and along side such as fences, trees, buildings, wires, etc.
- ▲ Do not turn tractor so tight as to cause hitched implement to ride up on the tractor's rear wheel.
- ▲ Store implement in a safe and secure area where children normally do not play. When needed, secure implement against falling with support blocks.



Look for the Safety Alert Symbol

The SAFETY ALERT SYMBOL indicates there is a potential hazard to personal safety and extra precaution must be taken. When you see this symbol, be alert and carefully read the message that follows it. 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. They are:

- ▲ **DANGER:** Indicates a hazardous situation that, if not avoided, will result in death or serious injury.
- ▲ **WARNING:** Indicates a hazardous situation that, if not avoided, could result in death or serious injury.
- ▲ **CAUTION:** Indicates a hazardous situation that, if not avoided, may result in minor or moderate injury.

Be Aware of Special Notices

Special notices are intended to point out important and helpful information that should be followed. They are usually placed inside a box. They are:

- IMPORTANT:** Indicates that equipment or property damage could result if instructions are not followed.
- NOTE:** Indicates supplementary explanations that will be helpful when using the equipment.

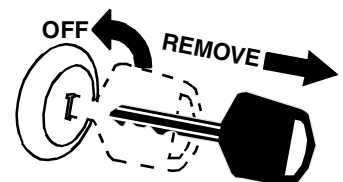
Safety Precautions for Children

Tragedy can occur if the operator is not alert to the presence of children. Children generally are attracted to implements and their work.

- ▲ Never assume children will remain where you last saw them.
- ▲ Keep children out of the work area and under the watchful eye of a responsible adult.
- ▲ Be alert and shut the implement and tractor down if children enter the work area.
- ▲ Never carry children on the tractor or implement. There is not a safe place for them to ride. They may fall off and be run over or interfere with the control of the power machine.
- ▲ Never allow children to operate the power machine, even under adult supervision.
- ▲ Never allow children to play on the power machine or implement.
- ▲ Use extra caution when backing up. Before the tractor starts to move, look down and behind to make sure the area is clear.

Tractor Shutdown & Storage

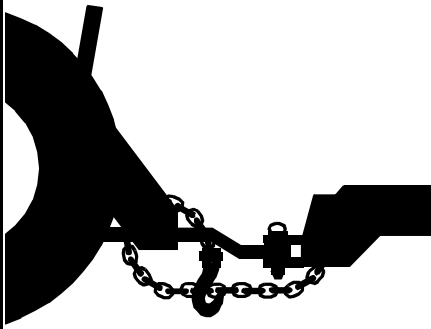
- ▲ If engaged, disengage power take-off.
- ▲ Park on solid, level ground and lower implement to ground or onto support blocks.
- ▲ Put tractor in park or set park brake.
- ▲ Turn off engine and remove ignition key to prevent unauthorized starting.
- ▲ Relieve all hydraulic pressure to auxiliary hydraulic lines.
- ▲ Wait for all components to stop before leaving operator's seat.
- ▲ Use steps, grab-handles and anti-slip surfaces when stepping on and off the tractor.



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

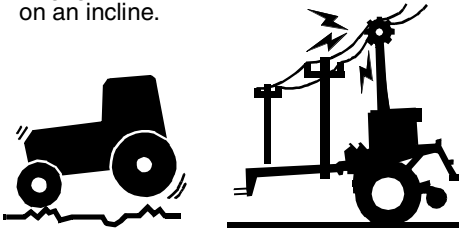
Use A Safety Chain

- ▲ A safety chain will help control drawn machinery should it separate from the tractor drawbar.
- ▲ Use a chain with the strength rating equal to or greater than the gross weight of the towed implement.
- ▲ Attach the chain to the tractor drawbar support or other specified anchor location. Allow only enough slack in the chain to permit turning.
- ▲ Always hitch the implement to the machine towing it. Do not use the safety chain to tow the implement.



Transport Safely

- ▲ Comply with federal, 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 unexpectedly. Reduce speed if towed trailer is not equipped with brakes.
- ▲ Avoid contact with any overhead 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 steep inclines with heavy end of skid steer on the "uphill" side.
- ▲ Engage park brake when stopped on an incline.



- ▲ Maximum transport speed for an attached equipment is 20 mph (32 km/h). **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 attached equipment:
 - 20 mph (32 km/h)** when weight of attached equipment is less than or equal to the weight of machine towing the equipment.
 - 10 mph (16 km/h)** when weight of attached equipment exceeds weight of machine towing equipment 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.



Tire Safety

- ▲ Tire changing can be dangerous and must be performed by trained personnel using the correct tools and equipment.
- ▲ Always properly match the wheel size to the properly sized tire.
- ▲ Always maintain correct tire pressure. Do not inflate tires above recommended pressures shown in the Operator's Manual.
- ▲ When inflating tires, use a clip-on chuck and extension hose long enough to allow you to stand to one side and NOT in front of or over the tire assembly. Use a safety cage if available.
- ▲ Securely support the implement when changing a wheel.
- ▲ When removing and installing wheels, use wheel handling equipment adequate for the weight involved.
- ▲ Make sure wheel bolts have been tightened to the specified torque.



Practice Safe Maintenance

- ▲ Understand procedure before doing work. Refer to the Operator's Manual for additional information.
- ▲ Work on a level surface in a clean dry area that is well-lit.
- ▲ Lower implement to the ground and follow all shutdown procedures before leaving the operator's seat to perform maintenance.
- ▲ Do not work under any hydraulically supported equipment. It can settle, suddenly leak down, or be lowered accidentally. If it is necessary to work under the equipment, securely support it with stands or suitable blocking beforehand.
- ▲ Use properly grounded electrical outlets and tools.
- ▲ Use correct tools and equipment for the job that are in good condition.
- ▲ Allow equipment to cool before working on it.

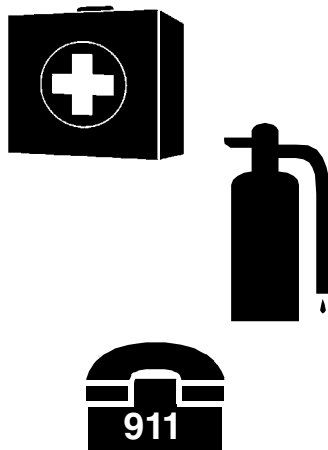
- ▲ Disconnect battery ground cable (-) before servicing or adjusting electrical systems or before welding on implement.
- ▲ Inspect all parts. Make certain parts are in good condition & installed properly.
- ▲ Replace parts on this implement with genuine Land Pride parts only. Do not alter this implement in a way which will adversely affect its performance.
- ▲ Do not grease or oil implement while it is in operation.
- ▲ Remove buildup of grease, oil, or debris.
- ▲ Always make sure any material and waste products from the repair and maintenance of the implement are properly collected and disposed.
- ▲ Remove all tools and unused parts from equipment before operation.
- ▲ Do not weld or torch on galvanized metal as it will release toxic fumes.



Listed below 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 the phone.



Wear Personal Protective Equipment (PPE)

- ▲ Wear protective clothing and equipment appropriate for the job such as safety shoes, safety, glasses, hard hat, dust mask, and ear plugs.
- ▲ Clothing should fit snug 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 a machine safely requires the operator's full attention. Avoid wearing headphones while operating equipment.



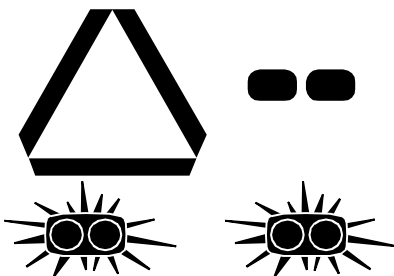
Avoid High Pressure Fluids

- ▲ Escaping fluid under pressure will penetrate the skin or eyes causing serious injury.
- ▲ Relieve all residual pressure before disconnecting hydraulic lines or performing work on the hydraulic system.
- ▲ Make sure all hydraulic fluid connections are properly tightened/torqued 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, seek immediate emergency medical care or gangrene may result.



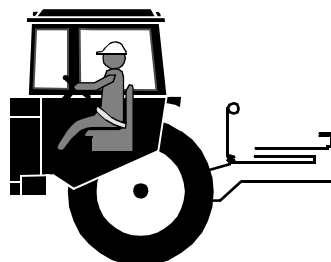
Use Safety Lights and Devices

- ▲ A Slow moving power machine can create a hazard when driven on public roads. They are difficult to see, especially at night. Use the Slow Moving Vehicle (SMV) sign when on public roads.
- ▲ Flashing warning lights and turn signals are recommended whenever driving on public roads.



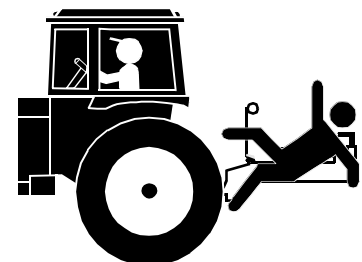
Use Seat Belt and ROPS

- ▲ Land Pride recommends the use of a CAB or roll-over-protective-structures (ROPS) and seat belt in almost all power machines. Combination of a CAB or ROPS and seat belt will reduce the risk of serious injury or death if the power machine should be upset.
- ▲ If ROPS is in the locked-up position, fasten seat belt snugly and securely to help protect against serious injury or death from falling and machine overturn.



Keep Riders Off Machinery

- ▲ Never carry riders on the tractor or implement.
- ▲ Riders obstruct operator's view and interfere with the control of the power machine.
- ▲ Riders can be struck by objects or thrown from the equipment.
- ▲ Never use the tractor or implement to lift or transport riders.



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

Avoid crystalline Silica (quartz) Dust

Because crystalline silica is a basic component of sand and granite, many activities at construction sites produce dust containing crystalline silica. Trenching, sawing, and boring of material containing crystalline silica can produce dust containing crystalline silica particles. This dust can cause serious injury to the lungs (silicosis).

There are guidelines which should be followed if crystalline silica (quartz) is present in the dust.



- ▲ Be aware of and follow OSHA (or other local, State, or Federal) guidelines for exposure to airborne crystalline silica.
- ▲ Know the work operations where exposure to crystalline silica may occur.
- ▲ Participate in air monitoring or training programs offered by the employer.
- ▲ Be aware of and use optional equipment controls such as water sprays, local exhaust ventilation, and enclosed cabs with positive pressure air conditioning if the machine has such equipment. Otherwise respirators shall be worn.
- ▲ Where respirators are required, wear a respirator approved for protection against crystalline silica containing dust. Do not alter respirator in any way. Workers who use tight-fitting respirators can not have beards/mustaches which interfere with the respirator seal to the face.
- ▲ If possible, change into disposable or washable work clothes at the work site; shower and change into clean clothing before leaving the work site.
- ▲ Do not eat, drink, use tobacco products, or apply cosmetics in areas where there is dust containing crystalline silica.
- ▲ Store food, drink, and personal belongings away from the work area.
- ▲ Wash hands and face before eating, drinking, smoking, or applying cosmetics after leaving the exposure area.

Handle Chemicals Properly

- ▲ Protective clothing should be worn.
- ▲ Handle all chemicals with care.
- ▲ Follow instructions on container label.
- ▲ Agricultural chemicals can be dangerous. Improper use can seriously injure persons, animals, plants, soil, and property.
- ▲ Inhaling smoke from any type of chemical fire can be a serious health hazard.
- ▲ Store or dispose of unused chemicals as specified by the chemical manufacturer.



Dig Safe - Avoid Underground Utilities

- ▲ **USA: Call 811**
CAN: digsafecanada.ca
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.





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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.

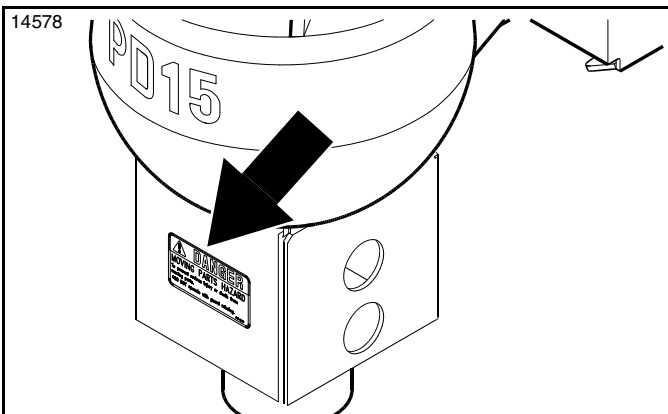
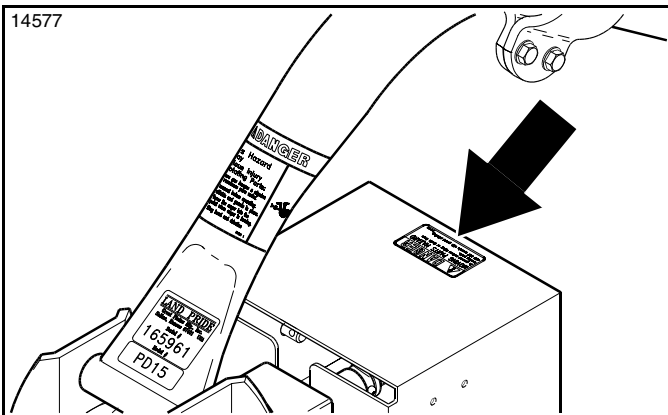
1. Keep all safety labels clean and legible.
2. Refer to this section for proper label placement. Replace all damaged or missing labels. Order new labels from your nearest Land Pride dealer. To find your nearest dealer, visit our dealer locator at www.landpride.com.
3. Some new equipment installed during 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 surface area where label is to be placed.
- b. Spray soapy water onto the cleaned area.
- c. Peel backing from label and press label firmly onto the surface.
- d. Squeeze out air bubbles with edge of a credit card or with a similar type of straight edge.

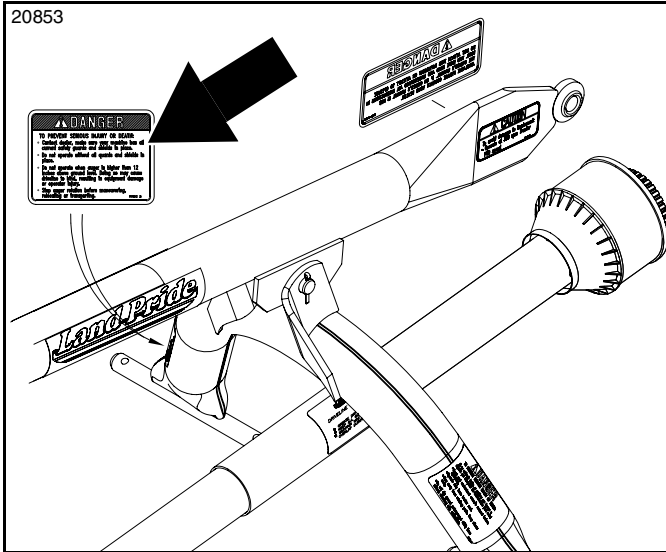


70642

818-522C (PD10, PD15, PD25 & PD35)

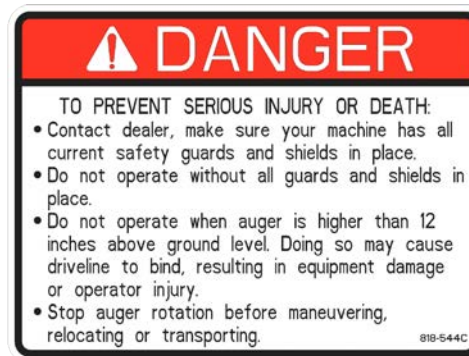
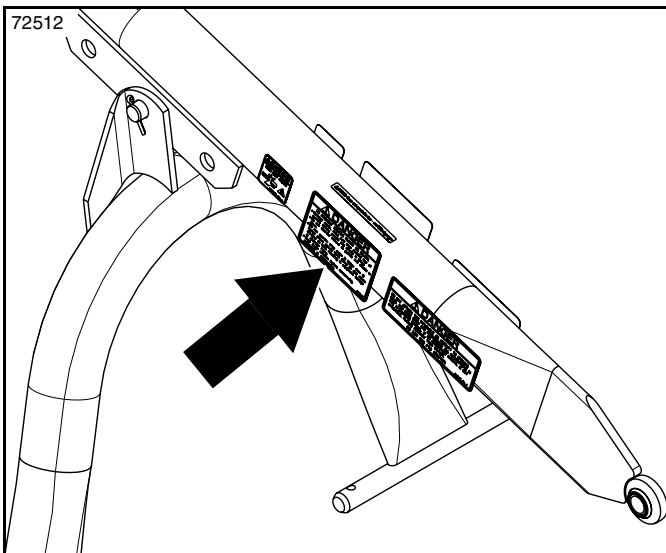
Danger: Moving Parts Hazard:

2 Places: On the driveline shield and on the auger shield



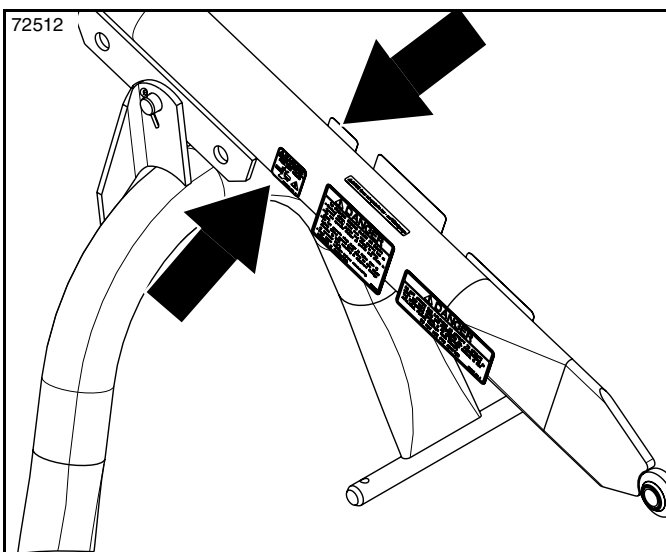
818-544C (PD10 Only)

Danger: Guard Missing and Rotating Parts Hazard
1 Place



818-544C (PD15, PD25, & PD35 Only)

Danger: Guard Missing and Rotating Parts Hazard
1 Place

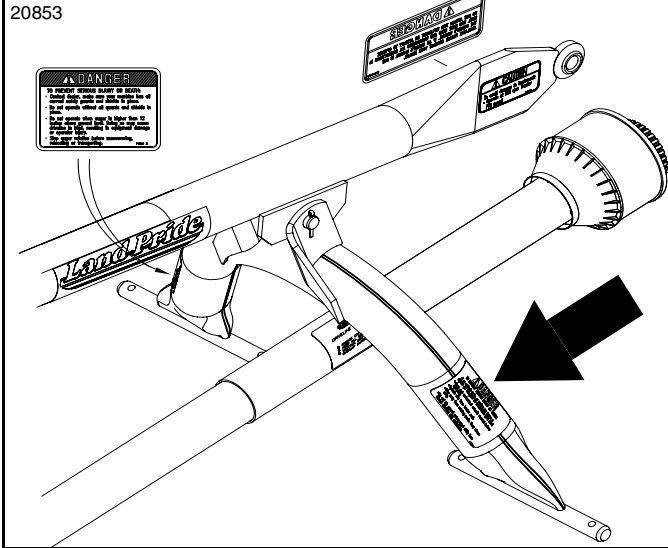


858-765C (PD10, PD15, PD25 & PD35)

