Hydraulic Post Hole Digger
AP-SA35

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.
**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.

<table>
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<tr>
<th>Model Number</th>
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**Accessories**

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**Dealer Contact Information**

- Name: _____________________________
- Street: ____________________________
- City/State: ________________________
- Telephone: _________________________
- Email: ____________________________

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**California Proposition 65**

⚠️ WARNING: Cancer and reproductive harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)
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**Parts Manual QR Locator**

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

**Dealer QR Locator**

The QR code on the left will link you to available dealers for 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, or have the manuals read to them, 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 the 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 tractor/skid steer and attachment while hooking-up.
▲ Keep hands, feet, and clothing away from power-driven parts.
▲ While transporting and operating equipment, watch out for objects overhead and along side such as fences, trees, buildings, wires, etc.
▲ 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 involved and extra safety precaution must be taken. When you see this symbol, be alert and carefully read the message that follows it. In addition to design and configuration of equipment, hazard control, and accident prevention are dependent upon the awareness, concern, prudence, and proper training of personnel involved in the operation, transport, maintenance, and storage of equipment.

**Be Aware of Signal Words**

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

**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.

**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.
These 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: digsafecanada.ca
- Always contact your local utility companies (electrical, telephone, gas, water, sewer, and others) before digging so that they may mark the location of any underground services in the area.
- Be sure to ask how close you can work to the marks they positioned.

**Transport Safely**
- Comply with federal, state, and local laws.
- Use towing vehicle and trailer of adequate size and capacity. Secure equipment towed on a trailer with tie downs and chains.
- Sudden braking can cause a towed trailer to swerve and upset. Reduce speed if towed trailer is not equipped with brakes.
- Avoid contact with any overhead utility lines or electrically charged conductors.
- Always drive with load on end of loader arms low to the ground.
- Always drive straight up and down steep inclines with heavy end of skid steer or tractor with loader attachment on the “uphill” side.
- Engage park brake when stopped on an incline.
- Maximum transport speed for an attached equipment is 20 mph. DO NOT EXCEED. Never travel at a speed which does not allow adequate control of steering and stopping. Some rough terrains require a slower speed.
- As a guideline, use the following maximum speed weight ratios for attached equipment:
  - **20 mph** when weight of attached equipment is less than or equal to the weight of machine towing the equipment.
  - **10 mph** when weight of attached equipment exceeds weight of machine towing equipment but not more than double the weight.
- **IMPORTANT:** Do not tow a load that is more than double the weight of the vehicle towing the load.

**Tire Safety**
- Tire changing can be dangerous and must be performed by trained personnel using the correct tools and equipment.
- Always 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 hydraulic 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 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.
- Remove all tools and unused parts from the equipment 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, 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 equipment safely requires the operator’s full attention. Avoid wearing headphones while operating equipment.

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

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

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

**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 is a serious health hazard.
- Store or dispose of unused chemicals as specified by the chemical manufacturer.

**Avoid Silica Dust**
- 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.

**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 switch 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.
- Detach and store implement in an area where children normally do not play. Secure implement using blocks and supports.

**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, and remove switch key to prevent unauthorized starting.
- Relieve all hydraulic pressures.
- 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.
- Detach and store attachment in an area where children normally do not play. Secure attachment by using blocks and supports.
Important Safety Information

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.
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 with a similar type of straight edge.

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**WARNING**
HIGH PRESSURE FLUID HAZARD
To prevent serious injury or death:
- Relieve pressure on system before repairing or adjusting or disconnecting.
- Wear proper hand and eye protection when searching for leaks. Use wood or cardboard instead of hands.
- Keep all components in good repair.

838-094C
Warning: High Pressure

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**DANGER**
ELECTROCUTION HAZARD
UNDERGROUND WIRES
To prevent serious injury or death:
- Do not dig where there are underground wires.
- Check with local authorities before digging.

838-292C
Warning: Electrocute Hazard
Important Safety Information

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838-293C
Warning: Read Manual

838-294C
Danger: Rotating Auger

135500
Danger: Rotating Auger, Stay Away
On all dirt, tree, rock, and puff augers
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 gallons per minute hydraulic flow capacity at 1500 to 3500 psi and if attaching to a tractor, have a skid steer adapter hitch on the tractor loader. Depending on your specific needs, our Pengo brand augers are offered in single, semi-double, and double flighting configuration. These augers come in 48” length with a choice of 9”, 12”, 15”, 18”, 24”, 30” & 36” flighting and with a 3-Point cast steel tip for 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 24 and “Features & Benefits” on page 25 for additional information and performance enhancing options.

