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

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

<table>
<thead>
<tr>
<th>Model Number</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Serial Number</td>
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<tr>
<td>Machine Height</td>
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<td>Machine Length</td>
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<td>Machine Width</td>
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<td>Machine Weight</td>
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<td>Delivery Date</td>
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<td>First Operation</td>
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<td>Accessories</td>
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</tbody>
</table>

Dealer Contact Information

| Name:         |         |
| Street:       |         |
| City/State:   |         |
| Telephone:    |         |
| Email:        |         |

California Proposition 65

WARNING: Cancer and reproductive harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)
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All other brands and product names are trademarks or registered trademarks of their respective holders.

*Printed in the United States of America.*
See previous page for Table of Contents.
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.
Important Safety Information

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.

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- 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.
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- IMPORTANT: Do not tow a load that is more than double the weight of the vehicle towing the load.

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

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

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

<table>
<thead>
<tr>
<th>Prepare for Emergencies</th>
<th>Wear Personal Protective Equipment (PPE)</th>
<th>Avoid High Pressure Fluids Hazard</th>
</tr>
</thead>
<tbody>
<tr>
<td>▲ Be prepared if a fire starts.</td>
<td>▲ Wear protective clothing and equipment appropriate for the job such as safety shoes, safety glasses, hard hat, and ear plugs.</td>
<td>▲ Escaping fluid under pressure can penetrate the skin causing serious injury.</td>
</tr>
<tr>
<td>▲ Keep a first aid kit and fire extinguisher handy.</td>
<td>▲ Clothing should fit snug without fringes and pull strings to avoid entanglement with moving parts.</td>
<td>▲ Relieve all residual pressure before disconnecting hydraulic lines or performing work on the hydraulic system.</td>
</tr>
<tr>
<td>▲ Keep emergency numbers for doctor, ambulance, hospital, and fire department near phone.</td>
<td>▲ Prolonged exposure to loud noise can cause hearing impairment or hearing loss. Wear suitable hearing protection such as earmuffs or earplugs.</td>
<td>▲ Make sure all hydraulic fluid connections are tight and all hydraulic hoses and lines are in good condition before applying pressure to the system.</td>
</tr>
</tbody>
</table>

### 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.

### 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.
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.

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.
Safety Labels

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

1. Keep all safety labels clean and legible.
2. Refer to this section for proper label placement. Replace all damaged or missing labels. Order new labels from your nearest Kubota dealer. To find your nearest dealer, visit our dealer locator at www.landpride.com.
3. Some new equipment installed during repair requires safety labels to be affixed to the replaced component as specified by Kubota. When ordering new components make sure the correct safety labels are included in the request.
4. Refer to this section for proper label placement.

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

848-747C
Warning: High Pressure Fluid Hazard (1 place)

858-148C
Warning: Pinch Point Hazard (3 places)
838-615C
2" x 9" Amber Reflector (2 places)

838-614C
2" x 9" Red Reflector (2 places)

838-112C
Danger: Pinching Hazard (2 places)
Important Safety Information

Table of Contents

Warning: Read Manual (1 place)
Kubota welcomes you to the growing family of new product owners. This Trip Edge Blade 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 construction-grade TE3596 and TE35108 Trip Edge Blades are designed and built by Kubota for landscapers, construction companies, municipalities, school systems, farmers, ranchers, and homeowners. Available in 96" (2.44 m) and 108" (2.74 m) widths, they are suited for attaching to 60 to 100 hp (45 to 75 kW) skid steers with universal quick attach hitch plates.

The moldboard is constructed of 7 gauge (4.6 mm) steel with reinforced gussets on the back side. Trip springs mounted on the back of the moldboard protect the unit by allowing the cutting edge to trip back when striking solid objects. Optional cutting edges are available in 5/8" (16 mm) thick high carbon steel for tough applications and 1" (2.5 cm) thick poly for more gentle applications such as paved parking lots. Both optional cutting edges are reversible and replaceable.

These Trip Edge Blades are ideal for snow removal as well as light dirt work, finish grading applications around feedlots, outdoor arenas, building sites, and spreading pea gravel on farm and ranch lanes or roadways. They are also excellent for pushing livestock feed such as shelled or ground corn and silage.

See “Specifications & Capacities” on page 32 and “Features & Benefits” on page 33 for additional information and performance enhancing options.

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

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

Definitions

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 Trip Edge Blade 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 dealer wants you to be satisfied with your new Trip Edge Blade. 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 Trip Edge Blade is designed to attach to skid steer loaders and tractor loaders with the following requirements:

- Hitch: Skid steer quick attach, meets ISO 24410
- Horsepower: 60-100 hp (45 -75 kW)
- Max. Hydraulic Pressure: 3,500 psi (24.1 mPa)

**WARNING**

To avoid serious injury or death:

- Lightweight power machines may need weight added to the rear to maintain steering control and prevent tipping. Consult your power machine Operator’s Manual to determine proper weight requirements and maximum weight limitations.
- Power machines outside the listed horsepower range must not be used. Higher horsepower machines can damage the attachment. Under horsepower machines make the job more difficult.
- Consult your skid steer’s manual for operating capacity, lifting capacity, and operating specifications. Exceeding rated capacities and specifications can result in a roll-over or other serious hazard.

**Torque Requirements**

Refer to “Torque Values Chart for Common Bolt Sizes” on page 35 to determine correct torque values when tightening hardware.

**Before You Start**

Make sure the intended skid steer conforms to the requirements stated above. Also, read and understand this Operator’s manual. An understanding of how the Trip Edge Blade works will aid in its assembly and set-up.

Go through the Pre-Assembly Checklist before assembling the Trip Edge Blade. To speed up your assembly task and make the job safer, have all needed parts and equipment readily at hand.

**Pre-Assembly Checklist**

<table>
<thead>
<tr>
<th>Check</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Have a fork lift or loader with properly sized chains and safety stands capable of lifting and supporting the equipment on hand.</td>
<td>Assembly &amp; Set-up</td>
</tr>
<tr>
<td>Have a minimum of two people available during assembly.</td>
<td></td>
</tr>
<tr>
<td>Make sure all major components and loose parts are shipped with the attachment.</td>
<td></td>
</tr>
<tr>
<td>Double check to make sure all parts, fasteners, and pins are installed in the correct location. Refer to the Parts Manual if unsure. By double checking, you will lessen the chance of incorrectly using a bolt that may be needed later.</td>
<td>Operator’s Manual 301-620MK</td>
</tr>
<tr>
<td>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.</td>
<td>Parts Manual 301-620PK</td>
</tr>
<tr>
<td>Make sure working parts move freely, bolts are tight &amp; cotter pins are spread.</td>
<td>Operator’s Manual</td>
</tr>
<tr>
<td>Make sure all grease fittings are in place and lubricated.</td>
<td>Page 31</td>
</tr>
<tr>
<td>Make sure all safety labels are correctly located and legible. Replace if damaged.</td>
<td>Page 6</td>
</tr>
<tr>
<td>Make sure all red and amber reflectors are correctly located and visible when machine is in transport position.</td>
<td>Page 7</td>
</tr>
</tbody>
</table>

**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. Lower attachment until it is 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.
Skid Steer Hook-Up
Refer to Figure 1-1:

⚠️ DANGER
To avoid serious injury or death:
A crushing hazard exists while hooking-up and unhooking the attachment. Do not allow anyone to stand between attachment and power machine while approaching or backing away from the attachment. Do not operate lift and/or tilt controls while someone is near the power machine and/or attachment.

⚠️ WARNING
To avoid serious injury or death:
- Check hitch fit-up frequently. An improper fit-up can cause the attachment to come loose from the loader hitch plate and fall.
- Use steps, grab-handles, and anti-slip surfaces on the power machine and attachment to get on and off the power machine. Using unapproved stepping surfaces and/or handholds can result in a falling hazard.