Warning: Pinch Point Hazard
2 Places

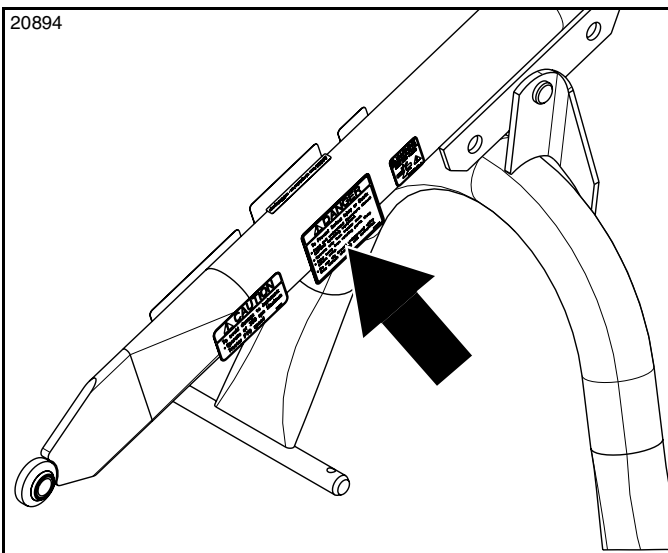
PD15 Shown

Important Safety Information



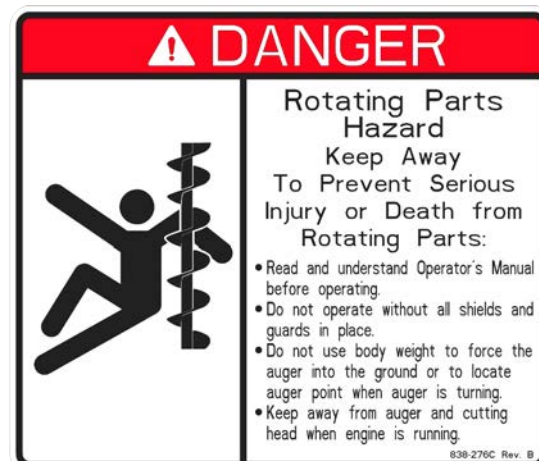
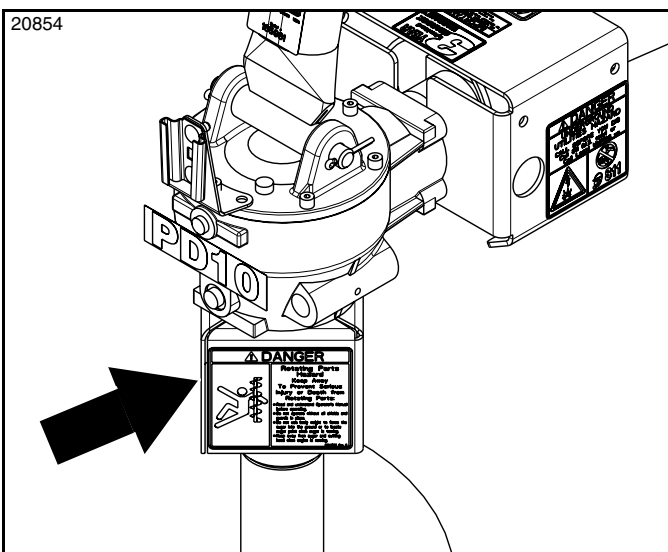
818-547C (PD10 Only)

Danger: Rotating Parts and Underground Hazard
1 Place



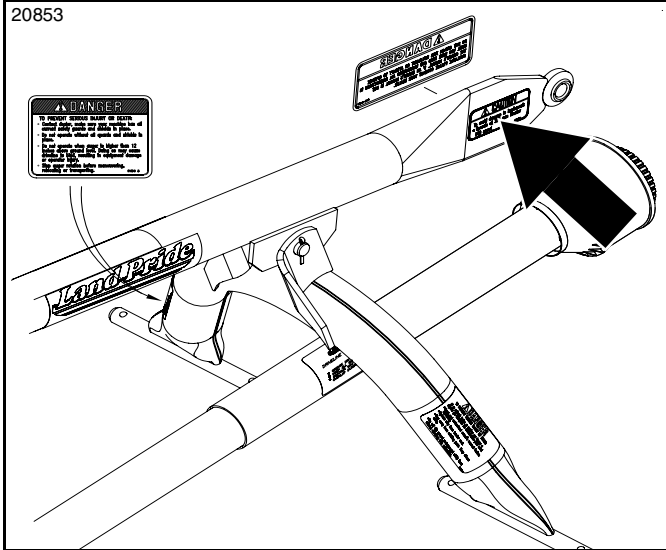
818-547C (PD15, PD25, & PD35 Only)

Danger: Rotating Parts and Underground Hazard
1 Place



838-276C (PD10 only)

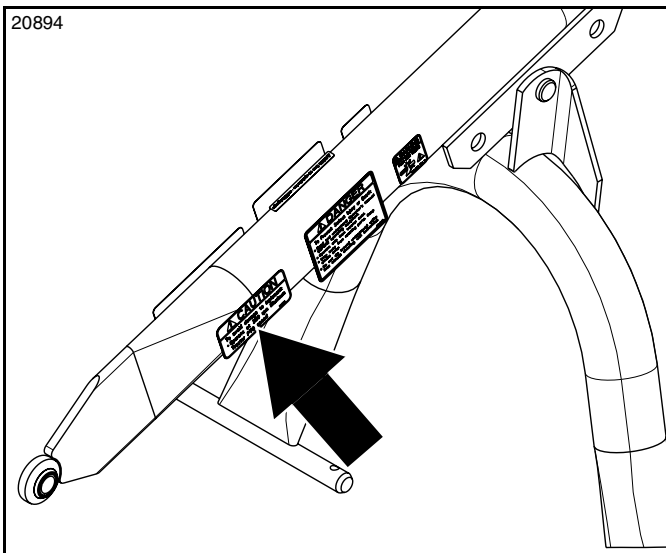
Danger: Rotating Parts Hazard
1 Place



70864

818-691C (PD10 Only)

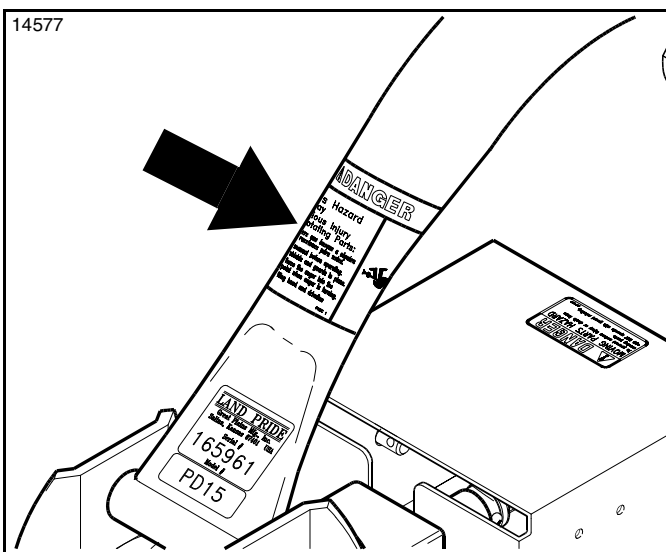
Warning: Power Take-Off Maximum RPM Hazard
1 Place



70864

818-691C (PD15, PD25, & PD35 Only)

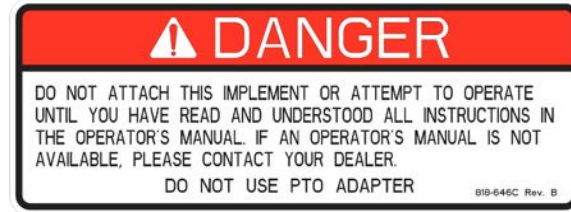
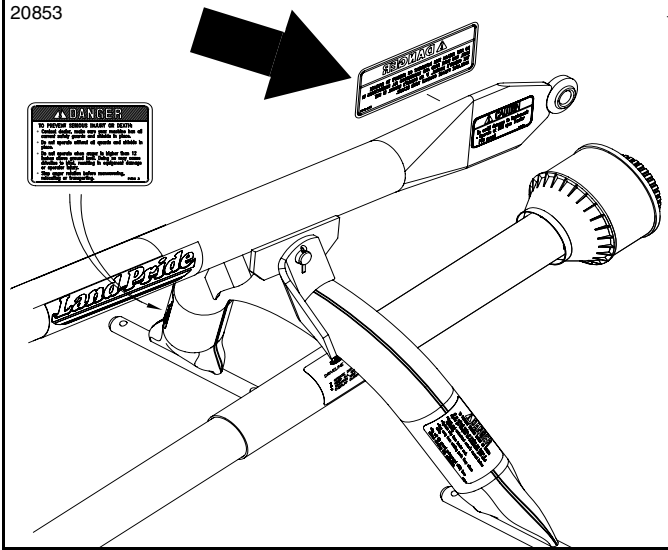
Danger: Warning: Caution:
1 Place



818-545C (PD15, PD25, & PD35 Only)

Danger: Rotating Parts Hazard
1 Place

Important Safety Information

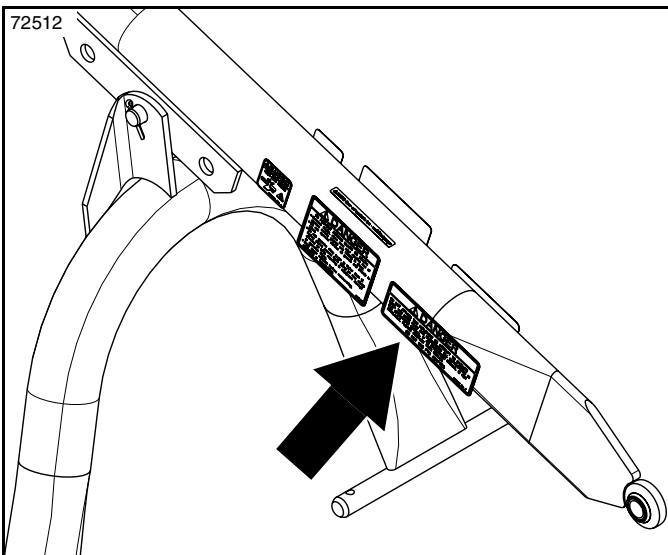


70862

818-646C (PD10 Only)

Danger: Read and Understand Operator's Manual and PTO Adapter Hazard

1 Place

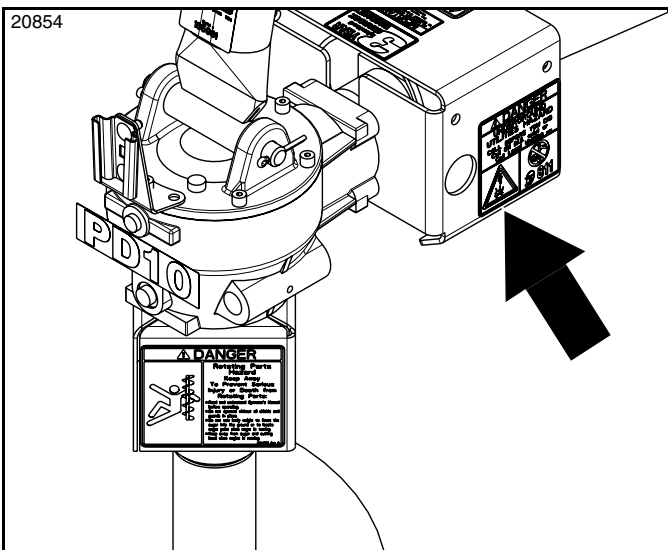


70862

818-646C (PD15, PD25, & PD35 Only)

Danger: Read and Understand Operator's Manual and PTO Adapter Hazard

1 Place

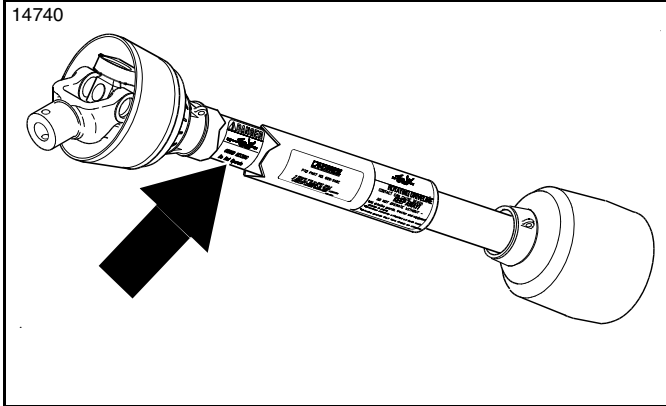


72928

844-194C (PD10, PD15, PD25 & PD35)

Danger: Underground Utilities Hazard

1 Place

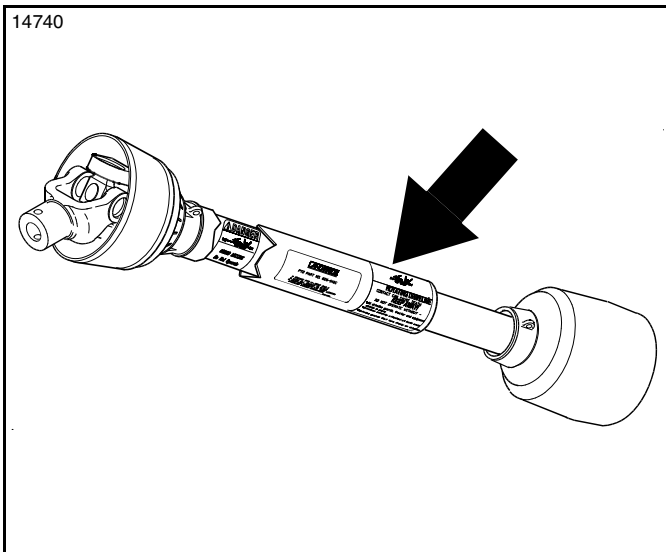


70374

818-540C (PD10, PD15, PD25 & PD35)

Danger: Guard Missing - DO NOT Operate

1 Place: On the inner driveline profile



70375

818-552C (PD10, PD15, PD25 & PD35)

Danger: Rotating Driveline - Keep Away

1 Place: On the outer driveline profile



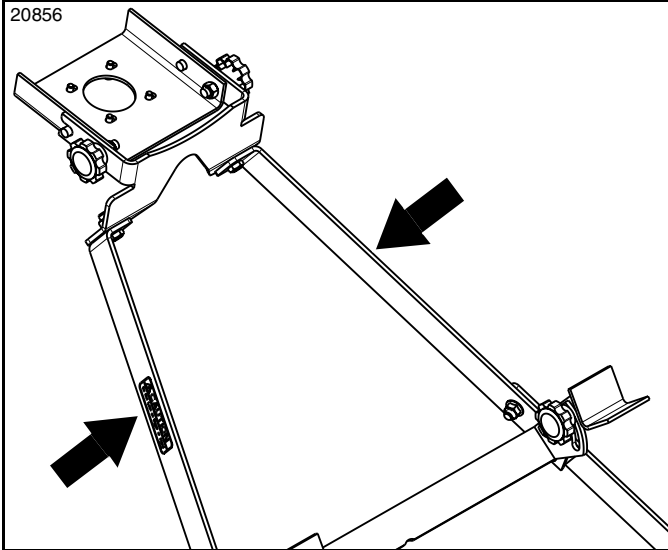
70245

838-094C (PD10, PD15, PD25 & PD35) Optional Down Pressure Kit

Warning: High Pressure Fluid Hazard

1 Place

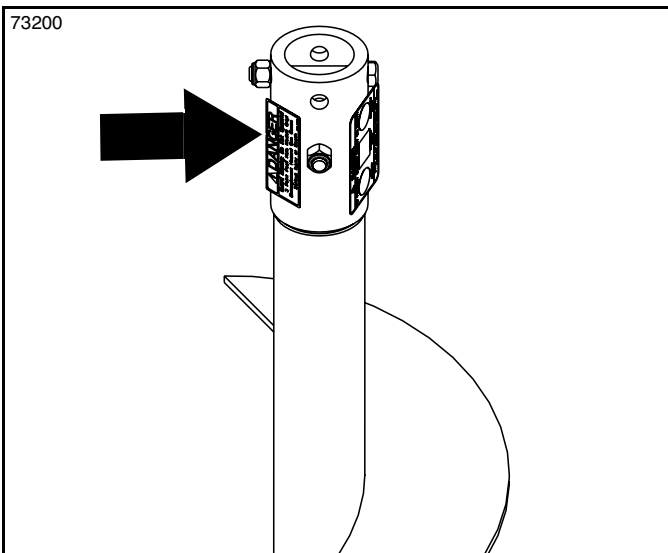
Important Safety Information



70248

838-298C

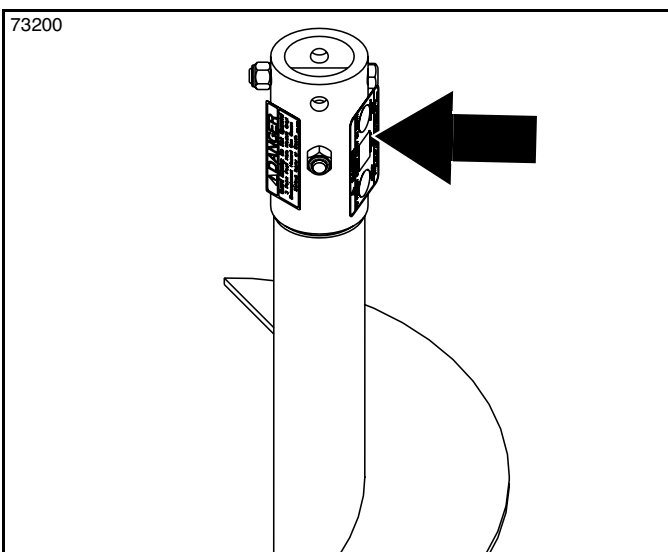
Caution: Leaning on Digger or Stand Hazard
2 Place: On both sides of the support stand



78227

844-398C

Danger: Guard Missing; 3-point mounted units only
1 Place: On all auger and extension options



70246

135500

Danger:
Dust Inhalation, Underground, & Entanglement Hazards
1 Place: On all auger options

Introduction

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 Post Hole Digger.

Application

Land Pride offers a complete line of three-point hitch mounted and power take-off driven Post Hole Diggers that are designed to meet a wide range of customer needs and applications. From 6" (15 cm) post holes to 24" (61 cm) tree balls, and from homeowner landscaping needs to large industrial projects, one of Land Pride's four models is just right for your application. Depending on your specific needs, our Pengo Brand Augers are offered semi-double and double flighting configuration.

The PD10 Series is just right for Category I three-point implement for 15 to 30 horsepower (11 to 22 kW) subcompact utility tractors. This unit offers a 30" (76 cm) auger length and choice of 6", 9", & 12" (15, 23, & 31 cm) auger flights with cast steel fishtail tips for quick piloting and faster hole starting. Homeowners, landscapers, and rental yards will find this unit very effective for occasional duty and for working and maneuvering in tight spots.

The PD15 Series is designed for Category I three-point implement for 20 to 40 horsepower (15 to 30 kW) compact utility tractors. The PD15 has a 48" (122 cm) auger length and choice of 6", 9", or 12" (15, 23, & 31 cm) auger flights with cast steel fishtail tips. Landscapers, rental yards, contractors, farmers, ranchers, and homeowners will find that the PD15 meets their general duty needs and applications.

The PD25 Series is designed for Category I or II three-point implement for 25 to 55 horsepower (19 to 41 kW) utility tractors. The PD25 has a 48" (122 cm) auger length and choice of 6", 9", 12", 15", 18", or 24" (15, 23, 31, 38, 46, & 61 cm) auger flights with cast steel fishtail tips. Nurseries, tree farms, landscapers, contractors, construction companies, farmers, ranchers, and municipalities will find the PD25 a good fit for their heavy-duty applications.

The PD35 is designed for Category 1 or 2 three-point implement to 30 -75 horsepower (22 to 56 kW) to tractors. This series offers a 48" (122 cm) auger length and choice of 9", 12", 15", 18", or 24" (23, 31, 38, 46, & 61 cm) auger flights with cast steel fishtail tips. The PD35 Series is designed to meet the industrial duty applications of landscapers, construction companies, nurseries, ranchers, and farmers.

No matter what your post hole digging needs are, Land Pride has a model to fit your needs and application.

See "**Specifications & Capacities**" on page 42 and "**Features & Benefits**" on page 44 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 the direction the operator faces while sitting in the operator's seat looking forward unless otherwise stated.

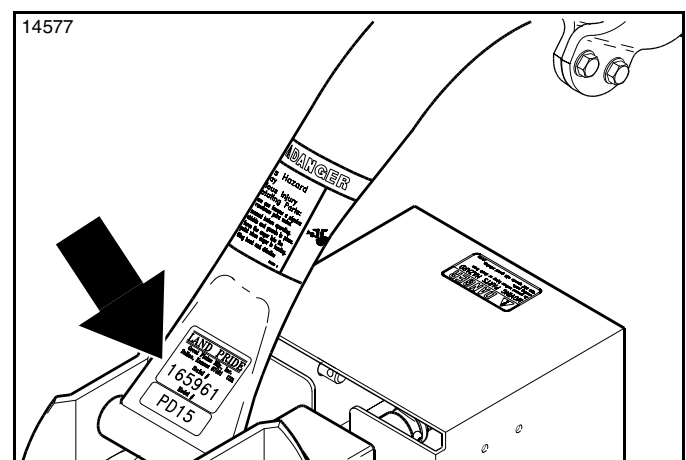
Owner Assistance

The dealer should complete the Online Warranty Registration 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 this implement.

Serial Number

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



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:

1. Discuss any problems you have with your implement with your dealership service personnel so they can address the problem.
2. If you are still not satisfied, seek out the owner or general manager of the dealership, explain the question/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
lp servicedept@landpride.com



Section 1: Assembly & Set-up

Tractor Requirements

Tractor horsepower should be within the range noted below. Tractors outside the horsepower range must not be used.

