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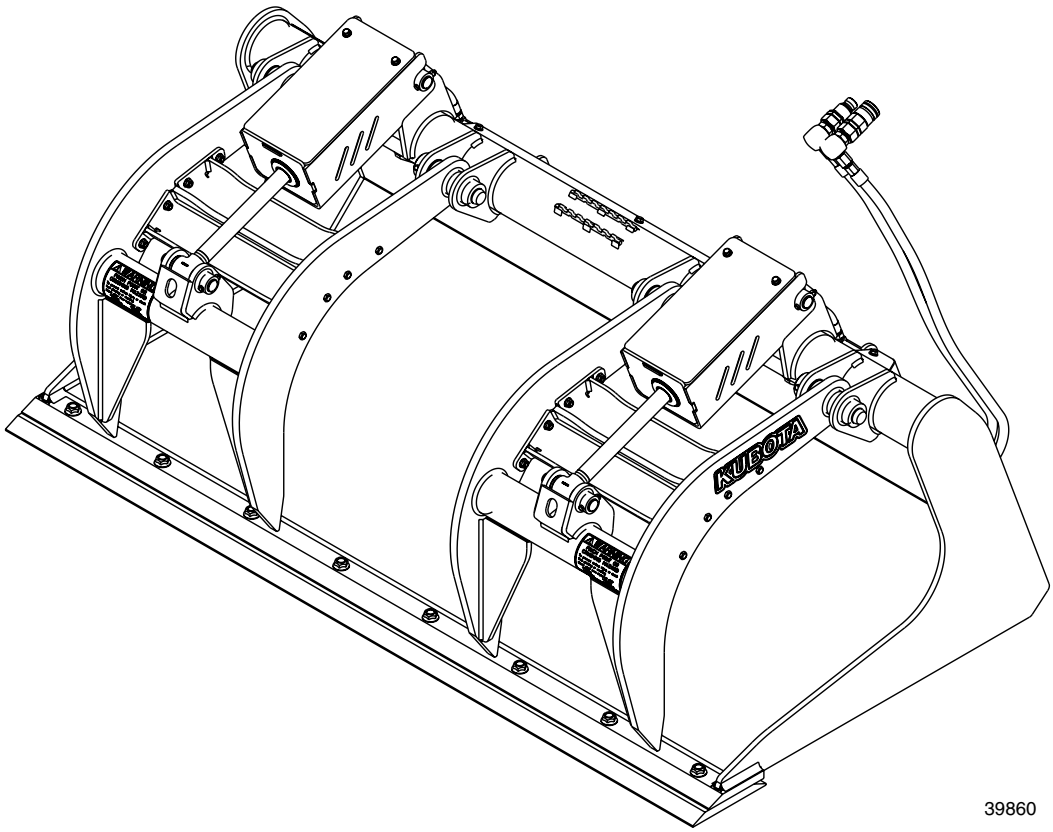
Grapple Bucket

AP-GB3068, AP-GB3074, & AP-GB3080



39860

380-249MK
Operator's Manual

Kubota®

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.

Printed 7/20/21

Machine Identification

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

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

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

Dealer Contact Information

Name: _____

Street: _____

City/State: _____

Telephone: _____

Email: _____

California Proposition 65

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

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Printed in the United States of America.

See previous page for Table of contents.

Parts Manual QR Locator

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

Dealer QR Locator

The QR code on the left will link you to available dealers for 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 the skid steer unattended with the engine running.
- ▲ Do not allow anyone to stand between the 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 and extra precaution must be taken. When you see this symbol, be alert and carefully read the message that follows it. Hazard control, and accident prevention are dependent upon the awareness, concern, prudence, and proper training of personnel involved in the operation, transport, maintenance, and storage of equipment.

Be Aware of Signal Words

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

⚠ DANGER: Indicates a hazardous situation that, if not avoided, will result in death or serious injury.

⚠ WARNING: Indicates a hazardous situation that, if not avoided, could result in death or serious injury.

⚠ CAUTION: Indicates a hazardous situation that, if not avoided, may result in minor or moderate injury.

Be Aware of Special Notices

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

IMPORTANT: Indicates that equipment or property damage could result if instructions are not followed.

NOTE: Indicates supplementary explanations that will be helpful when using the equipment.

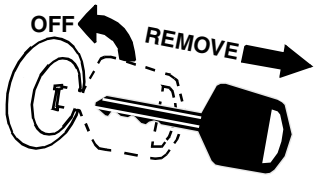
Safety Precautions for Children

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

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

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 on non-concrete support blocks.
- ▲ Turn off engine. Do not remove ignition key at this time.
- ▲ Turn ignition key to the "RUN" position. Relieve all hydraulic pressure by moving both joysticks.
- ▲ Turn ignition key to Off and remove to prevent unauthorized starting.
- ▲ If included, raise seat bar and move controls until both lock.
- ▲ Wait for all components to stop before leaving operator's seat.
- ▲ Use steps, grab-handles and anti-slip surfaces when stepping on and off the skid steer.



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

Dig Safe - Avoid Underground Utilities

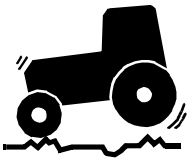
- **USA: Call 811**
  CAN: digsafecanada.ca
  Always contact your local utility companies (electrical, telephone, gas, water, sewer, and others) before digging so that they may mark the location of any underground services in the area.
- Be sure to ask how close you can work to the marks they positioned.

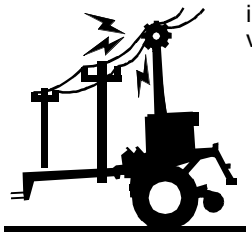
Transport Safely

- 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 unexpectedly. Reduce speed if towed trailer is not equipped with brakes.
- Avoid contact with any overhead utility lines or electrically charged conductors.
- Always drive with load on end of loader arms low to the ground.
- Always drive straight up and down steep inclines with heavy end of skid steer on the “uphill” side.
- Engage park brake when stopped on an incline.
- Maximum transport speed for an attached equipment is 20 mph. 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 properly match the wheel size to the properly sized tire.
- Always maintain correct tire pressure. Do not inflate tires above recommended pressures shown in the Operator’s Manual.
- When inflating tires, use a clip-on chuck and extension hose long enough to allow you to stand to one side and NOT in front of or over the tire assembly. Use a safety cage if available.
- Securely support the attachment when changing a wheel.
- When removing and installing wheels, use wheel handling equipment adequate for the weight involved.
- Make sure wheel bolts have been tightened to the specified torque.

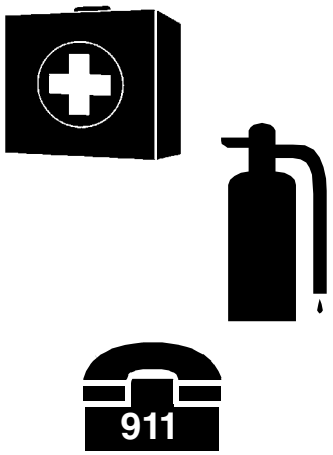
Practice Safe Maintenance

- Understand procedure before doing work. Refer to the Operator’s Manual for additional information.
- Work on a level surface in a clean dry area that is well-lit.
- Lower attachment to the ground and follow all shutdown procedures before leaving the operator’s seat to perform maintenance.
- Do not work under any hydraulically supported equipment. It can settle, suddenly leak down, or be lowered accidentally. If it is necessary to work under the equipment, securely support it with stands or suitable blocking beforehand.
- Use properly grounded electrical outlets and tools.
- Use correct tools and equipment for the job that are in good condition.
- Allow equipment to cool before working on it.
- Disconnect battery ground cable (-) before servicing or adjusting electrical systems or before welding on equipment.
- Inspect all parts. Make certain that parts are in good condition & installed properly.
- Replace parts on this attachment with genuine Kubota parts only. Do not alter this attachment in a way which will adversely affect its performance.
- Do not grease or oil attachment while it is in operation.
- Remove buildup of grease, oil, or debris.
- Always make sure any material and waste products from the repair and maintenance of the attachment are properly collected and disposed.
- 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.

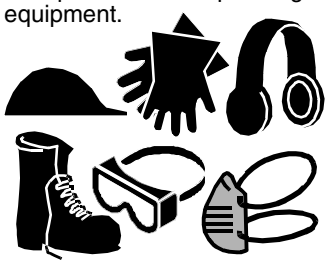
Prepare for Emergencies

- ▲ 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, dust mask, and ear plugs.
- ▲ Clothing should fit snug without fringes and pull strings to avoid entanglement with moving parts.
- ▲ Prolonged exposure to loud noise can cause hearing impairment or hearing loss. Wear suitable hearing protection such as earmuffs or earplugs.
- ▲ Operating a machine safely requires the operator's full attention. Avoid wearing headphones while operating equipment.

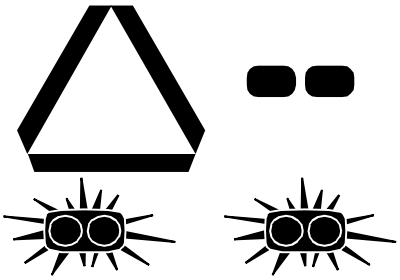


Avoid High Pressure Fluids

- ▲ Escaping fluid under pressure will penetrate the skin or eyes causing serious injury.
- ▲ Relieve all residual pressure before disconnecting hydraulic lines or performing work on the hydraulic system.
- ▲ Make sure all hydraulic fluid connections are properly tightened/torqued and all hydraulic hoses and lines are in good condition before applying pressure to the system.
- ▲ Use a piece of paper or cardboard, NOT BODY PARTS, to check for suspected leaks.
- ▲ Wear protective gloves and safety glasses or goggles when working with hydraulic systems.
- ▲ **DO NOT DELAY.** If an accident occurs, seek immediate emergency medical care or gangrene may result.

Use Safety Lights and Devices

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

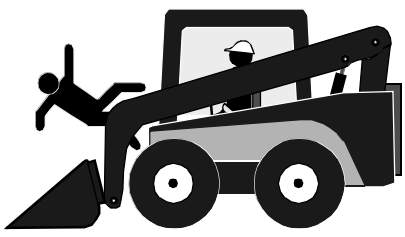


Use Seat Belt and ROPS

- ▲ 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.

Keep Riders Off Machinery

- ▲ Never carry riders on skid steer 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 skid steer or attachment to lift or transport riders.

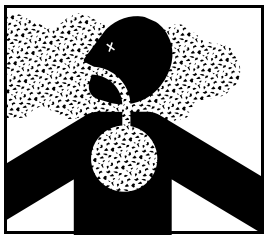


Listed below are common practices that may or may not be applicable to the products described in this manual.

