Tree/Post Puller
AP-STP15

328-222MK 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®

Printed 4/4/19
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.

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Dealer Contact Information

Name: ____________________________
Street: __________________________
City/State: _______________________
Telephone: ________________________
Email: ___________________________
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See previous page for Table of contents.

**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 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 the attachment.
- Keep all bystanders away from equipment and work area.
- Start skid steer from the driver’s seat with steering levers and hydraulic controls in neutral.
- Operate skid steer and controls from the driver’s seat only.
- Never dismount from a moving skid steer or leave skid steer unattended with engine running.
- Do not allow anyone to stand between attachment and skid steer 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:

- **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.

**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.

**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.
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: 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 chocks, 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 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.
- **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.
These are common practices that may or may not be applicable to the products described in this manual.

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

**Wear 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 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.

**Use Safety Lights and Devices**
- Slow moving tractors, skid steers, and self-propelled machines 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 falling and machine overturn.
Important Safety Information

Listed below 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.
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Safety Labels

Your Tree/Post Puller 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 Land Pride dealer. To find your nearest dealer, visit our dealer locator at www.landpride.com.
3. Some new equipment installed during repair requires safety labels to be affixed to the replaced component as specified by Land Pride. When ordering new components make sure the correct safety labels are included in the request.

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

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818-798C
Warning: Pinch Point Hazard (1 - Place)

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

838-293C
Warning: Read & Understand Manual
CAUTION

TO AVOID DAMAGE:
RATED OPERATING CAPACITY
OF HOST MACHINE SHALL
NOT EXCEED 2000 lbs

858-696C
Caution: Maximum Rated Operating Capacity
Kubota welcomes you to the growing family of new product owners. This Tree/Post Puller 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 product.

Application
The Kubota STP15 Tree/Post Puller is designed and built by Kubota to remove shrubs, saplings, and small trees; pulling them from the ground, roots and all. The serrated teeth also make this an ideal tool for removing steel and wood fence posts. It has uses and applications in farming, ranching, construction sites, nurseries, orchards, landscaping, and fence building.

The 10" jaw opening allows you to grasp and pull a wide range of trees and posts with the added benefit of minimal ground disturbance. Because the roots are removed with the tree, chances for regrowth are also eliminated without the use of chemicals. When the jaws are closed, the ends form a spade point for digging into the ground to loosen the tree roots. Fittings and hydraulic hoses are protected at the hydraulic cylinder with a durable steel guard around the hydraulic cylinder.

See “Specifications & Capacities” on page 18 and “Features & Benefits” on page 19 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 forward in 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 this information must be read & noted before continuing.

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

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 Tree/Post Puller 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 correspondences with your Kubota dealer. For location of your serial number plate, see Figure 1.

Further Assistance
Your Kubota dealer wants you to be satisfied with your new attachment. After having carefully read these instructions, you will realize that much of the routine maintenance can be done by yourself. 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
Skid Steer Requirements
The Tree/Post Puller is designed to attach to skid steer loaders with the following minimum requirements:

- Horsepower Rating .................. 30-65 horsepower
- SAE lift capacity ....................... 1200 lbs.
- Hitch type ............................ Skid steer type quick attach that meets SAE
- Hydraulic hoses ....................... 2 - Hydraulic outlets
- Skid steer weight ..................... See warning below

**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. Consult your power machine Operator’s Manual to determine proper weight requirements and maximum weight limitations.

Torque Requirements
See “Torque Values Chart” on page 21 to determine correct torque values when tightening hardware.

Dealer Preparations
This Tree/Post Puller is shipped completely assembled and does not require any special assembly or set-up instructions.

Skid Steer Shutdown Procedure
The following are basic skid steer shutdown procedures. Follow these procedures and any additional shutdown procedures provided in your skid steer 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. Turn off engine, and remove switch key to prevent unauthorized starting.
4. Relieve all hydraulic pressure to auxiliary hydraulic lines.
5. If included, raise seat bar and move controls until both lock.
6. Wait for all components to come to a complete stop before leaving the operator’s seat.
7. Use steps, grab-handles and anti-slip surfaces when stepping on and off the skid steer 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. Check for and remove all debris in the skid steer and Tree/Post Puller hitch point areas.
2. Raise lock pins on skid steer hitch for hook-up.
3. Carefully drive up to the Tree/Post Puller making sure the hitch plate on the skid steer loader arms is parallel with the Tree/Post Puller hitch plate.
4. Rotate top of skid steer tilt arms slightly forward.
5. Place top of skid steer hitch plate under the puller’s top angled bar.
6. Slowly raise loader arms up until the skid steer hitch plate is seated under the top angle bar.
7. Rotate top of skid steer tilt arms back until skid steer hitch plate makes full contact with puller hitch.
8. Lower lock pins on skid steer hitch. Make sure lock pins go through bottom slots in puller hitch and are in locked down position.
Hydraulic Hose Hook-up

**WARNING**
To avoid 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.**

**IMPORTANT:** Collect and dispose all oil spills and leaks in an environmentally safe manner.

**IMPORTANT:** Hose routing is the responsibility of the owner/operator. Pinched and/or stretched hoses are not covered under the warranty.