1. Check skid steer and Trip Edge Blade hitch plates before hooking-up the blade. Make sure all hitch components are in good working condition:
   a. Check for and remove any debris in the loader and blade hitch plates.
   b. Check hitch plates for structural cracks and bent or broken pieces. They can weaken a hitch plate and prevent full and complete hook-up. Repair or replace damaged hitch plates.
   c. Check operation of lock pins in the loader hitch plate. Lock pins must move freely and extend fully into the bottom slots in the blade hitch plate.
   d. Check hydraulic hoses for pinch points and clearances. Make sure hoses (#3 & #4) will not interfere with hitch hook-up.

2. If lock mechanism is mechanical, raise lock handles on the loader hitch fully up.
4. If lock mechanism is hydraulic, use auxiliary hydraulic controls to raise lock pins fully up.
5. Drive slowly to the blade hitch plate while making sure the loader hitch is parallel with the top angle bars on the blade hitch plate.
6. Rotate top of loader hitch plate slightly forward.
7. Place top of loader hitch plate under the Trip Edge Blade top angled bars and slowly raise loader arms up until loader hitch plate is seated under the top angle bars.
8. Rotate top of loader hitch plate back until blade hitch plate makes full contact with loader hitch plate and the Trip Edge Blade is slightly off the ground.
9. Engage lock mechanism:
   **Hydraulic Lock Mechanism:**
   a. Engage quick hitch locking mechanism hydraulically.
   **Mechanical Lock Mechanism:**
   b. Push lock handles down to drive lock pins through bottom slots in the blade hitch plate. Make sure handles are locked down.
10. Shut the skid steer down before dismounting. Refer to “Skid Steer Shutdown Procedure” on page 10.
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.
- Shut power machine down and release all hydraulic pressure to the equipment before connecting or disconnecting hydraulic hoses to or from the power machine.

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

Refer to Figure 1-2 on page 11:

**NOTE:** Elbows (#8) are factory assembled to hydraulic hoses (#3 & #4). Straight adapters (#9) are shipped loose in a bag. Switch out elbows for straight adapters if straight adapters are a better fit for the equipment set-up.

1. Skip this step if elbows (#8) are a good fit for hooking up quick connect couplers (#1 & #2) to the skid steer. If straight adapters (#9) are a better fit, then replace elbows with the straight adapters. Tighten adapters to the hydraulic hoses (#3 & #4) and couplers to adapters.
2. Thread hydraulic hoses (#3 & #4) through hole (#5) on the left-hand side of the hitch plate.
3. Route hydraulic hoses through the most convenient path to access your power equipment couplings. Path shown may not be the most convenient. See note under Figure 1-2 if attaching the Trip Edge Blade to a Kubota skid steer.
4. Clean quick connect couplers (#1 & #2) of dirt and then connect female (#1) and male coupler (#2) to the skid steer high pressure outlets. Make sure quick connect couplers have fully engaged. If they have not, check the following. Make sure:
   a. Couplers are same size and type.
   b. Auxiliary hydraulic pressure to the loader couplers has been released.
5. Extend and retract hydraulic cylinders (#7) with skid steer controls.
6. If the moldboard angles the opposite direction intended, shut skid steer down and switch quick connect couplers (#1 & #2) on hydraulic hoses (#3 & #4) and then reconnect hydraulic hoses to the skid steer couplers.
7. For additional help, refer to Hydraulic Hook-up in your skid steer Operator’s Manual.

Purge Hydraulic System

**WARNING**
To avoid serious injury or death:
Always shut power machine down using the “Shutdown Procedure” provided in this manual before servicing, adjusting, cleaning, or maintaining the attachment.

**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.

With Trip Edge Blade raised off the ground about 12”, cycle hydraulic cylinders (#1 & #2) several times from fully extended to fully retracted. If hydraulic cylinders operate unevenly after cycling them several times, purge hydraulic system as follows:
Purge Hydraulic Cylinders

Refer to Figure 1-3:

1. Fully extend hydraulic cylinder (#1) and fully retract hydraulic cylinder (#2).
2. Lower Trip Edge Blade to the ground and shut skid steer down using “Skid Steer Shutdown Procedure” on page 10.
3. Loosen hydraulic hose from elbow (#4).
4. Start skid steer and slowly retract hydraulic cylinder (#1) until elbow (#4) is purged of all trapped air.
5. Shut skid steer down using “Skid Steer Shutdown Procedure”.
6. Tighten hydraulic hose to elbow (#4).
7. Start skid steer and raise cutting edge slightly off the ground, fully retract hydraulic cylinder (#1), and fully extend hydraulic cylinder (#2).
8. Lower Trip Edge Blade to the ground and shut skid steer down using “Skid Steer Shutdown Procedure”.
9. Loosen hydraulic hose from upper elbow (#6).
10. Start skid steer and slowly extend hydraulic cylinder (#1) until elbow (#6) is purged of all trapped air.
11. Shut skid steer down using “Skid Steer Shutdown Procedure”.
12. Tighten hydraulic hose to elbow (#6).
13. Raised Trip Edge Blade off the ground about 12”, cycle hydraulic cylinders (#1 & #2) several times from fully extended to fully retracted. If hydraulic cylinders continue to operate unevenly, repeat steps 1-13 until hydraulic cylinders do operate smoothly.

Equipment Clearances

DANGER
To avoid serious injury or death:
Keep attachment and/or loader arms 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:
- Use steps, grab-handles, and anti-slip surfaces on the power machine and attachment to get on and off the power machine. Using unapproved stepping surfaces and/or handholds can result in a falling hazard.
- Check hitch fit-up frequently. An improper fit-up can cause the attachment to come loose from the loader hitch plate and fall.

It is important to check clearance between the Trip Edge Blade and skid steer by carefully going through the unit’s full range of motions before putting it into operation. While checking for clearance, check also for hose issues such as binding, kinking, stretching, rubbing, etc.

1. Before starting the skid steer, check hitch hook-up. The attachment can fall from the loader hitch plate if not properly connected. Make sure:
   a. Loader hitch is fully seated under the Trip Edge Blade’s top angle bar.
   b. Loader hitch plate is against the blade hitch plate.
   c. Lock handles or hydraulic locks are locked with lock pins fully seated in the bottom slots.
2. Start skid steer, and raise Trip Edge Blade approximately 36” off the ground.
3. If necessary, have someone stand safely nearby that can motion for the operator to stop if a problem develops while completing steps 4-9 below.
4. Angle moldboard fully to the right.
5. Rotate top of loader hitch plate fully forward and lower loader arms all the way down. Continue checking by raising the loader arms fully up.
6. With loader arms fully up, rotate top of loader hitch plate fully back and lower loader arms fully down.
7. Raise Trip Edge Blade approximately 36” off the ground and angle moldboard fully to the left.
8. Repeat steps 5 & 6.
Orange Markers

Refer to Figure 2-1:

Kubota offers 30" tall cable filled orange markers that can be bolted to both sides of the moldboard. The markers indicate the outer ends of the Trip Edge Blade when approaching buildings, trees, poles, and other obstacles that could be damaged and/or cause damage the Trip Edge Blade.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>323-026A</td>
<td>Cable Filled Orange Marker 30&quot;</td>
</tr>
</tbody>
</table>

1. Attach 30" cable filled orange marker (#4) to outer left-hand side of moldboard (#1) with two 5/16"-18 x 1" GR5 hex head cap screws (#2) and hex nylock nuts (#3).

