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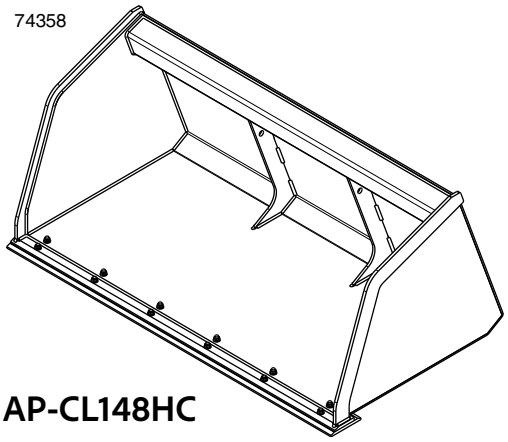
Compact High Capacity Buckets

AP-CL148H, AP-CL148HC, & AP-CL148HT

74358



AP-CL148HC

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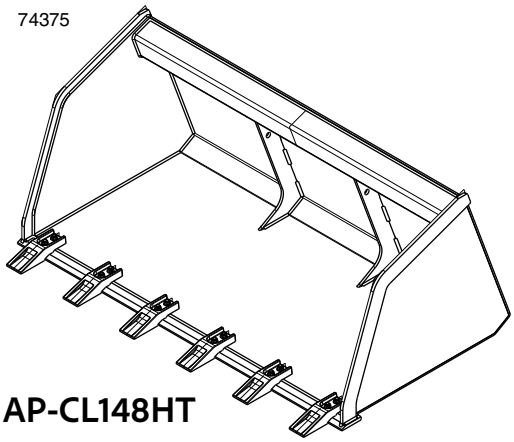

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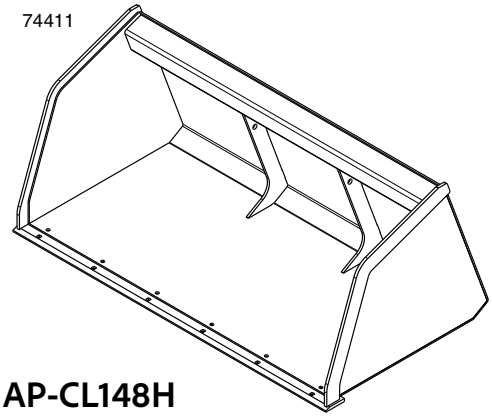

AP-CL148H

381-295MK
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 6/7/22

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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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.

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 stand-on compact utility loader and attachments.

- ▲ Thoroughly read and understand the “Safety Label” section. Read all instructions noted on them.
- ▲ Do not operate the stand-on compact loader while under the influence of drugs or alcohol as they impair the ability to safely and properly operate the machine.
- ▲ Operator should be familiar with all functions of the stand-on compact loader and attachments 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 stand-on compact loader and attachments.
- ▲ Keep all bystanders away from stand-on compact loader and work area.
- ▲ Start the stand-on compact loader from the operator platform with steering levers and hydraulic controls in neutral.
- ▲ Never dismount from a moving stand-on compact loader or leave it unattended with engine running.
- ▲ Do not allow anyone to stand between an attachment and the stand-on compact loader 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 the stand-on compact loader in a safe and secure area where children normally do not play. When needed, secure attachment from falling with solid, non concrete 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 stand-on compact loaders 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 machine down if children enter the work area.
- ▲ Never carry children on the 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 machine.
- ▲ Never allow children to operate the power machine, even under adult supervision.
- ▲ Never allow children to play on the machine or attachment.
- ▲ Use extra caution when backing up. Before the machine starts to move, look down and behind to make sure the area is clear.

Stand-on Compact Loader Shutdown And Storage

- ▲ Reduce engine speed, park on solid, level ground, disengage auxiliary hydraulics and lower attachment until it is flat on the ground or sold non concrete support blocks.
- ▲ Turn off engine and turn off the power switch to prevent unauthorized starting.
- ▲ Relieve all hydraulic pressures.
- ▲ Wait for all components to stop before leaving operator platform.
- ▲ Carefully step down from the operator platform.

