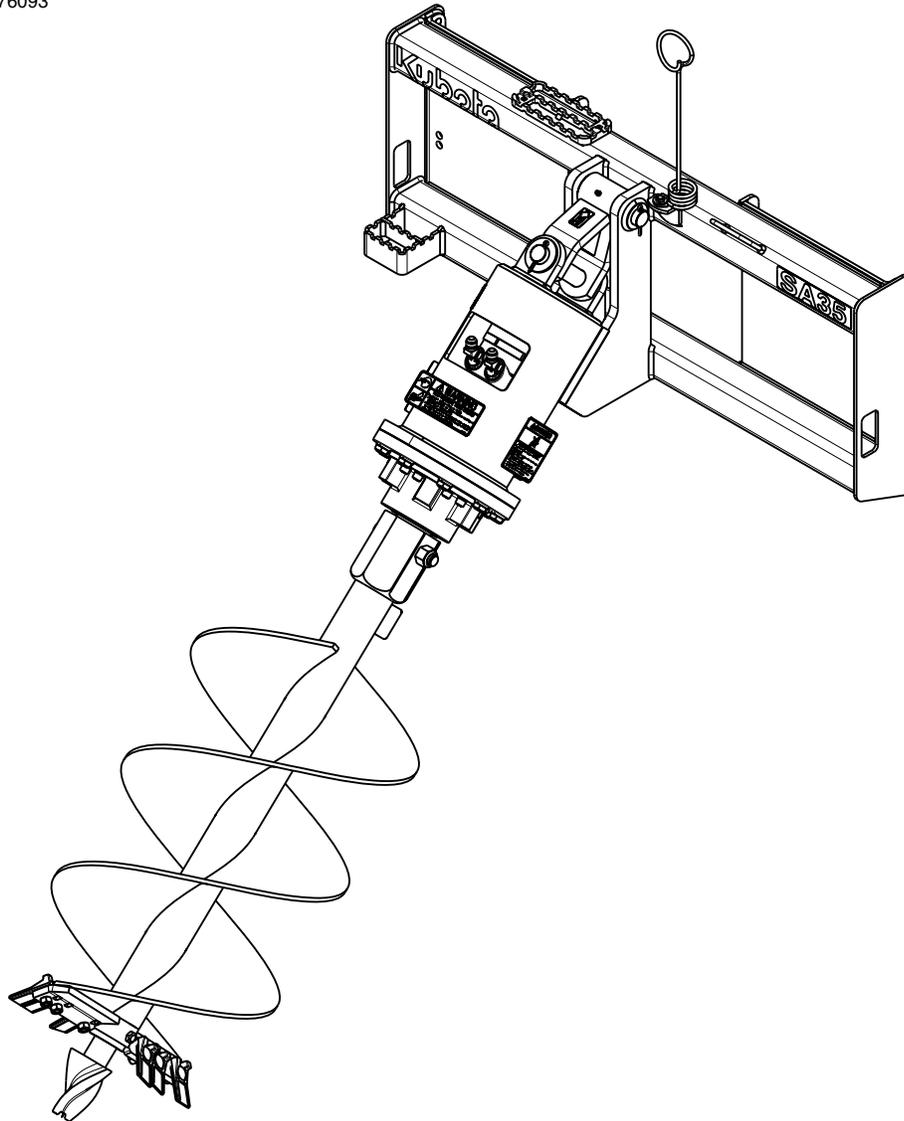


# Hydraulic Post Hole Digger

AP-SA35

76093



## 317-093MK 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 Language, please see your Kubota dealer.*

# Kubota®

## 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.

|                        |                   |
|------------------------|-------------------|
| <b>Model Number</b>    |                   |
| <b>Serial Number</b>   |                   |
| <b>Machine Height</b>  |                   |
| <b>Machine Length</b>  |                   |
| <b>Machine Width</b>   |                   |
| <b>Machine Weight</b>  |                   |
| <b>Delivery Date</b>   |                   |
| <b>First Operation</b> |                   |
| <b>Accessories</b>     | <hr/> <hr/> <hr/> |

## Dealer Contact Information

**Name:** \_\_\_\_\_

**Street:** \_\_\_\_\_

**City/State:** \_\_\_\_\_

**Telephone:** \_\_\_\_\_

**Email:** \_\_\_\_\_

|   |
|---|
| California Proposition 65   |
|  <b>WARNING:</b> Handling passenger or off-highway motor vehicle parts can expose you to chemicals such as phthalates and lead, which can cause cancer and reproductive harm. To minimize exposure, service the vehicle in a well-ventilated area, wear gloves, and wash your hands. For more information see <a href="http://www.P65Warnings.ca.gov/motor-vehicle-parts">www.P65Warnings.ca.gov/motor-vehicle-parts</a> . |

|   |           |   |           |
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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. Scan the QR code and take a picture.



### **Dealer QR Locator**

The QR code to the left will link you to available dealers for Kubota 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 before operating the power machine and this attachment.

- ▲ 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 your ability to safely and properly operate the equipment.
- ▲ Operator should be familiar with all functions of the tractor/skid steer and attachment and be able to handle emergencies quickly.
- ▲ Make sure all guards and shields appropriate for the operation are in place and secured before operating attachment.
- ▲ Keep all bystanders away from equipment and work area.
- ▲ Start tractor/skid steer from the driver's seat with steering levers and hydraulic controls in neutral.
- ▲ Operate tractor/skid steer and controls from the driver's seat only.
- ▲ Never dismount from a moving tractor/skid steer or leave machine unattended with engine running.
- ▲ Do not allow anyone to stand between the attachment and tractor/skid steer while connecting to the attachment.
- ▲ Keep hands, feet, and clothing away from power-driven parts.
- ▲ While transporting and operating equipment, watch out for objects overhead and along the sides such as fences, trees, buildings, wires, etc.
- ▲ Store attachment in an area where children normally do not play. When needed, secure attachment 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 attachments 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 attachment and skid steer/track loader down if children enter the work area.
- ▲ Never carry children on the power machine or attachment. 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 attachment.
- ▲ Use extra caution when backing up. Before the power machine starts to move, look down and behind to make sure the area is clear.

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

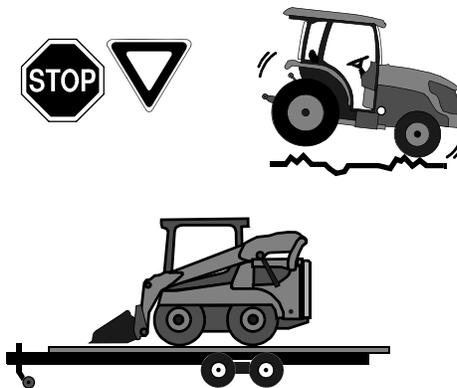
### Dig Safe - Avoid Underground Utilities

- ▲ USA: Call 811  
CAN:  
<http://www.clickbeforeyoudig.com>
- ▲ 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.



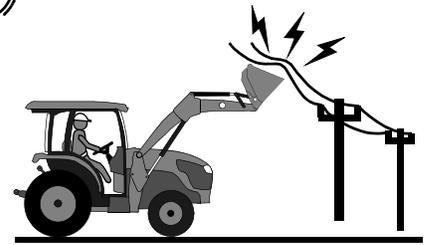
### Towing Safely

- ▲ Comply with federal, state, and local laws.
- ▲ Use towing vehicle and trailer of adequate size and capacity. Secure equipment towed on a trailer with chocks, tie downs, and chains.
- ▲ **IMPORTANT:** Do not tow a load that is more than double the weight of the vehicle towing the load.
- ▲ Sudden braking can cause a towed trailer to swerve unexpectedly. Reduce speed if trailer is not equipped with brakes.



### Transport Safely

- ▲ Comply with federal, state, and local laws.
- ▲ Avoid contact with any overhead utility lines or electrically charged conductors.
- ▲ Always drive with attachment on the end of the loader arms low to the ground.
- ▲ Follow recommendations in the power machine Operator's Manual when driving uphill or downhill and when parking on an incline.
- ▲ Never travel at a speed which does not allow adequate control of the load, steering, and stopping. Some rough terrains require a slower speed.



### 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 attachment 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 attachment 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 equipment.
- ▲ Inspect all parts. Make certain that parts are in good condition & installed properly.
- ▲ Replace parts on this attachment with genuine Kubota parts only. Do not alter this attachment in a way which will adversely affect its performance.
- ▲ Do not grease or oil attachment 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 attachment are properly collected and disposed of.
- ▲ Remove all tools and unused parts before operation.



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 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.
- ▲ Flashing warning lights and turn signals are recommended whenever driving on public roads.
- ▲ For tractors and other agriculture equipment, a Slow Moving Vehicle (SMV) sign is required when traveling 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 the operator against serious injury or death from falling and/or machine overturn.

### Keep Riders Off Machinery

- ▲ Never carry riders on the power machine or attachment.
- ▲ 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 power machine or attachment to lift or transport riders.

These 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.

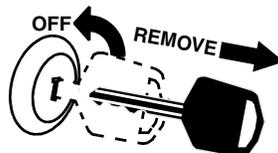
### Handle Chemicals Properly

- ▲ 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.



### Tractor Shutdown & Storage

- ▲ Reduce engine speed and shut-off all power to the attachment.
- ▲ Park on solid, level ground and lower attachment 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 pressures.
- ▲ 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.



### Skid Steer Shutdown And Storage

- ▲ Reduce engine speed and shut-off all power to the attachment.
- ▲ Park on solid, level ground and lower attachment until it is flat on the ground or support blocks.
- ▲ Turn off engine. Do not remove ignition key at this time.
- ▲ Turn ignition key to the "RUN" position. Relieve all hydraulic pressure by moving both joysticks.
- ▲ Turn ignition key to Off and remove to prevent unauthorized starting.
- ▲ If included, raise seat bar and move controls until both lock.
- ▲ 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 skid steer.