**Using This Manual**

- This Operator’s Manual is designed to help familiarize you with safety, assembly, operation, adjustments, troubleshooting, and maintenance. Read this manual and follow the recommendations to help ensure safe and efficient operation.

- The information contained within this manual was current at the time of printing. Some parts may change slightly to assure you of the best performance.

- To order a new Operator’s or Parts Manual, contact your authorized dealer. Manuals can also be downloaded, free-of-charge, from our website at www.landpride.com

**Terminology**

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

**Definitions**

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

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

**Serial Number**

For quick reference and prompt service, record model and serial number on the inside cover page and again on the warranty page. Always provide model number and serial number when ordering parts and in all correspondences with your Kubota dealer. For location of your serial number plate, see 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**
   lpservicedept@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. min.
- Hydraulic Pressure Rating . . . . . . . . 1500 - 3500 PSI.
- Hydraulic Flow Rate . . . . . . . . . . . . . . . 10 to 30 gpm.
- 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 27 to determine correct torque values for bolts when tightening hardware.

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.
3. If shutting down a tractor, put tractor in park or set park brake.
4. Turn off engine, and remove switch key to prevent unauthorized starting.
5. Relieve all hydraulic pressures.
6. If included, raise seat bar and move controls until both lock.
7. Wait for all components to come to a complete stop before leaving the operator’s seat.
8. Use steps, grab-handles, and anti-slip surfaces when stepping on and off the power machine.

⚠️ DANGER
To avoid serious injury or death:
A crushing hazard exists while hooking-up and unhooking the attachment. Do not allow anyone to stand between attachment and power machine while approaching or backing away from the attachment. Do not operate lift and/or tilt 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 cause the attachment to come loose from the loader hitch plate and fall.

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

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.

Hydraulic Hose Assembly

Refer to Figure 1-3:
1. Install 45 degree elbows (#1) into motor ports as shown and tighten.
2. Screw 99” long hydraulic hoses (#2A & #2B) into fittings (#1) and tighten.

NOTE: Provided are four fittings (#3). Two are 90° elbows and two are straight adapters. Customer may attach the fittings that best suits his fit-up.
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.
Section 1: Assembly & Set-up

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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 becoming stretched, pinched, or kinked. A damaged hose can burst and leak hydraulic fluid.
- This attachment has a 3500 psi maximum hydraulic pressure rating. Make sure your powered machine’s hydraulic pressure to this attachment does not exceed 3500 psi. Exceeding this rating can result in equipment damage, serious injury, or death.
- Hydraulic fluid under high pressure can penetrate the skin and/or eyes causing a serious injury. Wear protective gloves and safety glasses or goggles when working with hydraulic systems. Use a piece of cardboard or wood rather than hands when searching for leaks. A doctor familiar with this type of injury must treat the injury within a few hours or gangrene may result. DO NOT DELAY.

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.
Section 1: Assembly & Set-up

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Section 1: Assembly & Set-up

1. Position mounting holes in auger tube (#3) in line with hole in gearbox output shaft (#4).

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.

Auger Assembly
Refer to Figure 1-8:

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.

NOTE: If attaching to a Kubota skid steer, route hydraulic hoses through Kubota’s SVL or SSV Hose Stay as shown in Figure 1-7. Purchase SVL Hose Stay #S6689 or SSV Hose Stay #77700-07225 through your nearest Kubota dealer. Refer to your skid steer Operator’s Manual for more instructions.

Auger Screw Assembly
Figure 1-8

1. Position mounting holes in auger tube (#3) in line with hole in gearbox output shaft (#4).

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.

Auger Assembly
Refer to Figure 1-8:

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.