Avoid crystalline Silica (quartz) Dust

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

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



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

Handle Chemicals Properly

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

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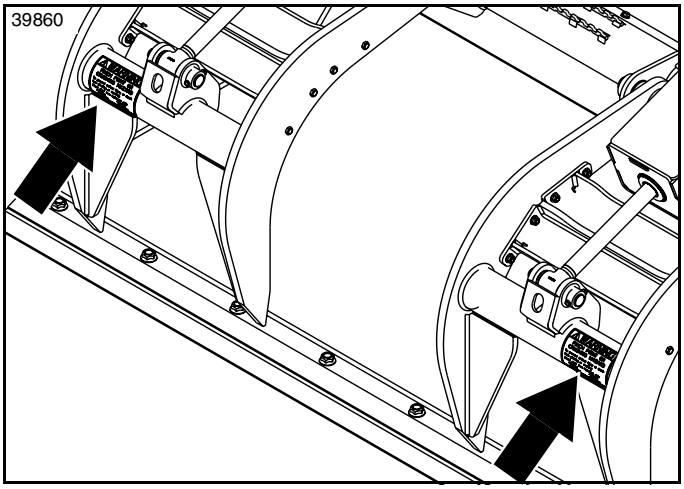
Safety Labels

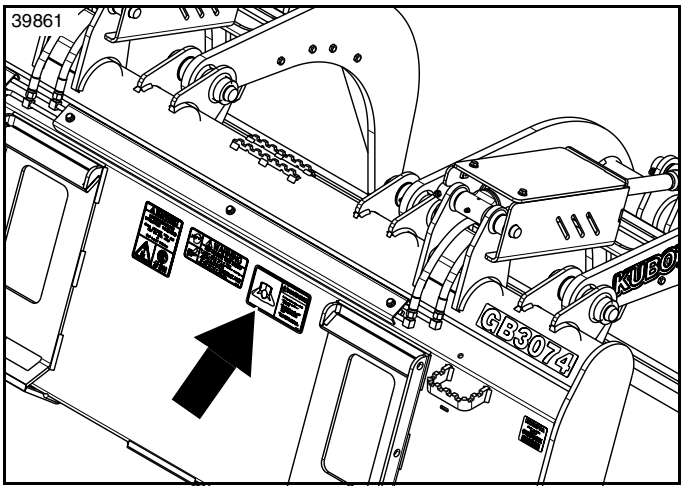
Your Grapple Bucket comes equipped with all safety labels in place. They were designed to help you safely operate your equipment. Read and follow their directions.

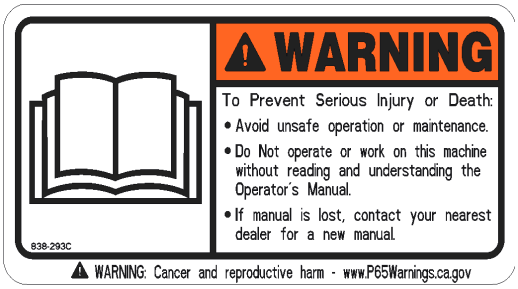
1. *Keep all safety labels clean and legible.*
2. *Refer to this section for proper label placement. Replace all damaged or missing labels. Order new labels from your nearest Kubota dealer. To find your nearest dealer, visit our dealer locator at www.landpride.com.*
3. *Some new equipment installed during 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.*



818-045C

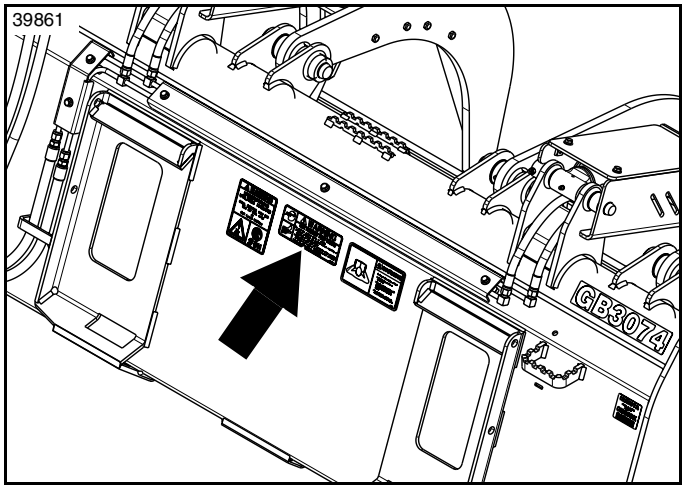
Warning! Pinch Point or Crushing Hazard





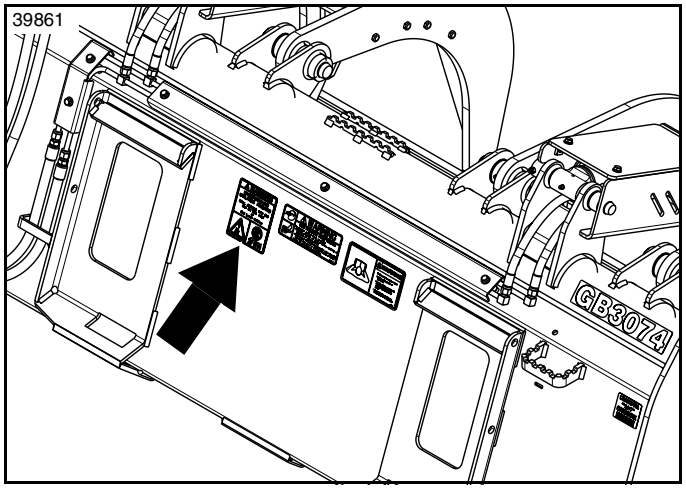
838-293C

Warning! To Prevent Injury or Death



838-094C

Warning! High Pressure Fluid Hazard



858-237C

Warning! Underground Utilities Hazard

Kubota welcomes you to the growing family of new product owners. This Snow Bucket 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 GB30 Series Grapple Bucket is a construction-grade grapple designed with professional contractors in mind. The heavy-duty upper tines aid in grasping and holding as the user is able to roll the bucket forward and clamp debris securely when working with a pile of loose material. The two-piece lower bucket shell is built to retain smaller material but with short side panels to allow longer limbs, post, lumber and other similar items to be cradled and locked to the bucket edges. The optional bolt-on cutting edge allows the GB30 to grade and move debris into a pile. The GB30 is perfect for municipalities, recycling centers, scrap yards, demolition contractors, or in other harsh environments that demand a strong, reliable Grapple Bucket.

The GB30 is available in three different widths: 68", 74", and 80". No matter the model you select, you'll find that the Kubota GB30 Grapple Bucket will save you time and money by quickly and efficiently handling the task at hand.

For additional information and performance enhancing options, see "**Specifications & Capacities**" on page 23 and "**Features & Benefits**" on page 24.

Using This Manual

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

Terminology

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

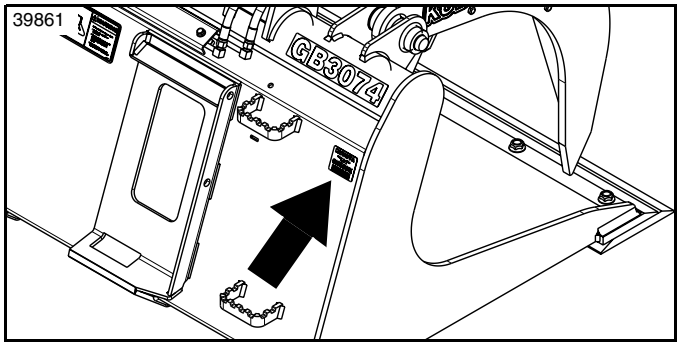
Owner Assistance

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

The parts on your Grapple Bucket 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.



Serial Number Plate Location
Figure 1

Further Assistance

Kubota wants you to be satisfied with your new attachment. 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 GB30 Series Grapple Buckets are designed to attach to a universal quick attach mounting system and will fit all Kubota SSV and SVL machines. Consult the skid steer Operator's Manual for operating capacity, lifting capacity, and operating specifications. They will vary from machine to machine. Do not exceed the rated capacities and specifications of the skid steer.

WARNING

To avoid serious injury or death:

Consult your power machine Operator's Manual for operating capacity, lifting capacity, and operating specifications. Exceeding rated capacities and specifications can result in loss of control, roll-over or other serious hazard.

Torque Requirements

Refer to **"Torque Values Chart"** on page 26 to determine correct torque values when tightening hardware.

Before You Start

Make sure that the intended skid steer conforms to the requirements provided on this page. Also, read and understand this Operator's Manual for your Grapple Bucket. An understanding of how it works will aid in its assembly and set-up.

Go through the **"Pre-Assembly Checklist"** on this page before assembling the Grapple Bucket. To speed up your assembly task and make the job safer, have all needed parts and equipment readily at hand.

Pre-Assembly Checklist

✔	Check	Reference
	Have a fork lift or loader with properly sized chains and safety stands capable of lifting and supporting the equipment on hand.	
	Have a minimum of two people available during assembly.	
	Make sure all major components and loose parts are shipped with the attachment.	Assembly & Set-up
	Double check to make sure all parts, fasteners, and pins are installed in the correct location. Refer to the Parts Manual if unsure. **NOTE:** All assembled hardware from the factory has been installed in the correct location. Remember location of a part or fastener if removed. Keep parts separated.	Parts Manual 380-249PK
	Make sure working parts move freely, bolts are tight & cotter pins are spread.	Operator's Manual
	Make sure all safety labels are correctly located and legible. Replace if damaged.	Page 6
	Make sure all grease fittings are in place and lubricated.	Page 22

Skid Steer Shutdown Procedures

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.

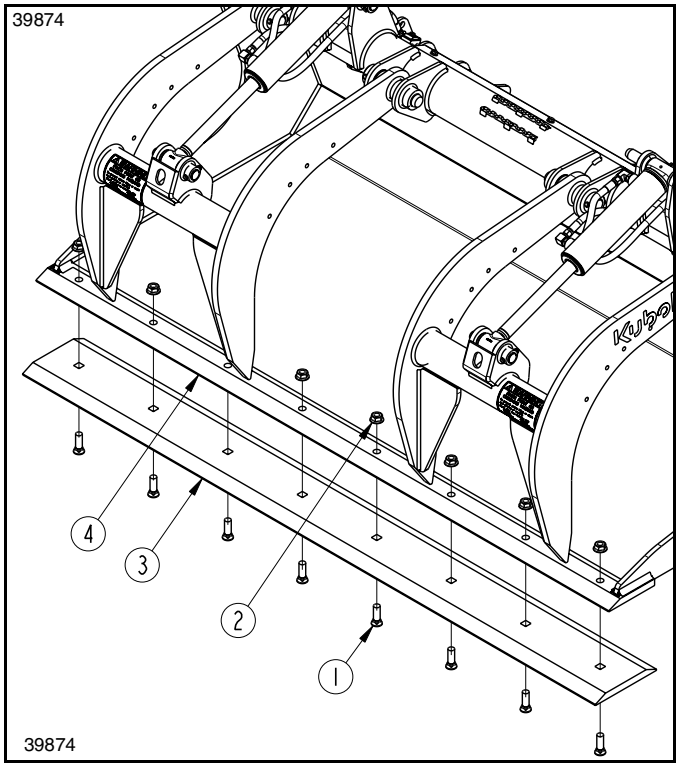
1. Reduce engine speed and shut-off all power to the attachment.
2. Park on solid, level ground and lower attachment until it is flat on the ground or on non-concrete support blocks.
3. Turn off engine. Do not remove ignition key at this time.
4. Turn ignition key to the "RUN" position and relieve all hydraulic pressure by moving both joysticks.
5. Turn ignition key off and remove to prevent unauthorized starting.
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 skid steer or attachment.