**IMPORTANT:** Make sure coupler fittings on the hydraulic hoses and power machine are clean before connecting them together.

**NOTE:** If attaching to a Kubota skid steer, route hydraulic hoses through Kubota’s SVL or SSV Hose Stay as shown in Figure 1-2. 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.

Refer to Figure 1-1 on page 9:
1. Route hydraulic hoses (#1 & #2) through hose holder (#3) and along the most convenient path to access your skid steer couplers. See note above.
2. Clean quick connect couplers of dirt and then connect hoses (#1 & #2) to the skid steer couplers.
3. Make sure quick connect couplers are fully engaged. If not, check couplers to see if they are same size and type. Also, make sure all hydraulic pressure to the couplers has been released.
4. Extend and retract hydraulic cylinder with skid steer controls. Switch male and female couplers on the hydraulic hoses if hydraulic cylinder operates opposite direction intended, and then reconnect hoses to skid steer couplers.

5. For additional help, refer to Hydraulic Hook-Up in your skid steer Operator’s Manual.

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Purge Hydraulic System

Refer to Figure 1-3:

**IMPORTANT:** Purge hydraulic cylinders and/or hoses of air before putting the equipment into service. Not purging the system can cause uneven cylinder movement and positioning.

1. With puller raised off the ground about 12”, cycle hydraulic cylinder (#9) from fully extended to fully retracted and back until cylinder operates smoothly.
2. If cylinder (#9) operates unevenly after cycling it several times, purge hydraulic system as follows:
   a. Remove cotter pin (#4) and clevis pin (#5).
   b. Rotate cylinder rod (#9) out as shown.
   c. Remove cotter pin (#4) and cylinder pin (#6).
   d. Slide cylinder shield (#3) over end of cylinder rod (#9) to expose elbow fittings (#7 & #8).
   e. Replace clevis pin (#6) without cotter pin (#4).
   f. Loosen elbow fitting (#7) from cylinder port “A.”
   g. Slowly retract and extend hydraulic cylinder rod (#9) to purge trapped air from the system.
   h. After all trapped air is removed, tighten elbow fitting (#7) to cylinder port “A.”
   i. Loosen elbow fitting (#8) from cylinder port “B.”
   j. Slowly retract and extend hydraulic cylinder rod (#9) to purge trapped air from the system.
   k. After all trapped air is removed, tighten elbow fitting (#8) to cylinder port “B.”
   l. Pull clevis pin (#6) and slide cylinder shield (#3) over cylinder rod (#9).
   m. Attach cylinder shield (#3) and cylinder base (#10) to hitch frame (#1) with clevis pin (#6).
   n. Attach rod end (#9) to jaw (#2) with clevis pin (#5).
   o. Insert both cotter pins (#4). Bend one or both legs of each cotter pin to keep them from falling out.
Section 1: Assembly & Set-up

Unhook Tree/Post Puller
Refer to Figure 1-4:
1. Park skid steer on a solid surface that is flat and level.
2. Retract hydraulic cylinder (#4) to keep cylinder rod from being exposed to the elements.
3. Lower Tree/Post Puller onto the ground.
4. Engage park brake, turn off engine, and remove key to prevent unauthorized starting.
5. If included, raise seat bar and move skid steer controls until both are locked.
6. Use steps, grab-handles and anti-slip surfaces when stepping on and off the skid steer.
7. Release all hydraulic system pressure before disconnecting hydraulic hoses from the skid steer. Refer to your Skid Steer Operator's Manual for detailed instructions.
8. Disconnect hydraulic hoses (#1 & #2) from skid steer. Store hoses on the Tree/Post Puller frame to keep dirt away from the couplings.
9. Disengage lock pins to clear bottom slots in hitch plate.
10. Start skid steer engine and tilt top of skid steer hitch slightly forward.
11. Slowly lower skid steer hitch until it has separated from the Tree/Post Puller top angle bar.
12. Back skid steer slowly away while making sure the skid steer hitch does not interfere with the puller.
13. Shut skid steer down to check overturn stability of the unhooked Tree/Post Puller. Refer to “Skid Steer Shutdown Procedures” on page 12.
14. Make sure the unit will not tip over. If needed, add bracing to keep unit from overturning.