NOTE: If attaching to a Kubota skid steer, route hydraulic hoses through Kubota’s SVL or SSV Hose Stay as shown in Figure 1-7. Purchase SVL Hose Stay #S6689 or SSV Hose Stay #77700-07225 through your nearest Kubota dealer. Refer to your skid steer Operator’s Manual for more instructions.
Unhook Post Hole Digger

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

⚠️ DANGER

To avoid serious injury or death:

* A crushing hazard exists while hooking-up and unhooking the attachment. Do not allow anyone to stand between attachment and power machine while approaching or backing away from the attachment. Do not operate lift and/or tilt 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 dismounting 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.
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 are age 16 or older and 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

<table>
<thead>
<tr>
<th>Check</th>
<th>Ref.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Read and follow all Safety Rules carefully. Refer to “Important Safety Information”.</td>
<td>1</td>
</tr>
<tr>
<td>Make sure all guards and shields are in place. Refer to “Important Safety Information”:</td>
<td>1</td>
</tr>
<tr>
<td>Make sure their are no hydraulic leaks on the unit. See “Avoid High Pressure Fluids Hazard”.</td>
<td>3</td>
</tr>
<tr>
<td>Read and follow hook-up and preparation. Refer to “Section 1: Assembly &amp; Set-up”.</td>
<td>9</td>
</tr>
<tr>
<td>Read and follow all operating procedures. Refer to “Section 2: Operating Procedures”.</td>
<td>14</td>
</tr>
<tr>
<td>Read and follow all Maintenance Instructions. See “Section 4: Maintenance &amp; Lubrication”.</td>
<td>22</td>
</tr>
<tr>
<td>Read and follow all Lubrication Instructions. Refer to “Lubrication Points”.</td>
<td>23</td>
</tr>
<tr>
<td>Make sure all gearboxes are properly lubricated. Refer to Gearbox lubrication.</td>
<td>23</td>
</tr>
<tr>
<td>Check auger screw initially and periodically for loose hardware. See “Torque Values Chart”.</td>
<td>27</td>
</tr>
</tbody>
</table>

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 loader arms 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.
- Make sure the site is free from hazards before drilling. Look for obstacles on the ground, beneath mulching, and below the ground that may need to be removed such as landscape fabric, wire, etc. Hand digging may be necessary to verify the presence of underground materials.
- 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 bit to position its point on the ground while it 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.
- Keep others away from the post hole digger while the auger is rotating. A person can become entangled in the auger or hit by the auger if it swings erratically. Anyone helping should be kept a safe distance (a minimum of 20 feet or 6 meters) from the unit while it is rotating.
- Do not remove spoil-pile with hand tools while auger is operating. Doing so can result in serious injury or death.
- 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 hydraulics is off.

WARNING

To avoid serious injury or death:

- Allow only persons to operate this implement who have fully read and comprehended this manual, who have been properly trained in the safe operation of this implement, and who are age 16 or older. Serious injury or death can result from the inability to read, understand, and follow instructions provided in this manual.
• Always shut power machine down following the “Shutdown Procedure” provided in this manual before leaving the operator’s seat.

• Do not travel across inclines where equipment could slip or roll-over. Consult your power machine Operator’s Manual for acceptable inclines they are capable of crossing.

• Backup alarm must be in good working order to warn others. Use a backup camera or rear-view mirror that is in good condition to help see undesirable situations behind the unit. Drive at a slower speed to compensate for blind spots.

• Never carry riders on the implement or power machine. Riders can obstruct the operator’s view, interfere with control of the equipment, be pinched by moving components, become entangled in rotating components, be struck by objects, be thrown or fall from the equipment, etc.

• Hydraulic fluid under high pressure can penetrate the skin and/or eyes causing a serious injury. Wear protective gloves and safety glasses or goggles when working with hydraulic systems. Use a piece of cardboard or wood rather than hands when searching for leaks. A doctor familiar with this type of injury must treat the injury within a few hours or gangrene may result. DO NOT DELAY.

• Check hitch fit-up frequently. An improper fit-up can cause the attachment to come loose from the loader hitch plate and fall.

• 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 operator to lose control.

• Always travel with attachment lowered to reduce the chances of tip over due to high center of gravity.

• Do not use attachment to lift, carry, push or tow other equipment and objects. It is not properly designed or guarded for this use. The operator could lose control and cause a tipping hazard.

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

• 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.

• Never work near utilities such as gas lines, electrical lines, or other hazards that can cause serious injury or death from electrocution, explosion, or fire.

• Never make contact with underground utilities such as electrical power lines, gas lines, phone lines, etc. They can cause serious injury or death from electrocution, explosion, or fire. If in doubt, call 811 (USA) before digging so that they can mark the location of underground services in the area. For contact information, see Dig Safe in the “Important Safety Information” starting on page 1.

• 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.