Reversible Cutting Edge (Optional)

Refer to Figure 1-1:

The bucket is supplied with a welded-on cutting edge. An optional cutting edge (#3) can be purchased and bolted to the existing cutting edge for high use applications and to extend the life of the welded-on cutting edge. This may be done at the time of purchase or later as needed.

1. Securely support under side of bucket up with support blocks. Make sure support blocks are not placed under welded cutting edge (#4) and that the Grapple Bucket will not rock or tip while supported.
2. Attach optional cutting edge (#3) to the bucket with 5/8"-11 or 3/4"-10 GR8 plow bolts (#1) and hex flange locknuts (#2). Tighten hex flange locknuts to the correct torque. See Figure 3-1 on page 21 for detailed hardware and cutting edge descriptions.



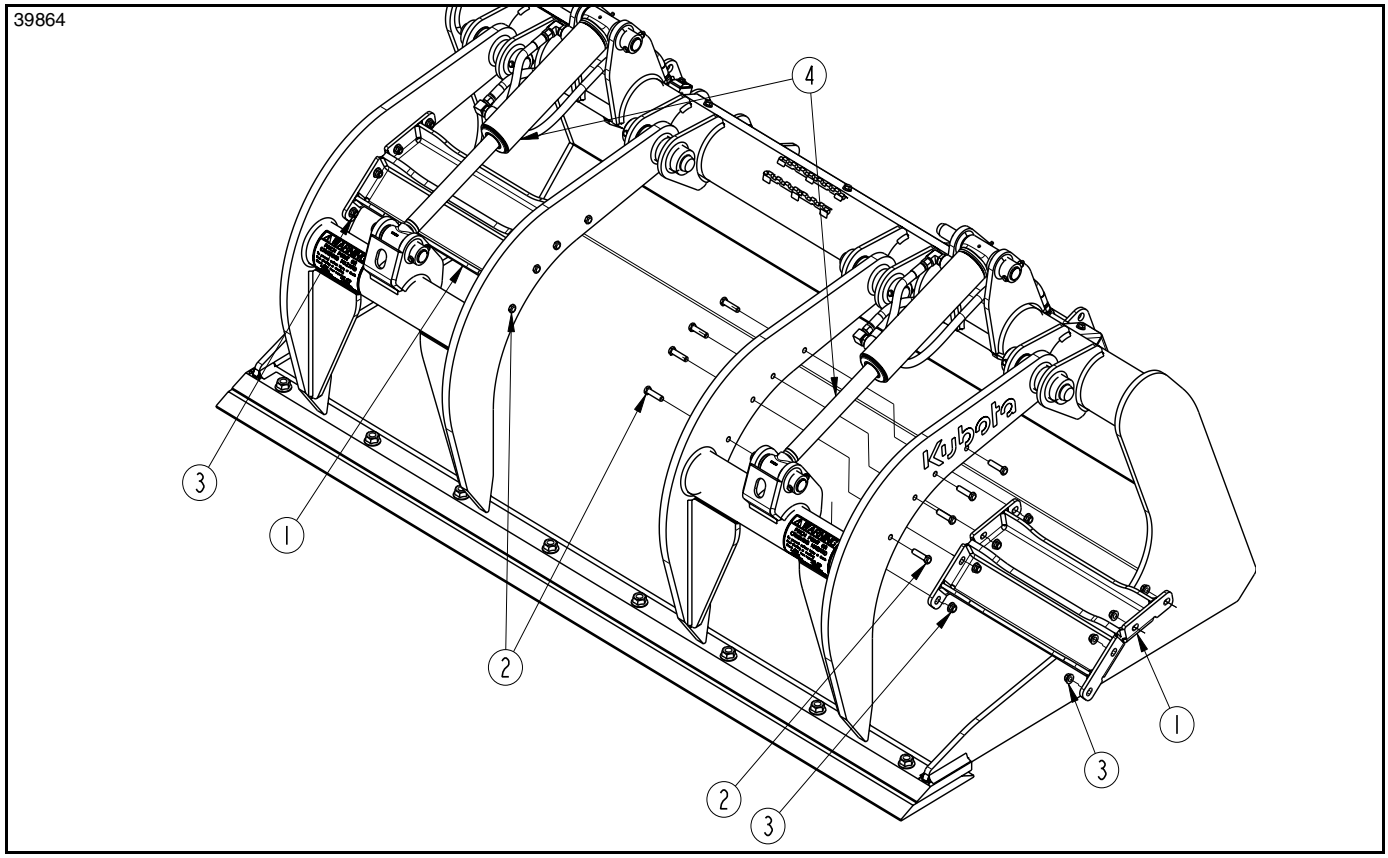
Installation of Optional Reversible Cutting Edge
Figure 1-1

Cylinder Shields (Optional)

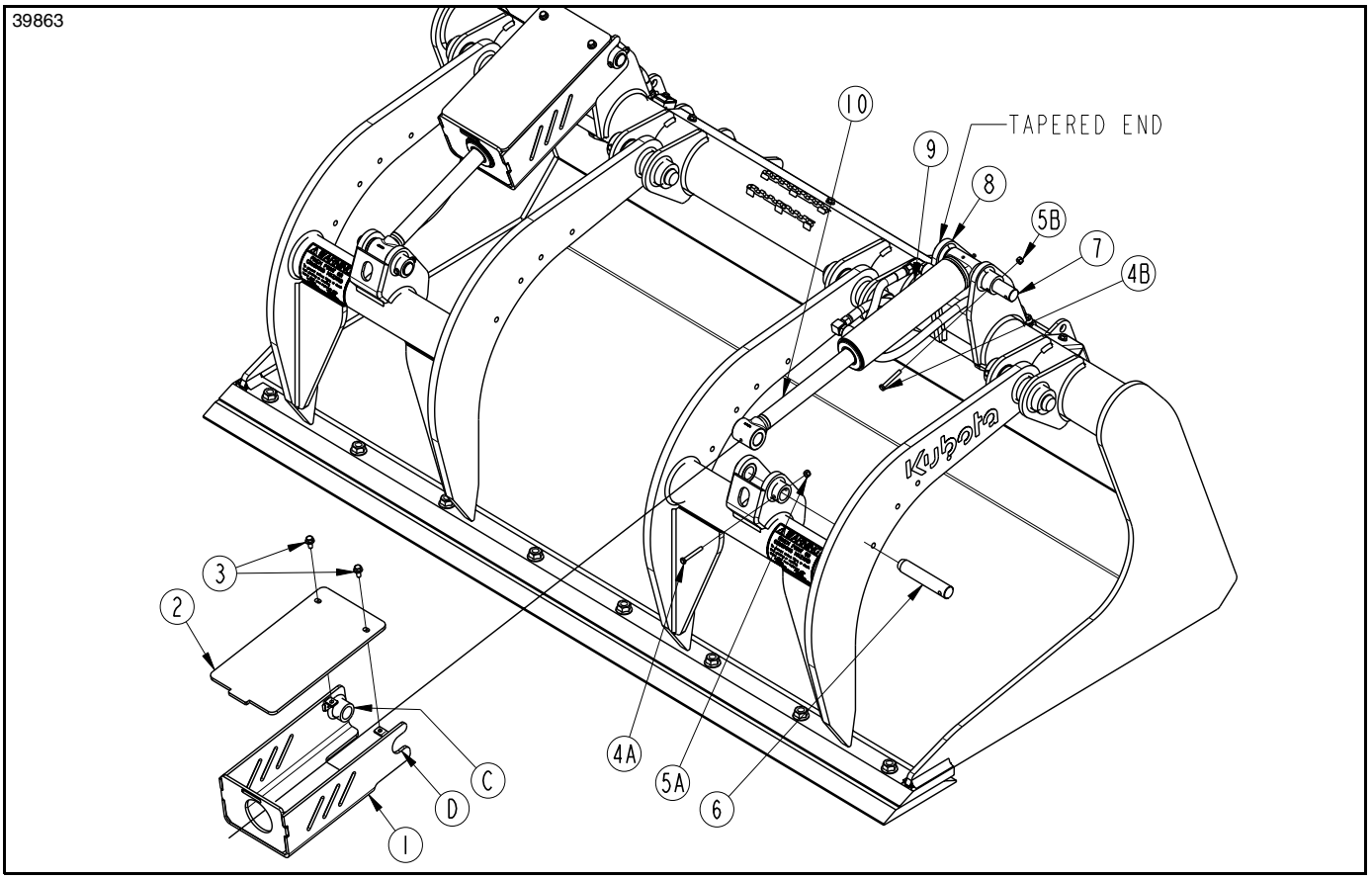
Refer to Figure 1-2

The cylinder shields (#1) can be installed by inserting them beneath the grapple jaws as shown.

1. On the left-hand side, secure cylinder shield (#1) with 3/8"-16 x 1 1/2" GR5 bolts (#2) and hex flange locknuts (#3).
2. Tighten locknuts (#3) to the correct torque.
3. Repeat steps 1 & 2 for the right-hand side.