Equipment Clearances
Refer to Figure 1-4:
It is important to check clearance before putting the Tree/Post Puller into service. Make sure hoses are long enough and won’t become pinched or entangled.

1. Visually inspect hydraulic hoses for possible pinch points or shortness. Make hose adjustments before operating hydraulics to check clearances.
2. Start skid steer and raise puller approximately 30" off the ground.
3. If necessary, have someone stand nearby that can motion for the operator to stop if a problem develops.
4. Fully extend and retract hydraulic cylinders on end of loader arms while watching for interferences between loader arms and Tree/Post Puller. Stop movement if hydraulic hoses are starting to stretch, kink, pinch, or become entangled.
5. Raise puller fully up and repeat step 4.
6. Lower puller to about 12" off the ground.

Tree/Post Puller Hook-up & Unhook
Figure 1-4

TOP ANGLE BAR

BOTTOM SLOTS

Refer to Figure 1-4:
- Park skid steer on a solid surface that is flat and level.
- Retract hydraulic cylinder (#4) to keep cylinder rod from being exposed to the elements.
- Lower Tree/Post Puller onto the ground.
- Engage park brake, turn off engine, and remove key to prevent unauthorized starting.
- If included, raise seat bar and move skid steer controls until both are locked.
- Use steps, grab-handles and anti-slip surfaces when stepping on and off the skid steer.
- Release all hydraulic system pressure before disconnecting hydraulic hoses from the skid steer. Refer to your Skid Steer Operator's Manual for detailed instructions.
- Disconnect hydraulic hoses (#1 & #2) from skid steer. Store hoses on the Tree/Post Puller frame to keep dirt away from the couplings.
- Disengage lock pins to clear bottom slots in hitch plate.
- Start skid steer engine and tilt top of skid steer hitch slightly forward.
- Slowly lower skid steer hitch until it has separated from the Tree/Post Puller top angle bar.
- Back skid steer slowly away while making sure the skid steer hitch does not interfere with the puller.
- Shut skid steer down to check overturn stability of the unhooked Tree/Post Puller. Refer to “Skid Steer Shutdown Procedures” on page 12.
- Make sure the unit will not tip over. If needed, add bracing to keep unit from overturning.
Introduction
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 Tree/Post Puller. Therefore, it is absolutely essential that no one operates the Tree/Post Puller unless they are age 16 or older and have read, fully understood, and are totally familiar with the Operator’s Manual. Make sure the operator has paid particular attention to:

• Important Safety Information, page 1
• Section 1: Assembly & Set-up, page 9
• Section 2: Operating Procedures, page 12
• Section 3: Maintenance & Lubrication, page 16

Perform the following inspections before using your Tree/Post Puller.

Skid Steer Shutdown Procedures
Always shut down skid steer before dismounting.

1. Reduce engine speed, park on solid, level ground, engage park brake, lower puller to the ground, turn off engine, and remove key to prevent unauthorized starting.

2. If included, raise seat bar and move skid steer controls until both are locked.

3. Make sure all moving parts have stopped before dismounting skid steer.

Refer to Figure 2-1:

4. Use steps, grab-handles and anti-slip surfaces when stepping on and off the skid steer or attachment.

Pre-Operational Safety Check
Make the following inspections with Tree/Post Puller resting on the ground, attached to the skid steer, and skid steer shut down properly. Refer to “Skid Steer Shutdown Procedures” above.

1. Complete Operating Checklist table provided above.

Operational Safety Check
The remaining inspections are made with the skid steer engine running.

1. Start skid steer and set throttle to idle or slightly above idle.

2. Operate hydraulic controls to verify control lever movements function properly and hydraulic cylinder extends and retracts correctly.

3. Shut skid steer down properly and make any necessary changes to the controls and hydraulic connections before continuing.