Horsepower Rating

Model PD10	15-30 hp (11-22 kW)
Model PD15	20-40 hp (15-30 kW)
Model PD25	25-55 hp (19-41 kW)
Model PD30	30-75 hp (22-56 kW)

3-Point Hitch Category

Model PD10 & PD15	Cat. I
Model PD25 & PD35	Cat I or Cat II

Tractor PTO540 rpm

Maximum power take-off speed300 rpm



WARNING

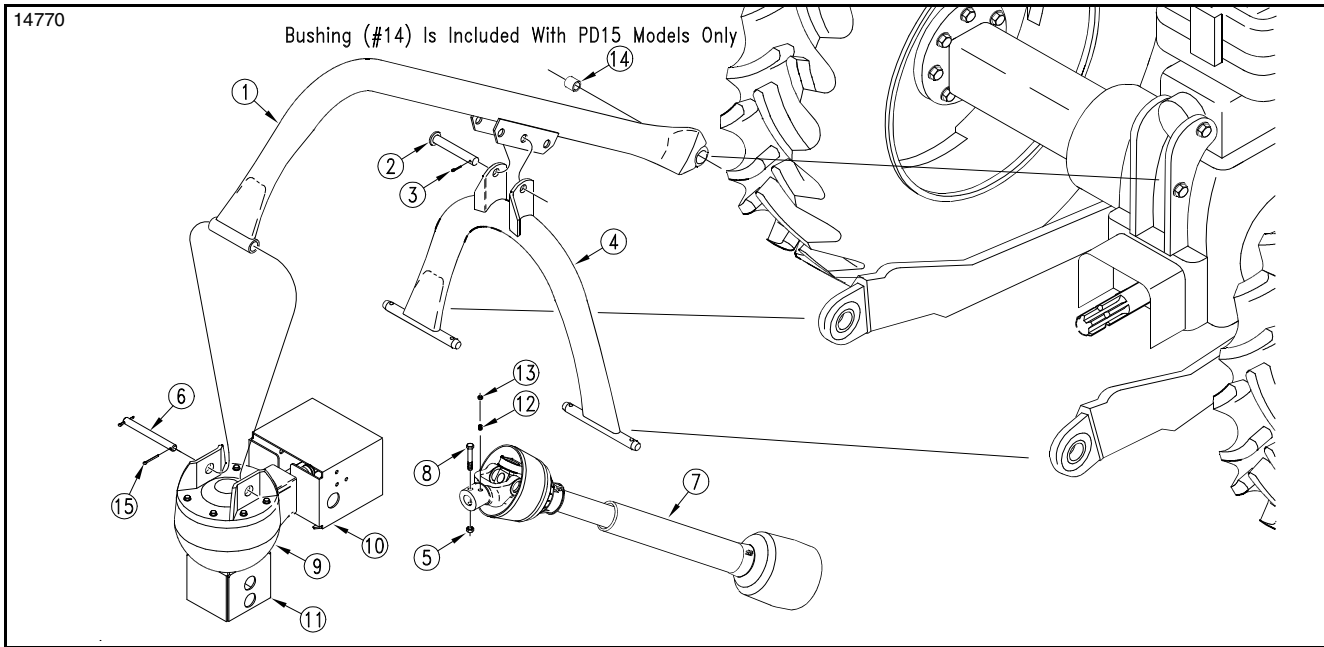
To avoid serious injury or death:

Lightweight tractors with rear attached implements may need weights added to the front to maintain steering control. Consult your tractor Operator's Manual to determine weight requirements and maximum limitations.

Tractor Shutdown Procedure

The following are basic tractor shutdown procedures. Follow these procedures and any additional shutdown procedures provided in your tractor Operator's Manual before leaving the operator's seat.

1. Reduce engine speed and disengage power take-off if engaged.
2. Park tractor and implement on level, solid ground.
3. Lower implement to ground or onto non-concrete support blocks.
4. Put tractor in park or set park brake, turn off engine, and remove switch key to prevent unauthorized starting.
5. Relieve all hydraulic pressure to auxiliary hydraulic lines.
6. Wait for all components to come to a complete stop before leaving the operator's seat.
7. Use steps, grab-handles and anti-slip surfaces when stepping on and off the tractor.



PD15 Series Frame Assembly
Figure 1-1

Frame Assembly

Refer to Figure 1-1:

DANGER

To avoid serious injury or death:

All guards and shields must be installed and in good working condition while operating the implement.

NOTE: Assembly is easier with the use of a tractor.

1. Remove the tractor top center 3-point link. Keep hitch pin and retaining pin for future use.

NOTE: PD15 Only: A 3/4" bushing (#14) is included with all PD15 Post Hole Diggers. Use this bushing when connecting digger boom (#1) to the tractor's top center link point with 3/4" hitch pin. Bushing is omitted in hook-up when using a 1" hitch pin.

2. Attach boom (#1) to the tractor's top center link hole using existing hitch pin and retaining pin.

NOTE: For narrow 3-point tractors, use the yoke's inner pins when connecting to PD10 & PD15 diggers.

3. Attach digger yoke (#4) to the tractor's lower 3-point lift arms with two 5/16" x 1 3/4" linchpins. (Linchpins supplied by customer.)
4. Connect sway bars or adjust sway links to retain digger side to side movement.
5. Rotate boom (#1) and yoke (#4) up until pin (#2) can be inserted into the middle hole under the boom.
6. Insert pivot pin (#2) and secure with cotter pin (#3). Bend one or more legs of cotter pin to retain pin.

7. The boom and yoke pivot connection may need readjusting to best suit your tractor configuration to get desired hole depth and auger transport clearance. Refer to "Post Hole Digging Depth" on page 21.
8. The gearbox and guard assemblies consists of items (#9, #10, & #11) which have been factory assembled.
9. Raise the tractor's lower 3-point arms until the end of boom is approximately 18" (46 cm) above ground.
10. Remove cotter pin (#15) and hanger pin (#6).
11. Align gearbox mounting holes with boom mounting hole and reinsert hanger pin (#6). Secure hanger pin with cotter pin (#15). Bend one or more legs of cotter pin to keep it from falling out.

IMPORTANT: Cab tractors: Glass can break if contacted by the post hole digger boom when lifting or transporting the unit, depending on the tractor and its three point hook-up geometry.

NOTE: It may be necessary to move center 3-point hitch pin to the top mounting hole on the tractor and/or adjust yoke and yoke pin to a mounting hole farther away from the tractor. Refer to "Check Post Hole Digger Clearance" on page 20.

12. The gearbox is shipped without gear lube. Refer to "Gear Lube Fluid Level" on page 41 for detailed instructions.

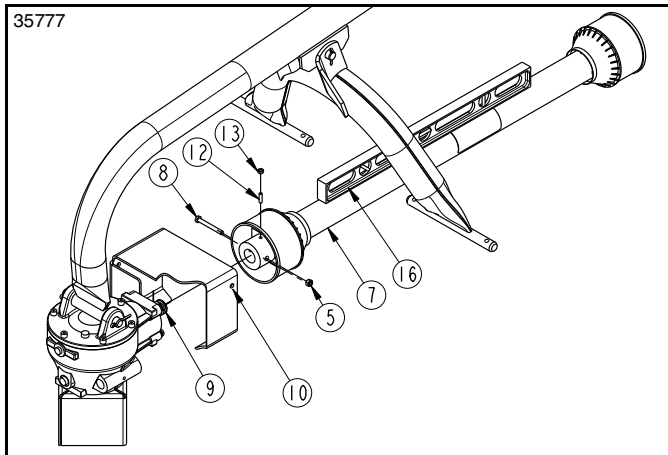
Section 1: Assembly & Set-up

Driveline Installation

Refer to Figure 1-2:

NOTE: The PD10 driveline require an M8 x 1.25 grade 8.8 shear-bolt and PD15, PD25 & PD35 drivelines require a 3/8"-16 grade 5 shear-bolt. Units with clutched drivelines (PD25 & PD35 only), require a 3/8"-16 grade 5 shear-bolt.

1. Before installing driveline, apply a liberal amount of all purpose grease to both the tractor power take-off shaft and gearbox input shaft to ease removal at a later time.



Driveline Hook-up To Gearbox Input Shaft
Figure 1-2

2. Attach inner driveline yoke to the digger gearbox shaft with correct shear bolt and nut (#8 & #5). Refer to “**Shear Bolt Replacement**” on page 38.

NOTE: The driveline requires the use of a retainer screw to prevent the driveline from coming off the gearbox in the event that the shearbolt is sheared.

3. Install driveline retainer set screw (#12). Turn screw all the way in. Back out no more than 1/8 turn. Secure with hex nut (#13).

Driveline Hook-up

Refer to Figure 1-1 on page 16:

DANGER

To avoid serious injury or death:

- Tractor power take-off shaft shield, driveline shields, and gearbox shaft shields must be installed and in good working condition to avoid driveline entanglement and projectiles flying off of the driveline.
- Do not engage power take-off while hooking-up or unhooking the driveline, or while someone is standing near the driveline. A person's body and/or clothing can become entangled in the driveline.
- Make certain driveline yokes are securely fastened at each end. A loose yoke can work free allowing the driveline to rotate uncontrollably.

- Do not use a power take-off adapter. The adapter will increase strain on the tractor's power take-off shaft causing possible damage to shaft and driveline. It will also defeat the purpose of the tractor's power take-off shield.

WARNING

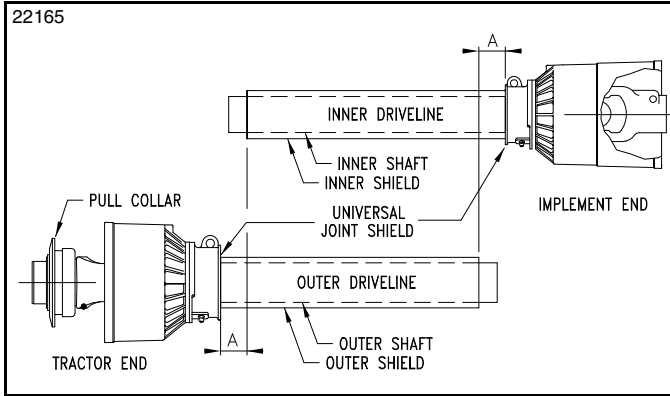
To avoid serious injury or death:

- Some tractors are equipped with two power take-off speeds. Do not exceed 300 rpm power take-off speed or equipment breakage may result.
- Check driveline when lowering implement to make sure it does not interfere with the tractor drawbar at maximum depth. If needed, shut tractor off and move or remove drawbar to prevent driveline damage.
- Always follow “Tractor Shutdown Procedure” provided in this manual before dismounting the tractor.
- Do not operate a broken or bent driveline. Such a driveline will break apart while rotating at high speeds. Always remove the implement from use until the damaged driveline can be repaired or replaced.

IMPORTANT: An additional driveline may be required if implement will be attached to more than one tractor.

IMPORTANT: Check driveline minimum collapsible length before completing “**Driveline Hook-up**”. Structural damage to the tractor and implement can occur if this check is not made. Refer to “**Check Driveline Collapsible Length**” on page 18.

1. If driveline collapsible length has not been checked, go to “**Check Driveline Collapsible Length**” on page 18. Otherwise, continue with step 2 below.
2. Park tractor and implement on a level surface.
3. Shut tractor down before dismounting. Refer to “**Tractor Shutdown Procedure**” on page 15.
4. If tractor drawbar interferes with the driveline during hook-up, disconnect driveline and move drawbar forward, to the side, or remove.
5. Pull back on driveline pull collar (See Figure 1-3 on page 18) and push yoke onto the tractor power take-off shaft. Release pull collar and continue to push driveline yoke forward until pull collar pops out and locks in place.
6. Pull on driveline yokes at the tractor and implement end to make sure they are secured to the tractor power take-off shaft and implement gearbox shaft.
7. The tractor's lower 3-point arms should be adjusted for lateral float. Please consult your tractor's manual.
8. Continue with “**Check Driveline Interference**” on page 19.



Driveline Shortening
Figure 1-3

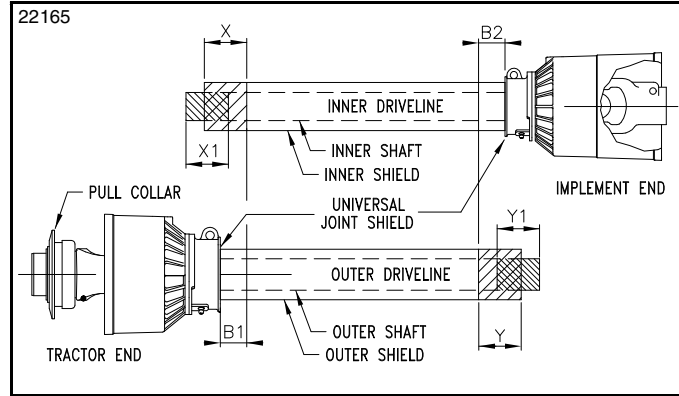
Check Driveline Collapsible Length

Refer to Figure 1-3:

IMPORTANT: A driveline that is too long can bottom out causing structural damage to the tractor and implement. Always check driveline minimum length during initial setup, when connecting to a different tractor, and when alternating between using a quick hitch and a standard 3-point hitch. More than one driveline may be required to fit all applications.

IMPORTANT: The power take-off shaft and gearbox input shaft must be aligned and level with each other when checking driveline minimum length. A driveline that is too long can damage tractor and implement.

1. With driveline attached only to the implement, remove outer driveline (tractor end) from inner driveline to separate the two profiles.
2. Park tractor and implement on a level surface.
3. Raise implement until the gearbox input shaft is level and in-line with the tractor's power take-off shaft.
4. Securely block implement at this height with solid, non-concrete supports to keep it from lowering.
5. With the implement resting on the support blocks, shut tractor down according to **"Tractor Shutdown Procedure"** on page 15.
6. Attach outer driveline to the tractor's power take-off shaft. Refer to steps 5-6 under **"Driveline Hook-up"** on page 17.
7. Hold inner and outer drivelines parallel to each other as shown and measure distance "A".
 - If "A" is less than 1" (2.5 cm), continue with step 8.
 - If "A" is greater than or equal to 1" (2.5 cm), skip to **"Check Driveline Maximum Length"** on page 19.

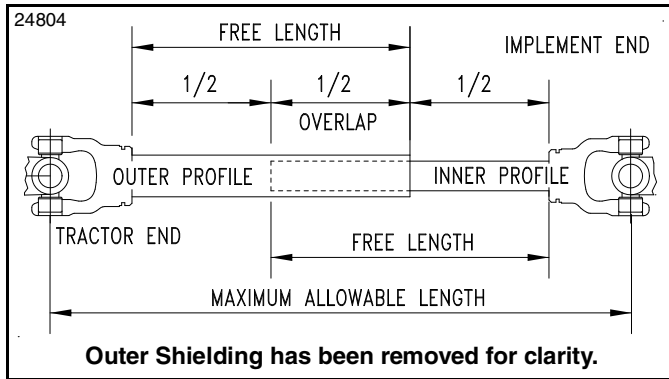


Driveline Shortening
Figure 1-4

Refer to Figure 1-4:

8. Shorten driveline as follows:
 - a. Measure 1" (2.5 cm) ("**B1**" dimension) back from outer driveline shield and make a mark at this location on the inner driveline shield.
 - b. Measure 1" (2.5 cm) ("**B2**" dimension) back from the inner driveline shield and make a mark at this location on the outer driveline shield.
9. Remove outer driveline from the tractor power take-off shaft and inner driveline from the implement's gearbox shaft.
10. Cut off non-yoke end of inner driveline as follows:
 - a. Measure from end of inner shield to scribed mark ("**X**" dimension) and record.
 - b. Cut off inner shield at the mark. Cut same amount off the inner shaft ("**X1**" dimension).
11. Cut off non-yoke end of outer driveline as follows:
 - a. Measure from end of outer shield to scribed mark ("**Y**" dimension) and record.
 - b. Cut off outer shield at the mark. Cut same amount off the outer shaft ("**Y1**" dimension).
12. Remove all burrs and cuttings.
13. Continue with **"Check Driveline Maximum Length"** on page 19.

Section 1: Assembly & Set-up



Driveline Maximum Extended Length

Figure 1-5

Check Driveline Maximum Length

Refer to Figure 1-5:

The driveline maximum allowable length must, when fully extended, have a minimum overlap of profile tubes by not less than 1/2 the free length with both inner and outer profile tubes being of equal length.

1. Make sure “**Check Driveline Collapsible Length**” on page 18 has been completed.
2. If attached, unhook the driveline from the tractor and implement.
3. If assembled, pull outer and inner driveline profiles apart.
4. Apply multi-purpose grease to the inside of the outer shaft and reassemble the driveline.
5. Assemble the two driveline profiles together with just 1/2 overlapping of the profile tubes as shown.
6. Measure driveline “Maximum Allowable Length” and record that length here _____.

NOTE: The recorded maximum allowable length will be verified while checking driveline interference.

IMPORTANT: The driveline must be lubricated before putting it into service.

7. Lubricate driveline u-joints, bearings, and profiles. Refer to “**Lubrication Points**” on page 40.
8. Attach driveline to the implement. Refer to “**Driveline Installation**” on page 17.
9. Without removing the support blocks, continue with “**Driveline Hook-up**” on page 17.

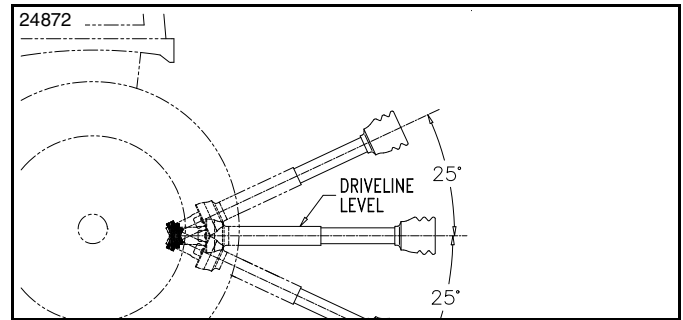
Check Driveline Interference

Refer to Figure 1-6:

**WARNING**

To avoid serious injury or death:

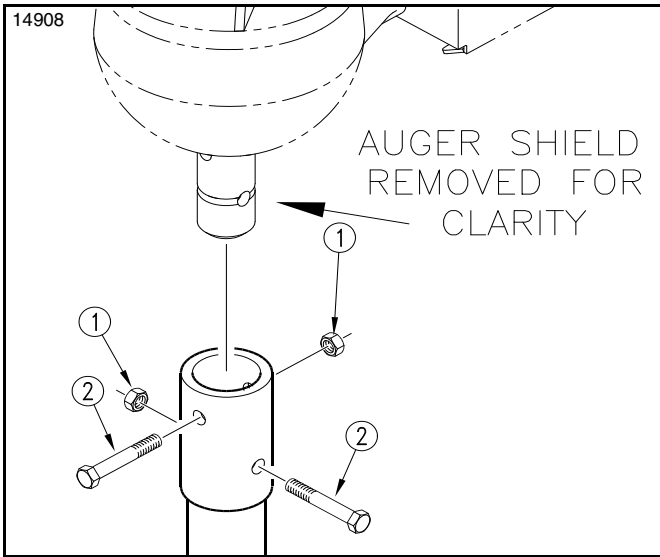
A rotating driveline must not exceed an angle of 25 degrees up or down, and never engage a driveline while at an angle exceeding 25 degrees up or down. The driveline can break and send flying projectiles.



Maximum Driveline Movement During Operation

Figure 1-6

1. Start tractor and raise implement slightly off the support blocks used to “**Check Driveline Collapsible Length**”. Drive forward until the implement is clear of the support blocks.
2. Slowly and carefully lower and raise the implement to ensure drawbar, tires, and other equipment on the tractor do not contact the implement. If there is an interference:
 - a. Back implement over the support blocks and lower it onto the blocks.
 - b. Shut tractor down before dismounting. Refer to “**Tractor Shutdown Procedure**” on page 15
 - c. Move or remove drawbar if it interferes with the implement and make any other necessary corrections.
 - d. Repeat steps 1-2 to verify the implement does not interfere with the tractor.
3. Start tractor, raise implement fully up. Back implement over the support blocks. Do not lower implement onto the support blocks.
4. Without changing the 3-point lift height, shut tractor down according to “**Tractor Shutdown Procedure**”.
5. Check to make sure driveline does not exceed any of the limits listed below:
 - Driveline does not maximum length recorded in step 5, under “**Check Driveline Maximum Length**” on this page.
 - Driveline angle does not exceed 25° above horizontal.
6. If driveline exceeds maximum allowable length or 25 degrees up:
 - a. Adjust tractor 3-point lift limiter to the height that will keep the driveline within the recommended limits.
 - b. If the 3-point left lever does not have a lift height limiter, make a mark with tape or other means to indicate maximum lift height.
7. Start tractor, raise implement slightly, and drive forward enough to clear the support blocks.
8. Lower implement to ground and shut tractor down using “**Tractor Shutdown Procedure**” on page 15.



Auger Installation
Figure 1-7

Auger Installation

Refer to Figure 1-7:

! DANGER

To avoid serious injury or death:

Keep others away from the post hole digger while the auger is rotating. A person can become entangled in the auger or hit by the auger if it swings erratically. Anyone helping should be kept a safe distance (a minimum of 10 feet or 3 meters) from the unit while it is rotating.

! WARNING

To avoid serious injury or death:

Do not install a bolt that is longer than what was originally supplied with the auger. Protruding hardware is more likely to entangle a bystander by catching on loose clothing.