Installation of Optional Cylinder Shields
Figure 1-2



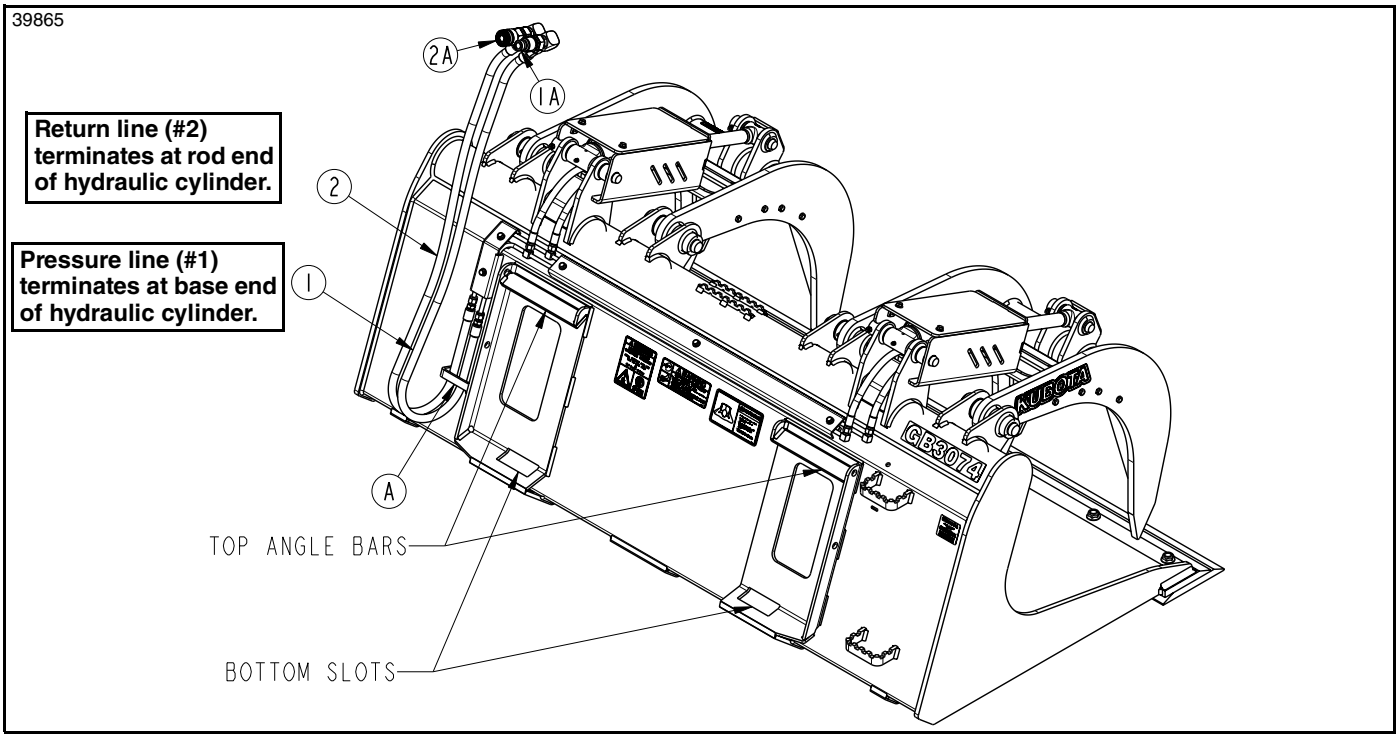
Installation of Optional Hose Shields
Figure 1-3

Hose Shields (Optional)

Refer to Figure 1-3:

The cylinder rod (#10) must be unpinned from the grapple jaws before hose shield (#1) can be installed.

1. On the left-hand side:
   a. Remove hex nylock nut (#5A), bolt (#4A), and pivot pin (#6).
   b. Remove hex nylock nut (#5B) and bolt (#4B).
   c. Do not remove pivot pin (#7). Instead, drive tapered end of pivot pin (#7) to the left toward clevis lug (#8) until it is flush with the lug.
2. Remove bolts (#3) and cover (#2) from hose shield (#1).
3. Slide hose shield (#1) over hydraulic cylinder rod (#10) as shown until pivot hole (C) and pivot slot (D) align with pivot pin (#7).
4. Drive pivot pin (#7) through pivot hole (C).
5. Secure pivot pin (#7) with existing 1/4"-20 x 2" GR5 bolt (#4B) and hex nylock locknut (#5B).
6. Tighten nylock nut (#5B) to the correct torque.
7. Attach rod end (#10) to front clevis plates with existing pivot pin (#6).
8. Secure pivot pin (#6) with existing 1/4"-20 x 2" GR5 bolt (#4A) and hex nylock locknut (#5A).
9. Tighten nylock nut (#5A) to the correct torque.
10. Attach cover (#2) to hose shield (#1) with 5/16"-18 x 5/8" GR5 hex flange serrated screws (#3).
11. Tighten hex flange serrated screws (#3) to the correct torque.
12. Repeat steps 1-11 for the right-hand side.



Hook-up to Grapple Bucket
Figure 1-4

Skid Steer Hook-Up

DANGER

To avoid serious injury or death:

A crushing hazard exists when 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 hydraulic controls while someone is near the power machine and/or attachment.

WARNING

To avoid serious injury or death:

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

Refer to Figure 1-4:

1. Check for and remove any debris in the hitch point areas before hooking-up to the Grapple Bucket.
2. Start skid steer and drive slowly to the bucket hitch making sure the universal quick attach hitch is parallel with the bucket's top angle bar.
3. Rotate top of skid steer tilt arms slightly forward.
4. Place top of skid steer hitch plate under the top angled bar on the bucket and slowly raise hitch plate up until hitch plate is seated under the top angle bar.
5. Rotate top of loader tilt arms back until Grapple Bucket makes full contact with face of hitch plate.
6. If you must dismount skid steer to lock universal quick attach hitch to the Grapple Bucket, then shut power unit down properly before dismounting. Refer to **"Skid Steer Shutdown Procedures"** on page 9.
7. Push lock handles on skid steer hitch down ensuring pins go through bottom slots in the bucket hitch and make sure handles lock down.

Hydraulic Hose Hook-Up

DANGER

To avoid serious injury or death:

Make sure the skid steer has been properly shut down and pressure to the hydraulics has been relieved.

WARNING

To avoid serious injury or death:

Hydraulic fluid under high pressure will penetrate the skin or eyes causing a serious injury. Wear protective gloves and safety glasses or goggles when working with hydraulic systems. Use a piece of cardboard or wood rather than hands when searching for leaks. If an accident occurs, seek immediate emergency medical care or gangrene may result. DO NOT DELAY.

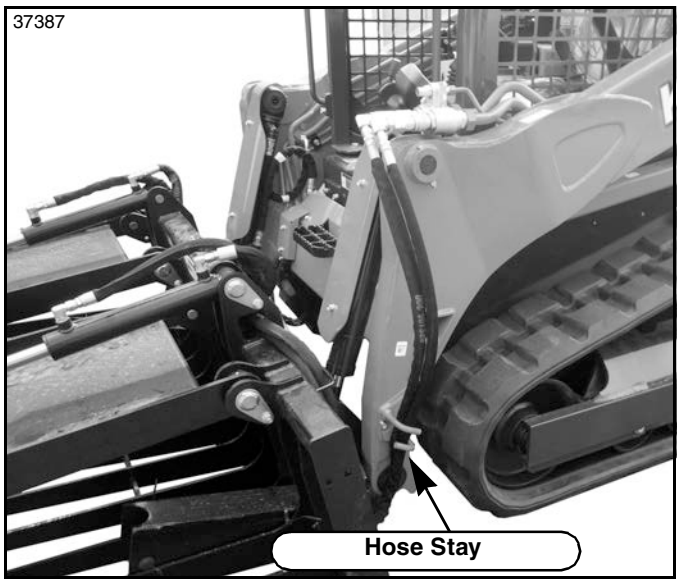
IMPORTANT: Make sure coupler fittings on the hydraulic hoses and power machine are clean before connecting them together.

Refer to Figure 1-4 on page 12:

1. Shut skid steer down properly to dismount. Refer to **"Skid Steer Shutdown Procedures"** on page 9.
2. Relieve pressure to the auxiliary hydraulics.
3. Route hydraulic hoses (#1 & #2) through hose loop "A" to access the skid steer power equipment couplers.

NOTE: If attaching to a Kubota skid steer or track loader, route hydraulic hoses through Kubota's Hose Stay as shown in Figure 1-5. Purchase **Hose Stay #S6763** through your nearest Kubota dealer. Refer to your power machine Operator's Manual for more instructions.

4. Clean quick connect couplers (#1A & #2A) of dirt and then connect male and female couplers to the skid steer outlets. Make sure couplers have fully engaged. If they have not, check the following:
   a. Make sure couplers are same size and type.
   b. Make sure hydraulic pressure has been released.
5. Return to skid steer seat, fasten seat belt, lower skid steer lap bar(s), and start skid steer.
6. Extend and retract hydraulic cylinder with skid steer controls. Switch quick connect couplers (#1A & #2A) on hydraulic hoses (#1 & #2) if cylinders operate the opposite direction intended.
7. Reconnect hydraulic hoses (#1 & #2) to the skid steer outlets.
8. For additional help, refer to Hydraulic Hook-Up in your skid steer Operator's Manual.

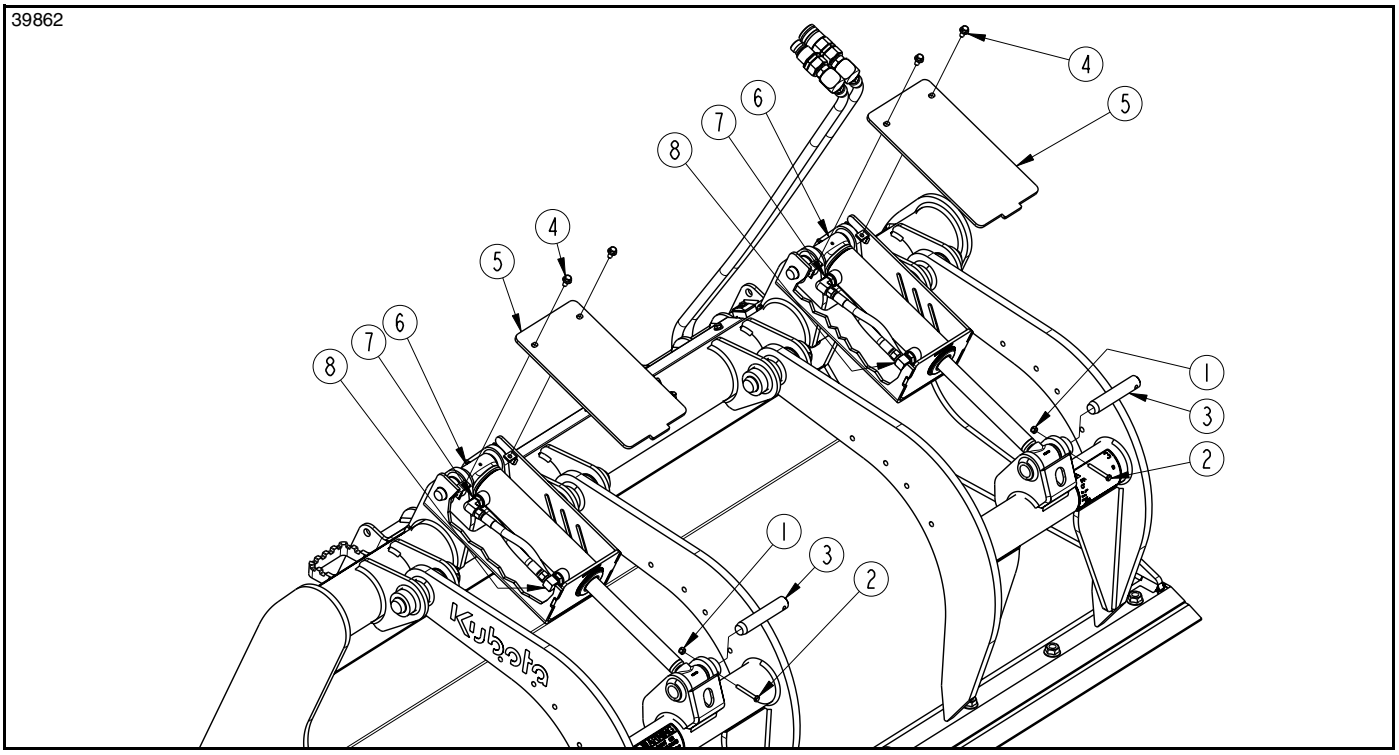


Kubota Hose Stay
Figure 1-5

Equipment Clearances

It is important to check clearance before putting the Grapple Bucket into operation. Make sure hoses are long enough and won't become pinched or entangled in the equipment. Also, make sure the bucket does not come in contact with skid steer.