4. Operate loader arms through their full range of movements to check for clearances. Refer to “Equipment Clearances” on page 11.
Operating Safety

⚠️ DANGER

To avoid serious injury or death:

- A Crushing hazards always exist around attachments. A person can become pinched or crushed as the attachment is rotated, raised, and/or lowered. Objects in the attachment can shift and fall.
- 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.
- Always reduce pulling forces once a tree or post starts to pull loose from the ground. Large trees can require high pulling forces that can cause the skid steer to quickly rock back when the tree suddenly breaks loose from the ground or if the jaws slip instantaneously on the tree or post.
- Always be aware of a falling tree hazard. Any tree can fall that has lost a part of its root support. Be especially cautious of falling trees when pulling large trees.
- 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.
- Keep bystanders, pets, and livestock away from your work area. Never allow anyone to go near or under the attachment or its load. The attachment and/or load can fall.
- Do not drive up to anyone or an animal in front of a fixed object such as a wall or bench. Never assume that the power machine will stop in time.
- Maximum lift capacity should never exceed the power machine’s rated lift capacity. Exceeding rated capacity can result in equipment damage or a roll over that can cause injury or death.

⚠️ 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.
- 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.
- Do not abuse equipment. Incorrect use of the attachment can damage equipment structurally and cause serious injury or death.
- Never carry riders on the attachment 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.
- Operate only power machines equipped with a certified Roll-Over Protective Structure (ROPS) and seat belt. Keep folding ROPS in the “locked up” position when appropriate. If ROPS is in the locked up position, fasten seat belt snugly and securely to help protect against serious injury or death from falling and machine overturn.
- Always use a skid steer with a polycarbonate cab door when pulling, transporting, and releasing trees. Roots and tree limbs can come into the cab.
- Always position the jaws of the Tree/Post Puller near the ground when grabbing on to a tree or post. Lift straight up and don’t tilt backwards or forwards. This will help prevent the tree or post from hitting the operators cab.
- Check hitch fit-up frequently. An improper fit-up can cause the attachment to come loose from the loader hitch plate and fall.
- Do not chain or strap loads to the loader arms, hitch, or attachment. Hitting solid objects with a load fastened to the attachment or machine can cause the operator to lose control.
- Do not use attachment as a lifting device for people or as a work platform. It is not properly designed or guarded for this use.
- 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.
- Do not use attachment to pull and/or pry objects out of the ground or for digging into the ground. It is not properly designed or guarded for this use.
- Do not use attachment to lift the front or back of the power machine off the ground. Doing so can damage the attachment, power machine, and/or cause serious injury or death.
- 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.
- 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.
• 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.

• Wear appropriate personal protective gear, including eye protection when appropriate, when operating a power machine without an enclosure or protective shield. Dust and debris can get into the eyes.

• 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.

IMPORTANT: Always close jaws against each other before digging into the soil. Digging with jaws spread apart can damage the frame, pivoting jaw, hydraulic cylinder, and pivot pins.

Transport Safety

DANGER
To avoid serious injury or death:
• The operator of this attachment must know how to control the power machine with attachment and how to stop them quickly in an emergency.
• 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.

WARNING
To avoid serious injury or death:
• Always transport loads as close to the ground as possible without hitting objects. A load carried high could shift causing the load to fall, tipping of the machine, and/or loss of control.
• Transport with load upright to help keep it from falling. Never tilt load toward the operator.
• Always transport over ramps and inclines with the heavy end of the power machine on the “uphill” side. This may require one to drive up and back down inclines.
• Always travel straight up and straight down inclines. Make turns only on level ground.
• Transporting loads across inclines, over ramps, on bumpy, soft, or slippery surfaces reduces machine stability and lift capacity. Transporting and lifting loads under these conditions is extremely dangerous. Follow all transport instructions in your power machine Operator’s Manual.
• Never transport a load on roadways.
• When traveling on public roads, use LED lights, slow moving vehicle sign, clean reflectors, and other adequate devices to warn operators in other vehicles of your presence. If implement blocks visibility of slow moving vehicle sign, relocate sign so it is visible from the back at all times. Always comply with all federal, state, and local laws.
General Operation

By now you should have familiarized yourself with the Operator’s Manual for your STP15 Tree/Post Puller. If you have not done so, please do so now. We cannot overstate the importance of reading and following the safety information and operating procedures that are spelled out in this Manual.

The skid steer should have a door on its cab to operate the Tree/Post Puller safely. It will help stop tree limbs and roots from coming into the cab.

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.

Proceed by getting into the seat of your skid steer and fastening your seat belt before starting your skid steer. It won’t take you long to learn how to use your new Kubota Tree/Post Puller, but we do recommend that you take a little time to practice securely attaching and detaching your Tree/Post Puller to and from your skid steer mounting hitch plate. It is also important to practice maneuvering the Tree/Post Puller by raising and lowering the puller and tilting the hitch forward and backward until you have gained the confidence and skill needed to have a good feel in what you are doing.