1. Slide auger tube over gearbox output shaft until mounting holes are in alignment.
2. Insert bolts (#2) and secure with Locknuts (#1). Torque locknuts to the proper torque.

Check Post Hole Digger Clearance

Refer to Figure 2-1 on page 21:

IMPORTANT: Cab tractors: Glass can break if contacted by the post hole digger boom when lifting or transporting the unit, depending on the tractor and its three point hook-up geometry.

IMPORTANT: Adjusting boom lift clearance and auger digging depth may require a compromise between limiting auger lift height and the ability to lift auger above the post hole dirt mound. Customer should adjust lift height to suit while making sure the Post Hole Digger does not cause damage to the tractor and/or tractor cab.

IMPORTANT: Digger frame may bounce up when transporting. Make sure lift height is not set too high.

It is important to check clearance between tractor/cab and Post Hole Digger before operating the unit.

1. Visually inspect hydraulic hoses to make sure they are long enough and won't become pinched or entangled in the equipment. Make hose adjustments before ever starting the machine.
2. Close tractor rear cabin window.
3. Start tractor and slowly raise the Post Hole Digger while watching to make sure boom (#5) does not interfere with tractor/cab. If necessary, have a second person watch for interference. If there is no interference, go to step 12. Otherwise, continue with step 4.
4. If there is an interference, lower digger to the ground and shut tractor down following "**Tractor Shutdown Procedure**" on page 15.
5. Move boom (#5) and 3-point center hitch pin (#6) up to the tractor's top 3-point center hitch pin hole.
6. Start tractor and slowly raise the Post Hole Digger while watching to make sure boom (#5) does not interfere with tractor/cab. If necessary, have a second person watch for the interference. If there is no interference, go to step 12. If the unit is the PD10 model, go to step 11. For all other models, continue with step 7.
7. If there still is an interference, lower digger to ground and shut tractor down following "**Tractor Shutdown Procedure**" on page 15.
8. Adjust yoke (#4) and pivot pin (#1) to a new hole on boom (#5) that is farther away from the tractor. For detailed instructions, refer to "**Post Hole Digging Depth**" on page 21.
9. Start tractor and slowly raise the Post Hole Digger while watching to make sure boom (#5) does not interfere with tractor/cab. If necessary, have a second person watch for interference. If there is no interference, go to step 12. Otherwise, continue with step 10.
10. If there still is an interference and yoke (#4) can still be adjusted to a new hole farther away, then repeat steps 7-10. Otherwise, continue with step 11.
11. Adjust tractor up-stop on 3-point lift lever or mark maximum up-lift point on 3-point lift lever to prevent boom (#5) from raising too high.
12. Start tractor and raise the Post Hole Digger fully up or raise digger to the adjusted up-stop location.
13. Open rear cab window to check for clearance.
14. If rear cab window interferes with boom (#5), keep rear cab window closed or adjust tractor up-stop on 3-point lift lever to keep boom from damaging the window while open.
15. Shut tractor down following "**Tractor Shutdown Procedure**" on page 15.

Section 2: Adjustments

Post Hole Digging Depth

(For PD15, PD25, & PD35 Series only)



WARNING

To avoid serious injury or death:

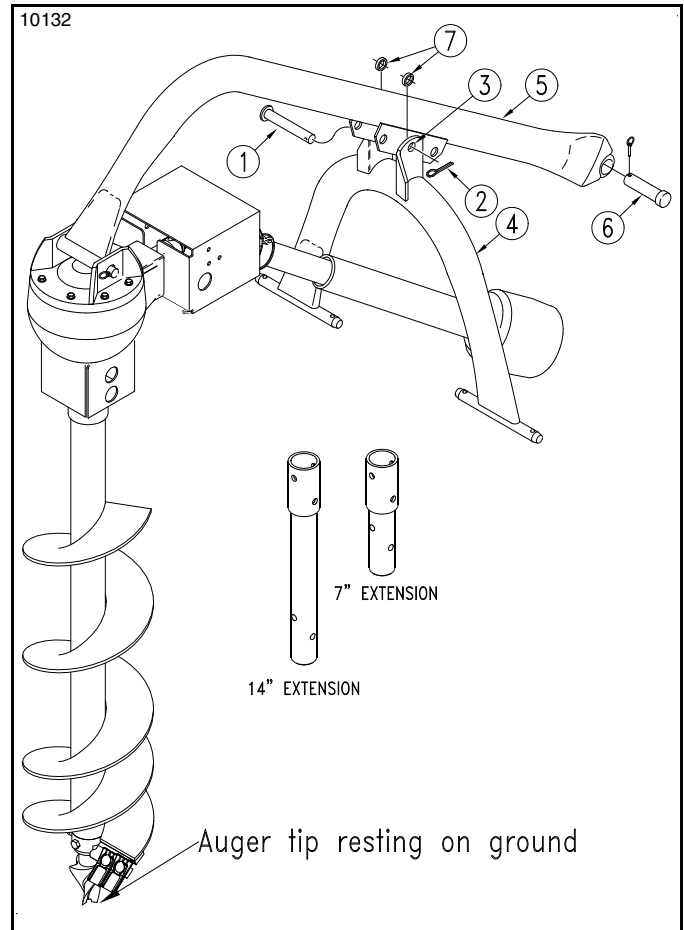
Always follow “Tractor Shutdown Procedure” provided in this manual before dismantling the tractor.

IMPORTANT: Cab tractors: Glass can break if contacted by the post hole digger boom when lifting or transporting the unit, depending on the tractor and its three point hook-up geometry.

NOTE: To help avoid glass breakage and increase hole depth, adjust yoke (4) and yoke pin (#1) to a mounting hole farther away from the tractor and/or move center three point hitch pin (#6) to the top mounting hole on the tractor.

Refer to Figure 2-1:

1. With auger attached to the gearbox shaft, lower 3-point so that the auger tip is resting on the ground.
2. While supporting yoke tube (#4), remove pivot pin (#1) at boom and yoke tube connection (#3). If included, be careful not to lose spacers (#7) between boom and yoke.
3. Reposition boom and yoke tube connection (#3) to best suit type of tractor this unit is mounted to that will achieve a hole depth of 40" (102 cm)
4. Reinstall pivot pin (#1) and if included, bushings (#7). Secure pivot pin with cotter pin (#2). Bend one or more legs of cotter pin to keep cotter pin from falling out. If pivot pin (#1) is moved closer to the tractor, recheck digger clearance. Refer to “**Check Post Hole Digger Clearance**” on page 20.
5. If desired hole depth cannot be achieved, an auger extension shaft may be needed, (extension shafts are sold as an accessory).
6. If Land Pride’s Down Pressure Kit is in use and the boom and yoke tube connection has been changed, the Down Pressure Kit will also need to be reset. See “**Adjust Down Pressure Kit**” on page 33 of this manual.



**Depth Adjustment
Figure 2-1**



Section 3: Operating Instructions

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 blade. Therefore, it is absolutely essential that no one operates the Post Hole Digger unless they have read, fully understood, and are totally familiar with the Operator's Manual.

Perform the following inspections before using your Post Hole Digger.

Operating Checklist

✓	Check	Page
	Read and follow all safety rules carefully. Refer to "Important Safety Information".	1
	Make sure all guards and shields are in place. Refer to "Important Safety Information".	1
	Read and follow assembly and hook-up instructions. Refer to "Section 1: Assembly & Set-up".	15
	Read and make all required adjustments. Refer to "Section 2: Adjustments".	21
	Read and follow all operating procedures. Refer to "Section 3: Operating Instructions".	22
	Read and follow all maintenance instructions. Refer to "Section 5: Maintenance & Lubrication".	37
	Read and follow all Lubrication Instructions. Refer to "Lubrication Points".	40
	Make sure all gearboxes are properly lubricated. Refer to Gearbox lubrication.	41
	Check digger initially and periodically for loose bolts and pins. Refer to "Torque Values Chart".	47

General Safety Information

DANGER

To avoid serious injury or death:

- Make sure the site is free from hazards before drilling. Look for obstacles on the ground, beneath mulching, and below the ground that may need to be removed such as landscape fabric, wire, etc. Hand digging may be necessary to verify the presence of underground materials.
- Do not drill through landscape fabric. Prior to drilling, cut a hole in the fabric sufficiently larger than the diameter of the auger to prevent auger entanglement with the fabric. Fabric caught in the auger can pull a bystander into the auger.
- Keep others away from the post hole digger while the auger is rotating. A person can become entangled in the auger or hit by the auger if it swings erratically. Anyone helping should be kept a safe distance (a minimum of 10 feet or 3 meters) from the unit while it is rotating.
- Keep bystanders 10 ft (3 meters) or more away from the auger while operating the power machine. A person can become entangled in the auger, electrocuted if auger encounters an underground electrical line, and/or inhale harmful dust particles such as silica dust.

- A crushing hazard exists while hooking-up and unhooking the implement. Keep people and animals away while backing-up to the implement or pulling away from the implement. Do not operate hydraulic controls while a person or animal is directly behind the power machine or near the implement.
- Do not remove spoil-pile with hand tools while auger is operating. The person can become entangled in the auger or hurt by tools that become entangled in the auger.
- Do not allow anyone to manually guide the auger into position while the auger is rotating. A person will become entangled in the auger or hit by the auger.
- Tractor power take-off shaft shield, driveline shields, and gearbox shaft shields must be installed and in good working condition to avoid driveline entanglement and projectiles flying off of the driveline.
- Keep all persons away from the post hole digger while lowering and raising the unit. A person can be hit, pinched, or crushed by the unit.
- Do not allow anyone to manually push down on the post hole digger, or put anything or anyone on the unit for the purpose of adding weight to the unit. Objects and people can be thrown, pinched, or entangled in the unit.
- Do not use a power take-off adapter. The adapter will increase strain on the tractor's power take-off shaft causing possible damage to shaft and driveline. It will also defeat the purpose of the tractor's power take-off shield.

WARNING

To avoid serious injury or death:

- Allow only persons to operate this implement who have fully read and comprehended this manual, and who have been properly trained in the safe operation of this implement. Serious injury or death can result from the inability to read, understand, and follow instructions provided in this manual.
- Never carry riders on the implement or tractor. Riders can obstruct the operator's view, interfere with controls, be pinched by moving components, become entangled in rotating components, struck by objects, thrown about, fall off and be run over, etc.
- Make sure the implement does not block the tractor's Slow Moving (SMV) sign when transporting on a public road. If operators in vehicles approaching from the back cannot easily see the sign, then move it on the tractor to where it is visible to warn of your presence.
- Never work near utilities such as gas lines, electrical lines, or other hazards that can cause serious injury or death from electrocution, explosion, or fire.
- Never make contact with underground utilities such as electrical power lines, gas lines, phone lines, etc. They can cause serious injury or death from electrocution, explosion, or fire. Always call 811 (USA) before digging so that they can mark the location of underground services in the area. For contact information, see Dig Safe in the "Important Safety Information" starting on page 1.

Section 3: Operating Instructions

- *Avoid exposure to dust containing crystalline silica particles. This dust can cause serious injury to the lungs (silicosis). Because crystalline silica is a basic component of sand and granite, many activities at construction sites produce dust containing crystalline silica. Trenching, sawing, and boring of material containing crystalline silica can produce dust containing crystalline silica.*
- *Keep post hole digger properly attached to the tractor when in use.*
- *Always travel with adequate clearance between ground and auger. Hitting an object while traveling can damage equipment and cause the operator to lose control.*
- *Do not operate and/or travel across inclines where the tractor and/or implement can rollover. Consult your tractor's manual for acceptable inclines the tractor is capable of traveling across.*
- *Do not use implement to lift objects; to pull objects such as fence posts, stumps, etc; or to push objects. The unit is not designed or guarded for these uses.*
- *When traveling on public roads, use LED lights, slow moving vehicle sign, clean reflectors, and other adequate devices to warn operators in other vehicles of your presence. If implement blocks visibility of slow moving vehicle sign, relocate sign so it is visible from the back at all times. Always comply with all federal, state, and local laws.*
- *Make sure safety labels are in their proper location and are in good condition before operating the attached implement. Read and obey all instructions on the labels.*
- *Do not operate driveline over 300 rpm or damage to the post hole digger could result.*
- *Do not operate auger over 110 rpm or damage to the post hole digger could result.*
- *Do not operate 3-point mounted post hole digger with auger more than 12" (30 cm) above ground level or the driveline may bind causing injury to the operator and damage to the implement.*
- *Protect freshly dug holes immediately after digging by filling it with a post, covering the hole with a cover capable of supporting a person, or place a physical boundary around the hole to stop entry into the area.*
- *Do not use post hole digger to wrap wire or any other items. Doing so can result in bodily injury and/or damage to the equipment.*

CAUTION

To avoid minor or moderate injury: Auger tip gets hot after digging. Allow time for the tip to cool before touching or servicing the tip.

IMPORTANT: When needed, tether auger with a chain to stop it from swinging while transporting.

Transport With Post Hole Digger

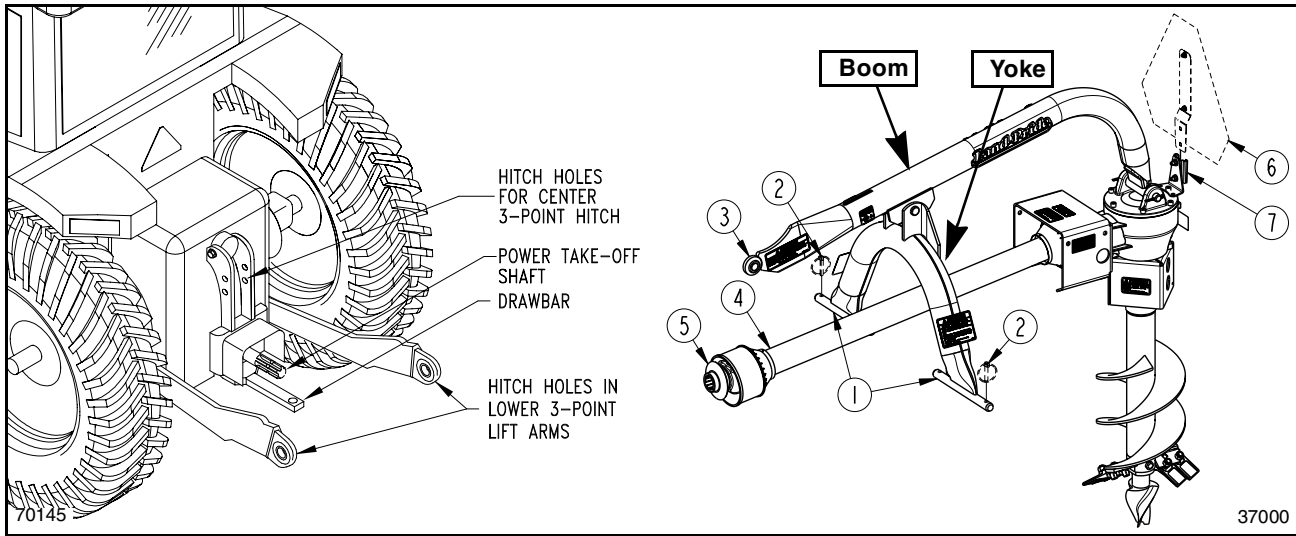
WARNING

To avoid serious injury or death:

- *When traveling on public roadways, travel in such a way that faster moving vehicles may pass safely. Use accessory lights, clean reflectors, and a slow moving vehicle sign that is visible from the back to warn operators in other vehicles of your presence. Always comply with all federal, state, and local laws.*
- *Make sure the implement does not block the tractor's Slow Moving (SMV) sign when transporting on a public road. If operators in vehicles approaching from the back cannot easily see the sign, then move it on the tractor to where it is visible to warn of your presence.*
- *Slow down when traveling over rough or hilly terrain that can cause equipment to bounce, or to hit obstacles that are close by. Either situation can cause damage and/or the operator to lose control.*
- *Cross ditches and enter inclines slowly and carefully. The auger can come in contact with the ground causing damage to the equipment and operator to lose control.*

IMPORTANT: The Slow Moving Vehicle sign should not be used when transporting equipment on a truck or trailer that exceeds speeds of 25 mph. Cover or remove the sign on equipment being hauled.

1. Select a safe ground travel speed when transporting from one area to another.
2. Transport Post Hole Digger low to the ground to maintain stability but at a height that does not block your view.
3. Enter ditches and inclines slowly to make sure the auger does not dig into the ground. Stop and raise auger if needed to cross a ditch or start up an incline.
4. Reduce ground speed when turning. Leave enough room to clear obstacles such as buildings, trees, and fences.
5. When traveling on roadways, transport in such a way that faster moving vehicles may pass you safely.
6. Reduce transport speed when traveling over rough or hilly terrain.



Tractor 3-Point Hitch
Figure 3-2

Hook-up 3-Point

DANGER

To avoid serious injury or death:

A crushing hazard exists while hooking-up and unhooking the implement. Keep people and animals away while backing-up to the implement or pulling away from the implement. Do not operate hydraulic controls while a person or animal is directly behind the power machine or near the implement.

WARNING

To avoid serious injury or death:

Always shut tractor down according to "Tractor Shutdown Procedure" provided in this manual before allowing anyone including the operator to hook up or unhook the implement.

IMPORTANT: Cab tractors: Glass can break if contacted by the post hole digger boom when lifting or transporting the unit, depending on the tractor and its three point hook-up geometry.

NOTE: It may be necessary to move center 3-point hitch pin to the top mounting hole on the tractor and/or adjust yoke and yoke pin to a mounting hole farther away from the tractor. Refer to "**Check Post Hole Digger Clearance**" on page 20.

Refer to Figure 3-2:

1. Ensure lower arms are stabilized to prevent excessive side movement.
2. Slowly back tractor to the Post Hole Digger while using 3-point hydraulic control to align hitch holes in 3-point lift arms with hitch pins (#1) on yoke.
3. Place gear selector in park or neutral and set park brakes. Shut tractor engine off and remove switch key before dismounting from the tractor.
4. Slide hitch holes in lift arms onto hitch pins (#1).

NOTE: For narrow 3-point tractors, use yoke's inner hitch pins when connecting to PD10 & PD15 diggers.

5. Insert linchpins (#2) in lower 3-point arms. Secure linchpins by rotating snap rings down. (Customer to supply linchpins.)
6. Attach boom hitch hole (#3) to the tractor's center 3-point hitch holes with clevis pin and clevis pin keeper. (Customer to supply clevis pin and clevis pin keeper.)

Hook-up Driveline

1. Pull back on the pull collar (#5) and hold while starting to slide the universal joint onto the tractor power take-off shaft.
2. Once on power take-off shaft, release pull collar and continue to slide universal joint on until pull collar releases and universal joint is locked to the power take-off shaft.
3. Push and pull on driveline yoke to make certain the yoke is securely fastened to the tractor's power take-off shaft.

Refer to Figure 3-3 on page 25:

4. If the Post Hole Digger is supported with Land Pride's storage stand (#6), start tractor and raise auger tip off the ground 2"-3" (5-8 cm).
5. Remove knobs (#8) and storage stand (#6).
6. Screw knobs (#8) back into cradle (#5) and tighten.

NOTE: If knobs (#8) are not properly tightened, they may work loose and become lost. If preferred, knobs can be secured with jam nuts or stored with storage stand. (Jam nuts to be supplied by customer.)

7. Store stand in an area where it can be easily seen and not ran over. Inside storage is best.

Section 3: Operating Instructions

Slow Moving Vehicle Sign

Refer to Figure 3-2:

1. Relocate slow moving sign (#6) from the back of the tractor to mounting bracket (#7).
2. If needed, a slow moving vehicle sign can be purchased from your nearest Land Pride dealer. Refer to “**Slow Moving Vehicle Sign (Accessory)**” on page 36.

Unhook Post Hole Digger

Refer to Figure 3-2:

NOTE: It is easier to hook-up and unhook the Post Hole Digger if it is supported upright. Land pride offers an accessory storage stand to assist storing, hook-up, and unhooking the Post Hole Digger. Refer to “**Storage Stands (Accessory)**” on page 34.

1. If using Land Pride’s Storage Stand, skip to “**Unhook Post Hole Digger with Storage Stand**” on page 25. If not, continue with step 2 on page 25.
2. Lower auger tip to the ground. Shut tractor engine off and remove key before dismounting from the tractor.
3. Lower auger tip onto level hard ground. Place tractor in park or neutral and set park brakes. Turn tractor engine off, and remove switch key before dismounting from the tractor.
4. Always chock tractor wheels for an extra measure of safety should the tractor be parked on a gentle slope.
5. Make sure the Post Hole Digger is secured with solid supports and bracing so that it cannot fall over while unhooking the unit.
6. Pull back on driveline pull collar (#5) and hold while pulling driveline yoke from the tractor power take-off shaft.
7. Store yoke end of driveline off the ground to keep the universal joint and pull collar out of the dirt.
8. Unhook boom from the tractor’s 3-point center hitch. Keep hitch pin and retaining pin for reuse.
9. Pull lower 3-point linchpins (#2) and pull 3-point lift arms off of yoke hitch pins (#1). Lower yoke and boom onto the ground or onto stable support blocks. Keep linchpins for reuse.
10. Once the Post Hole Digger is disconnected and 3-point lift arms are clear, drive tractor away being careful not to catch on the Post Hole Digger.