1. Visually inspect hydraulic hoses for possible pinch points and shortness. Make hose adjustments before putting equipment into service.
2. Start skid steer and raise Grapple Bucket approximately 24" off the ground.
3. If necessary, have someone stand nearby that can motion for the operator to stop if a problem develops while completing steps 4-7 below.
4. Fully extend grapple cylinders to pivot grapple jaws fully down.
5. Fully extend and retract roll-back/dump cylinders on end of loader arms to check for machine and hydraulic hose clearances, to make sure limiting stops make proper contact without interferences, and that mounting procedures have been successfully completed.
6. Fully retract hydraulic cylinders to pivot grapple jaws fully up and repeat step 5.
7. Raise Grapple Bucket fully up and repeat steps 4-6.



Purge Hydraulic System
Figure 1-6

Purging Hydraulic System

Refer to Figure 1-6:

> **IMPORTANT:** Hydraulic cylinders and/or hoses can contain air causing erratic and uneven cylinder movement.

If hydraulic cylinders operated unevenly while checking clearances, then purge the hydraulic system as follows:

1. Fully extend hydraulic cylinders (#6) and shut skid steer down properly. Refer to **"Skid Steer Shutdown Procedures"** on page 9.
2. Remove hex flange serrated screws (#4) and hose shield covers (#5). Keep removed components.
3. Remove hex nylock nuts (#1), bolts (#2), and pivot pins (#3). Keep removed hardware.
4. Loosen elbow fittings (#8) at the cylinder rod port.
5. Return to the skid steer seat, fasten seat belt, lower skid steer lap bar(s), and start skid steer.
6. Slowly retract hydraulic cylinders (#6) until all trapped air is purged at fittings (#8).
7. Shut skid steer down properly before dismounting.
8. Tighten fittings (#8).
9. Repeat step 5 to start skid steer.
10. Verify hydraulic cylinders (#6) operate smoothly by operating control lever to retract and extend cylinder rods several times. If cylinders operate smoothly, skip to step 19. If one or both cylinders do not operate smoothly, continue with step #11.
11. Fully retract hydraulic cylinder rods and then shut skid steer down properly before dismounting.
12. Loosen elbow fittings (#7) at the cylinder base port.
13. Repeat step 5 to start skid steer.
14. Slowly extend hydraulic cylinders (#6) until all trapped air is purged at fittings (#7).
15. Shut skid steer down properly before dismounting.
16. Tighten fittings (#7).
17. Repeat step 5 to start skid steer.
18. Verify hydraulic cylinders (#6) operate smoothly by operating control lever to retract and extend cylinder rods several times. If hydraulic cylinders (#6) do not operate smoothly:
    a. Fully extend hydraulic cylinders (#6) and shut skid steer down properly before dismounting.
    b. Repeat steps 4-18 until hydraulic cylinders (#6) operate smoothly.
19. Fully extend hydraulic cylinders (#6) and shut skid steer down properly.
20. Attach cylinder rods to upper grapple jaws with pivot pins (#3), 1/4"-20 GR5 hex head bolts (#2), and hex nylock nuts (#1).
21. Tighten nylock nuts (#1) to the correct torque.
22. Replace hose shield covers (#5) and secure with 5/16"-18 GR5 hex flange serrated screws (#4).
23. Tighten hex flange serrated screws (#4) to the correct torque.

Operating Checklist

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 Grapple Bucket. Therefore, it is absolutely essential that no one operates the unit unless they have read, fully understood, and are totally familiar with the Operator's Manual.

Perform the following inspections before using your Grapple Bucket.

Operating Checklist

✔	Check	Page
	Read and follow all safety rules carefully. Refer to "Important Safety Information" and Safety Alert Symbols throughout this manual.	All pages
	Make sure there are no hydraulic leaks. Refer to "Avoid High Pressure Fluids Hazard".	Page 3
	Read and follow all set-up instructions. Refer to "Section 1: Assembly & Set-Up".	Page 9
	Read and follow all operating procedures. Refer to "Section 2: Operating Procedures".	Page 15
	Read and follow all maintenance instructions. Refer to "Section 3: Maintenance & Lubrication".	Page 20
	Check bucket initially and periodically for loose bolts and pins. Refer to "Torque Values Chart for Common Bolt Sizes".	Page 26

General Inspection

Make the following inspections with Grapple Bucket attached to a skid steer that is parked on a level surface.

1. Complete Operating Checklist table provided above.
2. Inspect skid steer safety equipment to make sure it is in good working condition and that all safety alert decals are visible and readable. Replace all missing and unreadable safety alert decals.
3. Inspect hitch connection to Grapple Bucket. Make sure skid steer hitch is secured under the bucket's top angle bar, lock pins extend fully through bottom slots in the bucket hitch, and handles are locked down.
4. Consult your skid steer Operator's Manual to determine if ballast is required. Add ballast if needed.
5. Inspect condition of hydraulic hoses, fittings, and valves before starting the machine. Make sure hoses are not pinched, kinked, twisted, or frayed and that they will not contact moving parts.
6. Hose sleeves help protect hoses from wear and operator from oil sprays. Inspect hose sleeves to make sure they are properly secured to the hydraulic hoses, are not torn, and are not worn thin. Replace hose sleeve if worn thin, torn, or not properly secured to hydraulic hoses.
7. Operate hydraulic controls to verify control lever movements function properly and equipment movements are correct. Make any necessary changes to controls and hydraulic hook-ups before putting equipment into service.
8. Operate Grapple Bucket through its full range of movements to check for clearances. refer to **"Equipment Clearances"** on page 13.
9. Purge hydraulic system of trapped air by operating all hydraulic functions several times before putting unit into service. Refer to **"Purging Hydraulic System"** on page 14 in this manual and your skid steer Operator's Manual if any hydraulic function continues to operate erratic.

Operating Safety

⚠ DANGER

To avoid serious injury or death:

- *Do not drive close to ditches, retaining walls, drop-offs, water, etc. Rollover due to a cave-in or mishap could result.*
- *Make sure the machine is stopped on solid, level ground before raising load to dump. To maintain stability, raise load only to the height necessary to complete the dump.*
- *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.*
- *Never dump a load around gas lines, overhead power lines, utilities, or other hazards that can cause serious injury or death from electrocution, explosion, or fire.*
- *A crushing hazard always exists around attachments. The jaws can crush and objects in the attachment can shift and 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.*
- *Do not lift a load that cannot be contained in the attachment, exceeds the attachment's load guard height, or has objects smaller than the openings in the load guard.*
- *Do not pick-up a load in such a way that it sticks too far out in front of the bucket. A light load that sticks out too far can have the same tipping effects as a load that is too heavy.*
- *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.*
- *Keep load positioned forward enough to prevent accidental spillage on operator and power machine.*
- *Keep load slightly tilted back to secure its weight against the vertical face of the forks. Rotating front of forks too high can cause the load to shift and fall onto the operator or others. Rotating front of forks level or lower can cause the load to fall forward.*
- *Make sure all objects are contained and/or secured before lifting. Do not lift a load that cannot be contained in the attachment as the load can shift and fall.*

- *Use a "spotter" when it is hard to see in the direction you are traveling and when placing a load that obstructs your vision. A person or animal could be nearby in a blind spot.*
- *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 prevent serious injury or death:

- *Allow only persons to operate this attachment who have fully read and comprehended this manual, and who have been properly trained in the safe operation of this attachment. Serious injury or death can result from failure 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 ensure the area behind the unit is clear. Drive at a slower speed to compensate for blind spots.*
- *Consult your power machine Operator's Manual for operating capacity, lifting capacity, and operating specifications. Exceeding rated capacities and specifications can result in loss of control, roll-over or other serious hazard.*
- *Never carry riders on the attachment or power machine. Riders can obstruct the operator's view, interfere with controls, be pinched by moving components, become entangled in rotating components, struck by objects, thrown about, fall off and be run over, etc.*
- *Hydraulic fluid under high pressure will penetrate the skin or eyes causing a serious injury. Wear protective gloves and safety glasses or goggles when working with hydraulic systems. Use a piece of cardboard or wood rather than hands when searching for leaks. If an accident occurs, seek immediate emergency medical care or gangrene may result. DO NOT DELAY.*
- *Keep all steps, grab bars, pedals, and controls free of dirt, grease, debris, and oil.*
- *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.*
- *Do not abuse equipment. Incorrect use of the attachment can damage equipment structurally and cause 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.*
- *Keep load centered, even when stopped. This will optimize load stability and protect against load shifting.*
- *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 frame damage and/or tipping resulting in the loss of operator control.*
- *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 use this attachment as a lifting device for people or as a work platform. It is not properly designed or guarded for this use.*
- *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.*
- *Do not use this attachment to lift, carry, push or tow other equipment or objects. It is not properly designed or guarded for this use. The operator could lose control resulting in equipment damage and/or tipping hazard.*
- *Always store attachment in a secure position so that it will not fall over.*
- *Follow recommendations in the power machine Operator's Manual when parking or dismounting the power machine.*
- *Always lower attachment to ground level and fully close the jaw before dismounting the power machine.*
- *Wear appropriate personal protective gear. Include eye protection when appropriate and 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. Always call 811 (USA) before digging so that they can mark the location of underground services in the area. For contact information, see Dig Safe in the "Important Safety Information" starting on page 1.*
- *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.*

Transport Safety

DANGER

To avoid serious injury or death:

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 prevent serious injury or death:

- *Follow all safety precautions when transporting a load. Not using safe transporting methods can damage the equipment and cause serious injury or death.*
- *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.*
- *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.*
- *When traveling on roadways, travel in such a way that other vehicles may pass you safely. Always use LED 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.*

Grapple Bucket Operation

Raking With Upper Grapple Jaws

IMPORTANT: Raking with partially opened grapple jaws can damage this product and void all warranties for this product.

Occasionally, the grapple jaws are used as a rake to back drag materials into position for being picked up. The grapple jaws must be completely opened when using them as a rake. Applying force to a partially opened grapple will greatly increase hydraulic fluid pressure on the grapple cylinders, hydraulic hoses, and their fittings which can cause some components to fail.