If you have not already done so, have the site marked with flags to indicate where underground utilities run. Also check for overhead obstructions and place orange warning signs under overhead electrical power lines indicating type of danger above.

It is now time to start removing those unwanted trees and/or posts. The maximum size of tree or post that can be pulled will vary depending on condition of the soil, diameter and species of the tree, and size of the skid steer pulling the tree or post. Pull only trees and posts that are 10” and under in diameter.

Start by opening the jaws and lowering the puller close to the ground. Move slowly forward to capture the tree inside and to the back of the jaws. Close jaws against the tree to drive the teeth into the tree. Be careful not to close the jaws so tight as to shear off the tree or post.

Raise skid steer loader arms up to pull a post or tree out of the ground. If assistance is needed, move forward and backward while pulling. Some side to side movement may also be applied to assist pulling.

Larger trees and posts that require higher forces can suddenly break loose from the ground resulting in a sudden uplift at the front of the skid steer. To guard against this, ease off on the lift cylinders once the tree or post starts to pull loose from the ground. At this time, exert only enough force to slowly raise the post or tree from the ground.

Some trees may require the roots to be excavated. Use the spade points on the end of the jaws to do this. Always close jaws tight against each other before digging into the soil. Rotate top of skid steer hitch plate forward to angle spades into the soil. Dig under the roots and rotate top of skid steer hitch back and raise skid steer loader arms up to rip individual roots from the ground. Continue to dig around the base of the tree in this fashion until all major roots have been ripped from the soil or broken into.

As conditions allow, several smaller trees can be accumulated inside the jaws of the Tree/Post Puller before disposing of them on a tree pile. Simple carry the first tree pulled to the next tree, lower the Tree/Post Puller down, and open its jaws to capture the next tree while keeping the first tree still inside the jaws. Close jaws around both trees and pull. Continue to capture other small trees using this method until the jaws have exceed their ability to hold more trees.

When ready, transport post(s) and/or tree(s) upright in the jaws to the pile. At the pile, rotate top of skid steer hitch plate forward to place the tree(s) or post(s) onto the pile. Release the grip the jaws have on the post(s) or tree(s).
Section 3: Maintenance & Lubrication

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

Check all bolts and pins after using the puller for several hours and on a regular basis thereafter to ensure they are tight and secured.

Check hitch fit-up, hydraulic hoses, and fittings on a regular basis to ensure trash or other objects have not loosened the hitch connection or damaged hydraulic hoses and fittings.

Replace worn, damaged, or missing parts only with genuine Kubota parts.

Replace illegible or missing safety labels by obtaining new labels from your Kubota dealer.

⚠️ DANGER
To avoid serious injury or death:
Always secure equipment with solid, non-concrete supports before working under it. Never go under equipment supported by concrete blocks or hydraulics. Concrete can break, hydraulic lines can burst, and/or hydraulic controls can be actuated even when power to hydraulics is off.

⚠️ WARNING
To avoid serious injury or death:
- Allow only persons to perform maintenance on this attachment who have been properly trained in its safe operation.
- Check hitch fit-up frequently. An improper fit-up can cause the attachment to come loose from the loader hitch plate and fall.
- Check hydraulic hoses and fittings frequently. Brush and other debris can damage hoses and fittings causing the load to release and fall.
- Perform scheduled maintenance. Check for loose hardware, missing parts, broken parts, structural cracks, and excessive wear. Make repairs before putting implement back into service.
- Do not alter implement or replace parts on the implement with other brands. Other brands may not fit properly or meet OEM (Original Equipment Manufacturer) specifications. They can weaken the integrity and impair the safety, function, performance, and life of the implement. Replace parts only with genuine OEM parts.
- 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.

Skid Steer Maintenance
One of the most important things you can do to prevent hydraulic system problems is to ensure your skid steer hydraulic system remains free of dirt and contamination. Use a clean cloth to wipe hose ends before attaching them to your skid steer. Replace your skid steer’s hydraulic filter element at the prescribed intervals. These simple maintenances will go a long way to prevent occurrence of control valve and hydraulic cylinder problems.

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

1. Clean off any dirt and grease that may have accumulated on the puller. Scrape off compacted dirt and then wash the surface thoroughly with a garden hose.
2. Inspect puller for loose, damaged, or worn parts and adjust or replace when needed.
3. 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.
4. Replace all damaged or missing guards & decals.
5. Lubricate as noted under “Lubrication Points” on page 17.