2. Tighten nylock nuts to the correct torque.

3. Repeat steps 1 and 2 for the right-hand side.
Optional Cutting Edges
Refer to Figure 2-2:
Kubota offers a steel cutting edge and poly cutting edge (#1) for the Trip Edge Blade. Use the steel cutting edge for tough applications and poly cutting edge for more gentle applications such as paved parking lots. Refer to “Cutting Edge Removal and Assembly” on page 27.

Steel Cutting Edges

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>301-603A</td>
<td>Steel Cut Edge Assy 96</td>
</tr>
<tr>
<td>301-604A</td>
<td>Steel Cut Edge Assy 108</td>
</tr>
</tbody>
</table>

Ploy Cutting Edges

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>301-605A</td>
<td>Poly Cutting Edge Assy 96</td>
</tr>
<tr>
<td>301-606A</td>
<td>Poly Cutting Edge Assy 108</td>
</tr>
</tbody>
</table>

Deflector Flap
Refer to Figure 2-2:
Kubota offers a 12" (30.5 cm) wide deflector flap (#5) mounted on the moldboard to help stop snow from flying over the moldboard and into the operator cab.

Deflector Flap Assembly

1. Attach 12" (wide deflector flap (#5) to the top front flange on moldboard (#4) with deflector bar (#2), 3/8"-16 x 1" GR5 bolts (#3), and flange locknuts (#6).
2. Tighten locknuts (#6) to the correct torque.
Skid Shoe Adjustment

Refer to Figure 3-1:

There are two skid shoes mounted on the back of the moldboard that should be adjusted vertically as the cutting edge wears and to reduce the chances of damaging the surface being scraped.

**IMPORTANT:** To protect against buckling forces, always operate Trip Edge Blade with the hitch plate level.

1. With Trip Edge Blade on the ground and skid steer shut down, place two 12 1/2" (31.8 cm) minimum height non-concrete support blocks (#8) in front of cutting edge (#10) and in line with side plates (#9).
2. Return to the skid steer. Raise cutting edge above the support blocks (#8) and drive skid steer forward until the support blocks are under side plates (#9).
3. Lower Trip Edge Blade side plates (#9) onto the support blocks.
4. Tilt top of hitch plate (#6) forward or backward as needed until the top is level from front to back. A level (#5) may be used to verify hitch top is level.
6. Remove linchpins (#2) and skid shoes (#1) from support tubes (#7).
7. Add to or remove spacers (#3) to skid shoes (#1) until bottom of skid shoes are level with bottom of cutting edge (#10) or to desired height.
8. Insert skid shoes (#1) in support tubes (#7).

**NOTE:** Spacers (#4) installed above the mount keep the skid shoes from dropping when raising the Trip Edge Blade to make turns and to push snow up onto a snow pile.
9. Install remaining spacers (#4) above the support tubes (#7) as shown.
10. Reattach linchpins (#2) above spacers (#4).
Section 3: Adjustments

Trip Spring Tension
Refer to Figure 3-2

Trip springs mounted on the back of the moldboard protect the unit by allowing the cutting edge to trip back when striking solid objects. Check factory setting to verify the springs are set to the correct tension.

⚠️ DANGER

To avoid serious injury or death:
- Keep clear of trip springs and cutting edge. Do not attempt to free cutting edge by hand if it is jammed in the tripped position. The cutting edge can suddenly spring back due to a high return spring load. See Jammed Tripped Cutting Edge on page 29.
- Keep clear of trip springs and cutting edge. The springs contain stored energy that can cause severe injury or death should the springs break or if a jammed trip mechanism suddenly releases and returns to normal operation.

**IMPORTANT:** The cutting edge must be in its normal operating position to adjust spring length.

1. Measure length of all four trip springs (#3) from top of gusset plate (#4) to bottom of eye bolt hole (#5). Skip steps below if all the springs measure 12 3/4" (32.4 cm). Otherwise, continue with steps below.
2. On one side of the Trip Edge Blade, loosen the two jam nuts (#1) and tighten or loosen the two spring tension nuts (#2) until springs (#3) measure 12 3/4" (32.4 cm) from top of gusset plate (#4) to bottom of eye bolt holes (#5).
3. Tighten jam nuts (#1) against hex nuts (#2).
4. If needed, repeat steps 1-3 on the opposite side of the Trip Edge Blade.

**IMPORTANT:** Do not exceed recommended spring length. Exceeding recommended spring length could cause damage to the Trip Edge Blade.

**NOTE:** After heavy continuous use, component wear and/or spring stretch may require adjustment to the springs. Each 1/8" increases total spring pressure by 106 lbs (48 kg)

5. To apply more spring tension, loosen jam nut (#1) and tighten nut (#2) by 1/8" (3 mm) thus lengthening spring (#3) and increasing spring pressure. Re-tighten jam nut (#1).
6. Repeat step 5 for all remaining springs (#3) before putting the Trip Edge Blade back into service.
7. Check performance before proceeding with any more increased or decreased spring tension.

8. Replace springs if your adjustment requires spring to go beyond 14" (36 cm).
Section 4: Operating Procedures

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 Trip Edge Blade. Therefore, it is absolutely essential that no one operates the Trip Edge Blade unless they are age 16 or older and have read, fully understood, and are totally familiar with the Operator’s Manual.

Perform the following inspections before using your Trip Edge Blade.

Operating Checklist

<table>
<thead>
<tr>
<th>Check</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Read &amp; follow all safety rules &amp; safety decals. Refer to “Important Safety Information”.</td>
<td>1</td>
</tr>
<tr>
<td>Make sure all guards and shields are in place. Refer to “Important Safety Information”.</td>
<td>1</td>
</tr>
<tr>
<td>Read &amp; follow preparation &amp; setup instructions. Refer to “Section 1: Assembly &amp; Set-up”.</td>
<td>10</td>
</tr>
<tr>
<td>Read &amp; make all required adjustments. Refer to “Section 3: Adjustments”.</td>
<td>16</td>
</tr>
<tr>
<td>Read and follow all operating procedures. Refer to “Section 4: Operating Procedures”.</td>
<td>18</td>
</tr>
<tr>
<td>Read and follow all maintenance Instructions. Refer to “Section 5: Maintenance &amp; Lubrication”.</td>
<td>26</td>
</tr>
<tr>
<td>Read &amp; follow all lubrication instructions. Refer to “Lubrication Points”.</td>
<td>31</td>
</tr>
<tr>
<td>Check Trip Edge Blade initially and periodically for loose bolts and pins. Refer to “Torque Values Chart”.</td>
<td>35</td>
</tr>
</tbody>
</table>

General Safety Information

⚠️ 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.

- Keep all person and objects clear while any part of this Trip Edge Blade is in Motion. A person can be crushed by the attachment or skid steer.

- Keep clear of trip springs and cutting edge. Do not attempt to free cutting edge by hand if it is jammed in the tripped position. The cutting edge can suddenly spring back due to a high return spring load. See Jammed Tripped Cutting Edge on page 29.

- Do not disassemble cutting edge or trip springs while trip springs are loaded. The springs can collectively store over 5500 lbs (2495 kg) of force. The sudden release of this force can cause great bodily harm.

- Do not drive close to ditches, retaining walls, drop-offs, water, etc. Rollover due to a cave-in or mishap could result.

⚠️ WARNING

To avoid serious injury or death:

- Refer to Figure 4-1: Use anti-slip pads (#1) on the hitch plate and hand holds on the skid steer when climbing into the skid steer cab. Never step on smooth surfaces on the Trip Edge Blade. Feet can slip on smooth surfaces especially if wet or icy and the Trip Edge Blade can suddenly shift if pivot control bolts (#2) have not been properly inserted.

- 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.