Unhook Post Hole Digger with Storage Stand

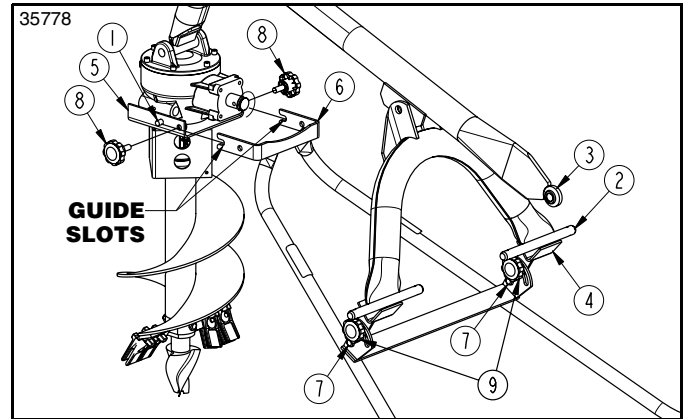
Refer to Figure 3-3:



WARNING

To avoid serious injury or death:

Do not disconnect post hole digger from the tractor on a steep slope. Injury to personnel and implement may result.



Unhook Post Hole Digger With Storage Stand
Figure 3-3

1. Lower auger tip onto level, hard ground. Place tractor in park or neutral and set park brakes. Turn tractor engine off, and remove switch key before dismounting from the tractor.
2. Always chock tractor wheels for an extra measure of safety should the tractor be parked on a gentle slope.
3. Attach storage stand (#6) to cradle (#5). Make certain guide slots at end of storage stand (#6) are securely positioned over cradle pins (#1).
4. Secure storage stand (#6) to cradle (#5) with knobs (#8). Screw knobs on tight.

Refer to Figure 3-2 on page 24:

5. Pull back on driveline pull collar (#5) and hold while pulling driveline yoke from the power take-off shaft.
6. Store yoke end of driveline (#4) off the ground to keep universal joint and pull collar out of the dirt.
7. Unhook the boom (#3) from the tractor’s 3-point center hitch holes. Keep hitch pin and retaining pin for reuse.

Refer to Figure 3-3:

NOTE: There may be some lowering and lifting of 3-point lift arms to properly position hitch pins (#2) in storage brackets (#4). Also, storage brackets may need to be raised, lowered, or flipped around to properly align with hitch pins (#2).

8. Without starting the tractor, lower yoke hitch pins (#2) into support angles (#5) as follows:
 - a. Loosen knobs (#9) and adjust support angles (#4) to align with yoke hitch pins (#2).
 - b. Tighten knobs (#9).
 - c. Lowering 3-point arms until yoke hitch pins (#2) are supported in storage angle brackets (#4).
9. Pull lower 3-point linchpins and 3-point lift arms from yoke hitch pins (#2). Keep linchpins for reuse.
10. Once the Post Hole Digger is disconnected and 3-point lift arms are clear, drive tractor away being careful not to catch on the digger or storage stand.

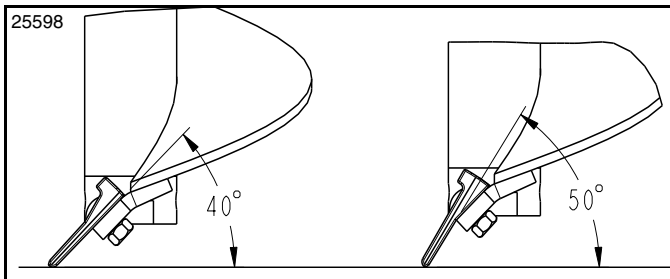
Section 3: Operating Instructions

Dual-Angle Pengo Teeth

Refer to Figure 3-1:

Only Pengo augers have teeth that are dual-angled. Pengo augers are shipped with teeth mounted on the flat side for a 40° bite angle. They can be turned over and mounted on the slopped side for a 50° bite angle.

If experiencing difficulty penetrating soil, turn the Pengo teeth over and mount them on the slopped side for a more aggressive bite. Be sure to tighten all mounting hardware to the correct torque value. Refer to “**Torque Values Chart for Common Bolt Sizes**” on page 47 for torque ratings.



Pengo Auger Teeth Mounted at 40° and 50° Degrees
Figure 3-1

Operating Instructions

1. Carry the auger low to the ground while traveling between drilling positions.
2. Position the 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 engine speed to increase auger speed and decrease engine speed to reduce auger speed. Run at higher speeds when digging in soft or sandy soils and at lower speeds when digging in hard, rocky, or frozen soils. Never exceed power take-off speed of 300 rpm or the equipment can become damaged.

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

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

IMPORTANT: Avoid moving or causing side pressure on the auger while in the ground. This can damage the auger and drive components.

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



WARNING

To avoid serious injury or death:

Always stop auger from rotating 1 to 2 feet (30.5 to 61 cm) before it is out of the hole. This will keep the auger from wobbling with an unbalanced dirt load.

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

IMPORTANT: If auger stalls while digging, raise auger to free it. Continue normal digging operations by lowering the auger slowly into the hole.

IMPORTANT: If auger starts to screw itself into the soil, stop auger rotation immediately and raise auger to free it. Continue normal digging operations by lowering the auger slowly into the hole.

IMPORTANT: If the dirt auger can not penetrate an obstruction, change auger head to the optional rock auger head, switch auger to the optional rock auger, or dig a new hole nearby. See “Options & Accessory” section in this manual for optional rock auger heads and rock augers.

8. After penetrating the ground approximately 24" (61 cm), 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" (61 cm) 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 (31-61 cm) of being out of the hole and lower it back down to continue digging. Repeat this procedure until hole is at its final depth.
9. 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.
10. Raise auger to an acceptable transport height before transporting. Refer to “**Check Post Hole Digger Clearance**” on page 20.
11. Be careful to watch out for people, obstructions, and uneven terrain while transporting.



Section 3: Operating Instructions

General Operation

By now you should have thoroughly read the Operator's Manual, properly installed the Post Hole Digger onto a tractor, and performed a pre-start and operational running checklist. Before digging, contact the local utility companies to make sure that the planned digging site is safe and free of underground lines. If all of the above has not been done, please stop and do them now. This is a must for your safety and safety of others.

Make sure that the Post Hole Digger is in the raised position and not in contact with the ground before transporting to the work site. You may want to secure the auger with ropes, slings, or chains if you have an extensive distance to travel to prevent swinging and potential damage in transport. Transport to your digging site at a safe speed and in such a manner that faster moving vehicles may pass safely. A slow moving vehicle sign should always be properly displayed when using a public road or right-of-way.

Once you have safely arrived at your digging site, position the tractor with auger directly over the spot you want to dig a hole. Lock tractor brakes to prevent rolling while digging.

NOTE: Damage to the gearbox or auger can result if the tractor moves while the auger is in the hole.
--

Lower the tractor's three-point hitch to a point where the auger clears the ground by approximately 12" (31cm) and set the three-point height limit to this position.

With tractor engine at idle, engage power take-off, and raise power take-off speed to 300 rpm. Using the tractor's three-point control lever, lower auger into the ground until desired depth is achieved and then raise spinning auger back up to remove loosened soil.

Use an optional alignment handle or a down-pressure kit to make these tasks safer and easier.

Once the hole is completed, disengage power take-off, raise auger to a safe height, release park brake, and pull ahead with the tractor.

Before dismounting the tractor you must always set park brake, lower the three-point implement to the ground, turn off the tractor, and remove ignition key. Always chock the tractor wheels for an extra measure of safety if you must park on a hillside. With a little practice and experience you should become very good at operating your Land Pride Post Hole Digger.

See "**Specifications & Capacities**" on page 42 and "**Features & Benefits**" on page 44 for additional information on performance and enhancing options.



Dirt Augers (Option)

Refer to Figure 4-1:

Dirt augers are available with 2" diameter hubs and aggressive auger teeth.

26576	
Part No.	Part Description
PD10 Model [30" (76 cm) overall length]	
317-106A	PD 6" (15 cm) Semi-Double Auger Assembly
317-109A	PD 9" (23 cm) Semi-Double Auger Assembly
317-112A	PD 12" (31 cm) Semi-Double Auger Assembly
PD15, 25 & 35 Models [48" (122 cm) overall length]	
317-030A	PD 6" (15 cm) Semi-Double Auger Assembly
317-033A	PD 9" (23 cm) Semi-Double Auger Assembly
317-036A	PD 12" (31 cm) Semi-Double Auger Assembly
PD 25 & 35 Models [48" (122 cm) overall length]	
317-070A	PD 15" (38 cm) Double Auger Assembly
317-038A	PD 18" (46 cm) Double Auger Assembly

PD Dirt Augers
Figure 4-1

Tree Augers (Option)

Refer to Figure 4-2:

The Tree Auger is available with a 2" hub and aggressive auger teeth. It is excellent for digging holes that are larger in diameter at the top and smaller at the bottom. This hole design 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.

25543	
Part No.	Part Description
PD 25 & 35 Models [48" (122 cm) overall length]	
317-039A	24" (61 cm) Tree Auger Assembly

Tree Augers
Figure 4-2

Auger Extensions (Option)

Refer to Figure 4-3:

Land Pride offers as an accessory, 7" & 14" (18 & 36 cm) long auger extensions to best suit your application.

26576	
14" (36 cm) Extension 7" (18 cm) Extension	
Part No.	Part Description
317-040A	PD 7" (18 cm) Auger Extension Assembly
317-041A	PD 14" (36 cm) Auger Extension Assembly

Auger Extensions
Figure 4-3

Dirt & Tree Auger Teeth (Wear Part)

Refer to Figure 4-4:

Bolt-on replaceable Pengo and Belltec teeth are available. Pengo teeth are dual-angle teeth whereas Belltec teeth are not. For dual-angle teeth instructions, refer to "Dual-Angle Pengo Teeth" on page 26.

When ordering teeth, be sure to order the teeth that match the auger. They are not interchangeable.

37276	
Pengo Belltec	
Part No.	Part Description
820-233C	Pengo Auger Tooth
820-739C	Belltec Auger Tooth

Dirt and Tree Auger Teeth
Figure 4-4

Dirt Auger Points (Wear Part)

Refer to Figure 4-5:

Bolt-on replaceable auger points are available. When ordering a point, be sure to order a point that matches the auger. They are not interchangeable.

Pengo Belltec	
Part No.	Part Description
820-232C	Pengo Tri-Flow Pilot Bit
820-825C	Belltec Auger Fishtail Tip

Dirt Auger Points
Figure 4-5

Section 4: Options and Accessories

Rock Augers (Accessory/Option) (PD15 Accessory; PD25 & 35 Option)

Refer to Figure 4-5:

Rock Augers (PD15, PD25, & PD35)	
Part No.	Part Description
317-258A	PD 6" (15 cm) Rock Auger Assembly
317-259A	PD 9" (23 cm) Rock Auger Assembly
317-260A	PD 12" (31 cm) Rock Auger Assembly
317-261A	PD 15" (38 cm) Rock Auger Assembly
317-262A	PD 18" (46 cm) Rock Auger Assembly

Bolt-on Rock Heads (Accessory)

Refer to Figure 4-6:

NOTE: Do not use this accessory with the PD10 Dirt Augers or the optional Rock Augers.

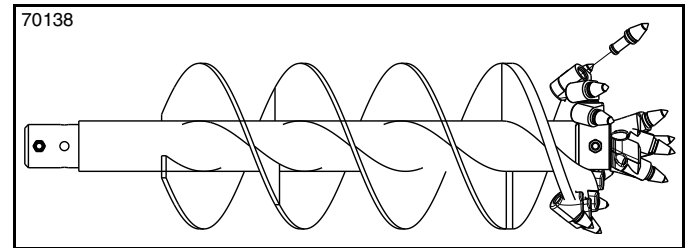
The PD15, PD25, and PD35 Dirt Augers can be converted to Rock Augers with this accessory. Remove existing dirt auger teeth and point. Attach rock head (#1) to the auger with 1/2"-13 GR5 bolt (#2) and locknut (#3). Clamp rock head to the auger's spiral flighting with wear caps (#4 & #5), 1/2"-13 GR5 bolts (#6), and lock nuts (#3). Tighten locknuts (#3) to the correct torque.

Bolt-on Rock Heads (PD15, PD25, & PD35)	
Part No.	Part Description
317-274A	SA 6" (15 cm) Bolt-on Rock Head Assembly
317-275A	SA 9" (23 cm) Bolt-on Rock Head Assembly
317-276A	SA 12" (31 cm) Bolt-on Rock Head Assembly
317-277A	SA 15" (38 cm) Bolt-on Rock Head Assembly
317-278A	SA 18" (48 cm) Bolt-on Rock Head Assembly

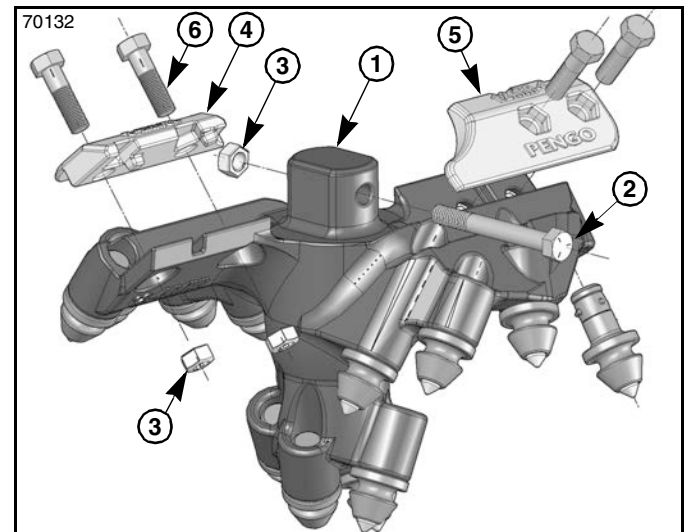
Rock Auger Teeth (Wear Part)

Refer to Figure 4-7:

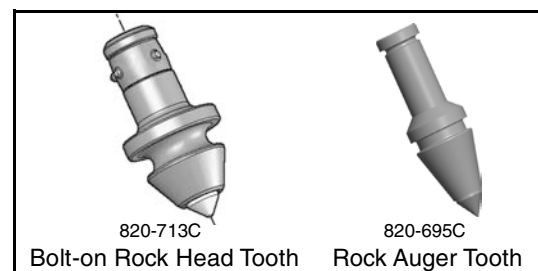
Rock Auger Teeth	
Part No.	Part Description
820-695C	Belltec Auger Tooth (For Rock Augers)
820-713C	Pengo Rock Auger Tooth (Bolt-on Rock Heads)



PD/HD Rock Augers
Figure 4-5



Bolt-on Rock Heads (12" Assembly Shown)
For PD15, PD25, & PD35 only
Figure 4-6



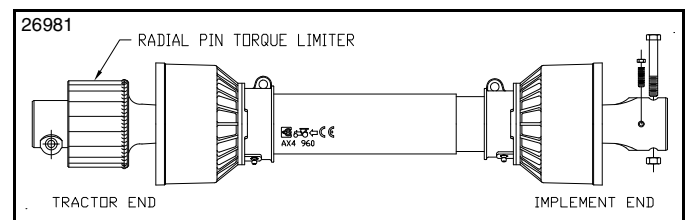
Rock Auger Teeth
Figure 4-7

Torque Limiter Driveline (Option)

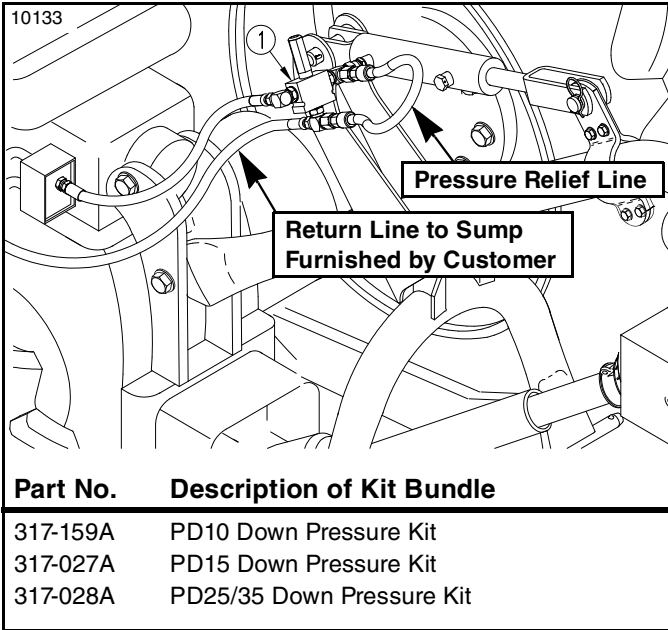
Refer to Figure 4-8:

Land Pride recommends the optional Cat. III driveline with a radial clutch torque limiter for the PD25 & PD35 Post Hole Diggers with 15" and larger auger sizes.

Torque Limiter Driveline (PD25 & PD35)	
Part No.	Part Description
826-879C	Driveline C3 38 1.38-6 QD Torque Limiter



PD25 & PD35 Radial Pin Torque Limiter Driveline Option
Figure 4-8



Part No.	Description of Kit Bundle
317-159A	PD10 Down Pressure Kit
317-027A	PD15 Down Pressure Kit
317-028A	PD25/35 Down Pressure Kit

Down Pressure Kit
Figure 4-9

Down Pressure Kits (Accessory)

Refer to Figure 4-9:

DANGER

To avoid serious injury or death:

Relieve all hydraulic pressure before disconnecting any lines or pipes between the implement and tractor hydraulic system.

WARNING

To avoid serious injury or death:

- Hydraulic fluid under high pressure will penetrate the skin or eyes causing a serious injury. 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 leaks. If an accident occurs, seek immediate emergency medical care or gangrene may result. **DO NOT DELAY.**
- Always follow "Tractor Shutdown Procedure" provided in this manual before dismantling the tractor.

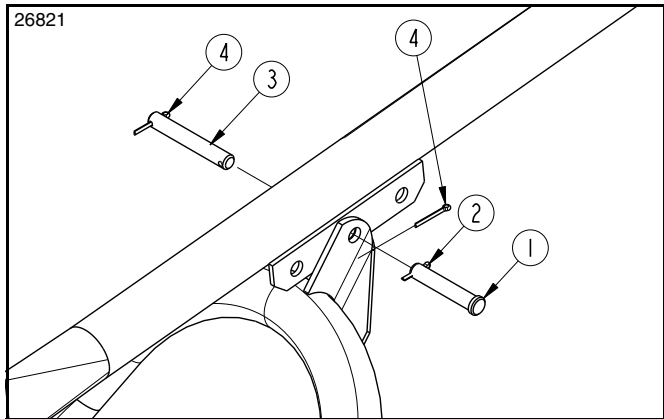
The Down Pressure Kit allows for additional digging force in hard soil by use of a hydraulic cylinder to press down on the boom. Down pressure created is between 300 and 500 lbs (136-227 kgs). depending on mounting configuration.

IMPORTANT: Not providing some form of down pressure relief to the hydraulic system can damage the post hole digger and tractor when raising auger.

IMPORTANT: The "Down Pressure" relief valve is factory set to 1500 psi and must not be changed. Exceeding this pressure can damage equipment.

The Down Pressure Kit is ready for operating after it has been properly installed on the Post Hole Digger (see following pages for Assembly Instructions). This kit should be used only on hard soils where the auger will not penetrate the ground on its own.

Normal digging operations are made with remote control lever for the down pressure cylinder in neutral position. When encountering hard soil, move control lever in the proper direction to apply pressure. When lever is held in this position, hydraulic pressure will not exceed 1500 p.s.i. Return control lever to neutral to continue normal digging operations.



Boom/Yoke Pivot Pin Removal and Replacement
Figure 4-10

PD10 & 15 Down Pressure Assembly

The following instructions are for the PD10 & PD15 Post Hole Diggers. For PD25 & PD35 Post Hole Diggers, see "PD25 & 35 Down Pressure Assembly" on page 32.

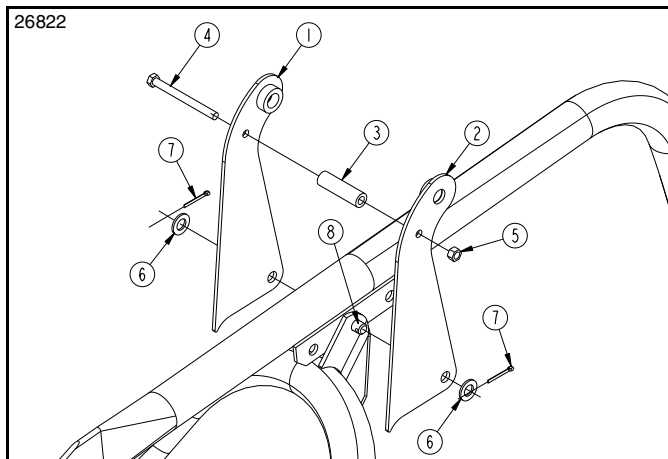
- Lower Post Hole Digger until auger point is resting on the ground.