Touch-Up Paint

<table>
<thead>
<tr>
<th>Part No.</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. Store Tree/Post Puller with hydraulic cylinder fully retracted. This will help protect the cylinder rod again corrosion.
7. Store Tree/Post Puller on a level surface in a clean, dry place with hydraulic cylinder fully retracted. Inside storage will reduce maintenance and make for a longer Tree/Post Puller life.
8. Do not allow children to play on or around the stored puller.
Lubrication Points

Main Pivot Pin

1 - Zerk
Type of Lubrication: Multi-purpose Grease
Quantity = Until grease emerges

Clevis Pin, Cylinder Rod End

1 - Zerk
Type of Lubrication: Multi-purpose Grease
Quantity = Until grease emerges

Clevis Pin, Cylinder Base End

1 - Zerk
Type of Lubrication: Multi-purpose Grease
Quantity = Until grease emerges
### Specifications & Capacities

<table>
<thead>
<tr>
<th>Specification</th>
<th>Measurement</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Weight</strong></td>
<td>lbs (kg)</td>
<td>228 (103.4)</td>
</tr>
<tr>
<td><strong>Hitch</strong></td>
<td></td>
<td>Universal quick attach hitch</td>
</tr>
<tr>
<td><strong>Frame construction</strong></td>
<td>Lower</td>
<td>3/16 x 3 1/2 (.5 x 8.9) Square tube</td>
</tr>
<tr>
<td></td>
<td>Upper</td>
<td>3/16 x 3 (.5 x 7.6) Square tube</td>
</tr>
<tr>
<td><strong>Jaw opening</strong></td>
<td>in (cm)</td>
<td>10 (25.4) Maximum</td>
</tr>
<tr>
<td><strong>Jaw construction</strong></td>
<td>Teeth Tips</td>
<td>Laser cut from 5/8 (1.6) steel x 16 (40.6) long Angled for digging</td>
</tr>
<tr>
<td><strong>Jaw pivot pin</strong></td>
<td>in (cm)</td>
<td>Greasable pin constructed of solid 2 1/2 (6.4) diameter steel</td>
</tr>
<tr>
<td><strong>Hydraulic cylinder</strong></td>
<td>in (cm)</td>
<td>2 x 8 x 1 1/8 (5.1 x 20.3 x 2.9) Welded hydraulic cylinder</td>
</tr>
<tr>
<td><strong>Hydraulic cylinder pivot pins</strong></td>
<td></td>
<td>Greasable</td>
</tr>
<tr>
<td><strong>Cylinder guard</strong></td>
<td>in (mm)</td>
<td>3/16 (5) Welded steel plate</td>
</tr>
<tr>
<td><strong>Quick disconnect couplers</strong></td>
<td></td>
<td>Small flat face male &amp; female couplers</td>
</tr>
<tr>
<td><strong>Maximum pressure rating</strong></td>
<td>psi (mPa)</td>
<td>3500 (24.1)</td>
</tr>
</tbody>
</table>

![Diagram of STP15 Tree/Post Puller](image)

37772
## Section 5: Features and Benefits

<table>
<thead>
<tr>
<th>Features</th>
<th>Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Universal quick attach mount</td>
<td>Fits a wide range of tractors and skid steers. Easy to hook-up and unhook.</td>
</tr>
<tr>
<td>Heavy square tube frame</td>
<td>3 1/2&quot; Lower and 3&quot; upper main frame tubes provide good strength.</td>
</tr>
<tr>
<td>Rectangular tube supports</td>
<td>Stronger than sheet steel gussets most competitors use.</td>
</tr>
<tr>
<td>2 1/2&quot; Main pivot pin</td>
<td>Large diameter pin handles heavy working conditions.</td>
</tr>
<tr>
<td>Large jaw opening</td>
<td>Can pull trees up to 10&quot; in diameter.</td>
</tr>
<tr>
<td>Greasable pivot points</td>
<td>All pivot points are greasable to reduce wear.</td>
</tr>
<tr>
<td>Cylinder shield standard</td>
<td>Heavy duty shield protects cylinder and fittings.</td>
</tr>
<tr>
<td>Angled jaw tips.</td>
<td>For digging roots and loosening soil around the base of trees.</td>
</tr>
<tr>
<td>Anti-slip access points</td>
<td>Prevents slipping while entering skid steer.</td>
</tr>
<tr>
<td>Supplied with Quick Disconnect couplers</td>
<td>Many competitors do not supply couplers.</td>
</tr>
</tbody>
</table>
## Troubleshooting Chart