Picking Up a Load

WARNING

To prevent serious injury or death:

- *Keep bystanders at a safe distance when entering and picking up a load. Objects can shift or be thrown suddenly as the attachment makes contact with load causing serious injury or death.*
- *Enter pick-up zone carefully making sure no object will come through or pass the attachment into the operator's space.*
- *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 frame damage and/or tipping resulting in the loss of operator control.*

IMPORTANT: Do not ram attachment into a pile or hook a chain to the attachment to secure a load. Doing so can damage the attachment.

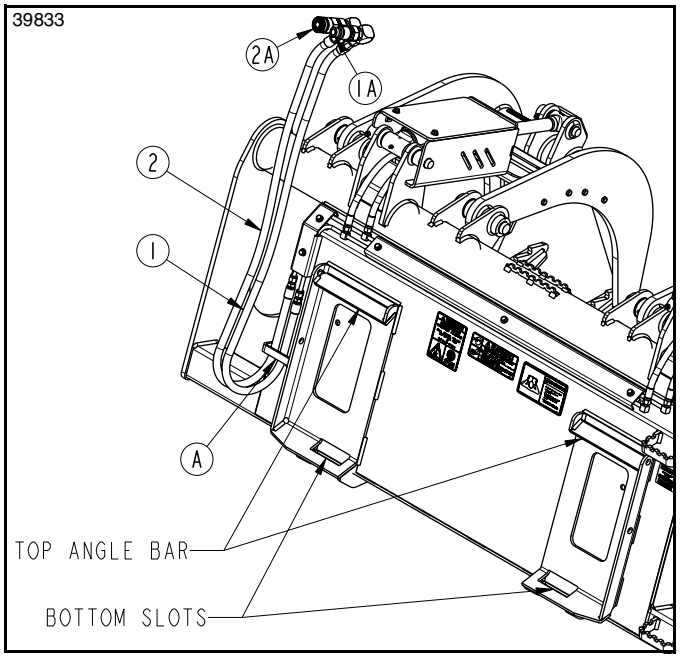
1. Be sure to read and understand all safety alerts under **"Operating Safety"** on page 15.
2. Make sure load does not exceed rated lift capacity of the skid steer being used to lift the load.
3. Check for overhead obstructions.
4. Approach the load so that the weight will be centered on the bucket. If one side of the load is heavier, then approach the load so that the heavy side is closest to the back of the bucket.
5. Make a complete stop in front of material and position the bucket at the proper height for entering the pile.
6. Fully open grapple jaws and slowly drive into the pile until the bucket is completely under the load. Do not ram bucket into the pile or lift a load that is taller than the height of the Grapple Bucket when fully opened.
7. Close upper grapple jaws to their fullest extent possible to secure the load.
8. Lift load slightly to make sure it is stable. If load is not stable, lower load to ground, release load, and re-clamp load to make it more secure. Repeat this procedure until full stability of load is achieved.
9. Tilt load slightly back and back slowly out of the pile making sure the load clears all other obstacles.
10. Not always will the load be secured properly in the Grapple Bucket after being pulled free from a pile. Before traveling with an unsecured load, lower load to ground, release load, and re-clamp load to make it more secure.
11. Position load at a safe, low traveling height before transferring to the unloading site.

Traveling With a Load

1. Be sure to read and understand all safety alerts under **"Transport Safety"** on page 17.
2. Pedestrians always have the right-of-way.
3. Always keep load level to slightly tilted back.
4. When possible, travel with Grapple Bucket and load kept low to the ground.
5. Continually scan all sides for pedestrians, other traffic, and obstacles.
6. Use caution if load is large and blocks your view.
7. Always accelerate and slow down gradually. Always drive at a safe speed and slow down gradually when going around corners.
8. Leave enough clearance when turning so that the bucket and/or load does not come in contact with other obstacles such as vehicles, buildings, trees, or fences.
9. Consult your skid steer Operator's Manual for the correct procedures on how to carry a load and what direction to travel while going over ramps and inclines. Not following instructions in your skid steer's manual can result in loss of control and/or rollover.
10. When possible, travel straight while going up or down grades, ramps, and inclines. Avoid making turns on grades, ramps, and inclines.
11. Raise or lower load only when stopped, never when traveling.
12. Slow down when traveling over rough or hilly terrain.
13. Do not transport loads on public roadways.
14. Transport on public roadways without a load and transport in such a way that faster moving vehicles may pass you safely.
15. Plan your route to avoid heavy traffic.

Releasing a Load

1. Be sure to read and understand all safety alerts under **"Operating Safety"** on page 15.
2. Stop in front of desired location and slowly raise load to required height.
3. Move forward slowly checking to make sure Grapple Bucket and load clear all obstacles.
4. Stop forward movement when load is positioned over its release location.
5. Releasing load requires a combination of tilting front of bucket down, raising grapple jaws, and raising loader arms. The order in which the load is released will vary depending on type of material being released. The most important objective is to have the load under control throughout the release.
6. Once load has settled onto the pile, slowly back up making sure the Grapple Bucket clears all objects and there are not any pedestrians or other traffic behind or on either side.
7. Leave enough clearance when turning and/or lowering Grapple Bucket to avoid contact with obstacles such as vehicles, buildings, trees, or fences.
8. Lower Grapple Bucket to transporting height (low to the ground) before moving again.



Unhook Grapple Bucket
Figure 2-1

Unhook Grapple Bucket

Refer to Figure 2-1:

⚠ WARNING

To prevent serious injury or death:

- *Do not unhook an attachment that is in an unstable position or carrying a load. An attachment that is unstable or has a load can flip-over suddenly once unhooked.*
- *Do not let children play on or around this attachment including when stored away. The attachment can suddenly move, and/or children could fall.*

IMPORTANT: Always uncouple hoses from the power machine before unhooking the attachment. Pulling the attachment with the hydraulic hoses can damage the power machine and/or attachment.

1. See **"Long-Term Storage"** on page 21 if parking Grapple Bucket for long periods and end of season.
2. Properly dispose of the load in an approved location.
3. Make sure the bucket is resting fully on the ground and is stable. If needed, reposition the bucket or add supports to the Grapple Bucket to make it stable.
4. Shut skid steer down properly before dismounting. Refer to **"Skid Steer Shutdown Procedures"** on page 9 for detailed instructions.

5. Release all hydraulic system pressures before disconnecting hydraulic hoses from skid steer. See Skid Steer Operator's Manual for instructions on how to release all hydraulic system pressures.
6. Disconnect hydraulic hose couplers (#1A & #2A) from the skid steer. Connect quick couplers together or install coupler covers to prevent containments from entering the hydraulic system. Store hydraulic hoses off the ground to help protect against damage.
7. Disengage lock mechanism:

   Mechanical Lock Mechanism:

   a. Pull lock handles up to remove lock pins from the bottom slots in the hitch plate.

   b. Return to the power machine seat. Using the machine's start-up procedures, restart the engine.

   Hydraulic Lock Mechanism:

   a. Return to the power machine seat. Using start-up procedures, restart the skid steer.

   b. Disengage quick hitch locking mechanism hydraulically.
8. Tilt top of hitch plate slightly forward to begin separating bucket top angle bars from the skid steer.
9. Slowly lower loader hitch plate until the top angle bars and top of skid steer hitch plate have separated.
10. Back slowly away from the Light Material Bucket making sure it does not interfere with the loader and hitch plate.

General Operating Instructions

By now you should have familiarized yourself with the Operator's Manual for your Grapple Bucket. If you haven't, please do so now. Proceed by getting into the seat of your skid steer and starting it up. It isn't going to take you long to learn how to use your new Kubota Grapple Bucket, but we do recommend that you take a little time to practice securely attaching and detaching your Grapple Bucket to and from your mounting plate. It is also important to practice lifting, lowering, maneuvering, and placing a load until you gain the confidence and skill needed to have a good feel in what you are doing. We cannot overstress the importance of following the safety information and operating procedures that are spelled out in this Operator's Manual.

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.

As you quickly become more skilled and adept in using your Grapple Bucket, you will soon learn that it is always more important to focus on the "don'ts" than it is to focus on the "dos". For example, don't exceed the lift capacity of your Grapple Bucket or skid steer. Don't lift your load too high creating an unstable load and unsafe situation. Don't tilt your load too far backwards, setting up a situation that could cause your load to roll or spill backwards onto you and the skid steer. Don't drive too fast for your ground and load conditions. Don't work on or around slippery or sloped areas that could cause you to lose control of the skid steer. Don't allow pedestrians, pets, or livestock to approach the danger zone of your working area. Don't leave your skid steer with the grapple jaws opened and bucket raised above ground level.

If you just follow these few safety reminders, you will find that you will quickly become very adept, handy, and skillful at using your Kubota Grapple Bucket.

See **"Specifications & Capacities"** on page 23 and **"Features & Benefits"** on page 24 of your Operator's Manual for additional information.

Maintenance

DANGER

To prevent 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 prevent 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.*
- *Check hydraulic hoses and fittings frequently. Brush and other debris can damage hoses and fittings causing the load to release and fall.*
- *Keep all steps, grab bars, pedals, and controls free of dirt, grease, debris, and oil.*
- *Perform scheduled maintenance. Check for loose hardware, missing parts, broken parts, structural cracks, and excessive wear. Make repairs before putting the attachment back into service.*
- *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.*
- *Make sure controls are all in neutral position or park before starting the power machine.*

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.

Never perform maintenance on the Grapple Bucket unless you are authorized and qualified to do so. Always read the Operator's Manual before making repairs. After repairs are completed, make sure the Grapple Bucket operates correctly. If it does not, tag "DO NOT OPERATE" until all problems have been corrected.

1. Shut the skid steer down properly before performing maintenance on the Grapple Bucket. Refer to **"Skid Steer Shutdown Procedures"** on page 9.
2. Keep step plates, grab handles, foot pedals, and control levers/switches free of dirt, grease, debris and oil.
3. Check all bolts and pins after using the Grapple Bucket for several hours and on a regular basis thereafter to ensure they are tight and secured.
4. Check hitch fit-up, hydraulic hoses, and fittings on a regular basis to ensure trash or other objects have not loosened the hitch connection and/or damaged hydraulic hoses and fittings.
5. Replace illegible, damaged, and/or missing safety labels and parts with genuine Kubota parts only.

Hydraulic Inspection Guidelines

WARNING

To avoid serious injury or death:

- *Hydraulic fluid under high pressure will penetrate the skin or eyes causing a serious injury. Wear protective gloves and safety glasses or goggles when working with hydraulic systems. Use a piece of cardboard or wood rather than hands when searching for leaks. If an accident occurs, seek immediate emergency medical care or gangrene may result. DO NOT DELAY.*
- *Relieve all hydraulic pressure before making repairs to a hydraulic system.*

One of the most important things you can do to prevent hydraulic system problems is to ensure your skid steer reservoir remains free of dirt and contamination.