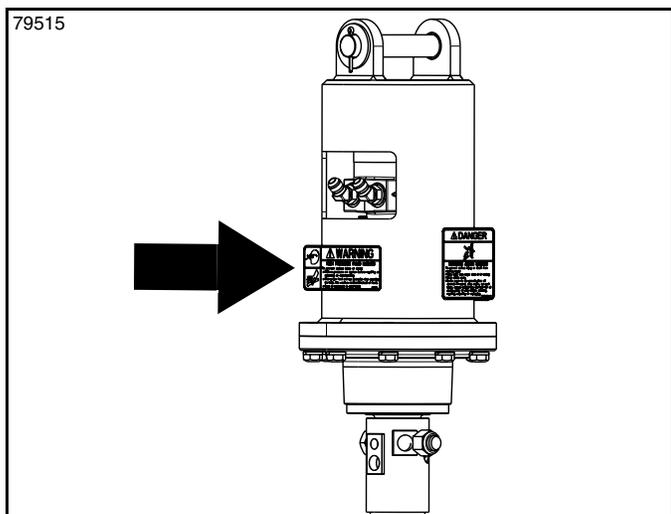
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### Safety Labels

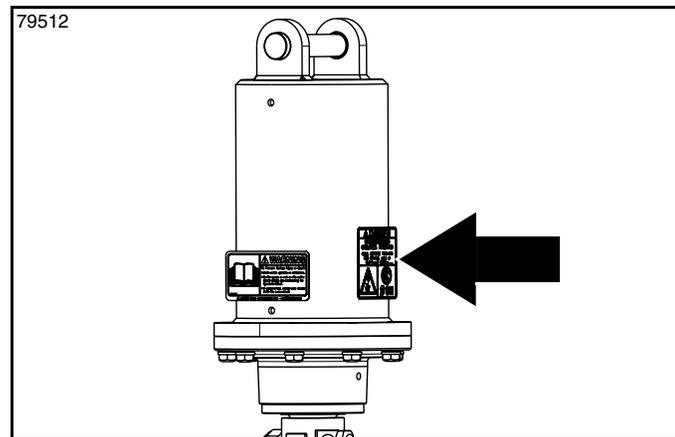
Your Post Hole Digger comes equipped with all safety labels in place. They are designed to help you safely operate your attachment. Read and follow their directions.

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 Kubota dealer. To find your nearest dealer, visit our dealer locator at [www.landpride.com](http://www.landpride.com).
3. Some new equipment installed during repair requires safety labels to be affixed to the replaced component as specified by Kubota. When ordering new components make sure the correct safety labels are included in the request.

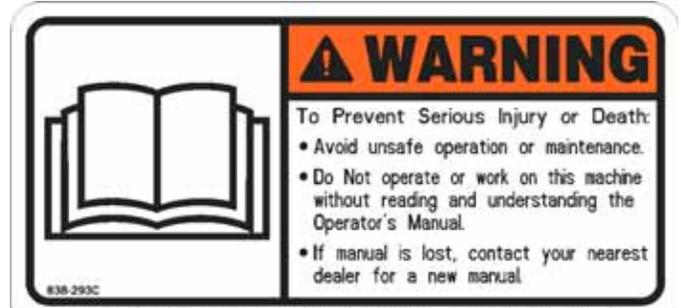
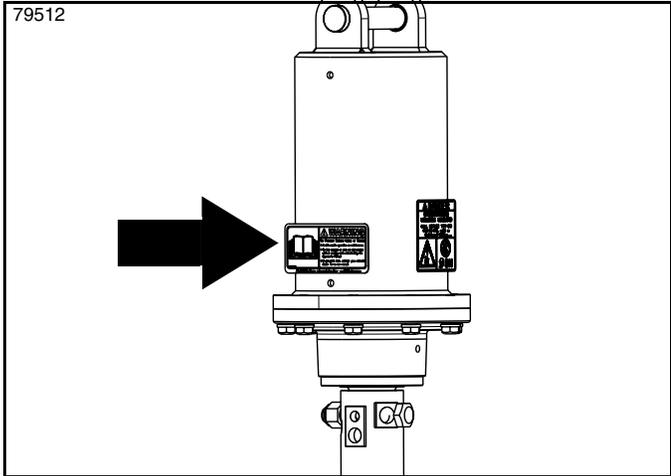
4. Refer to this section for proper label placement. To install new labels:
  - a. Clean surface area where label is to be placed.
  - b. Spray soapy water onto the cleaned area.
  - c. Peel backing from label and press label firmly onto the surface.
  - d. Squeeze out air bubbles with edge of a credit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



**838-094C**  
Warning: High Pressure Fluid Hazard  
1 Place



**844-194C**  
Danger: Underground Utilities Hazard  
1 Place

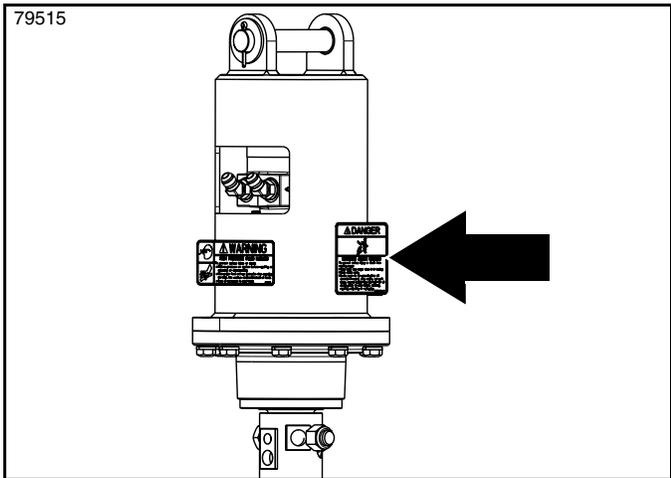


**838-293C**

Warning: Read Manual

1 Place

70243

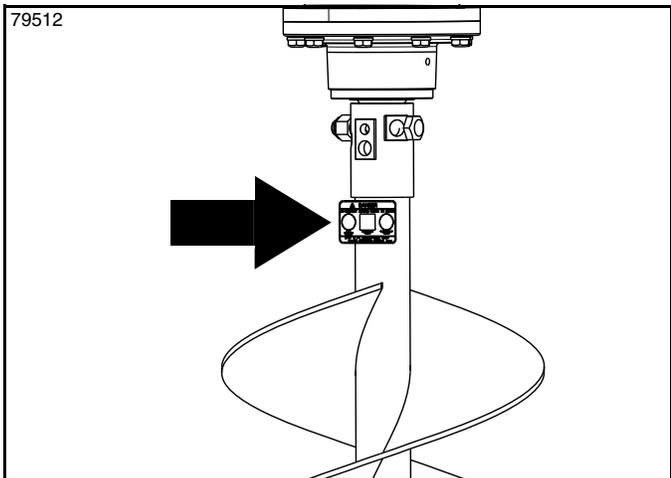


**838-294C**

Danger: Rotating Auger Hazard

1 Place

70244



**135500**

Danger:  
Dust Inhalation, Underground, & Entanglement Hazards

1 Place

70246

## Introduction

Kubota 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

Kubota offers a complete line of Post Hole Diggers designed to meet a wide range of customer needs and applications. The hydraulically driven SA35 Series Post Hole Diggers meet the needs of most owners and operator's having Skid Steers or Tractors with 10 to 30 gpm (37.9 to 113.6 lpm) hydraulic flow capacity at 1500 to 3500 psi (10.34 to 24.13 MPa) and if attaching to a tractor, have a skid steer adapter hitch on the tractor loader. Depending on your specific needs, our Pengo brand augers are offered in single, semi-double, and double flighting configuration. These augers come in 48" (1.22 m) length with a choice of 9" (22.9 cm), 12" (30.5 cm), 15" (38.1 cm), 18" (45.7 cm), 24" (61 cm), 30" (76.2 cm) & 36" (91.4 cm) flighting and with a 3-Point cast steel tip for quick piloting and faster hole starting. The ability to reverse the auger greatly reduces the strain on the auger and equipment when extracting the digger from the ground.

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

See "**Specifications & Capacities**" on page 23 and "**Features & Benefits**" on page 24 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](http://www.landpride.com)

## Terminology

"Right" or "Left" as used in this manual is determined by the direction the operator faces while sitting looking forward in the operator's seat unless otherwise stated.

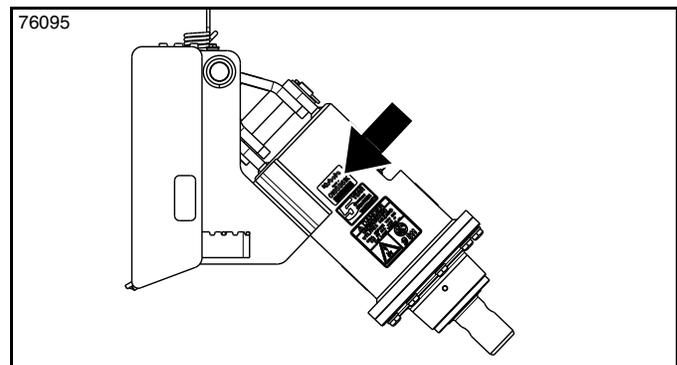
## Owner Assistance

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 Kubota/Land Pride and should only be replaced with genuine Kubota parts. Contact a Kubota dealer if customer service or repair parts are required. Your Kubota dealer has trained personnel, repair parts, and equipment needed to service the attachment.

## 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 correspondence with your Kubota dealer. For location of your serial number plate, see Figure 1.



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 attachment 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:

**Kubota by Land Pride  
Service Department**

**1525 East North Street  
P.O. Box 5060  
Salina, Ks. 67402-5060**

E-mail address  
[lpSERVICE@landpride.com](mailto:lpSERVICE@landpride.com)

Section 1: Assembly & Set-up

**Skid Steer/Tractor Requirements**

This Post Hole Digger is designed to attach to skid steers, track loaders, or tractor front-end loaders with a skid steer type quick attach hitch that meets SAE with the following requirements:

- SAE Lift Capacity . . . . . 1200 lbs (544.3 kg). min.
- Hydraulic Pressure Rating. . . 1500 - 3500 PSI (10.34 - 24.13 MPa).
- Hydraulic Flow Rate . . . 10 - 30 gpm (37.9 - 113.6 lpm).
- Hydraulic Connections . . . . 2 - Hydraulic outlets min.

**Power Machine Weight**

Machine horsepower and weight must be capable of controlling the Post Hole Digger under all operating conditions. Light weight machines must not be used.



**WARNING**

*To avoid serious injury or death:*

*Lightweight power machines may need weight added to the rear to maintain steering control and prevent forward tipping or side tipping caused by a heavy front load or lifting an auger stuck in the ground. Consult your power machine Operator’s Manual to determine proper weight requirements and maximum weight limitations.*

**Torque Requirements**

Refer to “**Torque Values Chart**” on page 26 to determine correct torque values for bolts when tightening hardware.