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 degrees (see Figure 2-1). If you are experiencing difficulty in penetrating the soil, they can be turned over and mounted at 50 degrees (see Figure 2-2) for a more aggressive bite. Be sure to tighten all mounting hardware to the proper torque when securing teeth to the Auger. See “Torque Values Chart for Common Bolt Sizes” on page 27 for torque ratings.
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. Make turns only on level ground.
- Slow down when traveling over rough or hilly terrain that can cause equipment to bounce, or to hit obstacles that are close by. Either situation can cause damage and/or the operator to lose control.
- When traveling on public roadways, travel in such a way that faster moving vehicles may pass safely. Use accessory lights, clean reflectors, and a slow moving vehicle sign that is visible from the back to warn operators in other vehicles of your presence. Always comply with all federal, state, and local laws.

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 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 bit cannot penetrate an obstruction, change auger head to the optional rock auger head, switch auger bit to the optional rock auger bit, or dig a new hole nearby. See “Options & Accessory” Section in this manual for optional rock auger heads and rock auger bits.

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

**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.
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”, stop auger rotation and raise it up to remove soil and debris from the hole. Lower auger back down to continue digging. Dig another 24” and again raise auger up except this time keep auger turning to lessen the strain on the equipment. Stop raising auger within 1 to 2 feet of being out of the hole and lower it back down to continue digging. Repeat this procedure until hole is at its final depth.

9. Allow auger to turn several revolutions at final depth. With auger still turning, raise auger up to within 1 to 2 feet of being out of the hole. Stop auger rotation and continue to raise auger out of the hole.

10. 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 attachment is to be operated in reverse, make sure visibility to the rear of the power unit is appropriate for the attachment. Backup camera or mirror is recommended. Maintain cleanliness of lens or mirror.

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”. Do not operate the digger when the auger is more than 12” above ground level or the auger could bind or swing erratically causing injury to the operator and damage to the equipment.

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

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

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

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

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

See “Features and Benefits” section or “Product Specifications” for additional information on performance enhancing options.
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Auger Extension (Accessory)
Refer to Figure 3-1:
If desired hole depth cannot be achieved, an auger extension shaft can be purchased from your nearest Kubota dealer.

<table>
<thead>
<tr>
<th>Auger Extensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part No.</td>
</tr>
<tr>
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</tr>
<tr>
<td>317-133A</td>
</tr>
<tr>
<td>317-135A</td>
</tr>
<tr>
<td>317-129A</td>
</tr>
<tr>
<td>317-131A</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Dirt Augers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part No.</td>
</tr>
<tr>
<td>-----------</td>
</tr>
<tr>
<td>317-096A</td>
</tr>
<tr>
<td>317-099A</td>
</tr>
<tr>
<td>317-102A</td>
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<td>317-105A</td>
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<tr>
<td>317-114A</td>
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<td>317-120A</td>
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<tr>
<td>317-273A</td>
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<tr>
<td>317-095A</td>
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<td>317-098A</td>
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<td>317-101A</td>
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<td>317-107A</td>
</tr>
<tr>
<td>317-113A</td>
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<tr>
<td>317-119A</td>
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</table>

<table>
<thead>
<tr>
<th>Tree Augers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part No.</td>
</tr>
<tr>
<td>-----------</td>
</tr>
<tr>
<td>317-111A</td>
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<tr>
<td>317-117A</td>
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<td>317-123A</td>
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<td>317-110A</td>
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<tr>
<td>317-116A</td>
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<tr>
<td>317-122A</td>
</tr>
</tbody>
</table>
Section 3: Optional Equipment

Rock Augers (Option)
Refer to Figure 3-5:

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Part Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>317-281A</td>
<td>SA 6&quot; x 2 9/16&quot; HUB ROCK AUGER</td>
</tr>
<tr>
<td>317-268A</td>
<td>SA 9&quot; x 2 9/19&quot; HUB ROCK AUGER</td>
</tr>
<tr>
<td>317-269A</td>
<td>SA 12&quot; x 2 9/19&quot; HUB ROCK AUGER</td>
</tr>
<tr>
<td>317-270A</td>
<td>SA 15&quot; x 2 9/19&quot; HUB ROCK AUGER</td>
</tr>
<tr>
<td>317-271A</td>
<td>SA 18&quot; x 2 9/19&quot; HUB ROCK AUGER</td>
</tr>
<tr>
<td>317-272A</td>
<td>SA 24&quot; x 2 9/19&quot; HUB ROCK AUGER</td>
</tr>
<tr>
<td>317-280A</td>
<td>SA 6&quot; x 2&quot; HEX HUB ROCK AUGER</td>
</tr>
<tr>
<td>317-263A</td>
<td>SA 9&quot; x 2&quot; HEX HUB ROCK AUGER</td>
</tr>
<tr>
<td>317-264A</td>
<td>SA 12&quot; x 2&quot; HEX HUB ROCK AUGER</td>
</tr>
<tr>
<td>317-265A</td>
<td>SA 15&quot; x 2&quot; HEX HUB ROCK AUGER</td>
</tr>
<tr>
<td>317-266A</td>
<td>SA 18&quot; x 2&quot; HEX HUB ROCK AUGER</td>
</tr>
<tr>
<td>317-267A</td>
<td>SA 24&quot; x 2&quot; HEX HUB ROCK AUGER</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Part Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>317-274A</td>
<td>SA 6&quot; Bolt-on Rock Head Assembly</td>
</tr>
<tr>
<td>317-275A</td>
<td>SA 9&quot; Bolt-on Rock Head Assembly</td>
</tr>
<tr>
<td>317-276A</td>
<td>SA 12&quot; Bolt-on Rock Head Assembly</td>
</tr>
<tr>
<td>317-277A</td>
<td>SA 15&quot; Bolt-on Rock Head Assembly</td>
</tr>
<tr>
<td>317-278A</td>
<td>SA 18&quot; Bolt-on Rock Head Assembly</td>
</tr>
<tr>
<td>317-279A</td>
<td>SA 24&quot; Bolt-on Rock Head Assembly</td>
</tr>
</tbody>
</table>

Rock Auger Teeth
Refer to Figure 3-7:

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Part Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>820-695C</td>
<td>Belltec Auger Tooth (For Rock Augers)</td>
</tr>
<tr>
<td>820-713C</td>
<td>Pengo Rock Auger Tooth (Bolt-on Rock Heads)</td>
</tr>
</tbody>
</table>

Figure 3-5
Bolt-on Rock Heads (12" Assembly Shown)
Figure 3-6
Rock Augers
Figure 3-7
Rock Auger Teeth
Figure 3-3
Rock Auger Teeth
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.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Part Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>317-318A</td>
<td>SA 2&quot; X 2&quot; HEX HUB PUFF AUGER</td>
</tr>
<tr>
<td>317-319A</td>
<td>SA 2&quot; X 2 9/16&quot; ROUND HUB PUFF AUGER</td>
</tr>
</tbody>
</table>
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 the 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 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.
- Do not alter attachment or replace parts on the attachment with other brands. Other brands may not fit properly or meet OEM 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 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 23 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 23.
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.

<table>
<thead>
<tr>
<th>Touch-Up Paint</th>
<th>Part Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>821-070C</td>
<td>GLOSS BLACK ENAMEL SPRAY CAN</td>
</tr>
<tr>
<td>821-070CTU</td>
<td>GLOSS BLACK ENAMEL BOTTLE &amp; BRUSH</td>
</tr>
<tr>
<td>821-070CQT</td>
<td>GLOSS BLACK ENAMEL QUART</td>
</tr>
<tr>
<td>821-070CGL</td>
<td>GLOSS BLACK ENAMEL GALLON</td>
</tr>
</tbody>
</table>

6. Replace all damaged or missing decals.
## Lubrication Points

### Gearbox Input Shaft
- **Type of Lubrication:** Multi-purpose grease
- **Quantity:** Light film

### Gearbox Output Shaft
- **Type of Lubrication:** Multi-purpose grease
- **Quantity:** Light film

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

### Auger Clevis Pivot
- **Type of Lubrication:** Multi-purpose grease
- **Quantity:** Light film

### Lubrication Points Legend

<table>
<thead>
<tr>
<th>Lubrication Point</th>
<th>Multi-purpose spray lube</th>
<th>Multi-purpose grease lube</th>
<th>Multi-purpose oil lube</th>
<th>Intervals in hours at which lubrication is required</th>
</tr>
</thead>
<tbody>
<tr>
<td>Auger Clevis Pivot</td>
<td>As Required</td>
<td></td>
<td></td>
<td>50 Hrs</td>
</tr>
<tr>
<td>Gear Lube Fluid Level</td>
<td>As Required</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gearbox Input Shaft</td>
<td>As Required</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gearbox Output Shaft</td>
<td>As Required</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