Refer to Figure 4-10:

- At the boom, and yoke connection, remove cotter pin (#2) from existing clevis pin (#1).
- Use new pin (#3) in one end as a guide pin to remove clevis pin (#1).

NOTE: PD15 boom bracket is supplied with three mounting holes (shown) and PD10 Boom bracket is supplied with only one mounting hole (not shown).

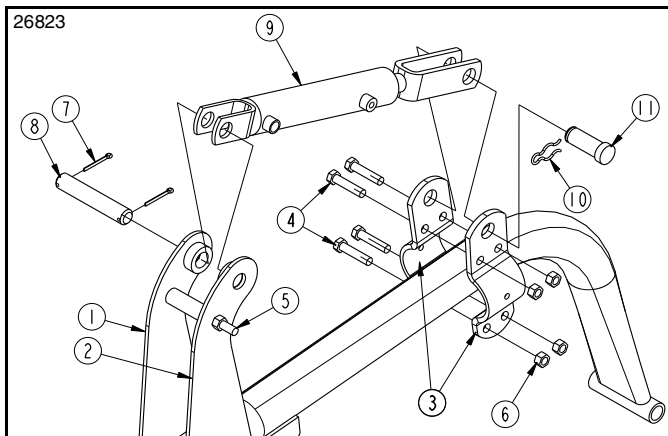
- Insert new clevis pin (#3) into this same location.



Cylinder Plate Installation
Figure 4-11

Refer to Refer to Figure 4-11:

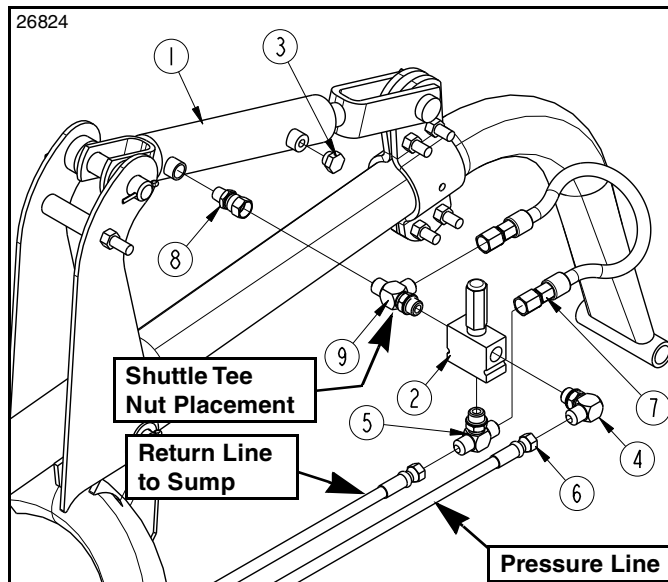
5. Install cylinder mounting plates (#1 & #2) with bushing tubes at the top pointing towards each other, and with flat washers (#6), and cotter pins (#7) in the correct location at the bottom.
6. Install spacer (#3) between cylinder mounting plates with 1/2"-13 x 5 1/2" GR5 bolt (#4), and locknut (#5). Draw nut up snugly, do not tighten.



Cylinder Installation
Figure 4-12

Refer to Figure 4-12:

7. Attach cylinder (#9) between mounting plates (#1 & #2) with pin (#8). Insert both cotter pins (#7) into pin (#8), and bend one or more legs to prevent pin from falling out.
8. Torque 1/2" x 5 1/2" lg. bolt (#5) to 76 ft-lbs (103 Nm).
9. Attach clamp plates (#3) to digger boom with 1/2"-13 x 2 1/4" GR5 bolts (#4), and locknuts (#5). Thread nuts only one or two full turns to allow for easier attachment of down pressure cylinder (#9). Do not tighten nuts (#5) until step 6 on page 33.
10. Fully retract hydraulic cylinder (#9), and connect cylinder to clamp plates with cylinder pin (#11). Secure pin with hairpin clip (#10).



Down Pressure Cylinder Plumbing
Figure 4-13

Refer to Figure 4-13:

11. Install hydraulic plumbing using teflon tape to seal pipe threads. Do not tighten connections until after all fittings have been installed.
 - a. Connect plug (#3) to rod end of hydraulic cylinder.
 - b. Connect straight fitting (#8) to clevis end of hydraulic cylinder.
 - c. Connect shuttle tee fitting (#9) to straight fitting.
 - d. Connect pressure relief valve (#2) to shuttle tee.
 - e. Connect standard tee fitting (#5) to the bottom end of pressure relief valve.
 - f. Connect 90° elbow fitting (#4) to remaining port of pressure relief valve.
 - g. Connect 3/8" x 15 3/4" bypass line (#7) to shuttle tee (#9) and standard tee (#5).
 - h. Connect 3/8" x 84 1/2" pressure line (#6) to 90° elbow fitting (#4).
 - i. Connect pressure line (#6) to the tractor hydraulic outlet.

IMPORTANT: Do not connect return line to the tractor remote outlet. Damage will occur to digger frame if not properly hooked up to reservoir or sump.

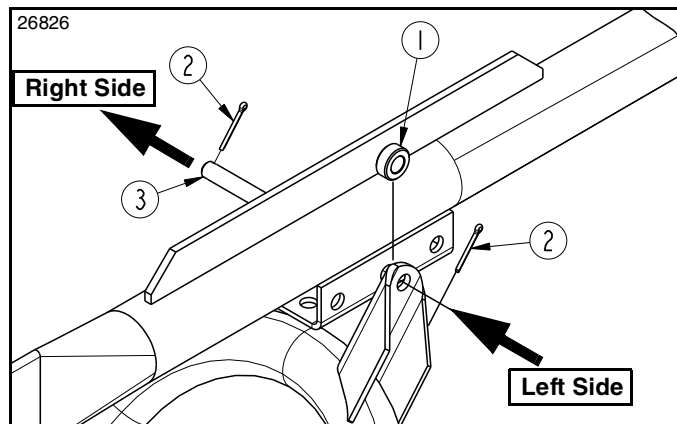
NOTE: Customer to provide return line to sump and fittings to connect return line to tee fitting (#5) and to the tractor sump.

- j. Connect customer supplied Return line to tee fitting (#5).
- k. Connect customer supplied return line to reservoir or sump.
12. Skip to "**Adjust Down Pressure Kit**" on page 33.

PD25 & 35 Down Pressure Assembly

Refer to Figure 4-14:

1. Lower Post Hole Digger until auger point is resting on the ground.
2. Remove cotter pins (#2) holding boom pivot pin (#3) in place.
3. Partially remove pivot pin to the right side until spacer (#1) can be removed from the left side.



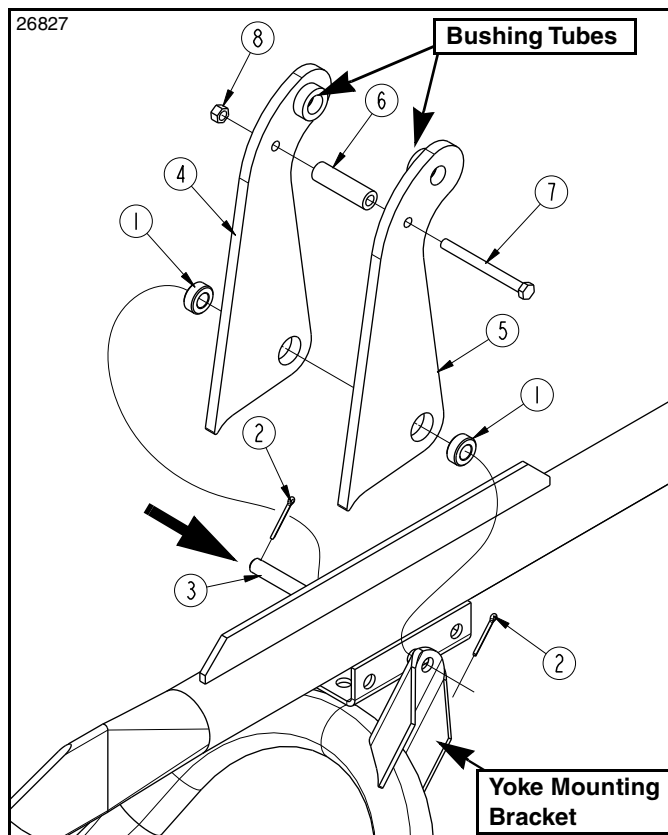
Boom/Yoke Pivot Pin and Spacer Removal
Figure 4-14

Refer to Figure 4-15:

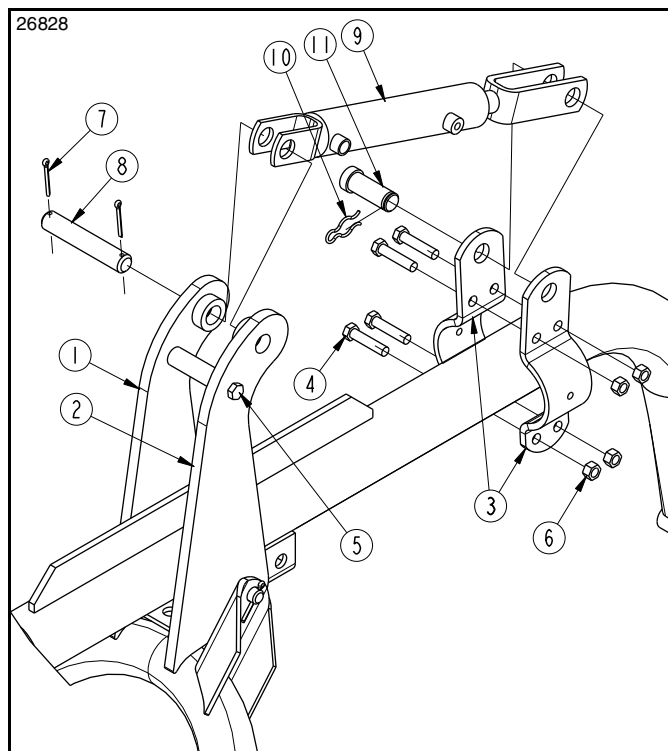
4. On the left side of the Post Hole Digger, insert spacer (#1) into the hole in cylinder plate (#5).
5. Place left side cylinder plate with spacer back into pin position. Make sure bushing tube at the top is pointing inward as shown.
6. Push pin (#3) in until pin projects through spacer (#1) and out through yoke mounting bracket on the left side.
7. Repeat steps 3 to 6 for the right side spacer and down pressure cylinder plate (#4).
8. Install spacer (#6) between cylinder mounting plates (#4 & 5).
9. Insert bolt (#7) through cylinder mounting plates (#4 & 5) and spacer (#6). Draw nut up snugly, do not tighten.

Refer to Figure 4-16:

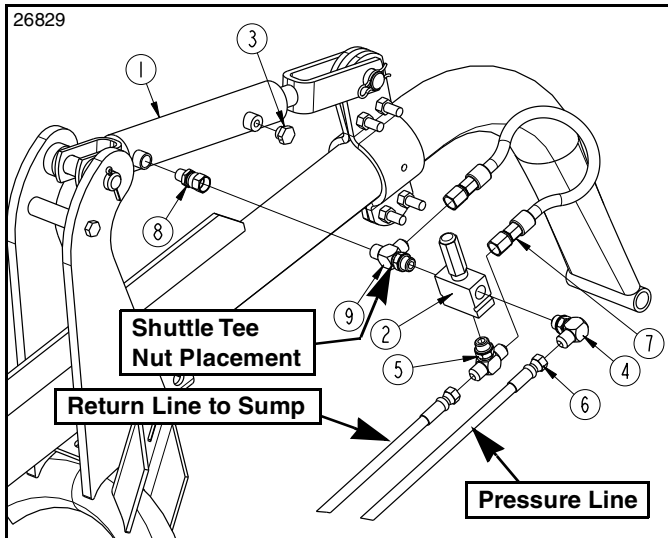
10. Attach cylinder (#9) between cylinder mounting plates (#1 & #2) with pin (#8). Insert both cotter pins (#7) into pin (#8) and bend one or more legs to prevent pin from falling out.
11. Torque 1/2" x 5 1/2" lg. bolt (#5) to 76 ft. lbs (103 Nm).
12. Attach clamp plates (#3) to digger boom with 1/2"-13 x 2 1/4" GR5 bolts (#4) and locknuts (#6). Thread nuts only one or two full turns to allow for easier attachment of down pressure cylinder (#9). Do not tighten nuts (#6) until step 6 on page 33.
13. Fully retract hydraulic cylinder (#9) and connect cylinder to clamp plates with cylinder pin (#11). Secure pin with hairpin clip (#10).



Cylinder Plate Installation
Figure 4-15



Cylinder Clamp Plate Installation
Figure 4-16



Down Pressure Cylinder Plumbing
Figure 4-17

Refer to Figure 4-17:

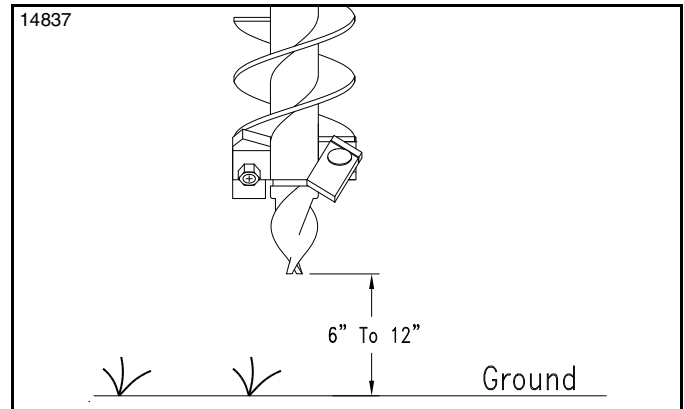
14. Install hydraulic plumbing using teflon tape to seal pipe threads. Do not tighten connections until after all fittings have been installed.
 - a. Connect plug (#3) to rod end of hydraulic cylinder.
 - b. Connect straight fitting (#8) to clevis end of hydraulic cylinder.
 - c. Connect shuttle tee fitting (#9) to straight fitting.
 - d. Connect pressure relief valve (#2) to shuttle tee.
 - e. Connect standard tee fitting (#5) to the bottom end of pressure relief valve.
 - f. Connect 90° elbow fitting (#4) to remaining port of pressure relief valve.
 - g. Connect 3/8" x 15 3/4" bypass line (#7) to shuttle tee (#9) and standard tee (#5).
 - h. Connect 3/8" x 84 1/2" pressure line (#6) to 90° elbow fitting (#4).
 - i. Connect pressure line (#6) to the tractor hydraulic outlet.

IMPORTANT: Do not connect return line to the tractor remote outlet. Damage will occur to digger frame if not properly hooked up to reservoir or sump.

NOTE: Customer to provide return line to sump and fittings to connect return line to tee fitting (#5) and to the tractor sump.

- j. Connect customer supplied Return line to tee fitting (#5).
- k. Connect customer supplied return line to reservoir or sump.

15. Continue with **"Adjust Down Pressure Kit"** on this page.



Setting Down Pressure Kit
Figure 4-18

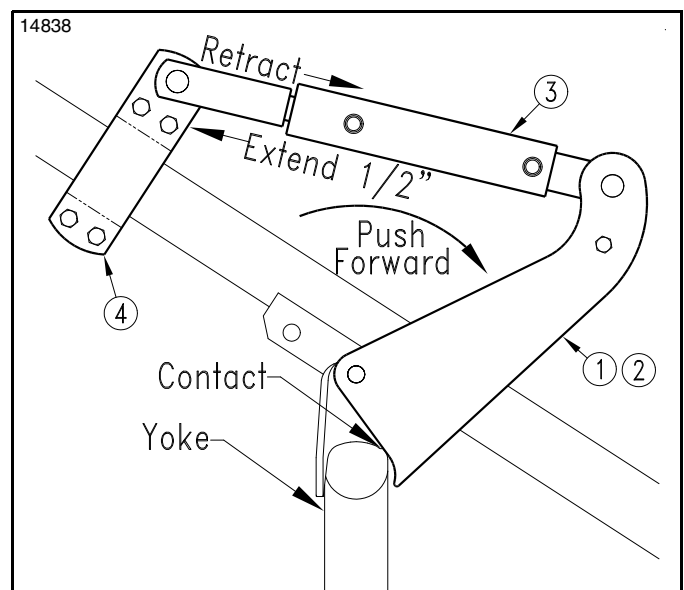
Adjust Down Pressure Kit

Refer to Figure 4-18:

1. Raise Post Hole Digger so that auger tip is 6" to 12" above ground.
2. Set tractor 3-point up-stop to limit auger maximum raised height to 12". Exceeding this height can cause undue stress on Driveline and cause driveline damage.

Refer to Figure 4-19:

3. Loosen bolts in clamp plates (#4).
4. Push top of cylinder mounting plates (#1 & #2) forward toward the tractor until plates have firmly contacted digger yoke.
5. Make sure cylinder clamp plates (#4) will move fairly free on digger boom and that cylinder (#3) is fully retracted.
6. Extend cylinder (#3) 1/2" and tighten bolts in clamp plates (#4) evenly to 76 ft-lbs (103 Nm).



Set Down Pressure Kit
Figure 4-19

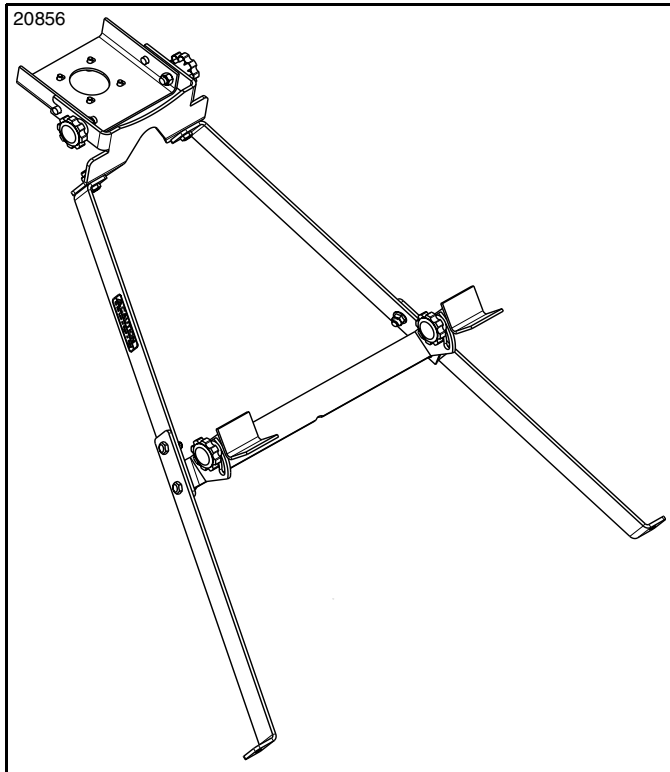
Storage Stands (Accessory)

PD10 Part No. 317-166A

PD15, PD25 & PD35 Part No. 317-142A

Refer to Figure 4-20:

The optional storage stand may be used when PD10 Post Hole Digger is not in operation. It will help prolong digger's life by keeping the unit off the ground where moisture and debris are more likely to collect causing undue damage to the digger. Also, the storage stand aids in mounting and dismounting the Post Hole Digger to and from the tractor.