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

Dig Safe - Avoid Underground Utilities

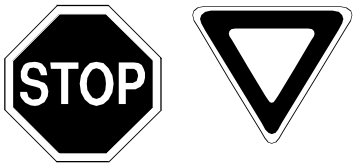
- **USA: Call 811**
  CAN: digsafecanada.ca
  Always contact your local utility companies (electrical, telephone, gas, water, sewer, and others) before digging so that they may mark the location of any underground services in the area.
- Be sure to ask how close you can work to the marks they positioned.

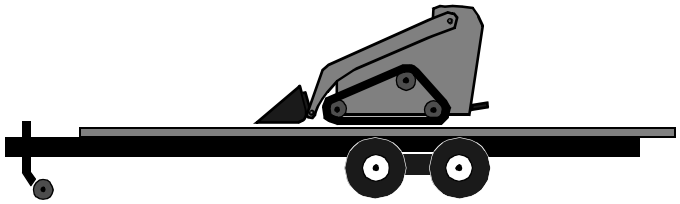
Transport Safely

- Comply with federal, state, and local laws.
- Use towing vehicle and trailer of adequate size and capacity. Secure the stand-on compact loader to the 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.
- **IMPORTANT:** Do not tow a load that is more than double the weight of the vehicle towing the load.

Operate Safely

- Always drive with load on end of loader arms low to the ground.
- Always drive straight up and down slopes with heavy end of the stand-on compact loader on the “uphill” side.
- Engage park brake when stopped on an incline.



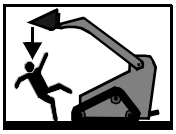


Keep Riders Off Machinery

- Never carry riders on the stand-on compact loader or attachment.
- Riders obstruct operator’s view and interfere with the control of the machine.
- Riders can be struck by objects or thrown from the machine.
- Never use stand-on compact loader or attachment to lift or transport riders.

Practice Safe Maintenance

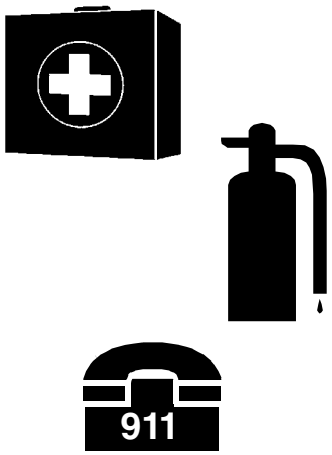
- Understand procedure before doing work. Refer to the Operator’s Manual for additional information.
- Work on a level surface in a clean dry area that is well-lit.
- Lower attachment to the ground and follow all shutdown procedures before leaving the operator platform to perform maintenance.
- Do not 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 the machine to cool before working on it.
- Disconnect battery ground cable (-) before servicing or adjusting electrical systems or before welding on the machine.
- Inspect all parts. Make certain that parts are in good condition & installed properly.
- Replace parts on the stand-on compact loader with genuine Kubota parts only. Do not alter this machine in a way which will adversely affect its performance.
- Do not grease or oil while the machine 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 machine are properly collected and disposed.
- Remove all tools and unused parts from the machine before operation.



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

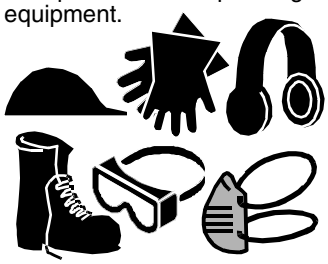
Prepare for Emergencies

- ▲ 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

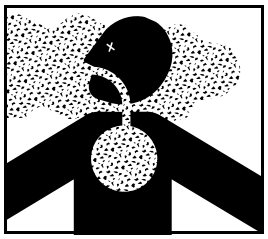
- ▲ Escaping fluid under pressure will penetrate the skin or eyes causing serious injury.
- ▲ Relieve all residual pressure before disconnecting hydraulic lines or performing work on the hydraulic system.
- ▲ Make sure all hydraulic fluid connections are properly tightened/torqued and all hydraulic hoses and lines are in good condition before applying pressure to the system.
- ▲ Use a piece of cardboard or wood, 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.