**Pre-Assembly Checklist**

| ✓                        | Check   | Page    |
|--------------------------|---|---------|
| <input type="checkbox"/> | Have a forklift or hoist with properly sized chains and safety stands capable of lifting and supporting the equipment on hand.  |         |
| <input type="checkbox"/> | Have a minimum of 2 people on hand while assembling.  |         |
| <input type="checkbox"/> | Make sure all major components and loose parts are shipped with the machine. Refer to this manual if unsure.  |         |
| <input type="checkbox"/> | Make sure working parts move freely, bolts are tight and cotter pins are spread. Refer to this Operator’s Manual.   |         |
| <input type="checkbox"/> | Double check to make sure all fasteners and pins are installed correctly. Use the Parts Manual if unsure.<br><br><b>NOTE:</b> Small hardware shipped loose from the factory is contained in a bag. Larger parts are attached to the shipping crate. All factory assembled hardware should be installed in their correct location. Remember their location if removed. Keep removed parts separated. |         |
| <input type="checkbox"/> | Make sure all safety labels are correctly located and legible. Replace if damaged.  | Page 6  |
| <input type="checkbox"/> | Make sure all grease fittings are in place and lubricated. Refer Lubrication Points.  | Page 22 |
| <input type="checkbox"/> | Check fluid level in the gearbox. Refer to Gear Lube Fluid Level.   | Page 22 |

**Power Machine Shutdown Procedure**

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

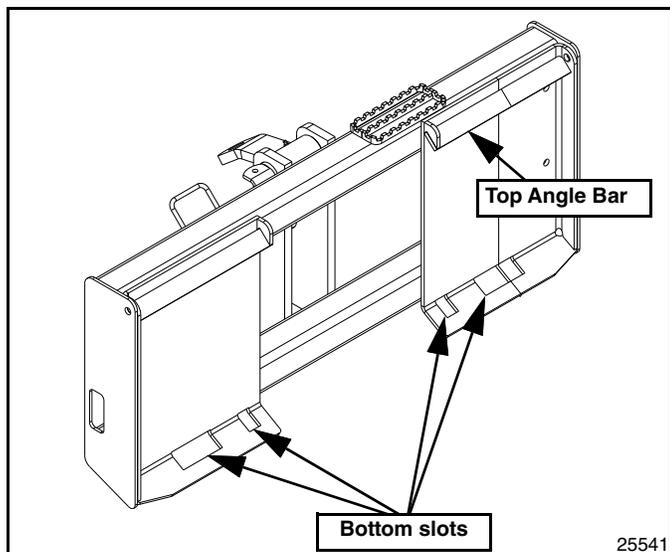
1. Reduce engine speed and shut-off all power to the attachment.
2. Park on solid, level ground and lower attachment until it is flat on the ground or on non-concrete support blocks.

**Skid Steer and Track Loader**

- a. Turn off engine. Do not remove ignition key at this time.
- b. Turn ignition key to the “RUN” position. Relieve all hydraulic pressure by moving both joysticks.
- c. Turn ignition key off and remove to prevent unauthorized starting.
- d. If included, raise seat bar and move controls until both lock.

**Tractor**

- a. Put tractor in park or set park brake.
- b. Turn off engine, and remove ignition key to prevent unauthorized starting.
- c. Relieve all hydraulic pressures.
3. Wait for all components to come to a complete stop before leaving the operator’s seat.
4. Use steps, grab-handles, and anti-slip surfaces when stepping on and off the power machine.



Post Hole Digger Hitch Plate  
Figure 1-1

## Hook-Up Post Hole Digger

Refer to Figure 1-1:

### DANGER

To avoid serious injury or death:

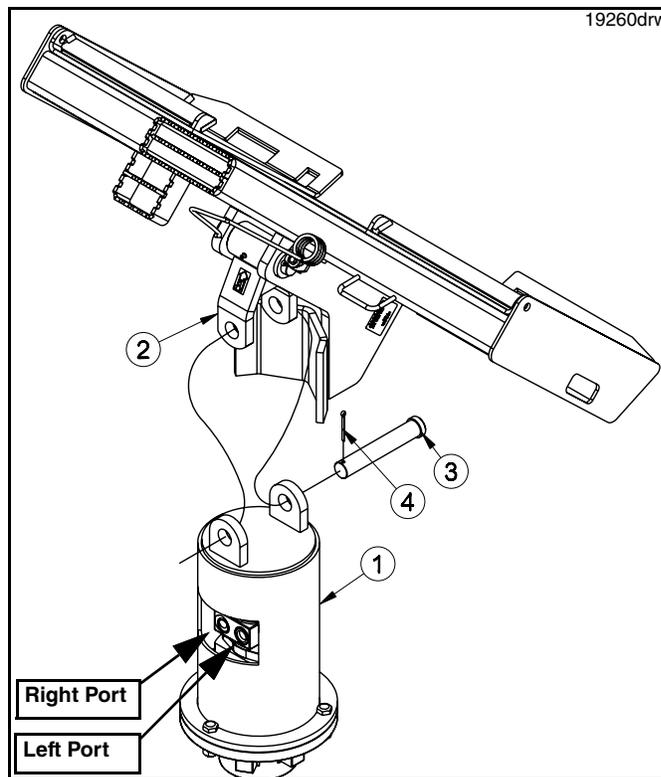
A crushing hazard exists when connecting and disconnecting the attachment. Do not allow anyone to stand between attachment and power machine while approaching or backing away from the attachment. Do not operate hydraulic controls while someone is near the power machine and/or attachment.

### WARNING

To avoid serious injury or death:

Check hitch fit-up frequently. An improper fit-up can result in the attachment falling from the loader hitch plate.

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



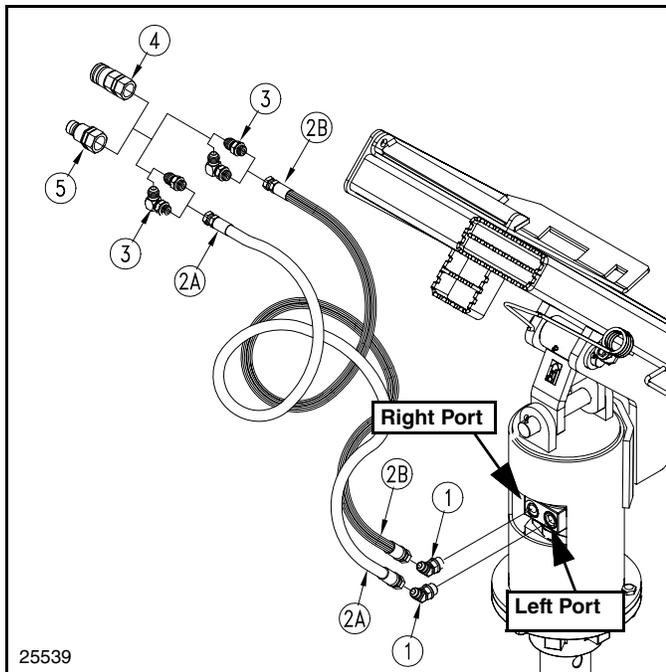
Motor/Gearbox Assembly  
Figure 1-2

## Motor/Gearbox Assembly

Refer to Figure 1-2:

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

Section 1: Assembly & Set-up



Hose Assembly  
Figure 1-3

Hydraulic Hose Assembly

Refer to Figure 1-3:

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

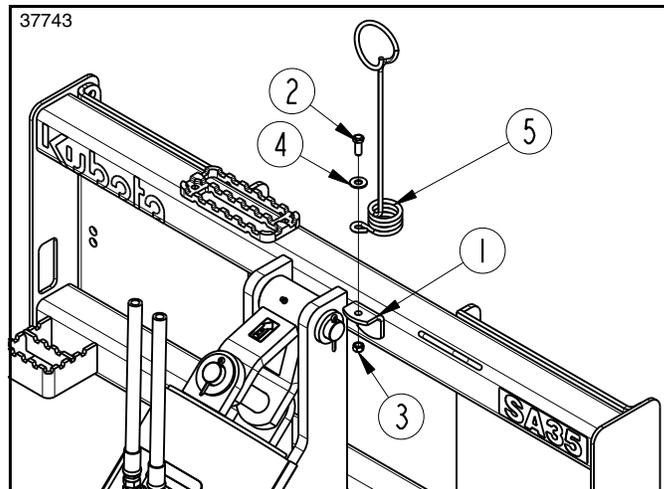
**NOTE:** Provided are four fittings (#3). Two are 90° elbows and two are straight adapters. Customer may attach the fittings that best suits his fit-up.

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

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

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

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



Spring Hose Loop Assembly  
Figure 1-4

Spring Hose Loop Assembly

Refer to Figure 1-4:

**NOTE:** Spring Hose Loop may not be used on some Skid Steer hook-ups. For additional information, see step 1 under "Hose Hook-up" on page 11.

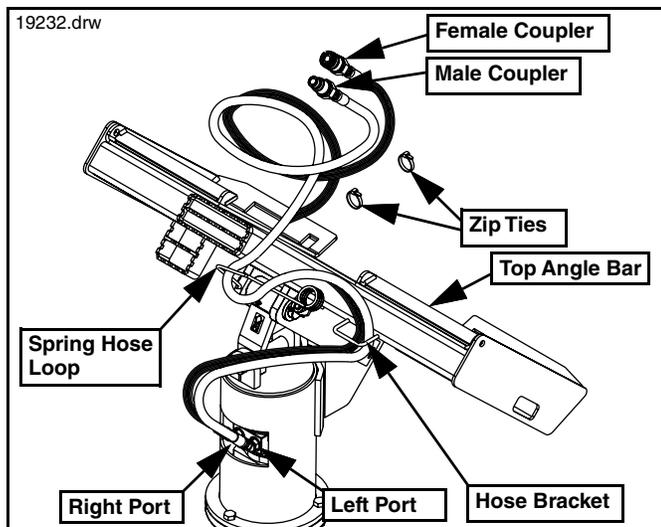
1. Attach spring hose loop (#5) to hitch plate (#1) with 3/8"-16 x 1" GR5 cap screw (#2), flat washer (#4), and hex locknut (#3).
2. Torque nut to the correct torque.