---

*AP-SA35 Hydraulic Post Hole Digger 317-093MK 23*
### Table of Contents

**Section 5: Specifications & Capacities**

---

#### SA35 Model

**Specifications & Capacities**

<table>
<thead>
<tr>
<th>Skid Steer Hydraulic Requirements</th>
<th>10 - 30 gpm @ 1500 to 3500 PSI (37.9 - 113.6 lpm @ 10.34 to 24.13 MPa)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydraulic Motor</td>
<td>18.3 CID</td>
</tr>
<tr>
<td>Gearbox</td>
<td>Hydraulically driven planetary gearbox; reversible</td>
</tr>
<tr>
<td><em>Output Torque</em></td>
<td>2,732 ft-lbs (3703.5 Nm) based on 3,000 psi (20.68 MPa) @ 20 gpm (75.7 lpm)</td>
</tr>
<tr>
<td>Hitch</td>
<td>Skid steer type quick attach that meets SAE.</td>
</tr>
<tr>
<td>Weight without Auger</td>
<td>435 lbs (197.3 kg)</td>
</tr>
<tr>
<td>Auger Length</td>
<td>9” Auger size = 49” (1.24 m)</td>
</tr>
<tr>
<td></td>
<td>All other auger sizes = 50 3/4” (1.29 m)</td>
</tr>
<tr>
<td>Auger Flighting Thickness</td>
<td>5/16” (8 mm)</td>
</tr>
<tr>
<td>Auger Pipe</td>
<td>2 1/2” (6.4 cm) ID</td>
</tr>
<tr>
<td>Auger Teeth</td>
<td>Forged, Individually Replaceable.</td>
</tr>
<tr>
<td></td>
<td>40 Degree angle installed on flat side and 50 degree angle installed on angled side</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Number of Teeth</th>
<th>Dirt Augers</th>
<th>Tree Augers</th>
<th>Rock Augers</th>
</tr>
</thead>
<tbody>
<tr>
<td>6” - 2 teeth</td>
<td></td>
<td>24” - 9 teeth</td>
<td>6” - 6 teeth</td>
</tr>
<tr>
<td>9” &amp; 12” - 4 teeth</td>
<td></td>
<td>30” - 11 teeth</td>
<td>9” - 10 teeth</td>
</tr>
<tr>
<td>15” - 5 teeth</td>
<td>18” - 6 teeth</td>
<td>36” - 13 teeth</td>
<td>12” - 12 teeth</td>
</tr>
<tr>
<td>18” - 6 teeth</td>
<td></td>
<td></td>
<td>15” - 14 teeth</td>
</tr>
<tr>
<td>24” - 8 teeth</td>
<td></td>
<td></td>
<td>18” - 16 teeth</td>
</tr>
<tr>
<td>30” - 10 teeth</td>
<td></td>
<td></td>
<td>24” - 20 teeth</td>
</tr>
<tr>
<td>36” - 12 teeth</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| Pilot                             | Cast Steel, 3 - Drill Points | Cast Steel, 4 - drill points |

| Hex hub puff auger Part# 317-318A | 2” (5.1 cm) Pilot bit x 2” (5.1 cm) hex hub x 38.7” (98.3 cm) overall length |
| RND hub puff auger Part# 317-318A | 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

| Gearbox Output Shafts (Options)   | 2” (5.1 cm) Hex shaft or 2 9/16” (6.5 cm) round shaft |
| Auger sizes (Options).            | Dirt, 2” (5.1 cm) hex hub: 6”, 9”, 12”, 15”, 18”, 24”, 30”, & 36” |
|                                   | Dirt, 2 9/16” (6.5 cm) round hub: 9”, 12”, 15”, 18”, 24”, 30”, & 36” |
|                                   | Tree, 2” (5.1 cm) hex & 2 9/16” (6.5 cm) round hubs: 24”, 30” & 36” |
| Bolt-on Rock Head (Accessory)     | 6”, 9”, 12”, 15”, 18”, & 24” |
| Auger Extensions (Accessories)    | 2” (5.1 cm) Hex extension: 24” & 48” Extensions Available |
|                                   | 2 9/16” (6.5 cm) OD round extension: 24” & 48” Extensions Available |

*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.*

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![Diagram of SA35 Model](image.jpg)
### SA35 Model (Skid Steer)