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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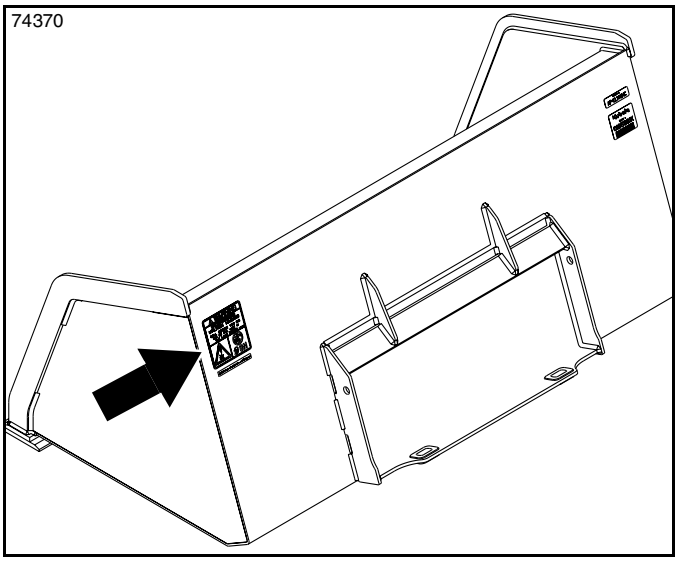
Safety Labels

Your High Capacity Bucket 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.*



70743

858-237C
Warning: Underground Utilities Hazard
1 Place

Kubota welcomes you to the growing family of new product owners. This High Capacity (HI-CAP) 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 Compact Utility Loader High Capacity Buckets are designed to move large quantities of snow, wood chips, silage, or other materials quickly and efficiently. The high capacity buckets are 48" (121 cm) wide and constructed of 3/16" (5 mm) plate steel. All bucket models have a 3" (8 cm) wide welded base edge. The CL148HC include a bolt on cutting edge. The CL148HT models feature bolt-on teeth.

All CL148 bucket models are designed to fit the Common Industry Interface (CII) hitch.

No matter the model you select, you'll find that the Kubota HI-CAP bucket will save you time and money by quickly and efficiently handling the task at hand.

For additional information and performance, see "**Specifications & Capacities**" on page 20 and "**Features & Benefits**" on page 21.

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 purchase 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.

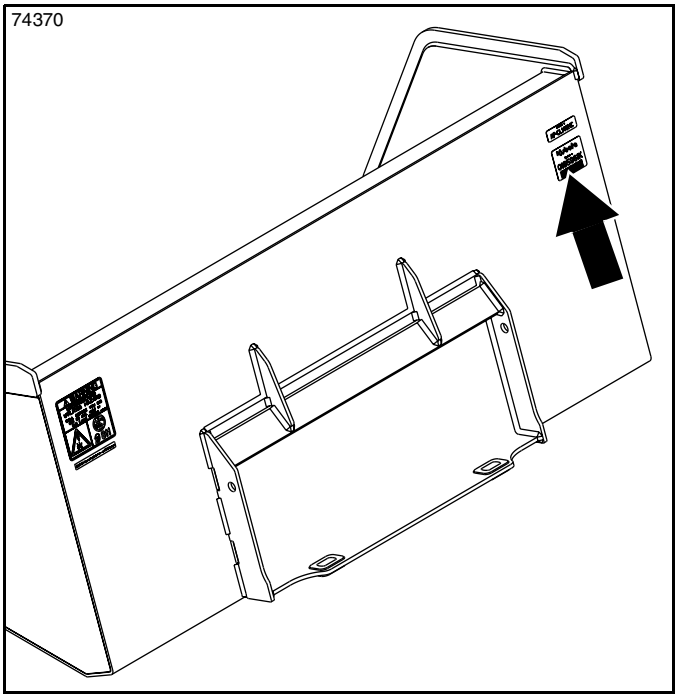
Owner Assistance

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 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 (CL148H shown)
Figure 1