- Allow only persons to operate this attachment who have fully read and comprehended this manual, who are properly trained to operate the attachment safely, and who are age 16 or older. Serious injury or death can result from the failure to read, understand, and follow instructions provided in this manual.

- Operate only power machines equipped with a certified Roll-Over Protective Structure (ROPS) and seat belt. Fasten seat belt snugly and securely to help protect against serious injury or death from machine overturn.

- 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.

- Make sure controls are all in neutral position or park before starting the power machine.

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

- Always dress to stay warm in cold weather. Never allow body or extremities to become too cold. Use a cab to provide protection against the cold. Go inside a heated area to warm-up when getting too cold.
Pre-Operation Inspection

**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.**


2. Visually check for excessive wear, worn, damaged, cracked, or loose parts. Replace parts with genuine Kubota parts.

3. Inspect all connections for leaks. Tighten any connections that are loose.

4. Start skid steer and check hydraulic oil leaks with a piece of paper or cardboard. **Do not** use your hands as invisible thin streams of high pressure oil can be injected into your skin.

5. Inspect hydraulic hose for pinch points that can damage the hose during operation and for sufficient length and equipment clearances. See “Equipment Clearances” on page 13.

6. Check all controls and operating functions of the skid steer.
Trip Edge Blade Operation

**WARNING**

To avoid serious injury or death:

- Always lock float assembly when transporting from one site to another, when working on or around the Trip Edge Blade, and when storing the attachment. An unlocked float assembly can rotate suddenly creating a pinch point hazard and a fall hazard.

- Transport attachment low to the ground but high enough to allow for the cutting edge to float down on either end 5 degrees without hitting the ground or any other solid object.

**NOTE:** Depending on the skid steer hitch plate, it may be necessary to unhook the Trip Edge Blade to lock and unlock float assembly.

There are four operating functions that control the Trip Edge Blade. Proper control of each of these functions will enhance the Trip Edge Blade performance:

- **Raise and Lower Loader Arms**
- **Make Straight and Angled Cuts**
- **Tilt Hitch Plate Level**
- **Pivot Float**

### Raise and Lower Loader Arms

Use skid steer loader arms to pick up the Trip Edge Blade for traveling and making turns. Lower loader arms until the Blade is resting on its skid shoes. Set loader arms to float before pushing product with the Blade.

### Make Straight and Angled Cuts

Align cutting edge straight when pushing product straight or onto a pile. Angle cutting edge when pushing product to one side of the skid steer. Operate skid steer auxiliary hydraulic switch in one direction to angle the cutting edge to the left and in the opposite direction to angle the cutting edge to the right. Return auxiliary switch to neutral position when cutting edge is at the preferred angle.

### Tilt Hitch Plate Level

Adjust skid shoe height. See “Skid Shoe Adjustment” on page 16. With Trip Edge Blade resting on its skid shoes and loader arms set to float, tilt top of hitch plate level.

### Pivot Float

Refer to Figure 4-2:

The Trip Edge Blade is designed with a pivot float to allow the cutting edge to rotate clockwise or counterclockwise by as much as 5° in either direction. The pivot float allows the cutting edge to follow the contour of the ground.

Always unlock pivot float to push product. To protect against injury, always lock pivot float before transporting long distances, when storing the unit, and when working on or around the unit.

#### Unhook Trip Edge Blade

1. With the Trip Edge Blade on the ground, place one 4 1/2" (11.4 cm) high x 18" (45.7 cm) long support block (#4) or two support blocks that are 6" (15 cm) long in front of the cutting edge and in line with side plates (#5). Do not use concrete support block(s).
2. Raise cutting edge above support block (#4) and drive skid steer forward until support block is located beneath side plates (#5).
3. Unhook Trip Edge Blade from the skid steer while making sure the side plates (#5) are supported by support block (#4). Refer to “Unhook Trip Edge Blade” on page 24.

#### Unlock Pivot Float

1. Complete “Unhook Trip Edge Blade” above.
2. Remove locknuts (#3), flat washers (#2), and bolts (#1) from holes (A).
3. Insert bolts (#1) with washers (#2) in storage holes (B). Secure bolts with locknuts (#3). Draw lock nut up snug.
4. Hook-up Trip Edge Blade to the skid steer. Refer to “Skid Steer Hook-Up” on page 11.

#### Lock Pivot Float

1. Complete “Unhook Trip Edge Blade” above.
2. Remove locknuts (#3), flat washers (#2), and bolts (#1) from storage holes (B).
3. Place one washer (#2) on each bolt (#1) and insert the bolts through holes (A) as shown. The hitch plate may need to be rotated to align holes (A) with holes in the hitch plate.
4. Secure bolts with remaining flat washers (#2) and locknuts (#3). Tighten locknuts to the correct torque.
5. Hook-up Trip Edge Blade to the skid steer. Refer to “Skid Steer Hook-Up” on page 11.
Transport Trip Edge Blade

⚠️ DANGER
To avoid serious injury or death:
Do not allow the Trip Edge Blade to cross over the center line of a public road. Oncoming traffic can hit the Trip Edge Blade resulting in personal injury, loss of life, and damage to equipment.

⚠️ WARNING
To avoid serious injury or death:
- When traveling on public roads whether at night or day, use accessory light and other warning devices to warn operators of other vehicles. Comply with all federal, state, and local laws.
- Transport with attachment as close to the ground as possible without hitting objects. Leave enough clearance to allow the cutting edge to rotate down on either end 5 degrees. Carrying the attachment high could cause the machine to tip over and/or operator to lose control.
- 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.
- Lightweight power machines may need weight added to the rear to maintain steering control and prevent tipping. Consult your power machine Operator’s Manual to determine proper weight requirements and maximum weight limitations.

1. Raise Trip Edge Blade to a safe traveling height that does not block your view.
2. Lock Trip Edge Blade pivot float with pivot control bolts (#1). Refer to “Lock Pivot Float” on page 20.
3. Do not activate loader arm controls or attachment hydraulic controls while transporting.
4. Select a safe ground speed when transporting from one area to another.
5. Reduce ground speed when turning and leave enough clearance so that the Trip Edge Blade does not contact obstacles such as buildings, trees, or fences.
6. When traveling on roadways, transport in such a way that faster moving vehicles may pass you safely.
7. Slow down when traveling over rough or hilly terrain.

Operating Guidelines
Removing snow with your Trip Edge Blade can be made easier by following some simple guidelines.

- If a Trip Edge Blade is kept in warm storage, allow it to cool before moving snow. Snow will freeze to a warm cutting edge making snow removal difficult.
- Stay current with your snow removal. Fresh snow is much easier to remove.
- Push first snows far enough away to allow space for future snow falls.
- Do not overload equipment. Push only as much snow as equipment can safely and easily handle. Snow that has become deep and/or compacted may require several passes.
- Be aware of equipment overheating. Allow time for equipment to cool if it is overheating.
- Accelerate slowly when starting a pass to allow time for tire traction and for snow to accumulate in front of the Trip Edge Blade.
- Reduce speed when coming to the end of a pass and when needed.
- Never pile snow on someone else’s property, streets, or sidewalks.
- Check with local regulations before pushing snow across roadways. This may be illegal in your area.
- Never pile snow near fire hydrants, mailboxes, water drains, electrical boxes, or handicapped parking areas.
- Never pile snow where it obstructs visibility of traffic.
Operating the Trip Edge Blade

The Trip Edge Blade is designed primarily for moving snow. It may also be used to move small amounts of light aggregate materials such as pea gravel, grain, and loose soil. Do not use the Trip Edge Blade to move undisturbed soil, heavy materials, gravel, rocks, or similar items.

**DANGER**

To avoid serious injury or death:

- 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 allow bystanders to be near the attachment, loader arms, or power machine during operation. They can be hit by falling objects, entangled in the equipment, ran over, etc.