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

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

<table>
<thead>
<tr>
<th>Bolt Size (inches)</th>
<th>Bolt Head Identification</th>
<th>Torque Values Chart for Common Bolt Sizes</th>
<th>Bolt Head Identification</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Grade 2</td>
<td>Grade 5</td>
<td>Grade 8</td>
</tr>
<tr>
<td></td>
<td>N · m ²</td>
<td>ft-lb³</td>
<td>N · m ²</td>
</tr>
<tr>
<td>1/4&quot; - 20</td>
<td>7.4</td>
<td>5.6</td>
<td>11</td>
</tr>
<tr>
<td>1/4&quot; - 28</td>
<td>8.5</td>
<td>6</td>
<td>13</td>
</tr>
<tr>
<td>5/16&quot; - 18</td>
<td>15</td>
<td>11</td>
<td>24</td>
</tr>
<tr>
<td>5/16&quot; - 24</td>
<td>17</td>
<td>13</td>
<td>26</td>
</tr>
<tr>
<td>3/8&quot; - 16</td>
<td>27</td>
<td>20</td>
<td>42</td>
</tr>
<tr>
<td>3/8&quot; - 24</td>
<td>31</td>
<td>22</td>
<td>47</td>
</tr>
<tr>
<td>7/16&quot; - 14</td>
<td>43</td>
<td>32</td>
<td>67</td>
</tr>
<tr>
<td>7/16&quot; - 20</td>
<td>49</td>
<td>36</td>
<td>75</td>
</tr>
<tr>
<td>1/2&quot; - 13</td>
<td>66</td>
<td>49</td>
<td>105</td>
</tr>
<tr>
<td>1/2&quot; - 20</td>
<td>75</td>
<td>55</td>
<td>115</td>
</tr>
<tr>
<td>9/16&quot; - 12</td>
<td>95</td>
<td>70</td>
<td>150</td>
</tr>
<tr>
<td>9/16&quot; - 18</td>
<td>105</td>
<td>79</td>
<td>165</td>
</tr>
<tr>
<td>5/8&quot; - 11</td>
<td>130</td>
<td>97</td>
<td>205</td>
</tr>
<tr>
<td>5/8&quot; - 18</td>
<td>150</td>
<td>110</td>
<td>230</td>
</tr>
<tr>
<td>3/4&quot; - 10</td>
<td>235</td>
<td>170</td>
<td>360</td>
</tr>
<tr>
<td>3/4&quot; - 16</td>
<td>260</td>
<td>190</td>
<td>405</td>
</tr>
<tr>
<td>7/8&quot; - 9</td>
<td>225</td>
<td>165</td>
<td>585</td>
</tr>
<tr>
<td>7/8&quot; - 14</td>
<td>250</td>
<td>185</td>
<td>640</td>
</tr>
<tr>
<td>1&quot; - 8</td>
<td>340</td>
<td>250</td>
<td>875</td>
</tr>
<tr>
<td>1&quot; - 12</td>
<td>370</td>
<td>275</td>
<td>955</td>
</tr>
<tr>
<td>1-1/8&quot; - 7</td>
<td>480</td>
<td>355</td>
<td>1080</td>
</tr>
<tr>
<td>1-1/8&quot; - 12</td>
<td>540</td>
<td>395</td>
<td>1210</td>
</tr>
<tr>
<td>1-1/4&quot; - 7</td>
<td>680</td>
<td>500</td>
<td>1520</td>
</tr>
<tr>
<td>1-1/4&quot; - 12</td>
<td>750</td>
<td>555</td>
<td>1680</td>
</tr>
<tr>
<td>1-3/8&quot; - 6</td>
<td>890</td>
<td>655</td>
<td>1990</td>
</tr>
<tr>
<td>1-3/8&quot; - 12</td>
<td>1010</td>
<td>745</td>
<td>2270</td>
</tr>
<tr>
<td>1-1/2&quot; - 6</td>
<td>1180</td>
<td>870</td>
<td>2640</td>
</tr>
<tr>
<td>1-1/2&quot; - 12</td>
<td>1330</td>
<td>980</td>
<td>2970</td>
</tr>
</tbody>
</table>

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

Torque tolerance + 0%, -15% of torquing values. Unless otherwise specified use torque values listed above.
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 Frame:** One year Parts and Labor
**Auger:** One year (Somewhat considered a wear item).
**Gearbox:** 5 years Parts and Labor.
**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.

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Serial Number</th>
</tr>
</thead>
</table>
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