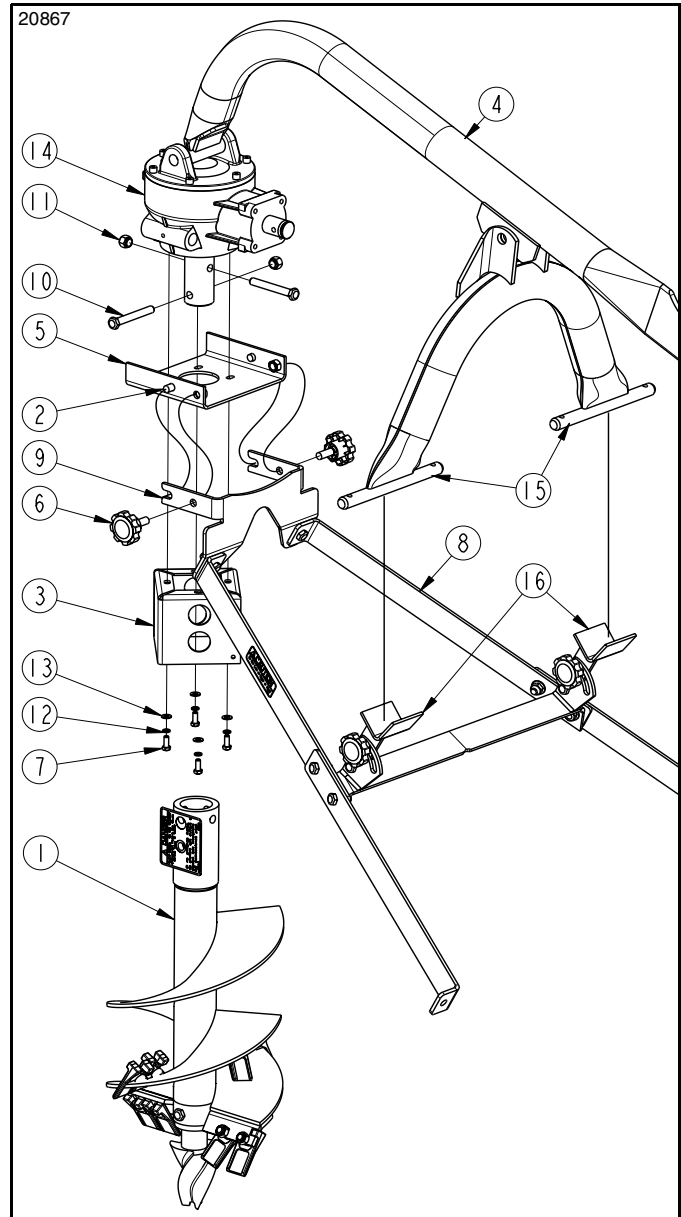
Storage Stand (PD10 Shown)
Figure 4-20

Storage Stand Assembly

Refer to Figure 4-21:

The Storage Stand Assembly consists of an A-frame storage stand (#7), clamping knobs (#13), cradle (#5), and a bag of (4) - 5/16" x 3/4" long bolts.

1. Unscrew locknuts (#10) and remove 1/2"-13 x 3 1/2" GR5 hex head bolts (#9). Slide auger (#1) off of gearbox output shaft.
2. Remove existing hex head cap screws (#8), lock washers (#11), and flat washers (#12) from underside of gearbox and remove auger guard (#3).
3. Position cradle (#5) between auger guard (#3) and gearbox (#14). Make sure cradle pins (#2) are positioned to the back as shown.



Storage Stand Assembly (PD10 Shown)
Figure 4-21

4. Use four new bolts (#8), lock washers (#11), and flat washers (#12) in hardware bag to attach cradle (#5), and existing guard (#3) to gearbox (#14).
5. Reattach auger to gearbox output shaft with existing auger bolts (#9) and locknuts (#10).

Section 4: Options and Accessories

Alignment Handle, PD10

Part No. 317-162A

Refer to Figure 4-22:

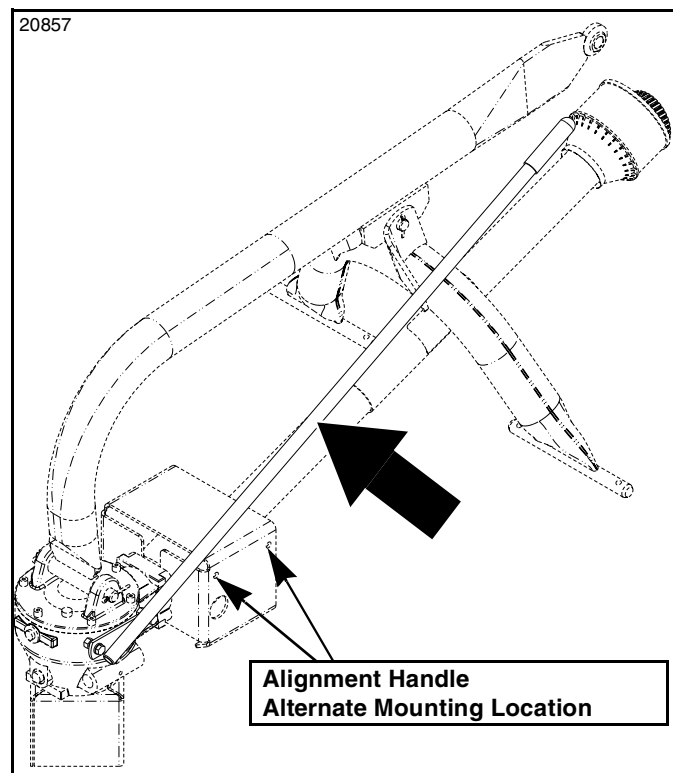
The alignment handle, mounted to the gearbox or power take-off shield, enables the operator to position the auger tip on the ground from the tractor seat. Mount handle in location suitable to the operator. Raise handle to move auger tip toward the tractor or lowering handle to move auger tip away from the tractor.

NOTE: Only the tractor operator should position the auger tip.

The alignment handle is bolted to the gearbox as shown below with two hex head bolts and lock washers. Tighten according to the “**Torque Values Chart for Common Bolt Sizes**” on page 47.

Before using, check alignment handle for interferences with the tractor and tractor operator. Its height, due to various tractor sizes and configurations, may need to be adjusted. If necessary, bend alignment handle arm up or down to a height that will accommodate the tractor operator.

Also, the arm may need to be cut-off at the grip end to prevent it from interfering with the tractor operator and tractor. First remove handle grip and then cut arm off to an acceptable length. Remove all burs and replace grip.



PD10 Alignment Handle
Figure 4-22

Alignment Handle, PD15, 25, & 35

Part No. 317-042A

Refer to Figure 4-23:

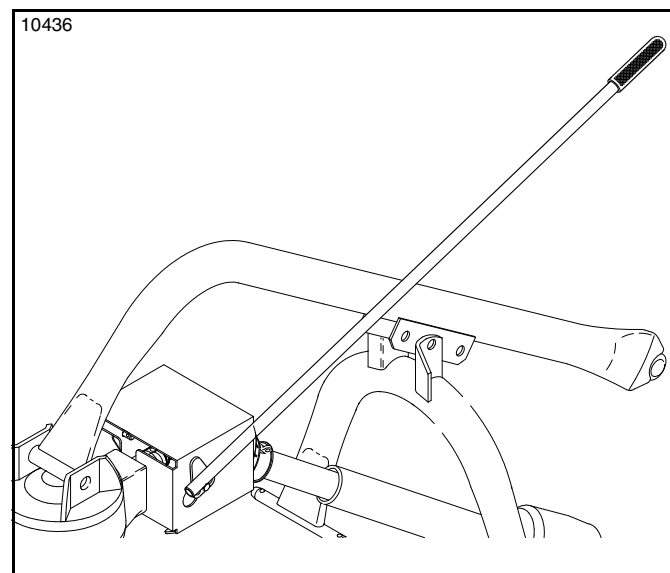
The alignment handle, mounted to the driveline guard, enables the operator to position the auger tip from the tractor seat. Raise handle to move auger tip toward the tractor or lowering handle to move auger tip away from the tractor.

NOTE: Only the tractor operator should position the auger tip.

The alignment handle is bolted to the power take-off guard as shown below with two hex head bolts and lock washers. Tighten according to the “**Torque Values Chart for Common Bolt Sizes**” on page 47.

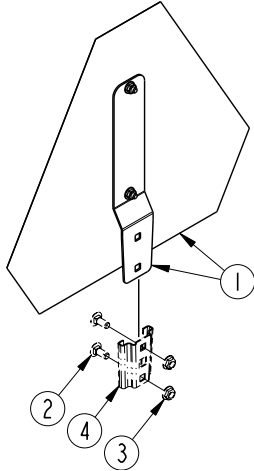
Before using, check alignment handle for interferences with the tractor and tractor operator. Its height, due to various tractor sizes and configurations, may need to be adjusted. The adjustment, if necessary, is made by removing the bottom fasteners and rotating the handle either up or down to the desired position. Reinstall fasteners and tighten according to the “**Torque Values Chart for Common Bolt Sizes**” on page 47.

Also, the arm may need to be cut-off at the grip end to prevent it from interfering with both the tractor operator and tractor. First remove handle grip and then cut arm off to an acceptable length. Remove all burs and replace grip.



PD15, 25, and 35 Alignment Handle
Figure 4-23

37431



Item	Part No.	Description
1	316-362S	SLOW MOVING VEHICLE SIGN
2	802-092C	RHSNB 5/16-18X3/4 GR5
3	803-177C	NUT HEX FLG TP LK 5/16-18ZNYCR
4	890-401C	MOUNTING SOCKET

Slow Moving Vehicle Sign
Figure 4-24

Slow Moving Vehicle Sign (Accessory)

Refer to Figure 4-24:

If your tractor does not have a movable sign that fits Land Pride's mounting socket (#4), you can purchase the slow moving vehicle sign (#1) to fit the socket. If you have need for mounting this sign on other equipment, you can purchase items (#2, #3, & #4) for mounting the sign.

Section 5: Maintenance & Lubrication

General

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

Check all bolts after using the unit for several hours to be sure they are tight. Replace any worn, damaged, or illegible safety labels by obtaining new labels from your Land Pride Dealer.

The parts on your Post Hole Digger have been specially designed and should only be replaced with genuine Land Pride parts. Do not alter the digger in a way which will adversely affects its performance.

Safety Information

DANGER

To avoid serious injury or death:

- *All guards and shields must be installed and in good working condition while operating the implement.*
- *Keep all persons away from rotating driveline and auger. Contact with rotating parts may cause serious injury or death.*
- *Always secure equipment with solid, non-concrete supports before working under it. Never go under equipment supported by concrete blocks or hydraulics. Concrete can break, hydraulic lines can burst, and/or hydraulic controls can be actuated even when power to hydraulics is off.*

WARNING

To avoid serious injury or death:

- *Allow only persons to perform maintenance on this implement who have been properly trained in its safe operation.*
- *Always follow “Tractor Shutdown Procedure” provided in this manual before dismounting the tractor.*
- *Make sure safety labels are in their proper location and are in good condition before operating the attached implement. Read and obey all instructions on the labels.*
- *Perform scheduled maintenance. Check for loose hardware, missing parts, broken parts, structural cracks, and excessive wear. Make repairs before putting the implement back into service.*
- *Do not alter implement or replace parts on the implement with other brands. Other brands may not fit properly or meet OEM (Original Equipment Manufacturer) specifications. They can weaken the integrity and impair the safety, function, performance, and life of the implement. Replace parts only with genuine OEM parts.*

Daily Inspections

1. Check all bolts after using the unit for several hours to be sure they are tight.
2. After each use, inspect auger for loose, worn, or damaged auger teeth, tip, flighting, and gearbox output shaft bolts and nuts.
3. Keep cutting edges sharp. Sharp cutting edges dig easier and better.
4. Maintain driveline with lubrication. Refer to “**Lubrication Points**” on page 40.
5. Maintain gearbox fluid level. Refer to “**Lubrication Points**” on page 40.



Shear Bolt Replacement

Refer to Figure 5-1:

IMPORTANT: Drivelines require a retainer screw to prevent the driveline yoke from coming off the gearbox shaft soon after the shearbolt has sheared.

IMPORTANT: Maintain driveline shearbolt at all times. A bent or damaged shearbolt can result in severe damage to the post hole digger.

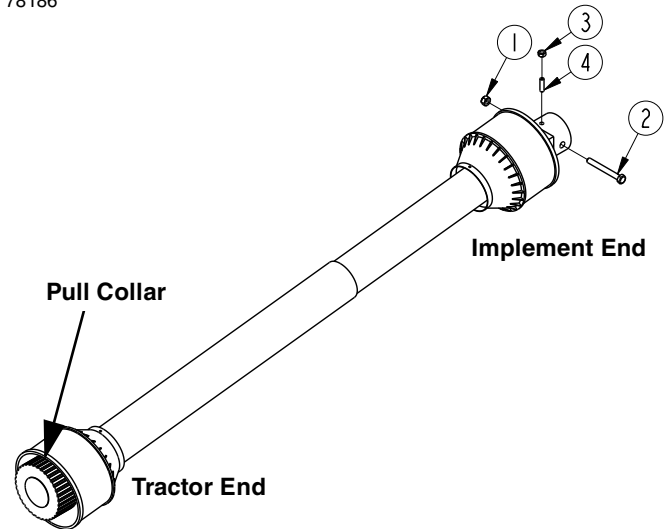
IMPORTANT: Replace shear bolts with genuine OEM shear bolts.

Shock loads can cause shear bolt breakage. Avoid accidental breakage by engaging power take-off at a low engine rpm. Increase engine speed to 540 rpm only after the auger starts rotating. Slowly lower auger into the ground.

Should the auger hit a solid object, shear bolt (#2) will bend or break. Replace the shear bolt as follows:

1. Shut tractor down according to **“Tractor Shutdown Procedure”** on page 15.
2. Loosen jam nut (#3) and set screw (#4).
3. Align shear bolt holes in the yoke with the hole in the gearbox input shaft. If needed, disconnect driveline from the tractor by pulling back on its pull collar and pull the driveline from the tractor.
4. Replace nylock nut (#1) and shear bolt (#2) with a new nylock nut and bolt.
5. Draw nylock nut up snug, do not torque the nut. Torquing the nut can prevent the shear bolt from shearing.
6. Install driveline retainer set screw (#4). Turn screw all the way in. Back out no more than 1/8 turn. Secure with hex nut (#3).
7. If removed, reattach driveline to the tractor. Refer to **“Hook-up Driveline”** on page 24.

78186



Shear Bolt & Nylock Nut Part Numbers

No. Part No. Part Description

PD10 Post Hole Digger

- | | | |
|---|----------|------------------------|
| 1 | 803-278C | NYLOCK NUT M8X1.25 PLT |
| 2 | 802-730C | HHCS M8X1.25X70 GR 8.8 |

PD15, PD25, PD35 Post Hole Diggers

- | | | |
|---|----------|-----------------------|
| 1 | 803-147C | NYLOCK NUT 1/2-13 PLT |
| 2 | 802-216C | HHCS 3/8-16X2 3/4 GR5 |

**Shear Bolt Replacement
Figure 5-1**



Section 5: Maintenance & Lubrication

Long-Term Storage

Clean, inspect, service, and make necessary repairs to the implement when storing it for long periods and at the end of the season. This will help to ensure the unit is ready for field use the next time you hook-up to it.

1. Remove any dirt and grease that may have accumulated on the digger and moving parts. Scrape off compacted dirt and wash surface thoroughly with a garden hose. A coating of oil may also be applied to the lower auger to minimize oxidation.
2. Check auger teeth and bolts for wear and replace if necessary. See **“Dual-Angle Pengo Teeth”** on page 26.
3. Inspect for loose, damaged, broken or worn parts and adjust or replace as needed.
4. Repaint parts where paint is worn or scratched to prevent rust. Ask your Land Pride dealer for aerosol touch-up paint. Paint is also available in touch-up bottles with brush, quarts, and gallon sizes by adding TU, QT, or GL to the end of the aerosol part number.

Land Pride Touch-up Paint	
Part No.	Part Description
821-011C	PAINT LP BEIGE SPRAY CAN
821-066C	PAINT ORANGE SPRAY CAN
821-070C	PAINT GP GLOSS BLACK SPRAY CAN

5. Replace any worn, damaged, or illegible safety labels by obtaining new labels from your Land Pride dealer.
6. Lubricate as noted in **“Lubrication Points”** on page 40.
7. Store Post Hole Digger on a level surface in a clean, dry place. Inside storage will reduce maintenance and make for a longer Post Hole Digger life.
8. Follow all unhooking instructions on pages 25 and 25 when unhooking the Post Hole Digger.

Ordering Replacement Parts

Land Pride offers equipment in factory standard Beige with black highlights. This implement is also available in Orange.

When ordering an optional color, the suffix number corresponding to the color must be added at the end of the part number. Parts ordered without the suffix number will be supplied in factory standard colors.

82 Orange 85 Black

For example, if you are ordering a replacement part with part number 555-555C and the existing part is orange, then add the suffix 82 to the end of the number to make the part number read 555-555C82.

Lubrication Points

Lubrication Legend



Multi-purpose
spray lube



Multi-purpose
grease lube

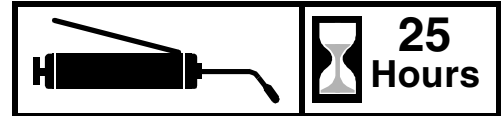
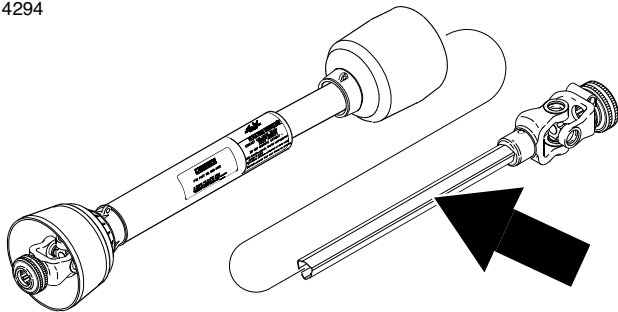


Multi-purpose
oil lube



Intervals in hours at which
lubrication is required

14294

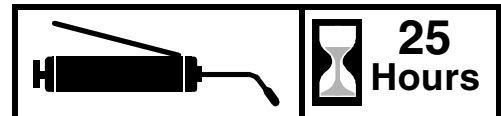
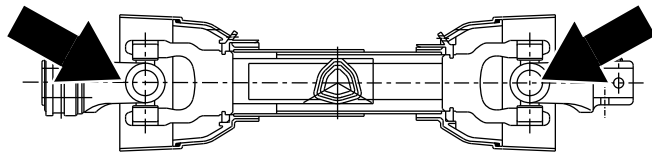


Driveline Profiles

Type of Lubrication: Multi-purpose Grease

Quantity = Disconnect driveline from the tractor and slide apart. Clean and coat inner tube of driveline with a light film of grease, then reassemble.

78184

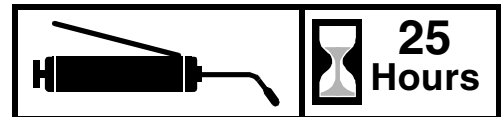
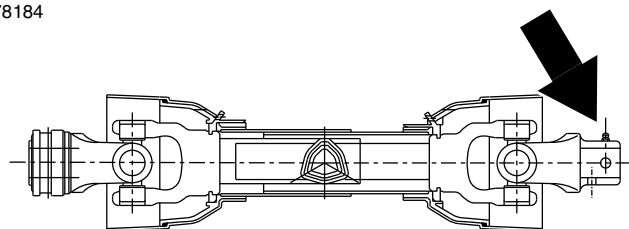


Driveline U-Joints

Type of Lubrication: Multi-purpose grease

Quantity = 2-4 pumps

78184

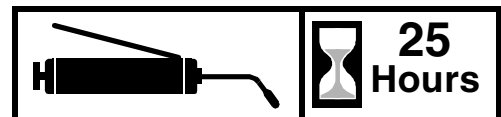
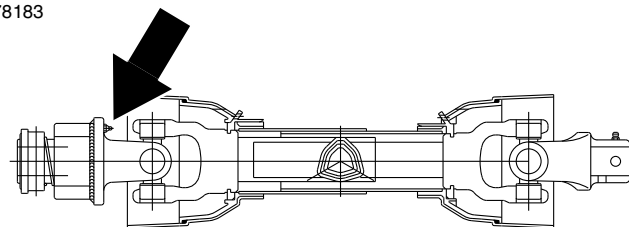


Driveline Bolt-on Yoke End

Type of Lubrication: Multi-purpose grease

Quantity = 2-4 pumps

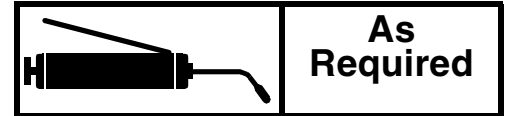
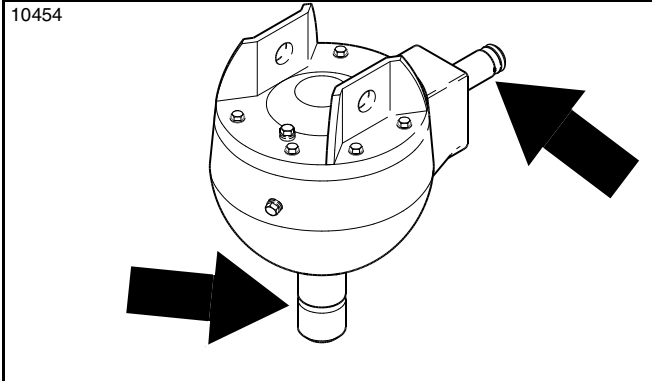
78183



Driveline Ratchet Torque Limiter Optional for PD25 & PD35 Models Only

Type of Lubrication: Multi-purpose grease

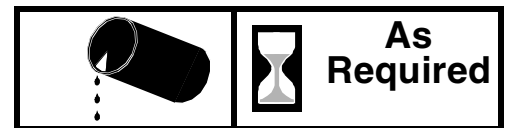
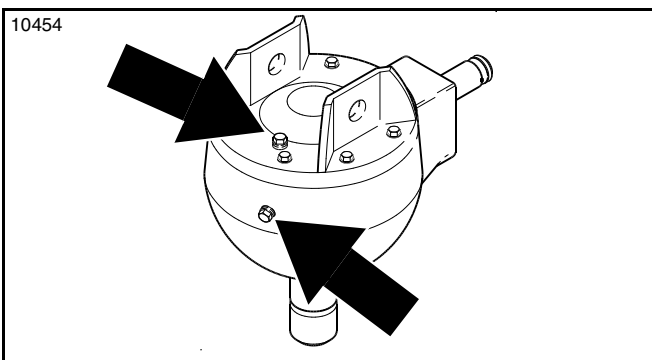
Quantity = 2-4 pumps



Gearbox Input and Output Shafts

Type of Lubrication: Multi-purpose grease

Quantity = Light film



Gear Lube Fluid Level

Type of Lubrication: SAE 90W Multi-purpose Lube

Quantity = With gearbox level check oil in box by removing plug from side. If oil level is low, remove top plug and fill with lube until fluid flows from side port. Do not overfill.