<table>
<thead>
<tr>
<th>Problem</th>
<th>Cause</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydraulic cylinder is not operating</td>
<td>Quick couplings did not engage.</td>
<td>Reconnect quick couplings to skid steer.</td>
</tr>
<tr>
<td></td>
<td>Skid steer hydraulic flow is not engaged.</td>
<td>Engage skid steer hydraulics.</td>
</tr>
<tr>
<td></td>
<td>Hydraulic flow from skid steer is inadequate</td>
<td>Check hydraulic flow at the puller.</td>
</tr>
<tr>
<td></td>
<td>Skid steer is low on hydraulic oil.</td>
<td>Add hydraulic oil to skid steer.</td>
</tr>
<tr>
<td></td>
<td>Hydraulic hose has a break.</td>
<td>Replace hydraulic hose.</td>
</tr>
<tr>
<td></td>
<td>Hydraulic hose has an obstruction.</td>
<td>Remove obstruction or replace hose.</td>
</tr>
<tr>
<td></td>
<td>Hydraulic line is pinched</td>
<td>Fix pinched line.</td>
</tr>
<tr>
<td></td>
<td>Hydraulic lines have air in them.</td>
<td>Engage hydraulics to puller until air is purged from hydraulic lines.</td>
</tr>
<tr>
<td></td>
<td>Hydraulic cylinder is damaged.</td>
<td>Repair hydraulic cylinder.</td>
</tr>
<tr>
<td></td>
<td>Cylinder rod is bent.</td>
<td>Replace cylinder rod.</td>
</tr>
<tr>
<td>Tree does not pull</td>
<td>The tree has a well developed root system.</td>
<td>Some species of trees are stronger than others and won’t pull as easily. Learn maximum sizes of each species that can be pulled. Don’t exceed 10” with any species.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Move skid steer forward and backward to assist in breaking the roots free. Side to side movement can also assist. Use spade end of jaws to dig roots free and to tear roots from the soil.</td>
</tr>
<tr>
<td></td>
<td>Soil is too wet to support the skid steer.</td>
<td>Wait for the soil to dry enough to support the skid steer.</td>
</tr>
<tr>
<td></td>
<td>Soil is very dry and hard.</td>
<td>Try pulling trees once ground has firmed up after a rain.</td>
</tr>
<tr>
<td>Post does not pull</td>
<td>Soil is too wet to support the skid steer.</td>
<td>Wait for the soil to dry enough to support the skid steer.</td>
</tr>
<tr>
<td></td>
<td>Soil is very dry and hard.</td>
<td>Try pulling posts once ground has firmed up after a rain.</td>
</tr>
</tbody>
</table>
# Torque Values Chart for Common Bolt Sizes