Hose Hook-up

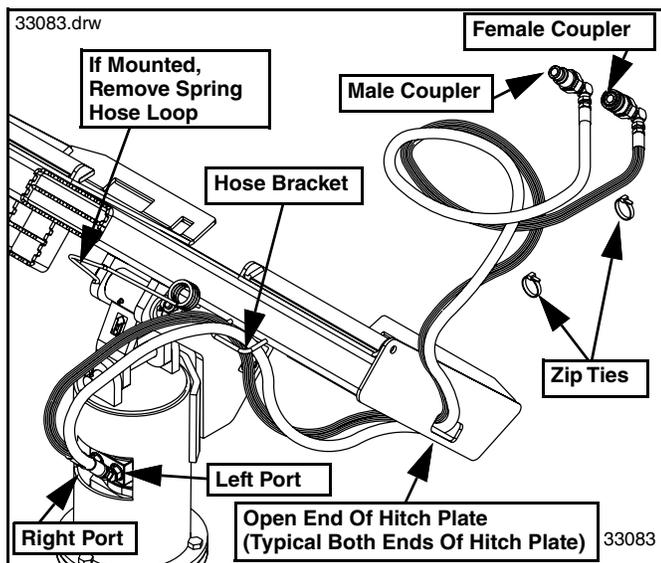
**WARNING**

To avoid serious injury or death:

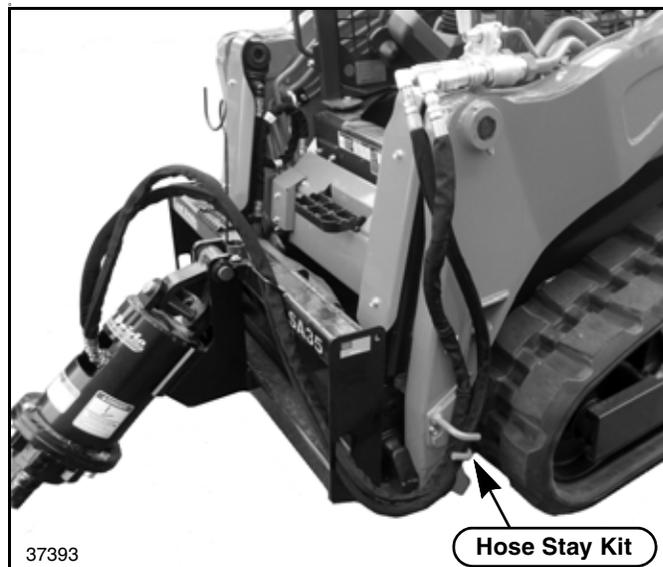
- Make sure hydraulic hoses are properly routed without twists to prevent them from becoming stretched, pinched, or kinked. A damaged hydraulic hose can burst and leak hydraulic fluid.
- This attachment has a 3500 psi (24.13 mPa) maximum hydraulic pressure rating. Make sure your powered machine's hydraulic pressure to this attachment does not exceed 3500 psi (24.13 mPa). Exceeding this rating can result in equipment damage, serious injury, or death.
- Hydraulic fluid under high pressure will penetrate the skin or eyes causing serious injury. Wear protective gloves and safety glasses or goggles when working with hydraulics. 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.



**Option 1 Hose Routing**  
Figure 1-5



**Option 2 Hose Routing**  
Figure 1-6



**Kubota Hose Stay Kit**  
Figure 1-7

**NOTE:** If attaching to a Kubota skid steer or track loader, route hydraulic hoses through Kubota's Hose Stay as shown in Figure 1-7. Purchase **Hose Stay #S6763** through your nearest Kubota dealer. Refer to your power machine Operator's Manual for more instructions.

1. Route hydraulic hoses through the most convenient path to access your power equipment couplers. See Options 1 & 2 below. Use Option 2 if attaching to a Kubota SVL skid steer.

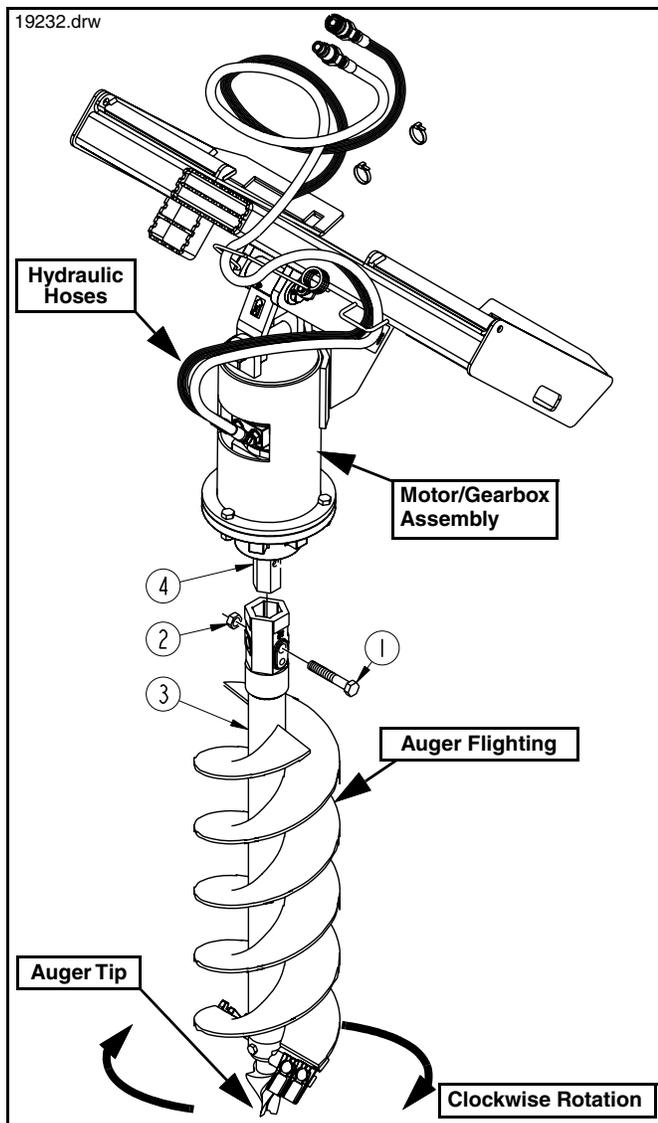
**Option 1 - Refer to Figure 1-5:**

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

**Option 2 - Refer to Figure 1-6:**

- a. If mounted, remove spring hose loop from hitch plate to facilitate accessing Skid Steer cab.
- b. Thread hydraulic hoses down through hose bracket and out through open end of hitch plate.
- c. If hydraulic hose with coupler does not fit through hole on frame, remove coupler from hose, put hose through and reinstall coupler.

2. Clean quick disconnect couplers of dirt and connect male and female couplers to the Skid Steer/Tractor high pressure outlets. Make sure they have fully engaged. If they have not, check the followings:
  - Make sure couplers are same size and type.
  - Make sure hydraulic pressure has been released.
3. Make sure hoses are kept away from all pinch points and then zip tie hoses together as needed. Two zip ties are provided for this purpose.
4. Operate Skid Steer/Tractor to check auger rotation. The auger should rotate clockwise when looking down from above. If auger rotates counterclockwise, switch male and female couplers on the hydraulic hoses and then reconnect hoses to the outlets.
5. Also see Hydraulic Hook-up instructions in your Skid Steer/Tractor Operator's Manual.



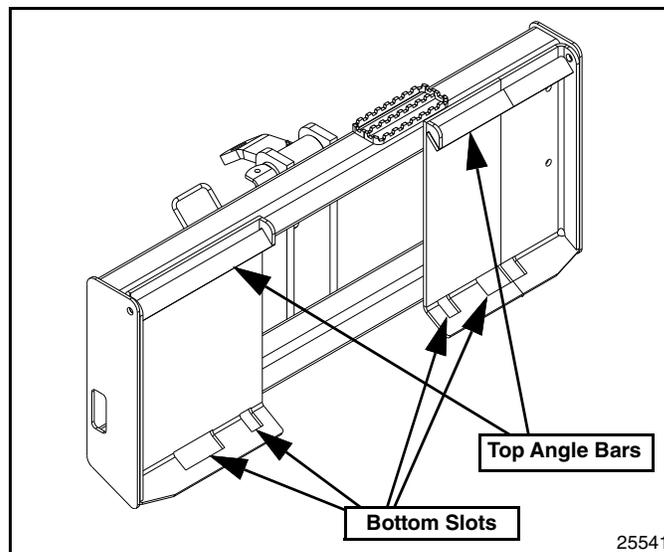
**Auger Screw Assembly**  
Figure 1-8

### Auger Assembly

Refer to Figure 1-8:

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

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



**Post Hole Digger Hitch Plate**  
Figure 1-9

### Unhook Post Hole Digger

Refer to Figure 1-8 & Figure 1-9:

#### **DANGER**

To avoid serious injury or death:

A crushing hazard exists when connecting and disconnecting the attachment. Do not allow anyone to stand between attachment and power machine while approaching or backing away from the attachment. Do not operate hydraulic controls while someone is near the power machine and/or attachment.

1. Rotate top of tilt arms back and lower Skid Steer/Tractor loader arms down until auger tip touches the ground.
2. Slowly back Skid Steer/Tractor up while continuing to lower loader arms down until auger flighting and auger hitch plate are resting on the ground.
3. Always shut power machine down using "Power Machine Shutdown Procedure" on page 9 before dismantling the power machine.
4. Disconnect hydraulic hoses. It may be necessary to release hydraulic pressure in the lines before hoses will disconnect from the loader.
5. Pull lock handles up on skid steer/loader hitch plate to remove lock pins from the bottom slots in the auger hitch plate.
6. Restart Skid Steer/Tractor and slowly rotate tilt arms forward while lowering loader arms down until skid steer/loader hitch plate and top angle bars on the auger hitch plate have separated.
7. Back slowly away from the auger hitch plate making sure the skid steer/loader hitch plate is clear and does not interfere with unit.
8. Raise loader arms to a safe traveling height.

Section 2: Operating Procedures

**Operator’s Responsibilities**

Hazard control and accident prevention are dependent upon the awareness, concern, prudence, and proper training involved in the operation, transport, storage, and maintenance of the Skid Steer Auger. Therefore, it is absolutely essential that no one operates the auger 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  | Ref. |
|---|--|------|
|   | 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    |
|   | Make sure there are no hydraulic leaks on the unit. See “Avoid High Pressure Fluids Hazard”. | 3    |
|   | Read and follow hook-up and preparation. Refer to “Section 1: Assembly & Set-up”.            | 9    |
|   | Read and follow all operating procedures. Refer to “Section 2: Operating Procedures”.        | 14   |
|   | Read and follow all Maintenance Instructions. See “Section 4: Maintenance & Lubrication”.    | 21   |
|   | Read and follow all Lubrication Instructions. Refer to “Lubrication Points”.                 | 22   |
|   | Make sure all gearboxes are properly lubricated. Refer to Gearbox lubrication.               | 22   |
|   | Check auger screw initially and periodically for loose hardware. See “Torque Values Chart”.  | 26   |

- *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. Obstacles such as landscape fabric, wire, etc can catch in the auger and pull a bystander into the auger. Hand digging may be necessary to verify the presence of underground materials.*
- *Keep attachment, loader arms, and/or load away from overhead electrical power lines. Place an orange warning sign under overhead lines indicating type of danger above.*
- *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 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.*
- *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.*
- *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 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 go near or under raised loader arms without first securing loader arms in the raised position with an approved lift-arm support.*
- *Use the skid steer’s alternate emergency exit when exit passage through the front is blocked.*
- *Do not use hand or foot controls for handholds or steps. Using them for handholds or steps can activate the controls.*
- *Keep mud, snow, ice, and debris out of foot controls.*
- *If included, raise restraint bar and move controls until both are locked and interlock system is activated.*
- *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 the hydraulics is off.*

**DANGER**

To avoid serious injury or death:

- *Inspect interlock control system regularly and perform required maintenance to keep it operating properly.*
- *Never bypass or modify a safety device.*
- *All guards and shields must be installed and in good working condition while operating the implement.*
- *Never operate equipment from outside the cab.*
- *Always operate skid steer while seated in the cab with seat bar lowered when equipped and seat belt properly fastened. The operator can be pinched, crushed, or thrown if not properly seated in the cab or if operating the dipper arm from outside the cab.*
- *Keep your head, arms, and legs inside the cab while operating the power machine. Any extremity extended outside the cab can be crushed by the loader arms and attachment.*
- *Keep others away from the post hole digger while the auger is rotating. A person can become entangled in the auger, hit by the auger if swinging erratically, or pulled into the auger. 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:

- *Allow only persons to operate this implement who have fully read and comprehended this manual, and who are properly trained in the safe operation of this implement.*
- *Always shut power machine down following the “Shutdown Procedure” provided in this manual before leaving the operator’s station.*
- *Do not travel across an incline where equipment could slip or roll-over. Consult the Operator’s Manual for acceptable inclines the power machine is capable of crossing.*

## Section 2: Operating Procedures

- Never carry riders on the equipment or power machine. 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.
- Hydraulic fluid under high pressure will penetrate the skin or eyes causing serious injury. Wear protective gloves and safety glasses or goggles when working with hydraulics. 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.**
- Check hitch fit-up frequently. An improper fit-up can result in the attachment falling from the loader hitch plate.
- Operate only power machines equipped with a certified Roll-Over Protective Structure (ROPS) and seat belt. Fasten seat belt snugly and securely to help protect against serious injury or death from machine overturn.
- Always travel with adequate clearance between ground and auger. Hitting an object while traveling can damage equipment and cause the operator to lose control.
- Always transport loads low to the ground to maintain stability of the skid steer/tractor.
- 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.
- This attachment has a 3500 psi (24.13 mPa) maximum hydraulic pressure rating. Make sure your powered machine's hydraulic pressure to this attachment does not exceed 3500 psi (24.13 mPa). Exceeding this rating can result in equipment damage, serious injury, or death.
- Do not use this attachment to lift, carry, push or tow other equipment or objects. It is not properly designed or guarded for this use. The operator could lose control resulting in equipment damage and/or tipping hazard.
- Never adjust tractor pressure relief valve for a pressure rating higher than what is recommended by the tractor manufacture.
- 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.
- 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.
- 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.

- 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) or local utility companies 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.

### CAUTION

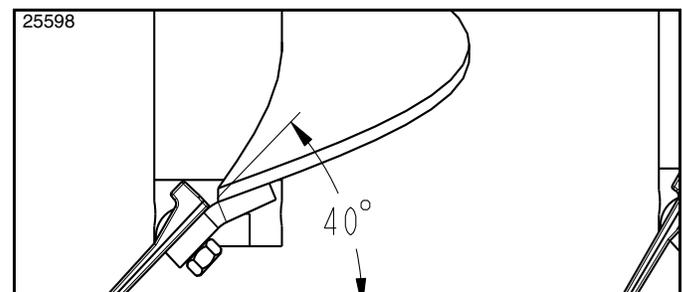
To avoid minor or moderate injury:

Auger tip gets hot after digging. Allow time for the tip to cool before touching or servicing the tip.

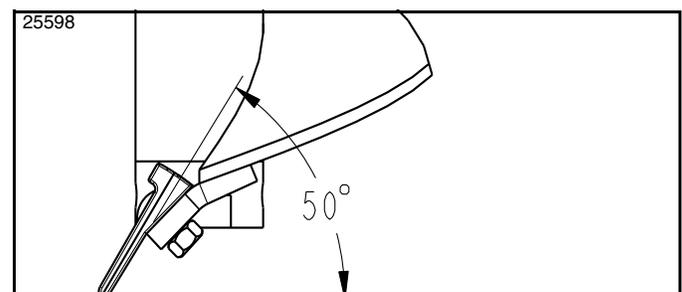
### Dual-Angle Teeth

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

The Auger is shipped with teeth mounted at 40° (see Figure 2-1). If you are experiencing difficulty in penetrating the soil, they can be turned over and mounted at 50° (see Figure 2-2) for a more aggressive bite. Be sure to tighten all mounting hardware to the proper torque when securing teeth to the Auger. See "Torque Values Chart for Common Bolt Sizes" on page 26 for torque ratings.



**Auger Teeth Mounted at 40 Degrees**  
Figure 2-1



**Auger Teeth Mounted at 50 Degrees**  
Figure 2-2

### Transport Post Hole Digger

#### **WARNING**

To avoid serious injury or death:

- 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.
- Always travel straight up and straight down inclines. Never make turns on the incline.
- Slow down when traveling over rough or hilly terrain that can cause equipment to bounce, or hit obstacles that are close by. Either situation can cause damage and/or the operator to lose control.
- When traveling on public roadways, travel in such a way that faster moving vehicles may pass safely. Use accessory lights and devices for adequate warning to operators of other vehicles. Comply with all federal, state, and local laws.

1. Select a safe ground travel speed when transporting from one area to another.
2. Transport with cylinders on end of loader arms fully retracted, motor/gearbox housing supported in the rest support, and auger low to the ground at a height that does not block your view.
3. Always travel straight up and straight down inclines. Make turns only on level ground.
4. 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.
5. Reduce skid steer ground speed when turning. Leave enough room to clear obstacles such as buildings, trees, and fences.
6. Keep away from electrical power lines. Place an orange warning sign under overhead power lines indicating type of danger above.
7. When traveling on roadways, transport in such a way that faster moving vehicles may pass you safely.
8. Reduce transport speed when traveling over rough or hilly terrain.

### Operating Instructions

#### **WARNING**

To avoid serious injury or death:

- Auger point should be on the ground before engaging hydraulics to start drilling. An auger not resting on the ground can swing erratically and damage equipment or hit a bystander.
- Care should always be taken when first starting to drill a hole. The auger, when first entering the soil, can hit a solid object causing damage to the auger and/or auger to swing erratically and hit a bystander.
- Always stop auger from rotating 1 to 2 feet (30 to 60 cm) before it is out of the hole. This will keep the auger from wobbling with an unbalanced dirt load.
- Operate only one hydraulic function at a time. Operating two or more functions at a time can cause damage to the equipment and/or operator to lose control.

**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:** Some power machines have a hydraulic relief valve to protect the equipment. This valve will open in a stalled situation to allow oil to bypass. Check your power machine Operator's Manual to see if it is equipped with a relief valve.

**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.

**IMPORTANT:** Operate one loader function at a time. Operating two or more functions at the same time (lift cylinders, tilt cylinder, engine speed, and power machine position) can lead to damaged equipment.

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

1. Roll tilt arms to carry the auger low to the ground while traveling between drilling positions.
2. Position Skid Steer/Tractor on the upside of the hill when drilling a hole. This will greatly improve its balance and down force.

## Section 2: Operating Procedures

3. Experiment with auger speeds before digging. Increase Skid Steer/Tractor engine speed to increase auger speed and decrease engine speed to reduce auger speed. Run at higher auger speeds when digging in soft and/or sandy soils and at lower auger speeds when digging in hard, rocky, or frozen soils. Normal auger speed is 85 to 100 rpm. Never exceed 110 rpm or the equipment can become damaged.
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.
6. Periodically adjust the machine's position to keep the auger and hole vertical. Be careful not to damage gearbox or auger.
7. Apply down pressure to assist ground penetration. If auger speed slows or stops, back off down pressure. Excessive down pressure can stall the auger.
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 (30.5 to 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 (30.5 to 61 cm) of being out of the hole. Stop auger rotation and continue to raise auger out of the hole.
10. Roll tilt arms into a low carry position when transporting from one digging site to the next. Be careful to watch out for people, obstructions, and uneven terrain.

### General Operation

By now you should have thoroughly read your Operator's Manual, properly installed your Post Hole Digger onto your machine and performed your pre-start and operational running checklist. If you plan to dig holes immediately, you should have also contacted your local utility companies to make sure it is safe to dig where you plan to work. If you haven't done all of the things just described above, please stop and do them now. This is a must for your safety and the safety of others.

If power unit is to be operated in reverse, make sure visibility to the rear of the power unit is appropriate.

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

Once you have safely arrived at your digging site, position your Skid Steer/Tractor so that the auger is directly over the spot where you want to dig a hole. Make sure your operator protective shield or safety door is securely in place. Lower Skid Steer/Tractor arms and auger to a point where the auger clears the ground by approximately 12" (30.5 cm). Do not operate the digger when the auger is more than 12" (30.5 cm) above ground level or the auger could bind or swing erratically causing injury to the operator and damage to the equipment.

With the engine at idle, engage hydraulic circuit and raise engine rpm to operate between 10 and 30 gpm (37.9 - 113.6 lpm) hydraulic flow to a point where the auger is turning at speeds a speed of approximately 85 to 100 rpm. Do not operate the auger at over 110 rpm or damage to the Post Hole Digger and Skid Steer/Tractor could result. Using the loader arm controls, lower the auger into the ground until the desired depth is achieved and then raise the spinning auger back up to remove extraneous soil. Once the hole is completed, disengage hydraulic drive circuit, raise auger to a point where the auger tip is approximately 12" (30.5 cm) off of the ground, release park brake and move away from the hole.

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

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

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

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

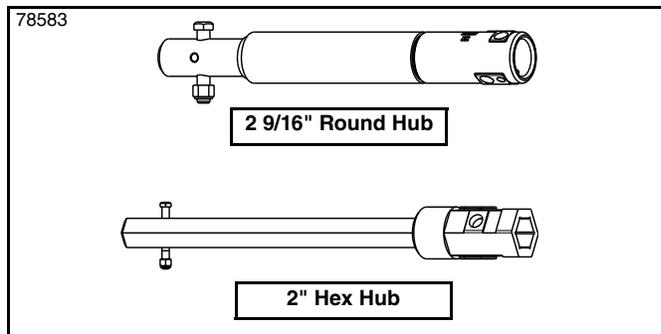
See "**Features and Benefits**" section or "**Product Specifications**" for additional information on performance enhancing options.