NOTE: Use a suction or siphon pump to drain gearbox of oil when there is not an oil drain plug.

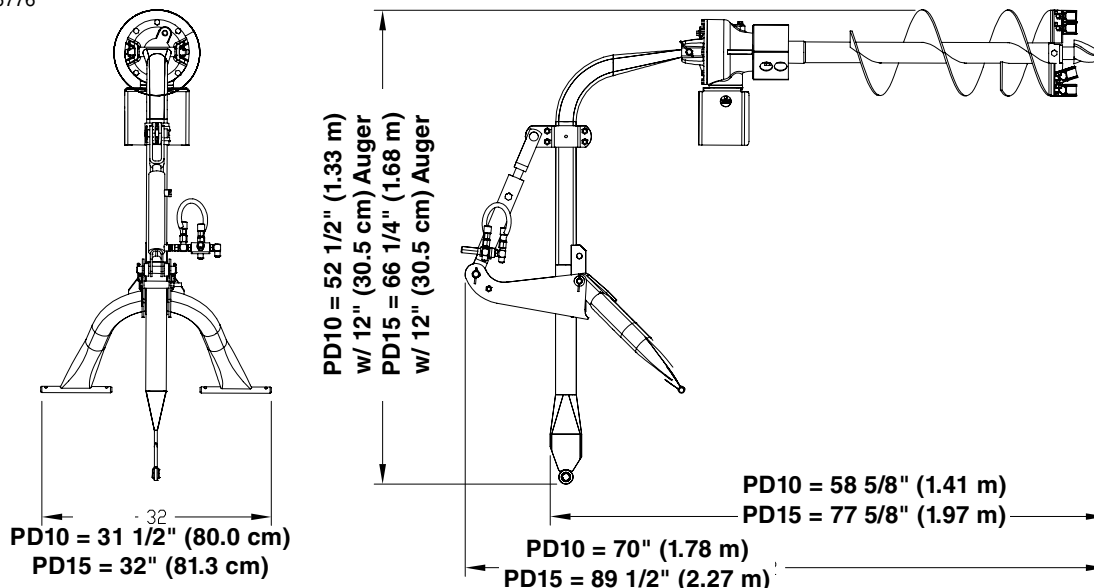


PD10 & PD15 Models

Specifications & Capacities

Specifications & Capacities		
	PD10	PD15
Tractor Horsepower Range	15 to 30 horsepower (11.2 to 22.4 kw)	20 to 40 horsepower (14.9 to 29.8 kw)
Weight Without Auger	120 lbs (54.4 kg)	161 lbs (73.0 kg)
Gearbox	1 3/8" (3.5 cm) 6B spline input shaft, 3:1 Ratio	1 3/8" (3.5 cm) 6B spline input shaft, 3.18:1 Ratio
Gearbox Oil Capacity and Type	3.4 Pints (1.61 L) of SAE80-90W EP oil	4.6 (2.18 L) Pints of SAE80-90W EP oil
Gearbox output Shaft	2" (5.1 cm) O.D. Round	
Boom	2 7/8" (7.3 cm) O.D.	
Yoke	2 7/8" (7.3 cm) O.D.	
3-Point Hitch Cat.	Cat. I	
Driveline	Cat. II Shear bolt	
Maximum power take-off Speed	300 rpm	
Options		
Dirt auger lengths	30" (76.2 cm)	48" (1.22 m)
Dirt auger diameters	6", 9", or 12" (15, 23, or 31 cm)	6", 9", & 12" (15, 23, & 31 cm)
Tree Auger	Not Available	Not Available
Rock auger lengths	Not Available	45" (114 cm)
Rock Auger diameters	Not Available	6", 9", 12", 15", & 18" (15, 23, 31, 38, & 46 cm)
Auger Flight Thickness	1/4" (6 mm)	
Auger Pipe	2 1/2" (6.4 cm) ID	
Auger teeth	Individually replaceable (Pengo teeth only: 40° angle on flat side or 50° angle on sloped side)	
Number of dirt auger teeth	6" - 2 teeth, 9" - 2 or 4 teeth, and 12" - 4 teeth	
Dirt auger pilot	Cast steel with two or three drill points	
Cat. III Torque Limiter Driveline	Not Available	Not Available
Accessories		
Alignment Handle	Available	Available
Hydraulic Down Pressure Kit	Available	Available
Storage Stands	Available	Available
Auger Extensions	Available in 7" & 14" (17.8 cm & 35.6 cm) lengths	
Bolt-on rock head diameters	Not Available	6", 9", 12", 15", & 18" (15, 23, 31, 38, & 46 cm)

26776

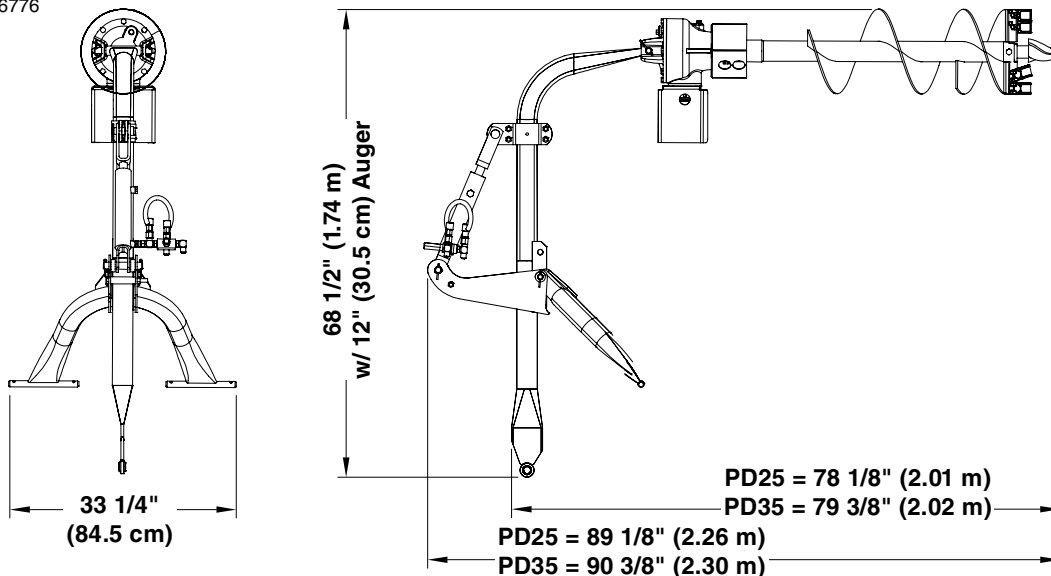




PD25 & PD35 Models

Specifications & Capacities		
	PD25	PD35
Tractor horsepower range	25 to 55 horsepower (18.6 to 41.0 kw)	30 to 75 horsepower (22.4 to 55.9 kw)
Weight without auger	186 lbs (84.4 kg)	233 lbs (105.7 kg)
Gearbox	1 3/8" (3.5 cm) 6B spline input shaft 3.18:1 Ratio	1 3/8" (3.5 cm) 6B spline input shaft 4:1 Ratio
Gearbox oil capacity and type	4.6 Pints (2.18 L) of SAE80-90W EP oil	9.1 Pints (4.31 L) of SAE80-90W EP oil
Gearbox output shaft	2" (5.1 cm) O.D. Round	2" (5.1 cm) O.D. Round
Boom	3 1/2" (8.9 cm) O.D.	3 1/2" (8.9 cm) O.D.
Yoke	2 7/8" (7.3 cm) O.D.	
3-Point hitch Cat.	Cat. I & II	
Driveline type.	Standard Optional	Cat. III shear bolt Cat. III radial pin clutch (Recommended on auger sizes 15" (38.1 cm) and above.)
Maximum power take-off Speed	300 rpm	
Options		
Dirt & tree auger lengths	48" (1.22 m)	
Dirt auger diameters	6", 9", 12", 15", or 18" (15.2 cm, 22.9 cm, 30.5 cm, 38.1 cm, & 45.7 cm)	
Tree auger diameter	24" (61.0 cm)	
Rock auger lengths	45" (114 cm)	
Rock auger diameters	6", 9", 12", 15", or 18" (15.2 cm, 22.9 cm, 30.5 cm, 38.1 cm, & 45.7 cm)	
Auger flight thickness	1/4" (6 mm)	
Auger pipe	2 1/2" (6.4 cm) ID	
Auger teeth	Individually replaceable (Pengo teeth only: 40° angle on flat side or 50° angle on sloped side)	
Number of dirt auger teeth	6" - 2 teeth, 9" - 2 or 4 teeth, 12" - 4 teeth, 15" - 5 teeth, 18" - 6 teeth, & 24" - 8 teeth	
Dirt auger pilot	Cast steel with two or three drill points	
Cat. III torque limiter driveline	Available	Available
Accessories		
Alignment Handle	Available	Available
Hydraulic Down Pressure Kit	Available	Available
Storage stands	Available	Available
Auger extensions	Available in 7" & 14" (17.8 cm & 35.6 cm) lengths	
Bolt-on rock head diameters	Available in 6", 9", 12", 15", or 18" (15.2 cm, 22.9 cm, 30.5 cm, 38.1 cm, & 45.7 cm)	

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PD10 Model

Features	Benefits
Shorter yoke and boom tubing	Allows Post Hole Digger to be used on sub compact utility tractors (i.e. BX Kubota).
2 7/8" Yoke	3/16"+ Wall thickness for strength.
Auger length	30" Auger.
Auger flighting	1/4" Flighting, Semi-double flight.
Replaceable hardened steel points on auger	Hardened points will last longer than non-hardened. Points can easily be replaced when worn or damaged. Cast steel auger fishtail tips.
Gearbox horsepower rating	15 to 30 Horsepower.
2" Output shaft	2" tackles the torque loads that can be transmitted from hard ground. Fairly standard size for the industry, fits many competitive augers.
3 Year gearbox warranty	Shows our confidence in the gearbox integrity.
Large selection of augers	Variety of Dirt Auger sizes and styles to suit many applications.
Down Pressure Kit (optional)	Allows additional force to be supplied, hydraulically, to the beam to help force digger into the ground.
Alignment handle (optional)	Helps guide the auger from the tractor seat.
Post Hole Digger Stand (optional)	Bracket mounted to bottom of gearbox can incorporate a Post Hole Digger stand. This allows operator to hook up and unhook from the tractor more safely. Stand supports the unit and will store the unit when it is not on the tractor.

PD15 Model

Features	Benefits
2 7/8" Yoke	3/16"+ Wall thickness for strength.
Auger length	48" Auger.
Auger flighting	1/4" Flighting, Semi-double flight.
Replaceable hardened steel points on auger	Hardened points will last longer than non-hardened. Points can easily be replaced when worn or damaged. Cast steel auger fishtail tips.
Gearbox horsepower rating	20 to 40 Horsepower.
2" Output shaft	2" tackles the torque loads that can be transmitted from hard ground. Fairly standard size for the industry, fits many competitive augers.
5 Year gearbox warranty	Shows our confidence in the gearbox integrity.
Large selection of augers	Variety of Dirt Auger and Rock Auger sizes and styles to suit many applications.
Large selection of Bolt-on Rock Heads (accessory)	All sizes of Land Pride PD15 Pengo Dirt Augers can be converted to Rock Augers with this accessory.
Down Pressure Kit (optional)	Allows additional force to be supplied, hydraulically, to the beam to help force digger into the ground.
Alignment handle (optional)	Helps guide the auger from the tractor seat.
Post Hole Digger Stand (optional)	Bracket mounted to bottom of gearbox can incorporate a Post Hole Digger stand. This allows operator to hook up and unhook from the tractor more safely. Stand supports the unit and will store the unit when it is not on the tractor.



PD25 & PD35 Model

Features	Benefits
Cat. 1 or 2 Hitch	Fits a wider variety of tractors by fitting Cat. 1 & 2.
2 7/8" Yoke	3/16"+ Wall thickness for strength.
3 1/2" Reinforced boom	7/32" Wall with 3/8" x 2" bar for strength.
Auger flighting	Constant thickness on 1/4" flighting vs. tapered.
Replaceable hardened steel points on auger	Hardened points will last longer than non-hardened. Points can easily be replaced when worn or damaged. Cast steel auger fishtail tips.
Gearbox horsepower rating	25 Series: 25-55 horsepower and 35 Series: 30-75 horsepower.
2" Output shaft	Fits most other auger manufacturers for users who don't need a new auger.
5 Year gearbox warranty	Shows our confidence in the gearbox integrity.
Cat. 3 driveline with shear-pin or optional radial pin clutch	Protection against obstructions. Radial pin works like a 'ratchet' to continually put driving force on the auger in tough conditions.
Large selection of augers	Variety of Dirt Auger and Rock Auger sizes and styles to suit many applications.
Large selection of bolt-on rock heads (accessory)	All sizes of Land Pride PD25 and PD35 Pengo Dirt Augers can be converted to Rock Augers with this accessory.
Alignment handle (optional)	Guide the auger from the tractor seat.
Down Pressure Kit (optional)	Allows additional force to be supplied, hydraulically, to the beam to help force digger into the ground.
Post Hole Digger Stand (optional)	Bracket mounted to bottom of gearbox can incorporate a Post Hole Digger stand. This allows operator to hook up and unhook from the tractor more safely. Stand supports the unit and will store the unit when it is not on the tractor.

PD Support Stand - Accessory

Features	Benefits
Fits existing and current Land Pride Post Hole Diggers	Can be purchased for older models.
Quick disconnect	Easy on and off design.
3 Point hook-up	Design makes it possible to back up to the Post Hole Digger with a tractor and hook up and disconnect with ease and safety.
Storage capabilities	Digger stand allows the Post Hole Digger to be stored safely and efficiently. The stand allows easy hook up in future use.



Troubleshooting Chart

Problem	Cause	Solution
Auger will not dig	Teeth are dull.	Sharpen or replace teeth.
	Auger is turning too fast and bouncing.	Reduce power take-off speed. Never exceed 300 rpm.
	Auger is encountering rocks, roots, or other obstructions.	Lift auger from hole and remove obstruction or change location.
	Driveline torque limiter is not engaging.	Have torque limiter serviced.
Auger digs so far, but will not dig deeper	Driveline assembly “ Bottoms Out ” and does not allow auger to lower any further.	Remove auger from digger and lower digger for inspection. Gearbox should lower to the ground; if not, Driveline assembly may need to be shortened. Maintain 1/2 overlap of driveline tubes.
	Soil could have hardpan layer below surface.	Use optional Down Pressure Kit to assist pushing auger into the ground.
Post Hole Digger sways side to side	No sway bars or sway blocks on the tractor.	Add stabilizers to lower 3-point lift arms.
	Lift arms not adjusted evenly.	Adjust lift arms to be level with each other.
	Post Hole Digger is mounted with excessive looseness in the hitch connecting pins.	Use proper size pins or bushings.
Auger is bent and/or auger flighting is bent	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 the 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 the tractor. While digging, move the tractor in small increments to keep the hole straight.
	Auger is encountering rock, roots, or other obstructions.	Lift auger from hole and remove obstruction or change location.
	Shearbolt has been replaced with a harder bolt.	PD10: Use M8 grade 8.8 metric shear-bolt. PD15, 25 & 35: Use 3/8" grade 5 shear-bolt.
	Driveline torque limiter is seized up.	Have torque limiter serviced.
Auger screws itself into the ground	Operator did not lower 3-point hitch to the ground slowly.	Lower 3-point hitch slowly to ground.
	Faulty tractor hydraulics for the 3-point hitch.	Repair hydraulic for the 3-point hitch.
	Tractor is too small to handle the Post Hole Digger.	Mount Post Hole Digger on a larger tractor.
Driveline comes off input shaft of gearbox	Shearbolt is broken and retainer screw is missing in driveline yoke at the gearbox input shaft.	Replace shearbolt and retainer screw with jamb nut at the driveline yoke.
Driveline is damaged	Raising auger too high with power take-off engaged causing excessive joint operating angle.	Stop driveline rotation before raising auger too high.
	Auger swings while moving from hole to hole with power take-off engaged causing excessive power take-off joint operating angle.	Stop driveline rotation before moving the tractor.
	Having to raise the auger with an extension too high in order to remove it from the hole causing excessive joint operating angle.	Stop driveline rotation while auger is still in the hole and before the Post Hole Digger is too high to cause drive line damage.
	Shearbolt has been replaced with a harder bolt.	PD10: Use M8 grade 8.8 metric shear-bolt. PD15, 25 & 35: Use 3/8" grade 5 shear-bolt.
	Driveline has not been properly lubricated.	Lubricate driveline per instructions.
	power take-off was engaged while the tractor engine was running at high rpm.	Slow engine down to an idle before engaging power take-off.
	Driveline contacts ground before hole is completely dug.	Pin boom to yoke per “ Depth Adjustment ” instructions. May Need to use an extension.
	Operating power take-off at high rpm.	Never Run power take-off above 300 rpm.
	Driveline torque limiter is seized up.	Have torque limiter serviced.
Gearbox is damaged	No oil in Gearbox.	Check oil level in gearbox per instructions.
	Oil not changed per instructions.	Change oil per instructions.
	Shearbolt has been replaced with a harder bolt.	PD10: Use M8 grade 8.8 metric shear-bolt. PD15, 25 & 35: Use 3/8" grade 5 shear-bolt.
	Driveline torque limiter is seized up.	Have torque limiter serviced.



Torque Values Chart for Common Bolt Sizes													
Bolt Size (inches)	Bolt Head Identification						Bolt Size (Metric)	Bolt Head Identification					
													
	Grade 2	Grade 5	Grade 8					Class 5.8	Class 8.8	Class 10.9			
in-tpi ¹	N · m ²	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	215	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 = nominal thread diameter in inches-threads per inch ² N · m = newton-meters ³ ft-lb= foot pounds ⁴ mm x pitch = nominal thread diameter in millimeters x thread pitch						
1-3/8" - 6	890	655	1990	1470	3230	2380							
1-3/8" - 12	1010	745	2270	1670	3680	2710							
1-1/2" - 6	1180	870	2640	1950	4290	3160							
1-1/2" - 12	1330	980	2970	2190	4820	3560							
Torque tolerance + 0%, -15% of torquing values. Unless otherwise specified use torque values listed above. All locknuts or lubricated fasteners: Use 75% of torque value. (i.e. 1/2"-13 GR5 = 76 ft-lb; 75% of 76 or .75 x 76 = 57 ft-lb)													



Warranty

Land Pride warrants to the original purchaser that this Land Pride product will be free from defects in material and workmanship beginning on the date of purchase by the end user according to the following schedule when used as intended and under normal service and conditions for personal use.

Overall Unit and Driveline: One year Parts and Labor

Auger: One year (Somewhat considered a wear item.)

Gearbox: PD15, 25 & 35 Series: 5 years Parts and Labor

Gearbox: PD10 Series: 3 years Parts and Labor

This Warranty is limited to the repair or replacement of any defective part by Land Pride and the installation by the dealer of any such replacement part, and does not cover common wear items. Land Pride reserves the right to inspect any equipment or parts which are claimed to have been defective in material or workmanship.

This Warranty does not apply to any part or product which in Land Pride's judgment shall have been misused or damaged by accident or lack of normal maintenance or care, or which has been repaired or altered in a way which adversely affects its performance or reliability, or which has been used for a purpose for which the product is not designed. Misuse also specifically includes failure to properly maintain oil levels, grease points, and driveline shafts.

Claims under this Warranty should be made to the dealer which originally sold the product and all warranty adjustments must be made through an authorized Land Pride dealer. Land Pride reserves the right to make changes in materials or design of the product at any time without notice.

This Warranty shall not be interpreted to render Land Pride liable for damages of any kind, direct, consequential, or contingent to property. Furthermore, Land Pride shall not be liable for damages resulting from any cause beyond its reasonable control. This Warranty does not extend to loss of crops, any expense or loss for labor, supplies, rental machinery or for any other reason.

No other warranty of any kind whatsoever, express or implied, is made with respect to this sale; and all implied warranties of merchantability and fitness for a particular purpose which exceed the obligations set forth in this written warranty are hereby disclaimed and excluded from this sale.

This Warranty is not valid unless registered with Land Pride within 30 days from the date of original purchase.

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 _____





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