**WARNING**

To avoid 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.
- Always operate attachment while seated with seat belt fastened around operator. Always lower seat/lap bar(s) when equipped with the skid steer. This will help protect the operator against sudden stops when hitting solid objects.
- Avoid hitting solid objects with this attachment. Solid objects can damage equipment and throw operator forward causing loss of control, bodily injury, or death. Always wear the seat belt.

**IMPORTANT:** When pushing product onto a pile, always do so with the cutting edge straight. Piling product with the Trip Edge Blade angled can damage the Trip Edge Blade and skid steer.

Snow Plowing

1. Read comments and alerts under “Operating the Trip Edge Blade” above before continuing.

2. When possible, thoroughly inspect the area to be plowed ahead of a snowfall. Otherwise, search the area thoroughly for potential problems before moving the snow.

   a. Mark all potential obstructions with stakes or flags that can be seen above the snow.
   
   b. Identify emergency equipment and utility outlets that will need quick access. Make a plan on how to clear the area so that emergency crews can access them quickly in the event of a storm.
   
   c. Identify areas where snow can be piled safely without obstructing traffic visibility and without obstructing access to fire hydrants, utilities, mailboxes, property, and parking areas. Don’t pile snow on streets, sidewalks, or someone else’s property without permission from the proper authorities.

   d. Identify tight areas that will be hard to turn around in and make a plan for clearing such areas.

3. Adjust bottom of the skid shoes to be even with the bottom of the cutting edge or slightly below the cutting edge.


5. Set Trip Edge Blade angle straight if pushing snow into a pile. Set Trip Edge Blade angle to the left or right if moving snow to one side.

6. Lower loader arms until Trip Edge Blade is resting on the skid shoes. Set skid steer lift arms to float.

7. Travel forward pushing snow ahead or to the side. At the end of the travel, raise Trip Edge Blade up before backing up or turning around.

   a. Mark all potential obstructions with stakes or flags that can be seen above the snow.
   
   b. Identify emergency equipment and utility outlets that will need quick access. Make a plan on how to clear the area so that emergency crews can access them quickly in the event of a storm.
   
   c. Identify areas where snow can be piled safely without obstructing traffic visibility and without obstructing access to fire hydrants, utilities, mailboxes, property, and parking areas. Don’t pile snow on streets, sidewalks, or someone else’s property without permission from the proper authorities.

   d. Identify tight areas that will be hard to turn around in and make a plan for clearing such areas.

8. Set Trip Edge Blade angle straight if pushing snow into a pile. Set Trip Edge Blade angle to the left or right if moving snow to one side.

9. Lower loader arms until Trip Edge Blade is resting on the skid shoes. Set skid steer lift arms to float.

10. Travel forward pushing snow ahead or to the side. At the end of the travel, raise Trip Edge Blade up before backing up or turning around.

   a. Mark all potential obstructions with stakes or flags that can be seen above the snow.
   
   b. Identify emergency equipment and utility outlets that will need quick access. Make a plan on how to clear the area so that emergency crews can access them quickly in the event of a storm.
   
   c. Identify areas where snow can be piled safely without obstructing traffic visibility and without obstructing access to fire hydrants, utilities, mailboxes, property, and parking areas. Don’t pile snow on streets, sidewalks, or someone else’s property without permission from the proper authorities.

   d. Identify tight areas that will be hard to turn around in and make a plan for clearing such areas.

8. Set Trip Edge Blade angle straight if pushing snow into a pile. Set Trip Edge Blade angle to the left or right if moving snow to one side.

9. Lower loader arms until Trip Edge Blade is resting on the skid shoes. Set skid steer lift arms to float.

10. Travel forward pushing snow ahead or to the side. At the end of the travel, raise Trip Edge Blade up before backing up or turning around.

   a. Mark all potential obstructions with stakes or flags that can be seen above the snow.
   
   b. Identify emergency equipment and utility outlets that will need quick access. Make a plan on how to clear the area so that emergency crews can access them quickly in the event of a storm.
   
   c. Identify areas where snow can be piled safely without obstructing traffic visibility and without obstructing access to fire hydrants, utilities, mailboxes, property, and parking areas. Don’t pile snow on streets, sidewalks, or someone else’s property without permission from the proper authorities.

   d. Identify tight areas that will be hard to turn around in and make a plan for clearing such areas.
Push Light Aggregate Materials

1. Read comments and alerts under “Operating the Trip Edge Blade” on page 22 before continuing.

2. When possible, thoroughly inspect the area to be worked. Search thoroughly for potential problems before moving aggregate materials.
   a. Mark all potential obstructions with stakes or flags that can be seen.
   b. Identify any area that should not be blocked with material such as utility outlets, walkways, and driveways.
   c. Identify areas where the material can safely be piled or dispersed.
   d. Identify tight areas that will be hard to turn around in and make a plan for clearing such areas.

3. Adjust bottom of the skid shoes to be even with the bottom of the cutting edge or slightly below the cutting edge.

4. Unlock pivot float if clearing an area. Lock pivot float if dispersing material under the cutting edge. Refer to “Pivot Float” on page 20.

5. Set Trip Edge Blade angle straight if pushing material in a straight line or into a pile. Set Trip Edge Blade at an angle if moving material to one side.

6. Lower loader arms until Trip Edge Blade is resting on the skid shoes. Set skid steer lift arms to float.

7. Travel forward pushing material ahead, to the side, or releasing material under the cutting edge to spread material over an area. At the end of the travel, raise Trip Edge Blade up before backing up or turning around.

   • **Align Trip Edge Blade Straight:** Push material into piles by setting the Trip Edge Blade straight and pushing material toward the pile. Raise the cutting edge up slowly while pushing material onto the pile.

   • **Angling Trip Edge Blade:** Clear area of material by adjusting top of blade hitch plate level using the tilt cylinders on the front of the loader arms. Adjust skid shoes to raise and lower the cutting edge (See “Skid Shoe Adjustment” on page 16). Set Trip Edge Blade at the preferred angle and make a single path through the area pushing material to one side. Make successive passes while adjusting the angle to always push material to the outer edges of the area.

   • **Disperse Material Under the Cutting Edge:** Disengage loader arm float. Raise loader arms up to the preferred height to disperse material. This height will need to be adjusted down as the skid steer starts to ride on top of the dispersed material. Tilt top of hitch plate forward or backward to make fine adjustment to the material depth.

   If dispersing material traveling straight forward until all material is dispersed under the cutting edge, set the cutting edge straight.

   If dispersing a material and dumping the excess to one side, angle the cutting edge.
Unhook Trip Edge Blade

Refer to Figure 4-3:

**DANGER**
To avoid serious injury or death:
A crushing hazard exists while hooking-up and unhooking the attachment. Do not allow anyone to stand between attachment and power machine while approaching or backing away from the attachment. Do not operate lift and/or tilt controls while someone is near the power machine and/or attachment.

**WARNING**
To avoid serious injury or death:
- 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.**
- Shut power machine down and release all hydraulic pressure to the equipment before connecting or disconnecting hydraulic hoses to or from the power machine.