### Auger Extension (Accessory)

Refer to Figure 3-1:

If hole depth cannot be achieved, an auger extension can be purchased from your nearest Kubota dealer.

| Auger Extensions |                                    |
|------------------|------------------------------------|
| Part No.         | Part Description                   |
| 317-133A         | SA 24" X 2 9/16"OD AUGER EXT. ASY  |
| 317-135A         | SA 48" X 2 9/16" OD AUGER EXT. ASY |
| 317-129A         | SA 24" X 2" HEX AUGER EXTEN. ASSY  |
| 317-130A         | SA 36" x 2" HEX AUGER EXTEN. ASSY  |
| 317-131A         | SA 48" X 2" HEX AUGER EXTEN. ASSY  |



Auger Extensions  
Figure 3-1

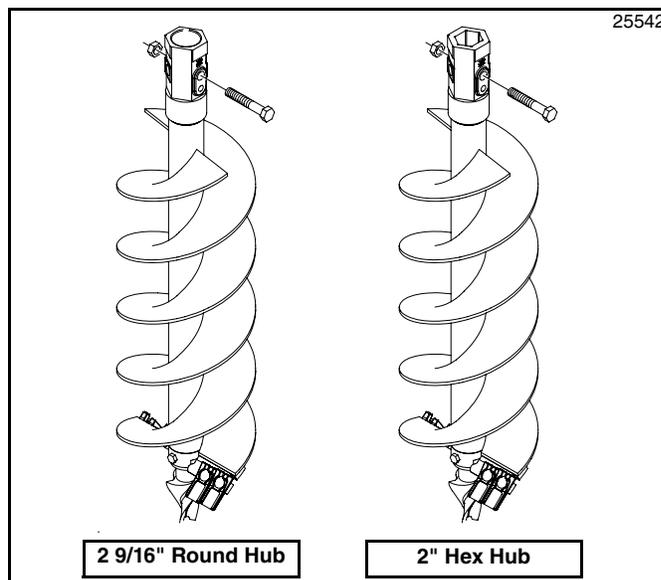
### Augers

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

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

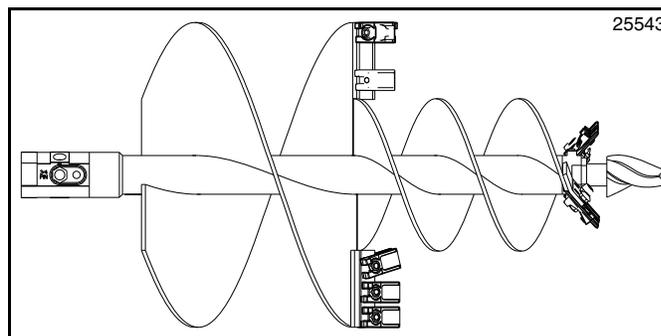
Tree augers are excellent for digging holes that are larger in diameter at the top and smaller at the bottom. This hole designed is good for planting bush, shrub, and tree bulbs at soil level and allowing the root system to reach down underneath to collect needed nutrients.

| Dirt Augers |                                   |
|-------------|-----------------------------------|
| Part No.    | Part Description                  |
| 317-096A    | SA 9" X 2 9/16" HUB DOUBLE AUGER  |
| 317-099A    | SA 12" X 2 9/16" HUB DOUBLE AUGER |
| 317-102A    | SA 15" X 2 9/16" HUB DOUBLE AUGER |
| 317-105A    | SA 18" X 2 9/16" HUB DOUBLE AUGER |
| 317-108A    | SA 24" X 2 9/16" HUB DOUBLE AUGER |
| 317-114A    | SA 30" X 2 9/16" HUB DOUBLE AUGER |
| 317-120A    | SA 36" X 2 9/16" HUB DOUBLE AUGER |
| 317-273A    | SA 6" X 2" HEX HUB DOUBLE AUGER   |
| 317-095A    | SA 9" X 2" HEX HUB DOUBLE AUGER   |
| 317-098A    | SA 12" X 2" HEX HUB DOUBLE AUGER  |
| 317-101A    | SA 15" X 2" HEX HUB DOUBLE AUGER  |
| 317-104A    | SA 18" X 2" HEX HUB DOUBLE AUGER  |
| 317-107A    | SA 24" X 2" HEX HUB DOUBLE AUGER  |
| 317-113A    | SA 30" X 2" HEX HUB DOUBLE AUGER  |
| 317-119A    | SA 36" X 2" HEX HUB DOUBLE AUGER  |



Dirt Augers  
Figure 3-2

| Tree Augers |                                 |
|-------------|---------------------------------|
| Part No.    | Part Description                |
| 317-111A    | SA 24" X 2 9/16" HUB TREE AUGER |
| 317-117A    | SA 30" X 2 9/16" HUB TREE AUGER |
| 317-123A    | SA 36" X 2 9/16" HUB TREE AUGER |
| 317-110A    | SA 24" X 2" HEX HUB TREE AUGER  |
| 317-116A    | SA 30" X 2" HEX HUB TREE AUGER  |
| 317-122A    | SA 36" X 2" HEX HUB TREE AUGER  |

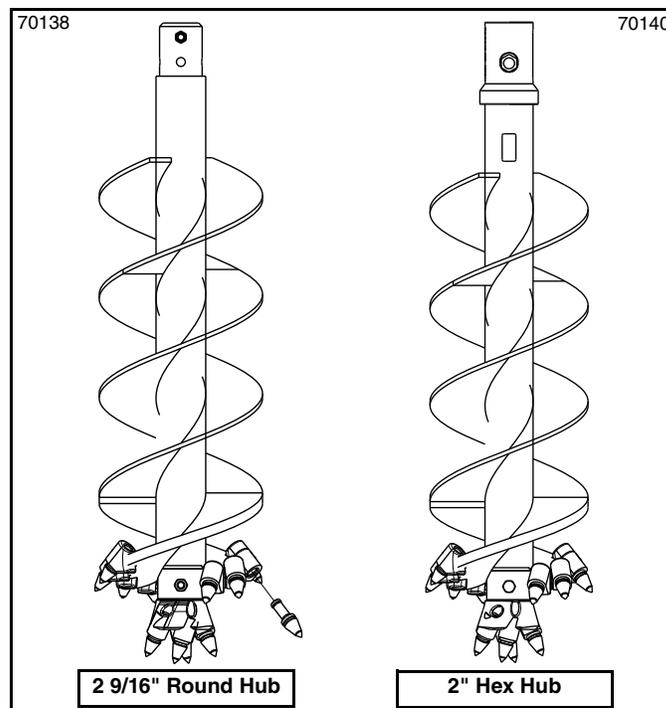


Tree Augers (2" Hex hub shown)  
Figure 3-3

### Rock Augers (Option)

Refer to Figure 3-5:

| Rock Augers |                                 |
|-------------|---------------------------------|
| Part No.    | Part Description                |
| 317-281A    | SA 6" X 2 9/16" HUB ROCK AUGER  |
| 317-268A    | SA 9" X 2 9/19" HUB ROCK AUGER  |
| 317-269A    | SA 12" X 2 9/19" HUB ROCK AUGER |
| 317-270A    | SA 15" X 2 9/19" HUB ROCK AUGER |
| 317-271A    | SA 18" X 2 9/19" HUB ROCK AUGER |
| 317-272A    | SA 24" X 2 9/19" HUB ROCK AUGER |
| 317-280A    | SA 6" X 2" HEX HUB ROCK AUGER   |
| 317-263A    | SA 9" X 2" HEX HUB ROCK AUGER   |
| 317-264A    | SA 12" X 2" HEX HUB ROCK AUGER  |
| 317-265A    | SA 15" X 2" HEX HUB ROCK AUGER  |
| 317-266A    | SA 18" X 2" HEX HUB ROCK AUGER  |
| 317-267A    | SA 24" X 2" HEX HUB ROCK AUGER  |



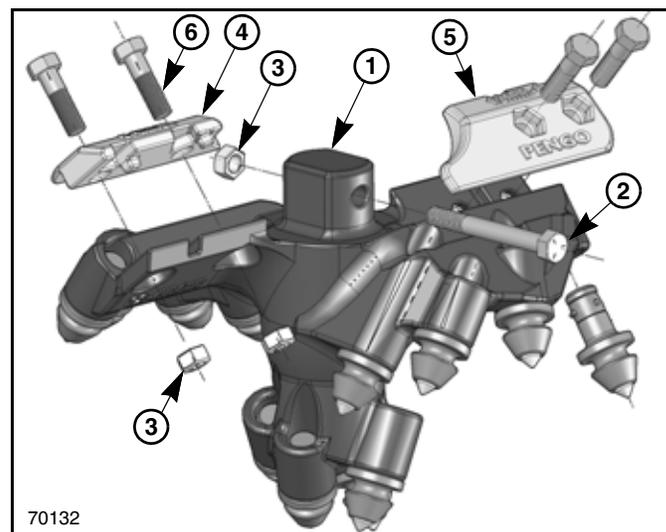
Rock Augers  
Figure 3-5

### Bolt-on Rock Heads (Accessory)

Refer to Figure 3-6:

The SA35 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 fluting with wear caps (#4 & #5), 1/2"-13 GR5 bolts (#6), and locknuts (#3). Tighten locknuts (#3) to the correct torque.

| Bolt-on Rock Heads |                                   |
|--------------------|-----------------------------------|
| Part No.           | Part Description                  |
| 317-274A           | SA 6" Bolt-on Rock Head Assembly  |
| 317-275A           | SA 9" Bolt-on Rock Head Assembly  |
| 317-276A           | SA 12" Bolt-on Rock Head Assembly |
| 317-277A           | SA 15" Bolt-on Rock Head Assembly |
| 317-278A           | SA 18" Bolt-on Rock Head Assembly |
| 317-279A           | SA 24" Bolt-on Rock Head Assembly |

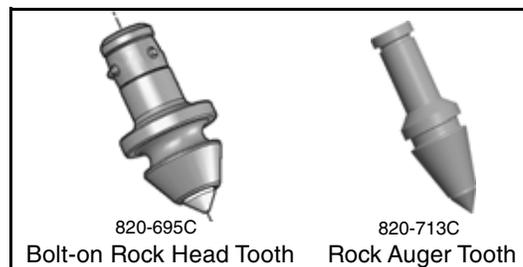


Bolt-on Rock Heads (12" Assembly Shown)  
Figure 3-6

### Rock Auger Teeth

Refer to Figure 3-7:

| 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) |



Rock Auger Teeth  
Figure 3-7

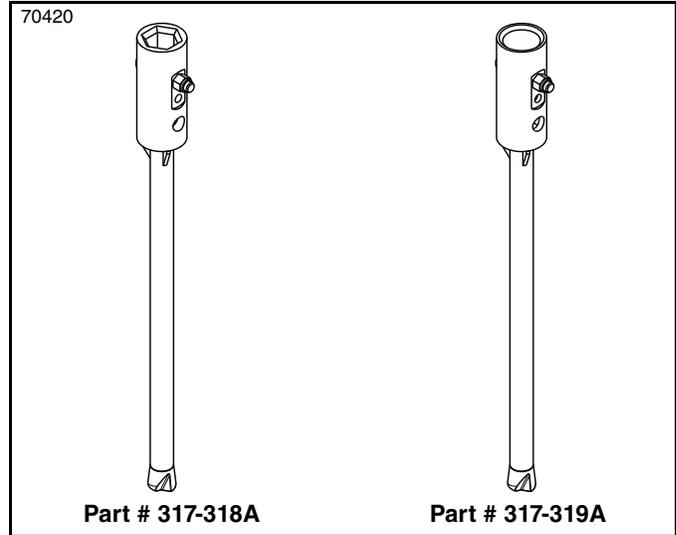
Section 3: Optional Equipment

**Puff Augers (Option)**

Refer to Figure 3-8:

Two puff augers are available as options. One has a 2" hex hub and the other has a 2 9/16" diameter hub. The puff auger is a 2" rock drill used for drilling T-post holes in tough conditions.

| Puff Auger Assemblies |                                      |
|-----------------------|--------------------------------------|
| Part No.              | Part Description                     |
| 317-318A              | SA 2" X 2" HEX HUB PUFF AUGER        |
| 317-319A              | SA 2" X 2 9/16" ROUND HUB PUFF AUGER |



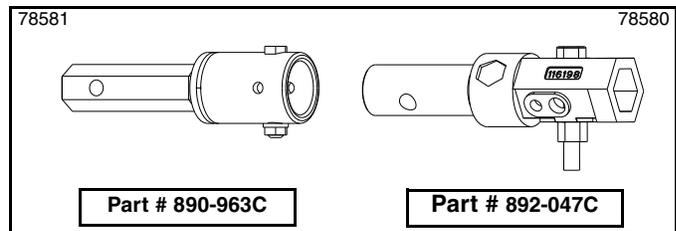
Puff Auger Assemblies  
Figure 3-8

**Auger Adapter (Accessory)**

Refer to Figure 3-9:

Two auger adapters are available:  
 317-057A converts 2 9/16" round shaft to a 2" round shaft.  
 890-963C converts 2 9/16" round shaft to a 2" hex shaft.  
 892-047C converts 2" hex shaft to a 2.5" round shaft.

| Auger Adapters |  |
|----------------|--|
| Part No.       | Part Description                             |
| 317-057A       | 2 9/16 Round hub; 2" Round shaft (Not shown) |
| 890-963C       | 2 9/16" Round hub; 2" Hex shaft              |
| 892-047C       | 2" Hex hub; 2.5" Round shaft                 |



Auger Adapters  
Figure 3-9

Section 4: Maintenance & Lubrication

**Maintenance**

**General**

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

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

**DANGER**

To avoid serious injury or death:

- All guards and shields must be installed and in good working condition while operating this attachment.
- Keep all persons and animals away from rotating components. They can become entangled in the equipment.
- 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 the hydraulics is off.

**WARNING**

To avoid serious injury or death:

- Always shut power machine down using the “Shutdown Procedure” provided in this manual before servicing, adjusting, cleaning, or maintaining the attachment.
- Make sure controls are all in the neutral position or park before starting the power machine.
- Do not alter attachment or replace parts on the attachment 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 attachment. Replace parts only with genuine OEM parts.
- Allow only persons to perform maintenance on this implement who have been properly trained in its safe operation.
- 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.
- 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.

**Daily Inspections**

1. Inspect auger point and teeth for wear and loose fit. Keep cutting edges sharp. Sharp cutting edges dig easier and better.
2. Inspect flighting for wear, bend, and cracks.
3. Inspect auger mounting hardware for wear, bend, and loose fit.
4. Inspect all connecting pins and hardware for wear, bend, and loose fit.
5. Inspect out put shaft for bend and wear.
6. Check gearbox fluid level periodically. Refer to “Gear Lube Fluid Level” on page 22 for detailed instructions.
7. Replace all worn, damaged, or illegible safety labels by obtaining new labels from your nearest Kubota dealer.

**Long-Term Storage**

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

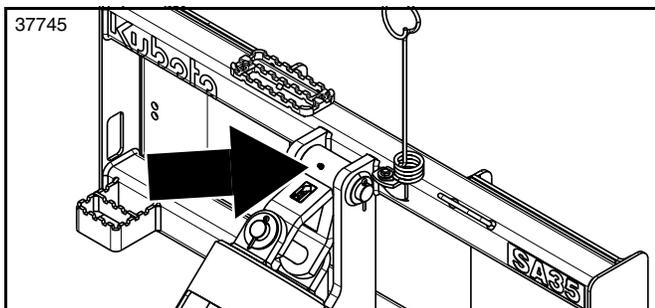
1. Clean off any dirt and grease that may have accumulated on the unit and moving parts. Scrape off compacted dirt and then wash surfaces thoroughly with a garden hose. A coating of oil may also be applied to the spiral flights to minimize oxidation.
2. Inspect unit for loose, damaged, or worn parts and adjust or replace as needed.
3. Lubricate as noted on page 22.
4. Store unit on a level surface in a clean, dry place. Be sure unit is properly supported so as not to fall on any one during storage.
5. Repaint parts where paint is worn or scratched to prevent rust. Ask your Kubota dealer for touch-up paint. Paint is available in aerosol can, quarts, and gallon sizes. See chart below.

| Touch-Up Paint |                                   |
|----------------|-----------------------------------|
| Part No.       | Part Description                  |
| 821-070C       | GLOSS BLACK ENAMEL SPRAY CAN      |
| 821-070CTU     | GLOSS BLACK ENAMEL BOTTLE & BRUSH |
| 821-070CQT     | GLOSS BLACK ENAMEL QUART          |
| 821-070CGL     | GLOSS BLACK ENAMEL GALLON         |

6. Replace all damaged or missing decals.

### Lubrication Points

|                           |                          |                           |                        |        |   |
|---------------------------|--------------------------|---------------------------|------------------------|--------|---|
| <b>Lubrication Legend</b> | Multi-purpose spray lube | Multi-purpose grease lube | Multi-purpose oil lube | 50 Hrs | Intervals in hours at which lubrication is required |
|                           |                          |                           |                        |        |   |

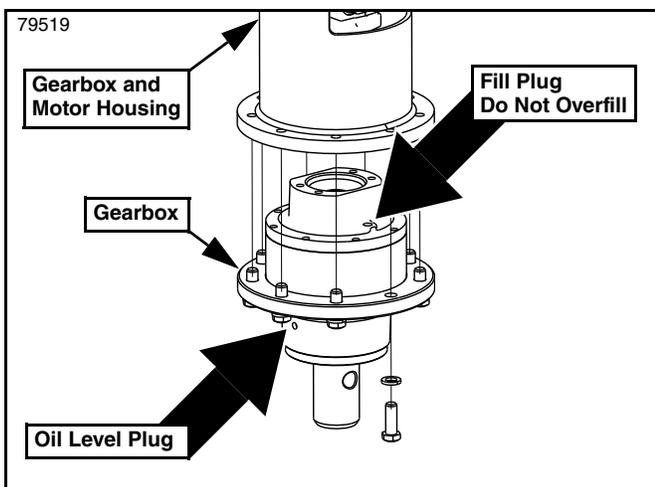


|  |                    |
|--|--------------------|
|  | <b>As Required</b> |
|--|--------------------|

#### Auger Clevis Pivot

Type of Lubrication: Multi-purpose grease

Quantity = Light film



|  |  |                    |
|--|--|--------------------|
|  |  | <b>As Required</b> |
|--|--|--------------------|

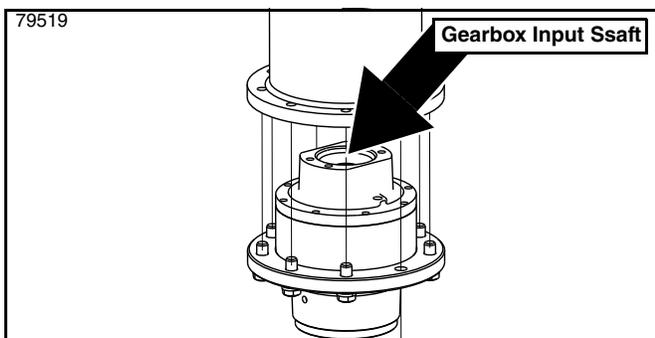
#### Gear Lube Fluid Level

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

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

**IMPORTANT:** The gearbox must be vertical as shown when checking oil level.

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

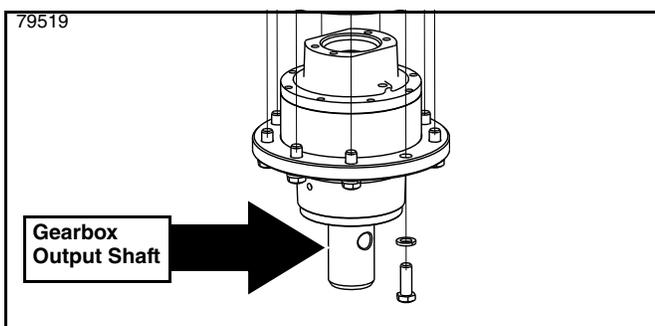


|  |                    |
|--|--------------------|
|  | <b>As Required</b> |
|--|--------------------|

#### Gearbox Input Shaft

Type of Lubrication: Multi-purpose grease

Quantity = Light film



|  |                    |
|--|--------------------|
|  | <b>As Required</b> |
|--|--------------------|