Filter all hydraulic fluid before use unless explicitly specified otherwise. Replace your skid steer's hydraulic filter element at the prescribed intervals. Use a clean cloth to wipe hose ends before attaching them to your skid steer.

Escaping hydraulic fluid under pressure can penetrate the skin causing gangrene and serious injury. Check hydraulic hoses, and lines carefully. Wear protective gloves and safety glasses or goggles when working with hydraulic systems. Do not use your hand or other body parts to check for leaks under pressure. Instead, use a piece of paper or cardboard.

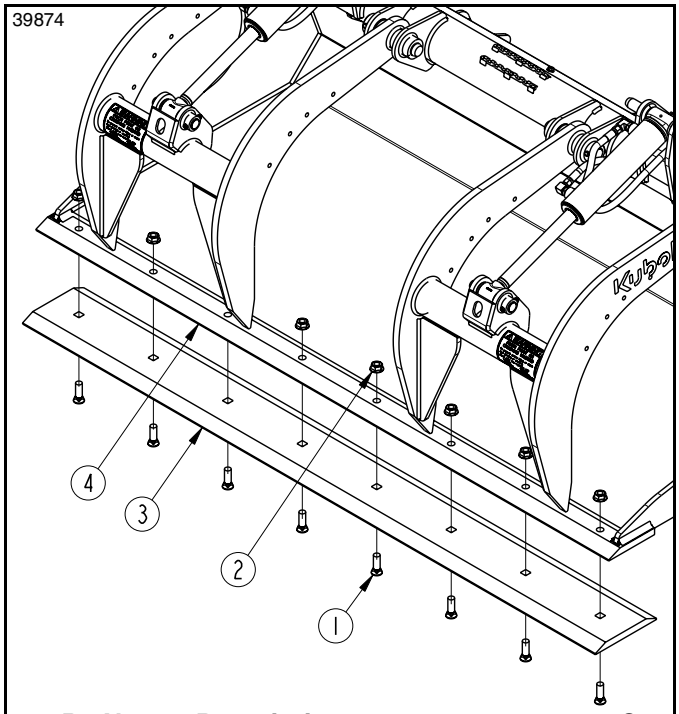
Avoid escaping fluid hazards by shutting down the skid steer and releasing all hydraulic pressures before servicing, adjusting, or performing other work on the hydraulic system. For detailed shutdown instructions, refer to **"Skid Steer Shutdown Procedures"** on page 9.

Never bend or strike high pressure lines and never install hydraulic lines that are bent, kinked or damaged. Always repair hydraulic lines that are loose, bent, kinked, and/or damaged before putting the Grapple Bucket back into service. See your nearest Kubota dealer for assistance and genuine replacement parts. Replace parts if any of the following conditions are present:

- Hydraulic fitting or hose is damaged or leaking.
- Outer hose covering is cut or chafed.
- Outer hose cover is ballooning locally.
- Reinforced wire layer in the hose is exposed.
- Hydraulic line is bent, kinked, or crushed.
- Hydraulic line has been pulled or stretched.

Make sure all hydraulic fluid connections are tight and all hydraulic lines are in good condition before applying pressure to the system.

These simple maintenances will go a long way to prevent bodily injury, control valve problems, and hydraulic cylinder problems.



#	Pt. No.	Description	Qty
	381-120A	**ASSEMBLY, 68" BOLT ON EDGE**	
1	802-288C	Plow 5/8-11 x 2 GR5	7
2	803-263C	Nut hex flange lock 5/8-11 PLT	7
3	820-554C	Cutting edge, 68" bucket bolt-on	1
	381-119A	**ASSEMBLY, 74" BOLT ON EDGE**	
1	802-288C	Plow 5/8-11 x 2 GR5	8
2	803-263C	Nut hex flange lock 5/8-11 PLT	8
3	820-552C	Cutting edge, 74" bucket bolt-on	1
	381-103A	**ASSEMBLY, 80" BOLT ON EDGE**	
1	842-274C	Plow 3/4-10 x 2 1/2 GR5	9
2	803-181C	Nut hex flange lock 3/4-10 PLT	9
3	820-555C	Cutting edge, 80" bucket bolt-on	1

Reversible Cutting Edge (Optional)
Figure 3-1

Reversible Cutting Edge (Optional)

Refer to Figure 3-1:

The bucket is supplied with a welded-on cutting edge. An optional cutting edge (#3) can be purchased and bolted to the existing cutting edge for high use applications and to extend the life of the welded-on cutting edge. This may be done at the time of purchase or later as needed. The optional cutting edge (#3) can also be rotated 180° and reused to double the life of the cutting edge. Replace the optional cutting edge when both of its edges are worn out.

1. Shut skid steer down properly before dismounting. Refer to **"Skid Steer Shutdown Procedures"** on page 9.
2. Remove hex flange locknuts (#2), plow bolts (#1), and cutting edge (#3).
3. Check cutting edge and mounting hardware for wear. Replace existing plow bolts (#1), locknuts (#2), and cutting edge as needed:
   - If the cutting edge has not been rotated, rotate cutting edge 180° and reattach it to the bucket with existing/new plow bolts (#1) and existing/new hex flange locknuts (#2). Tighten hex flange locknuts to the correct torque.
   - If cutting edge (#3) is worn out on both edges, discard cutting edge and attach new cutting edge to the bucket with existing/new plow bolts (#1) and existing/new hex flange locknuts (#2). Tighten hex flange locknuts to the correct torque.

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 Grapple Bucket. Scrape off compacted dirt and then wash its surface thoroughly with a garden hose.
2. Inspect Grapple Bucket 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 aerosol touch-up paint. Paint is also available in touch-up bottles with brush, quarts, and gallon sizes by adding TU, QT, or GL to the end of the aerosol part number.

Touch-Up Paint

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

4. Replace all damaged or missing guards & decals.
5. Lubricate as noted in **"Lubrication Points"** starting on page 22.
6. Coat exposed portions of the cylinder rods with grease to protect against rust and pitting.
7. Store Grapple Bucket on a level surface in a clean, dry place. Inside storage will reduce maintenance and make for longer Grapple Bucket life.
8. Follow all unhooking instructions. See **"Unhook Grapple Bucket"** on page 18.

Lubrication Points

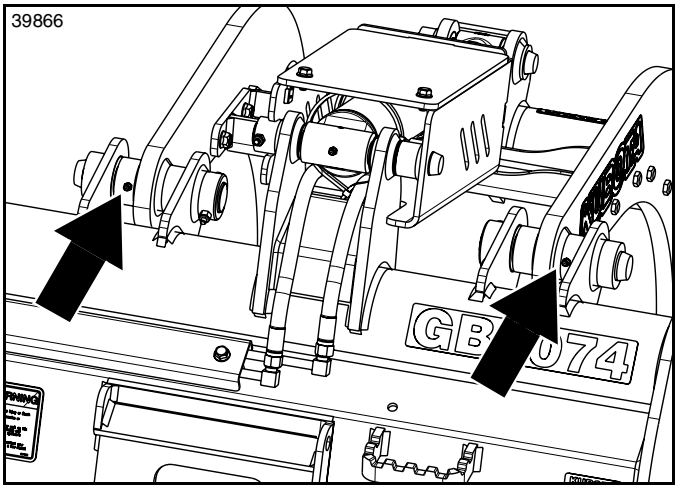
Lubrication Legend

Multi-purpose spray lube

Multi-purpose grease lube

Multi-purpose oil lube

50 Hrs — Intervals in hours at which lubrication is required



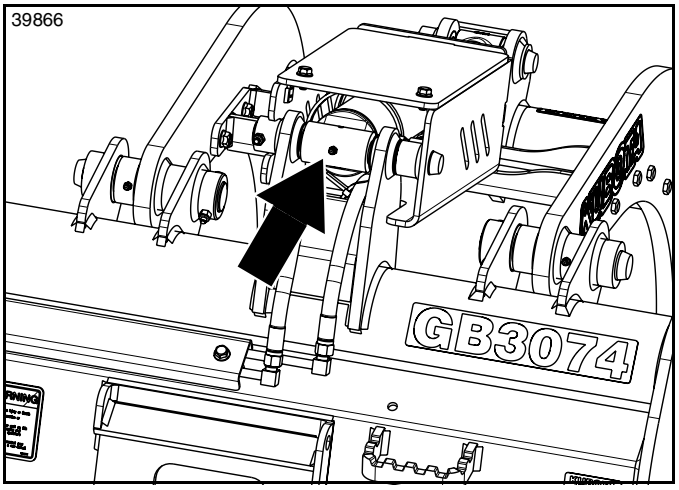
10 Hrs

Jaw Pivot Points

4 - Zerks (2 per side)

Type of Lubrication: Multi-purpose Grease

Quantity = As required (make sure grease is visible)



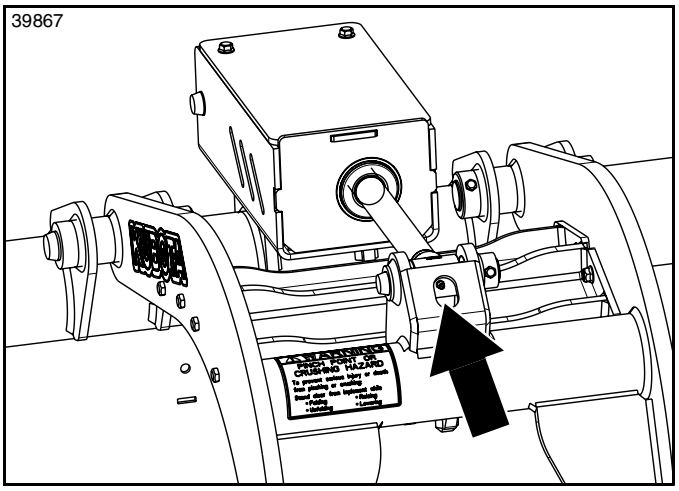
10 Hrs

Hydraulic Cylinder Base End Pivot Points

2 - Zerks (1 per cylinder)

Type of Lubrication: Multi-purpose Grease

Quantity = As required (make sure grease is visible)