1. Angle trip-edge straight across with hydraulic cylinders.
3. Uncouple hydraulic hose fittings (#1 & #2) from the skid steer. Coil hydraulic hoses (#3 & #4) and store on the Trip Edge Blade with quick connect couplers out of the dirt.
4. If lock handles are mechanical, pull lock handles up on the loader hitch plate to remove lock pins from the bottom slots in the attachment’s hitch plate.
5. Return to the skid steer seat.
6. If lock handles are hydraulic, raise lock pins to remove them from the hitch plate bottom slots.
7. Tilt top of loader hitch plate slightly forward to move bottom of loader hitch plate away from the Trip Edge Blade hitch plate.
8. Slowly lower loader arms until the loader hitch plate has separated from the attachment’s top angle bar.
9. Back skid steer slowly away from the Trip Edge Blade while making sure the skid steer does not interfere with the attachment’s hitch plate or hydraulic hoses.
General Operating Instructions

Once you have familiarized yourself with the Operator’s Manual, completed the operation’s checklist, and properly attached your Kubota TE3596 or TE35108 Trip Edge Blade to your skid steer loader, you are now almost ready to begin work. Hopefully, you have checked your work site for any obstacles that you wouldn’t want to damage or encounter. Marking stakes should be placed to help you avoid obstacles buried in the snow or to help establish push-back limits for snow piles.

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.

The TE3596 and TE35108 front mounted Trip Edge Blades have trip-edge protection designed in to provide an added measure of safety. Should you strike an immovable object in your path, the cutting edge of the Trip Edge Blade retracts rearward until you are clear of the obstacle. When the obstacle is passed over, the cutting edge will automatically reset itself to work position. Because of the potential to encounter buried obstacles in the snow, Kubota insists that all operators wear seat belts for their own personal safety.

If you have the cutting edge set at an angle, the accumulated snow or material will begin to move outward toward the trailing edge of the cutting edge. The greater the angle the more quickly the accumulation will be distributed off to the side. Set the trip edge straight when pushing snow or aggregate materials into a pile. It is usually best to raise the cutting edge at the last minute in order to push the upper portion of the pile even further back and to make the pile higher. Ground speeds for snow removal functions are best done at an approximate 2-4 mph (3.2-6.4 km/hr). See additional instructions under “Operating the Trip Edge Blade” on page 22.

Becoming proficient with the Trip Edge Blade takes some practice. Skid steer horsepower, your personal skill level, depth and weight of the snow, traction conditions, soil, or aggregate composition, moisture levels, and compaction factors will all have a definite impact on how easily and effectively you get the job done. Develop a plan to achieve your expected results. Set the Trip Edge Blade up at the proper angle to do the job. This may require some experimentation to achieve the desired results. Remember, the Trip Edge Blade is designed for forward operation only.

With a little practice you should become a very good operator and consistently achieve the desired results you expect with your Kubota Trip Edge Blade. See the “Features and Benefits” section or the “Product Specifications” section for additional information and performance enhancing options.
General Maintenance Information

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.

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

⚠️ DANGER

To avoid serious injury or death:

- Do not go near or under raised loader arms without first securing loader arms in the raised position with an approved lift-arm support.
- Always secure equipment with solid, non-concrete supports before working under it. Never go under equipment supported by concrete blocks or hydraulics. Concrete can break, hydraulic lines can burst, and/or hydraulic controls can be actuated even when power to hydraulics is off.

⚠️ WARNING

To avoid serious injury or death:

- Always shut power machine down using the “Shutdown Procedure” provided in this manual before servicing, adjusting, cleaning, or maintaining the attachment.
- Always lock pivot float assembly when transporting from one site to another, when working on or around the Trip Edge Blade, and when storing the attachment. An unlocked pivot float assembly can rotate suddenly creating a pinch point hazard.
- Keep body, body extremities, loose clothing, pull strings, etc. away from pinch points such as rotating, extending, and/or retracting components. Secure pinch point areas to ensure they will not move before working on or near them.
- Perform scheduled maintenance. Check for loose hardware, missing parts, broken parts, structural cracks, and excessive wear. Make repairs before putting implement back into service.
- 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 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.

Hydraulic System

⚠️ 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.

One of the most important things you can do to prevent hydraulic system problems is to ensure that your skid steer's reservoir remains free of dirt and contamination. These simple maintenances will go a long way to prevent occurrence of hydraulic problems:

1. Replace your skid steer’s hydraulic filter element at the prescribed intervals.
2. Inspect skid steer hydraulic oil level. Add oil if it is low.
3. Use a clean cloth to wipe hose ends before attaching them to your skid steer.
4. Inspect quick connect couplers, make sure they are fully engaged. Replace couplers if they are sized wrong.
5. Inspect hydraulic hoses and cylinder for oil leaks. Tighten or replace components to fix leaks.
Cutting Edge Removal and Assembly

Refer to Figure 5-1:

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.
• Always lock pivot float when working on or around the Trip Edge Blade. An unlocked pivot float can suddenly rotate causing personal injury.

NOTE: When reversing the cutting edge (#4), it is best to keep its worn front surface facing forward and the unworn back surface against trip hinge (#1).

Refer to Figure 4-2 on page 20:
1. Lock pivot float horizontally. Refer to “Pivot Float” on page 20 for detailed instructions.
2. Lower hitch frame onto solid non-concrete support blocks or extend skid shoes all the way down to support the cutting edge off the ground.
3. Angle trip-edge straight across with hydraulic cylinders.
4. Shut skid steer down according to “Skid Steer Shutdown Procedure” on page 10.
5. If your cutting edge is made of steel, continue with “Steel Cutting Edge” on this page. If your cutting edge is made of poly wear material, skip to “Poly Cutting Edge” on page 28.

Steel Cutting Edge

Refer to Figure 5-1:
1. Read “Cutting Edge Removal and Assembly” on this page before reading instructions below.
2. Inspect steel cutting edge (#4) for wear. The bottom cutting edge is wore out if lower edge is within 1/4" (6 mm) of hinge mount (#1).
3. Remove all but the two outside flange nuts (#3) and plow bolts (#2) from cutting edge (#4).
4. Loosen the two outside flange nuts (#3). Do not remove flange nuts from the bolts at this time.
5. Hold one end of cutting edge (#4) and remove flange nut (#3) and plow bolt (#2) from that end. Lower that end to the ground.
6. Hold opposite end of cutting edge up and remove remaining flange nut (#3) and plow bolt (#2). Lower cutting edge to ground.
7. Inspect plow bolts (#2) and flange nuts (#3) for wear. Replace as needed.
8. If the top edge of existing cutting edge (#4) is not worn, flip top edge to the bottom, and reinstall it. Replace cutting edge if both cutting edges will not extend more than 1/4" (6 mm) below the hinge mount.
9. Install existing/new cutting edge (#4) by attaching one end to hinge mount (#1) with one plow bolt (#2) and flange nut (#3). Draw flange nut up snug, do not tighten.
10. Raise opposite end up to hinge mount (#1) and attach that end with plow bolt (#2) and flange nut (#3). Draw flange nut up snug, do not tighten.
11. Install remaining 5/8"-11 GR5 plow bolts (#2) and flange nuts (#3). Tighten all flange nuts to the correct torque.
12. Return to the skid steer. Raise unit up and back away from support blocks.
Poly Cutting Edge
Refer to Figure 5-2:

NOTE: The holes in the poly cutting edge (#4) may not align with holes in hinge mount (#5) due to the poly material stretching in hot weather and shrinking in cold weather. If you find this to be the case, allow the poly cutting edge to reach room temperature and then install the cutting edge.