#### Gearbox Output Shaft

Type of Lubrication: Multi-purpose grease

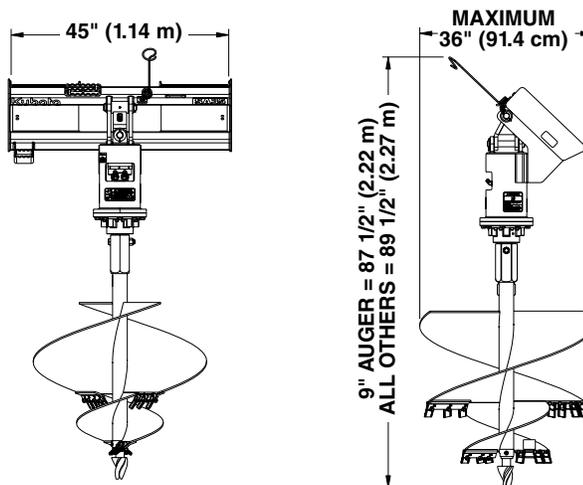
Quantity = Light film

### SA35 Model

| Specifications & Capacities              |  |  |  |
|--|--|--|--|
| <b>Skid Steer Hydraulic Requirements</b> | 10 - 30 gpm @ 1500 to 3500 PSI (37.9 - 113.6 lpm @ 10.34 to 24.13 MPa)   |  |  |
| <b>Hydraulic Motor</b>                   | 18.9 CID   |  |  |
| <b>Gearbox</b>                           | Hydraulically driven planetary gearbox; reversible   |  |  |
| <b>*Output Torque</b>                    | 2,732 ft-lbs (3703.5 Nm) based on 3,000 psi (20.68 MPa) @ 20 gpm (75.7 lpm)  |  |  |
| <b>Hitch</b>                             | Skid steer type quick attach that meets SAE  |  |  |
| <b>Weight without Auger</b>              | 372 lbs (169 kg)   |  |  |
| <b>Auger Length</b>                      | 9" Auger size = 49" (1.24 m)<br>All other auger sizes = 50 3/4" (1.29 m)   |  |  |
| <b>Auger Flighting Thickness</b>         | 5/16" (8 mm)   |  |  |
| <b>Auger Pipe</b>                        | 2 1/2" (6.4 cm) ID   |  |  |
| <b>Auger Teeth</b>                       | Forged, Individually Replaceable.<br>40 Degree angle installed on flat side and 50 degree angle installed on angled side   |  |  |
| <b>Number of Teeth</b>                   | Dirt Augers<br>6" - 2 teeth<br>9" & 12" - 4 teeth<br>15" - 5 teeth<br>18" - 6 teeth<br>24" - 8 teeth<br>30" - 10 teeth<br>36" - 12 teeth   | Tree Augers<br>24" - 9 teeth<br>30" - 11 teeth<br>36" - 13 teeth | Rock Augers<br>6" - 6 teeth<br>9" - 10 teeth<br>12" - 12 teeth<br>15" - 14 teeth<br>18" - 16 teeth<br>24" - 20 teeth |
| <b>Pilot</b>                             | Cast Steel, 3 -Drill Points  |  | Cast Steel, 4 - drill points   |
| <b>Hex hub puff auger Part# 317-318A</b> | 2" (5.1 cm) Pilot bit x 2" (5.1 cm) hex hub x 38.7" (98.3 cm) overall length   |  |  |
| <b>RND hub puff auger Part# 317-318A</b> | 2" (5.1 cm) Pilot bit x 2 9/16" (6.5 cm) round hub x 38.7" (98.3 cm) overall length  |  |  |
| Options and Accessories                  |  |  |  |
| <b>Gearbox Output Shafts (Options)</b>   | 2" (5.1 cm) Hex shaft or 2 9/16" (6.5 cm) round shaft  |  |  |
| <b>Auger sizes (Options).</b>            | Dirt, 2" (5.1 cm) hex hub: 6", 9", 12", 15", 18", 24", 30", & 36"<br>Dirt, 2 9/16" (6.5 cm) round hub: 9", 12", 15", 18", 24", 30", & 36"<br>Tree, 2" (5.1 cm) hex & 2 9/16" (6.5 cm) round hubs: 24", 30" & 36"   |  |  |
| <b>Bolt-on Rock Head (Accessory)</b>     | 6", 9", 12", 15", 18", & 24"   |  |  |
| <b>Auger Extensions (Accessories)</b>    | 14 lbs (6.4 kg) 24" lg x 2 9/16" (61 cm x 6.5 cm) Round extension<br>48 lbs (21.8 kg) 48" lg x 2 9/16" (121.9 cm x 6.5 cm) Round extension<br>34 lbs (15.4 kg) 24" lg x 2" (61 cm x 5.1 cm) Hex extension<br>46 lbs (21 kg) 36" lg x 2" (91 cm x 5.1 cm) Hex extension<br>58 lbs (26.3 kg) 48" lg x 2" (121.9 cm x 5.1 cm) Hex extension |  |  |
| <b>Auger Adapter (Accessory)</b>         | 14.1 lbs (6.4 kg) 2 9/16 (6.5 cm) Round hub; x 2" (5.1 cm) Round shaft<br>14.5 lbs (6.6 kg) 2 9/6" (6.5 cm) Round hub; 2" (5.1 cm) Hex shaft<br>19.5 lbs (8.8 kg) 2" (5.1 cm) Hex hub; 2.5" (6.5 cm) Round shaft   |  |  |

\*Kubota Tractor Corporation publishes the above specifications for information and comparative purpose only. Input hydraulic flow rates and pressures and output hydraulic flow rates, speed and torque are based on theoretical values and calculations, without considering operating losses, which can and will vary depending upon environmental and product conditions.

37746



**SA35 Model (Skid Steer)**

| Features   | Benefits  |
|--|---|
| <b>Skid steer type quick attach that meets SAE</b>       | Fits most Skid Steers<br>Easy hook-up and unhook capabilities.<br>Loader arms can be used to apply additional down force.   |
| <b>Maneuverability</b>                                   | Skid Steer Post Hole Diggers are able to reach over fences or other obstructions.   |
| <b>Replaceable hardened steel points on auger</b>        | Hardened points will last longer than non-hardened. Points are replaceable. Fish tail tips and steel point make it easier to start a hole.  |
| <b>SA35 Series</b>                                       | Fits 10 - 30 gpm (37.9 - 113.6 lpm) hydraulic systems.  |
| <b>Output shaft options</b>                              | 2" Hex shaped output shaft, or 2 9/16" shaft. Both offer high torque resistance, with the hex shaft being the heaviest available.   |
| <b>Planetary gearbox</b>                                 | Design is a tougher, more construction grade than chain and sprocket designed gearboxes. Boxes are completely sealed with all moving parts running in oil for constant lubrication. |
| <b>Large selection of augers</b>                         | Variety of Dirt, Tree, and Rock Auger sizes and styles to suit many applications.   |
| <b>Large selection of Bolt-on Rock Heads (Accessory)</b> | Pengo Dirt Augers can be converted to Rock Augers with this accessory.  |
| <b>Auger length</b>                                      | 46" (1.17 m) on 9" (22.9 cm) Auger, 48" (1.22 m) on all others.   |
| <b>Puff augers</b>                                       | Available with 2" hex hub or 2 9/16" round hub. Used for drilling 2" (5.1 cm) rock T-post holes in tough conditions.  |

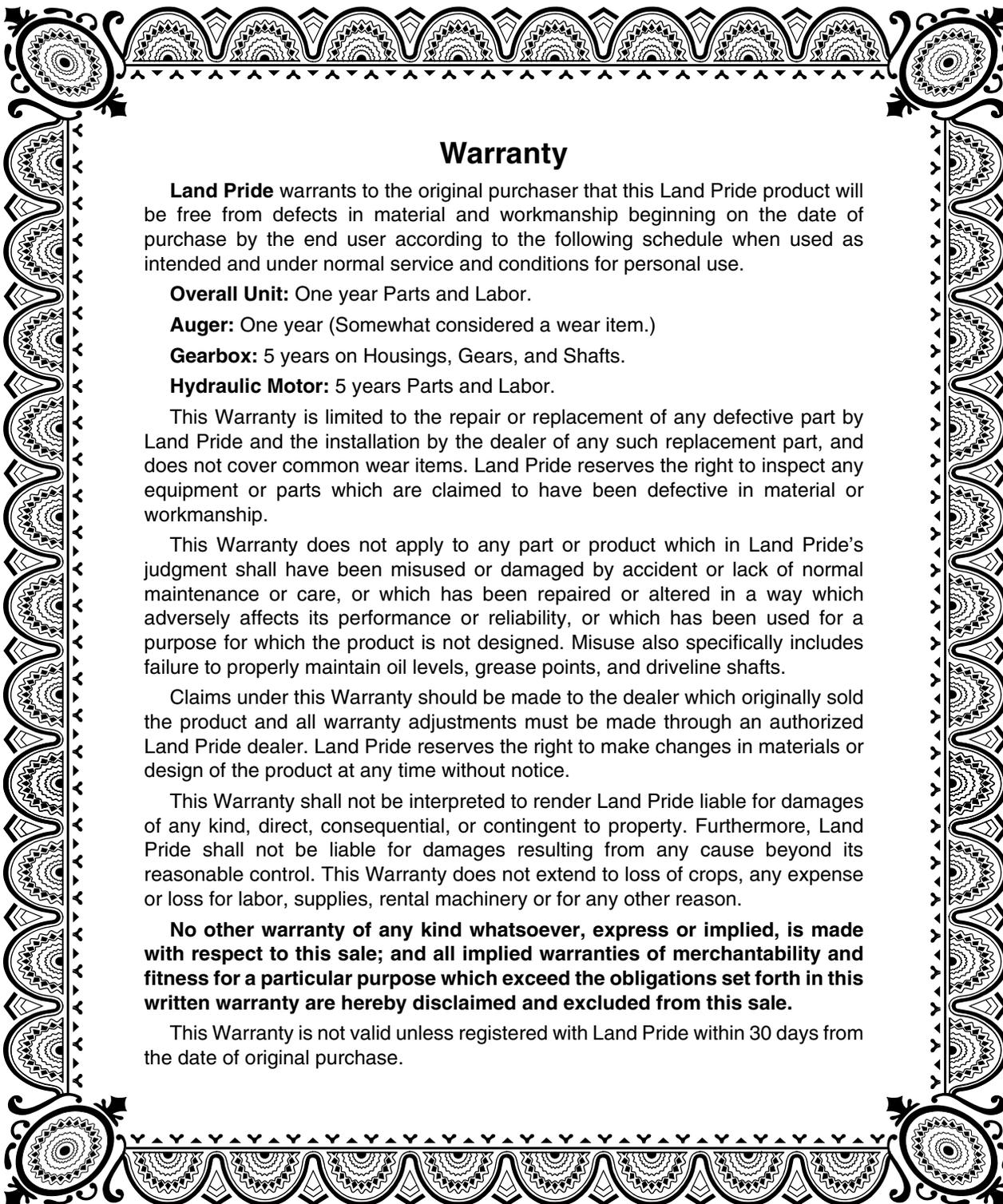
### Troubleshooting Chart

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

| Torque Values Chart for Common Bolt Sizes |                          |                    |         |       |         |       |                         |                          |       |           |       |            |       |
|---|--------------------------|--------------------|---------|-------|---------|-------|-------------------------|--------------------------|-------|-----------|-------|------------|-------|
| Bolt 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 <sup>1</sup>                       | N·m <sup>2</sup>         | ft-lb <sup>3</sup> | N·m     | ft-lb | N·m     | ft-lb | mm x pitch <sup>4</sup> | 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        | 38    | 72         | 53    |
| 3/8" - 24                                 | 31                       | 22                 | 47      | 35    | 67      | 49    | M10 X 1.25              | 35                       | 26    | 53        | 39    | 76         | 56    |
| 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  |                         |                          |       |           |       |            |       |
| 1-3/8" - 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  |                         |                          |       |           |       |            |       |

<sup>1</sup> in-tpi = nominal thread diameter in inches-threads per inch  
<sup>2</sup> N·m = newton-meters  
<sup>3</sup> ft-lb= foot pounds  
<sup>4</sup> mm x pitch = nominal thread diameter in millimeters x thread pitch

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:** One year Parts and Labor.

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

**Gearbox:** 5 years on Housings, Gears, and Shafts.

**Hydraulic Motor:** 5 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 \_\_\_\_\_

### Legal Disclaimer

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