<table>
<thead>
<tr>
<th>Bolt Size (inches)</th>
<th>Grade 2</th>
<th>Grade 5</th>
<th>Grade 8</th>
<th>Bolt Size (Metric)</th>
<th>Class 5.8</th>
<th>Class 8.8</th>
<th>Class 10.9</th>
</tr>
</thead>
<tbody>
<tr>
<td>in-tpi 1</td>
<td>N · m 2</td>
<td>ft-lb 3</td>
<td>N · m</td>
<td>ft-lb</td>
<td>N · m</td>
<td>ft-lb</td>
<td>N · m</td>
</tr>
<tr>
<td>1/4&quot; - 20</td>
<td>7.4</td>
<td>5.6</td>
<td>11</td>
<td>8</td>
<td>16</td>
<td>12</td>
<td>M 5 X 0.8</td>
</tr>
<tr>
<td>1/4&quot; - 28</td>
<td>8.5</td>
<td>6</td>
<td>13</td>
<td>10</td>
<td>18</td>
<td>14</td>
<td>M 6 X 1</td>
</tr>
<tr>
<td>5/16&quot; - 18</td>
<td>15</td>
<td>11</td>
<td>24</td>
<td>17</td>
<td>33</td>
<td>25</td>
<td>M 8 X 1.25</td>
</tr>
<tr>
<td>5/16&quot; - 24</td>
<td>17</td>
<td>13</td>
<td>26</td>
<td>19</td>
<td>37</td>
<td>27</td>
<td>M 8 X 1</td>
</tr>
<tr>
<td>3/8&quot; - 16</td>
<td>27</td>
<td>20</td>
<td>42</td>
<td>31</td>
<td>59</td>
<td>44</td>
<td>M10 X 0.75</td>
</tr>
<tr>
<td>3/8&quot; - 24</td>
<td>31</td>
<td>22</td>
<td>47</td>
<td>35</td>
<td>67</td>
<td>49</td>
<td>M10 X 1.5</td>
</tr>
<tr>
<td>7/16&quot; - 14</td>
<td>43</td>
<td>32</td>
<td>67</td>
<td>49</td>
<td>95</td>
<td>70</td>
<td>M12 X 1.75</td>
</tr>
<tr>
<td>7/16&quot; - 20</td>
<td>49</td>
<td>36</td>
<td>75</td>
<td>55</td>
<td>105</td>
<td>78</td>
<td>M12 X 1.5</td>
</tr>
<tr>
<td>1/2&quot; - 13</td>
<td>66</td>
<td>49</td>
<td>105</td>
<td>76</td>
<td>145</td>
<td>105</td>
<td>M12 X 1</td>
</tr>
<tr>
<td>1/2&quot; - 20</td>
<td>75</td>
<td>55</td>
<td>115</td>
<td>85</td>
<td>165</td>
<td>120</td>
<td>M14 X 2</td>
</tr>
<tr>
<td>9/16&quot; - 12</td>
<td>95</td>
<td>70</td>
<td>150</td>
<td>110</td>
<td>210</td>
<td>155</td>
<td>M14 X 1.5</td>
</tr>
<tr>
<td>9/16&quot; - 18</td>
<td>105</td>
<td>79</td>
<td>165</td>
<td>120</td>
<td>235</td>
<td>170</td>
<td>M16 X 2</td>
</tr>
<tr>
<td>5/8&quot; - 11</td>
<td>130</td>
<td>97</td>
<td>205</td>
<td>150</td>
<td>285</td>
<td>210</td>
<td>M16 X 1.5</td>
</tr>
<tr>
<td>5/8&quot; - 18</td>
<td>150</td>
<td>110</td>
<td>230</td>
<td>170</td>
<td>325</td>
<td>240</td>
<td>M18 X 2.5</td>
</tr>
<tr>
<td>3/4&quot; - 10</td>
<td>235</td>
<td>170</td>
<td>360</td>
<td>265</td>
<td>510</td>
<td>375</td>
<td>M18 X 1.5</td>
</tr>
<tr>
<td>3/4&quot; - 16</td>
<td>260</td>
<td>190</td>
<td>405</td>
<td>295</td>
<td>570</td>
<td>420</td>
<td>M20 X 2.5</td>
</tr>
<tr>
<td>7/8&quot; - 9</td>
<td>225</td>
<td>165</td>
<td>585</td>
<td>430</td>
<td>820</td>
<td>605</td>
<td>M20 X 1.5</td>
</tr>
<tr>
<td>7/8&quot; - 14</td>
<td>250</td>
<td>185</td>
<td>640</td>
<td>475</td>
<td>905</td>
<td>670</td>
<td>M24 X 3</td>
</tr>
<tr>
<td>1&quot; - 8</td>
<td>340</td>
<td>250</td>
<td>875</td>
<td>645</td>
<td>1230</td>
<td>910</td>
<td>M24 X 2</td>
</tr>
<tr>
<td>1&quot; - 12</td>
<td>370</td>
<td>275</td>
<td>955</td>
<td>705</td>
<td>1350</td>
<td>995</td>
<td>M30 X 3.5</td>
</tr>
<tr>
<td>1-1/8&quot; - 7</td>
<td>480</td>
<td>355</td>
<td>1080</td>
<td>795</td>
<td>1750</td>
<td>1290</td>
<td>M30 X 2</td>
</tr>
<tr>
<td>1-1/8&quot; - 12</td>
<td>540</td>
<td>395</td>
<td>1210</td>
<td>890</td>
<td>1960</td>
<td>1440</td>
<td>M36 X 3.5</td>
</tr>
<tr>
<td>1-1/4&quot; - 7</td>
<td>680</td>
<td>500</td>
<td>1520</td>
<td>1120</td>
<td>2460</td>
<td>1820</td>
<td>M36 X 2</td>
</tr>
<tr>
<td>1-1/4&quot; - 12</td>
<td>750</td>
<td>555</td>
<td>1680</td>
<td>1240</td>
<td>2730</td>
<td>2010</td>
<td>M42 X 5</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 Unit and Driveline:** One year Parts and Labor

**Hydraulic Cylinder:** One year Parts and Labor.

**Hoses and Seals:** Considered wear items.

**Teeth:** Considered wear items.

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

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

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

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

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

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

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

Model Number ____________________ Serial Number ____________________
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