1. Read “Cutting Edge Removal and Assembly” on page 27 before reading instructions below.
2. Inspect poly cutting edge (#4) for wear. The bottom cutting edge is worn out if lower edge is within 1/4" (6 mm) of hinge mount (#5).
3. Remove all but the two outside flange nuts (#3) and carriage bolts (#2) from cutting edge (#4).
4. Loosen the two outside flange nuts (#3). Do not remove flange nuts at this time.
5. Hold one end of cutting edge (#4) and retaining bar (#1). Remove carriage bolt (#2) from that end. Lower that end to the ground.
6. Hold opposite end of cutting edge (#4) and retaining bar (#1) and remove carriage bolt (#2) from that end. Lower cutting edge and retaining bar to ground.
7. Inspect carriage bolts (#2) and flange nuts (#3) for wear. Replace as needed.
8. If the top edge of existing cutting edge (#4) is not worn, flip top edge to the bottom, and reinstall it. Replace cutting edge if both cutting edges will not extend more than 1/4" (6 mm) below hinge mount (#5).
9. Install existing/new cutting edge (#4) by attaching one end to hinge mount (#5) with one carriage bolt (#2), backing bar (#1), and flange nut (#3). Draw flange nut up snug, do not tighten.
10. Raise opposite end up to hinge mount (#5) and attach that end with carriage bolt (#2), retaining bar (#1), and flange nut (#3). Draw flange nut up snug, do not tighten.
11. Install remaining 5/8"-11 GR5 carriage bolts (#2) and flange nuts (#3). Tighten all flange nuts to the correct torque.
12. Return to the skid steer. Raise unit up and back away from support blocks.
Jammed Tripped Cutting Edge
Refer to Figure 5-3:

⚠️ DANGER
To avoid serious injury or death:

• Stay away from a cutting edge that has tripped and will not reset itself. Do not attempt to free the cutting edge by hand as the cutting edge can suddenly spring back due to high spring return load.

• Do not disassemble the cutting edge while springs are loaded. The springs can collectively store over 5500 lbs (2495 kg) of force. The sudden release of this force can cause great bodily harm.

• Do not remove spring retaining nuts (#1 & #2) if any spring (#3) is in tension. Each spring in tension stores a minimum force of 300 lbs (136.1 kg). That force increases by 213 lbs (96.6 kg) every additional inch (2.5 cm) the spring is extended. The minimum force alone is enough to instantly throw the nut like a projectile once loosened.

• If the cutting edge will not reset itself, have a qualified service technician repair the unit. Do not attempt to repair it yourself.

With proper maintenance, lubrication, and under normal operating conditions, the cutting edge (#4) should always return to its operating position after tripping. Stay away from the cutting edge if it has not returned. Do not pull debris from the cutting edge hinge joint (#5) or attempt to manually work on the cutting edge to free a jammed hinge pin (#6).

If material is caught in the hinge joint (#5), try tilting the top of the loader hitch plate forward and lowering the loader arms to force the cutting edge (#4) against the ground. This will open the hinged joint and release material caught in the joint. Raise loader arms up to close the hinged joint and repeat this maneuver several more times to dislodge any debris in the joint.

If debris will not dislodge from the hinge joint (#5), have an authorized Kubota Dealer repair the Trip Edge Blade.

Make necessary repairs to the Trip Edge Blade before putting the unit back into service.
Long-Term Storage
Clean, inspect, service, and make necessary repairs to the Trip Edge Blade when storing it for long periods and when storing it at the end of a working season. This will help ensure the Trip Edge Blade is ready for field use the next time you hook-up to it.

⚠️ 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:
- 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.

1. Remove any dirt and grease that may have accumulated on the Trip Edge Blade and moving parts. Scrape off compacted dirt from the bottom of Trip Edge Blade. Wash all surfaces thoroughly with a garden hose.

2. Inspect for loose, damaged or worn parts and adjust or replace as 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.

<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>

4. Replace all damaged or missing decals.

5. A coating of oil may also be applied to the lower cutting edge area to minimize oxidation while in storage.

6. To protect against seizing, lubricate moving parts as noted in “Lubrication Points” starting on page 31.

7. Store Trip Edge Blade on a level surface in a clean, dry place. Inside storage will reduce maintenance and make for a longer life.

8. Follow all unhooking instructions on page 24 when disconnecting the skid steer from the Blade.
Lubrication Points

<table>
<thead>
<tr>
<th>Lubrication Legend</th>
<th>Multi-purpose spray lube</th>
<th>Multi-purpose grease lube</th>
<th>Multi-purpose oil lube</th>
<th>50 Hrs</th>
<th>Intervals in hours at which lubrication is required</th>
</tr>
</thead>
</table>

**Spring Loaded Pivot Pins**
2- Zerks (1 on the left side and 1 on the right side)
Type of Lubrication: Multi-purpose Grease
Quantity: 4 or more pumps (Until grease emerges)

**Cutting Edge Pivot Pins**
4- Zerks (2 on the left side and 2 on the right side)
Type of Lubrication: Multi-purpose Grease
Quantity: 4 or more pumps (Until grease emerges)

**Angle Pivot Pin**
1- Zerk
Type of Lubrication: Multi-purpose Grease
Quantity: 6 or more pumps (Until grease emerges)
## TE3596 & TE35108 Models

### Specifications & Capacities

<table>
<thead>
<tr>
<th>Model Numbers</th>
<th>TE3596</th>
<th>TE35108</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skid steer horsepower</td>
<td>Minimum 60 hp (45 kW)</td>
<td>Maximum 100 hp (75 kW)</td>
</tr>
<tr>
<td>Hitch type</td>
<td>Skid steer type quick attach, meets ISO 24410</td>
<td></td>
</tr>
<tr>
<td>Hitch mounting steps</td>
<td>Serrated</td>
<td></td>
</tr>
<tr>
<td>Moldboard construction</td>
<td>7 Ga. (4.6 mm) Steel</td>
<td></td>
</tr>
<tr>
<td>Moldboard height</td>
<td>30° (76.2 cm)</td>
<td></td>
</tr>
<tr>
<td>Maximum cutting width</td>
<td>96° (2.44 m)</td>
<td>108° (2.74 m)</td>
</tr>
<tr>
<td>Cutting width @ 30° angle</td>
<td>83° (2.11 m)</td>
<td>93° (2.36 m)</td>
</tr>
<tr>
<td>Maximum pivot angle</td>
<td>30° left &amp; 30° right</td>
<td></td>
</tr>
<tr>
<td>Hydraulic angle cylinders</td>
<td>Two double acting cylinders, 2 1/2&quot; bore x 8&quot; stroke</td>
<td></td>
</tr>
<tr>
<td>Maximum hydraulic pressure rating</td>
<td>3500 psi (24.1 mPa)</td>
<td></td>
</tr>
<tr>
<td>Hydraulic hoses and fittings</td>
<td>4000 psi (27.6 mPa)</td>
<td></td>
</tr>
<tr>
<td>Maximum float angle</td>
<td>Floats on the skid shoes 5° clockwise &amp; 5° counterclockwise</td>
<td></td>
</tr>
<tr>
<td>Trip Edge Blade pivot pin sizes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Angle pivot pin</td>
<td>1.75&quot;</td>
<td></td>
</tr>
<tr>
<td>Float pivot pin</td>
<td>2&quot;</td>
<td></td>
</tr>
<tr>
<td>Cutting edge options</td>
<td>5/8&quot; (16 mm) x 8&quot; (20.3 cm) high carbon steel</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1&quot; (2.5 cm) x 8&quot; (20.3 cm) ultra-high-molecular-weight polyethylene (UHMW)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cutting edges are reversible and replaceable</td>
<td></td>
</tr>
<tr>
<td>Trip Edge Blade protection</td>
<td>Adjustable spring-loaded, trip edge</td>
<td></td>
</tr>
<tr>
<td>Trip release pressure</td>
<td>1800 lbs (816 kg)</td>
<td></td>
</tr>
<tr>
<td>Skid shoes</td>
<td>Adjustable, constructed of 5/8&quot; (16 mm) abrasion resistant steel</td>
<td></td>
</tr>
<tr>
<td>Base equipment weight</td>
<td>1114 lbs (505.3 kg)</td>
<td>1134 lbs (514.4 kg)</td>
</tr>
<tr>
<td>Optional equipment weight</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Steel cutting edge</td>
<td>138 lbs (62.6 kg)</td>
<td>154 lbs (69.9 kg)</td>
</tr>
<tr>
<td>Poly cutting edge</td>
<td>51 lbs (23.1 kg)</td>
<td>57 lbs (25.9 kg)</td>
</tr>
<tr>
<td>Deflector</td>
<td>24 lbs (10.9 kg)</td>
<td>27 lbs (12.2 kg)</td>
</tr>
<tr>
<td>Blade marker</td>
<td>2 lbs (.9 kg)</td>
<td>2 lbs (.9 kg)</td>
</tr>
</tbody>
</table>