10 Hrs

Hydraulic Cylinder Rod End Pivot Points

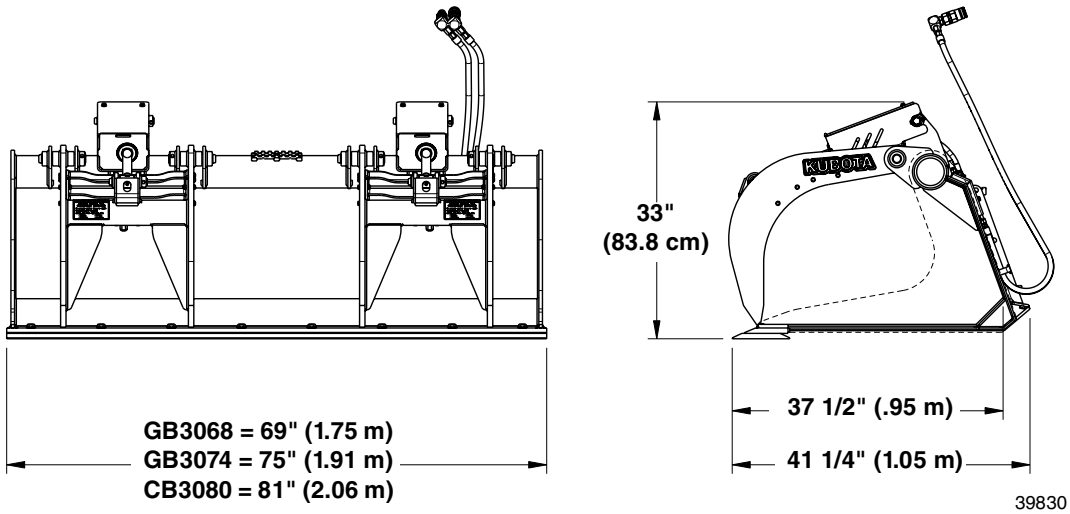
2- Zerks (1 per cylinder)

Type of Lubrication: Multi-purpose Grease

Quantity = As required (make sure grease is visible)

GB30 Series

Specifications & Capacities				
		GB3068	**GB3074**	**GB3080**
Weight (without shields and optional cutting edge)	lbs (kg)	969 (440)	1007 (457)	1074 (487)
Width	in (m)	69 (1.75)	75 (1.91)	81 (2.06)
Closed height	in (cm)	33 (83.8)		
Grapple jaw opening	in (m)	40 1/2 (1.03)		
Hitch type		Universal Quick Attach		
Hose couplers	in (cm)	One - 1 1/16 (2.7) FORB male and One - 1 1/16 (2.7) FORB female flat faced couplers		
Bucket floor thickness	in (mm)	1/4 (6)		
Bucket side wall thickness	in (mm)	1/2 (13)		
Bucket cutting edge thickness	in (mm)	3/4 (19)	3/4 (19)	1 (25)
Working depth of bucket	in (m)	37 1/2 (.95)		
Number of upper grapple jaws		2		
Upper grapple tooth thickness	in (mm)	3/4 (19)		
Upper grapple jaw pivot pins	in (cm)	Greasable 1 1/4 (3.2) pivot pins		
Hydraulic cylinders	in (cm)	Two - 2 1/2 x 8 x 1 1/4 (6.4 x 20.3 x 3.2) Rod		
Hydraulic cylinder pivot pins	in (cm)	Greasable 1 (2.5) pivot pins		
Maximum hydraulic pressure	psi (KPa)	3500 (24132)		
Optional bolt-on cutting edge		Reversible and replaceable		
Optional hose shields	in (mm)	1/4 (6) Welded housing with 1/4 (6) removable cover		
Optional cylinder shields	in (mm)	5/16 (8) Formed channels		



GB30 Series

Features	Benefits
Attaches to power equipment easily	Uses Skid Steer Universal Quick Hitch design for quick and easy attachment.
Designed to fit skid steer loaders	The quick attach plate mounted Grapple Bucket can be attached to a wide variety of machines.
Designed to protect hydraulic hoses	Hydraulic hoses routed to prevent pinching.
1 1/4" greasable pivot pins	Large diameter pins for extra strength.
Two independent upper grapple jaws	Able to secure uneven loads.
Heavy-duty construction grade	Built to withstand rugged use in commercial grade applications.
Weld-on cutting edge	Strengthens leading edge of bucket.
Optional bolt-on cutting edge	Bolt-on cutting edge is reversible to extend the life of the blade and replaceable to extend the life of the Grapple Bucket and its weld-on cutting edge.
Bucket bottom	Retains small objects such as dirt, gravel, crushed rock, etc.
Optional hose shields	Protects cylinders and fittings.
Optional cylinder shields	Protects cylinder rod.

Troubleshooting Chart

Problem	Cause	Solution
Cannot lift load	Insufficient power to lift load.	Reduce load in Grapple Bucket or switch to a skid steer that is rated for more lift capacity.
Hydraulic hoses are stretched and/or damaged	Hydraulic hoses are catching on tree limbs, debris, or other solid objects.	Replace hydraulic hoses. Stay away from objects that can catch on hydraulic hoses. Stop immediately if hoses are catching on an object and remove object. If helpful, readjust hose routing.
	Hoses not routed in hose guide bracket.	Route hoses through hose guide bracket.
Hydraulic fittings are damaged	Hydraulic fittings are not protected.	Replace fittings. Consider installing optional hose shields.
	Hydraulic hoses are catching on tree limbs, debris, or other solid objects causing fittings to become damaged.	Replace hydraulic fittings. Stay away from objects that can catch on hydraulic hoses. Stop immediately if hoses are catching on an object and remove object. If helpful, readjust hose routing.
Hydraulic cylinder rod is bent	Objects are pressing against the cylinder rod as the grapple jaws clamps shut.	Replace cylinder rod. Consider installing optional cylinder shield.
Jaws don't sufficiently clamp tight on a load	A load taken from a pile can be too bulky to properly clamp while in the pile.	Re-clamp load once load is free from pile.
Upper grapple jaws do not operate	Power to hydraulics is off.	Turn hydraulic power on.
	Hydraulic hoses are not coupled to the skid steer.	Reattach couplers to skid steer.
	Hydraulic hoses and/or fittings are damaged.	See "Hydraulic hoses are stretched and/or damaged" and "Hydraulic fittings are damaged" above.
Load is shifting	Hitch is not properly attached to the skid steer.	Always make certain hitch is properly attached before lifting a load. Reattach hitch to skid steer if loose.
	Load is being carried too high.	Recommended carrying height is as close to ground as possible without hitting objects.
	Traveling and/or turning too fast.	Reduce speed to a safe non-bouncing speed.
	Traveling sideways to an incline.	Travel straight up and down inclines.
	Upper grapple jaws not clamped tight against the load.	Re-clamp load once load is free from pile.
	Load is not centered in Grapple Bucket.	Center load in the Grapple Bucket.
	Traveling with bucket level or tilted down at the front.	Rotate bucket back so that the front cutting edge is slightly higher than the back of the bucket floor.
	Teeth are bent.	Straighten bent teeth.
Bucket and/or upper teeth are bending or breaking	The load's center of gravity is not centered in the Grapple Bucket.	Reposition load so that the load's center of gravity is centered in the Grapple Bucket.
	Load is too heavy for the Grapple Bucket.	Lift lighter loads.
	Ramming Grapple Bucket into the ground or load.	Never ram with the Grapple Bucket.
	Striking solid objects with the Grapple Bucket.	Watch for objects while moving and allow clearance when making turns. Inspect area thoroughly before working in it and place markers, such as flags, to indicate potential hazards.
	Catching on solid objects below ground such as tree roots and rocks.	Don't attempt to make deep cuts in the ground. Be ready to stop should the Grapple Bucket make contact with solid objects in the ground.
	Wedging objects between the upper grapple teeth.	Do not wedge objects between teeth.

Torque Values Chart for Common Bolt Sizes

Bolt Size (inches)	Bolt Head Identification Grade 2		Grade 5		Grade 8	
in-tpi [1]	N·m [2]	ft-lb [3]	N·m	ft-lb	N · m	ft-lb
1/4" - 20	7.4	5.6	11	8	16	12
1/4" - 28	8.5	6	13	10	18	14
5/16" - 18	15	11	24	17	33	25
5/16" - 24	17	13	26	19	37	27
3/8" - 16	27	20	42	31	59	44
3/8" - 24	31	22	47	35	67	49
7/16" - 14	43	32	67	49	95	70
7/16" - 20	49	36	75	55	105	78
1/2" - 13	66	49	105	76	145	105
1/2" - 20	75	55	115	85	165	120
9/16" - 12	95	70	150	110	210	155
9/16" - 18	105	79	165	120	235	170
5/8" - 11	130	97	205	150	285	210
5/8" - 18	150	110	230	170	325	240
3/4" - 10	235	170	360	265	510	375
3/4" - 16	260	190	405	295	570	420
7/8" - 9	225	165	585	430	820	605
7/8" - 14	250	185	640	475	905	670
1" - 8	340	250	875	645	1230	910
1" - 12	370	275	955	705	1350	995
1-1/8" - 7	480	355	1080	795	1750	1290
1-1/8" - 12	540	395	1210	890	1960	1440
1-1/4" - 7	680	500	1520	1120	2460	1820
1-1/4" - 12	750	555	1680	1240	2730	2010
1-3/8" - 6	890	655	1990	1470	3230	2380
1-3/8" - 12	1010	745	2270	1670	3680	2710
1-1/2" - 6	1180	870	2640	1950	4290	3160
1-1/2" - 12	1330	980	2970	2190	4820	3560

Bolt Size (Metric)	Bolt Head Identification 5.8 Class 5.8		8.8 Class 8.8		10.9 Class 10.9	
mm x pitch [4]	N·m	ft-lb	N·m	ft-lb	N·m	ft-lb
M 5 X 0.8	4	3	6	5	9	7
M 6 X 1	7	5	11	8	15	11
M 8 X 1.25	17	12	26	19	36	27
M 8 X 1	18	13	28	21	39	29
M10 X 1.5	33	24	52	39	72	53
M10 X 0.75	39	29	61	45	85	62
M12 X 1.75	58	42	91	67	125	93
M12 X 1.5	60	44	95	70	130	97
M12 X 1	90	66	105	77	145	105
M14 X 2	92	68	145	105	200	150
M14 X 1.5	99	73	155	115	215	160
M16 X 2	145	105	225	165	315	230
M16 X 1.5	155	115	240	180	335	245
M18 X 2.5	195	145	310	230	405	300
M18 X 1.5	220	165	350	260	485	355
M20 X 2.5	280	205	440	325	610	450
M20 X 1.5	310	230	650	480	900	665
M24 X 3	480	355	760	560	1050	780
M24 X 2	525	390	830	610	1150	845
M30 X 3.5	960	705	1510	1120	2100	1550
M30 X 2	1060	785	1680	1240	2320	1710
M36 X 3.5	1730	1270	2650	1950	3660	2700
M36 X 2	1880	1380	2960	2190	4100	3220

[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.
All locknuts or lubricated fasteners: Use 75% of torque value. (i.e. 1/2"-13 GR5 = 76 ft-lb; 75% of 76 or .75 x 76 = 57 ft-lb)

Warranty

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

Overall Unit: One year Parts and Labor

Optional Cutting Edge: 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 such as blades, belts, tines, etc. 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 must be made to the dealer which originally sold the product and all warranty adjustments must be made through such 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 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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