---

![Diagram of TE3596 and TE35108 models](image)
<table>
<thead>
<tr>
<th>Features</th>
<th>Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reinforced 7 gauge (4.6 mm) moldboard design</td>
<td>Provides added strength and durability.</td>
</tr>
<tr>
<td>Choice of 96” (2.44m) or 108” (2.74 m) working widths</td>
<td>Allows customers to choose the cutting edge that meets their operational needs.</td>
</tr>
<tr>
<td>Double acting angling cylinders</td>
<td>Easily enables up to 30 degrees of angling to left or right distributing the material where you want it to go.</td>
</tr>
<tr>
<td>Cushion valve</td>
<td>Protects hydraulic cylinders and frame against hydraulic pressure spikes exceeding 1600 psi (11 mPa) caused when striking solid objects at the outer ends of the cutting edge.</td>
</tr>
<tr>
<td>Trip edge design with adjustable springs</td>
<td>Protects the structural integrity of the cutting edge while still maintaining load control no matter what the bottom edge encounters.</td>
</tr>
<tr>
<td>Easy attach mounting system</td>
<td>Designed for skid steer loaders with skid steer type mounting plates.</td>
</tr>
<tr>
<td>Rotational free pivot float action cutting edge design</td>
<td>Allows cutting edge to rotate on its mounted trunnion keeping the cutting edge in uniform contact with the ground.</td>
</tr>
<tr>
<td>Pivot float lock</td>
<td>Keeps cutting edge level when in transport for better operator visibility and safer handling.</td>
</tr>
<tr>
<td>Cast grip steps</td>
<td>Provides for safer and easier mounting and dismounting by the operator with the Trip Edge Blade attached.</td>
</tr>
<tr>
<td>30” (76.2 cm) overall moldboard height</td>
<td>Provides ability to perform in deep snow conditions.</td>
</tr>
<tr>
<td>Replaceable cutting edge</td>
<td>Offered in steel or heavy-duty poly construction to match ground &amp; surface operating conditions.</td>
</tr>
<tr>
<td>Abrasion Resistant Skid shoes</td>
<td>Offered as standard equipment. Abrasion resistant to last longer. Establish lower limits of cutting edge operation to prevent surface gouging or cutting too deep.</td>
</tr>
<tr>
<td>Optional cable filled orange markers</td>
<td>Provides operator with improved awareness and visibility of outermost edges of the moldboard and cutting edge to prevent unwanted contact with ground obstacles. Filled with a steel cable for longer life.</td>
</tr>
<tr>
<td>Optional top-mounted rubber deflector</td>
<td>Helps prevent snow from over-topping the moldboard in deeper snow conditions.</td>
</tr>
</tbody>
</table>
# Troubleshooting Chart

<table>
<thead>
<tr>
<th>Problem</th>
<th>Cause</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quick connect couplings do not fit properly.</td>
<td>Hydraulic lines are charged with high pressure oil.</td>
<td>Relieve hydraulic pressure.</td>
</tr>
<tr>
<td></td>
<td>Quick connect couplers on the hydraulic hoses are the wrong size to fit power equipment couplers.</td>
<td>Replace hydraulic hose quick connect couplers with couplers that match power equipment couplers.</td>
</tr>
<tr>
<td>Hydraulic cylinder leaks oil.</td>
<td>Cylinder fitting is loose.</td>
<td>Tighten fitting or fittings.</td>
</tr>
<tr>
<td></td>
<td>Cylinder housing is damaged or seals are damaged.</td>
<td>Repair or replace hydraulic cylinder.</td>
</tr>
<tr>
<td></td>
<td>Cylinder seals are damaged.</td>
<td>Repair or replace hydraulic cylinder.</td>
</tr>
<tr>
<td>Hydraulic cylinder is sluggish, or does not work.</td>
<td>Skid steer is not yet warmed up.</td>
<td>Allow time for the skid steer to warm up.</td>
</tr>
<tr>
<td></td>
<td>Power equipment oil level is too low.</td>
<td>Add hydraulic oil to power equipment reservoir (Do Not Overfill).</td>
</tr>
<tr>
<td></td>
<td>Hydraulic connection(s) leak.</td>
<td>Tighten or redo hydraulic connections.</td>
</tr>
<tr>
<td>Hydraulic cylinders don’t operate smoothly.</td>
<td>Air in hydraulic system</td>
<td>Purge hydraulic system</td>
</tr>
<tr>
<td>Hydraulic cylinder does not hold the cutting angle.</td>
<td>Release pressure is set too low.</td>
<td>Have the release pressure valve adjusted by a qualified mechanic.</td>
</tr>
<tr>
<td>Hydraulic cylinder holds the cutting angle too rigid.</td>
<td>Release pressure is set too high.</td>
<td>Have the release pressure valve adjusted by a qualified mechanic.</td>
</tr>
<tr>
<td>Moldboard angles the opposite direction expected.</td>
<td>Hydraulic hoses are hooked-up wrong.</td>
<td>Switch quick connect couplers on the hoses and reconnect to the power equipment.</td>
</tr>
<tr>
<td>Low areas do not clean-up well.</td>
<td>Loader arms are not set in float mode.</td>
<td>Set loader arms in float mode.</td>
</tr>
<tr>
<td>Trip Edge is jammed back.</td>
<td>Hinge pins are seizing from rust.</td>
<td>Lubricate pins at proper intervals and when unhooking from the unit.</td>
</tr>
<tr>
<td></td>
<td>Trash is caught in the hinge area.</td>
<td>See “Jammed Tripped Cutting Edge” on page 29.</td>
</tr>
<tr>
<td></td>
<td>Hinge is bent or twisted causing the hinge pins to bind.</td>
<td>Have an authorized Kubota Dealer unjam the trip mechanism and repair the unit before putting the unit back into service.</td>
</tr>
</tbody>
</table>
# Torque Values Chart

## Section 9: Torque Values Chart

### 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>
</tr>
</thead>
<tbody>
<tr>
<td>in-tpi 1</td>
<td>N · m 2</td>
<td>ft-lb 3</td>
<td>N · m</td>
</tr>
<tr>
<td>1/4&quot; - 20</td>
<td>7.4</td>
<td>5.6</td>
<td>11</td>
</tr>
<tr>
<td>1/4&quot; - 28</td>
<td>8.5</td>
<td>6</td>
<td>13</td>
</tr>
<tr>
<td>5/16&quot; - 18</td>
<td>15</td>
<td>11</td>
<td>24</td>
</tr>
<tr>
<td>5/16&quot; - 24</td>
<td>17</td>
<td>13</td>
<td>26</td>
</tr>
<tr>
<td>3/8&quot; - 16</td>
<td>27</td>
<td>20</td>
<td>42</td>
</tr>
<tr>
<td>3/8&quot; - 24</td>
<td>31</td>
<td>22</td>
<td>47</td>
</tr>
<tr>
<td>7/16&quot; - 14</td>
<td>43</td>
<td>32</td>
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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:** One year Parts and Labor

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

**Hoses, Seals & Trip Edge Blade:** 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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