Further Assistance

Your dealer wants you to be satisfied with your new bucket. 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 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

Compact Utility Loader Requirements

The CL148 HI-CAP CII buckets are designed to fit the Common Industry Interface (CII) hitch. Consult the power machine Operator's Manual for operating capacity, lifting capacity, and operating specifications. They will vary from unit to unit. Do not exceed rated capacities and specifications of the power machine.

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.*
- *Use a power machine of adequate size for the load being carried. An undersized machine can roll over when raising the loader arms due to high center of gravity.*
- *Lightweight power machines may need weight added to the rear to maintain steering control and prevent forward and/or side tipping. Consult your power machine Operator's Manual to determine proper weight requirements and maximum limitations.*

Torque Requirements

Refer to **"Torque Values Chart"** on page 23 to determine correct torque values when tightening hardware.

Before You Start

WARNING

To avoid 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.

Make sure that the compact loader conforms to the requirements provided on this page. Also, read and understand this Operator's Manual for your 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 HI-CAP 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 forklift 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 381-295PK
	Make sure all safety labels are correctly located and legible. Replace if damaged.	Page 6
	Make sure the bolt-on cutting edge bolts are tight.	Page 18
	Make sure the bolt-on teeth bolts are tight.	Page 18

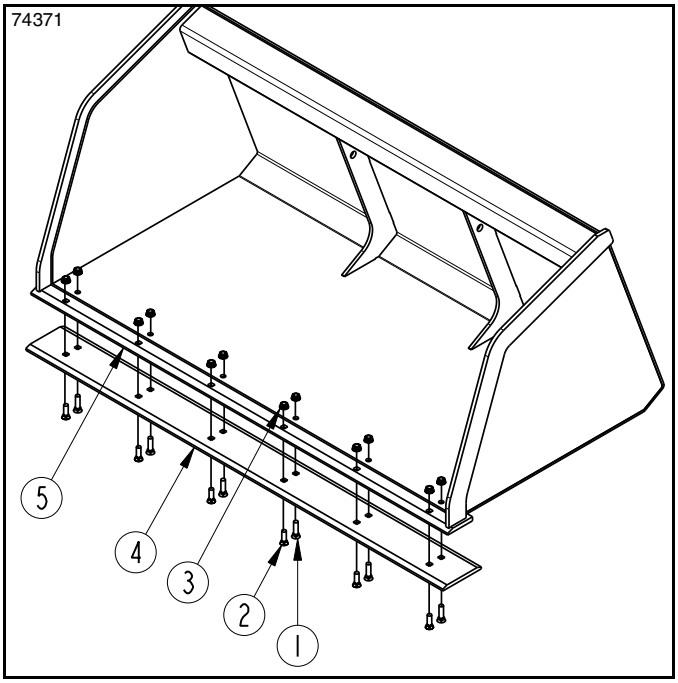
Reversible Cutting Edge

(AP-CL148HC

Refer to Figure 1-1:

The bucket has a welded-on cutting edge (#5). A reversible cutting edge (#4) is bolted to the weld-on cutting edge to extend the life of the bucket's welded-on cutting edge. Reverse the bolt-on cutting edge to extend its life.

1. Securely support underside of bucket with non-concrete support blocks. Do not place the support blocks under the welded-on cutting edge (#5), and make sure that the HI-CAP Bucket will not rock or tip while supported.
2. Attach optional cutting edge (#4) to the bucket with 3/8"-16 x 1 1/4" GR5 plow bolts (#2),3/8"-16 x 1 1/2" GR5 plow bolts (#1) and hex whiz nuts (#3). Tighten whiz nuts to the correct torque. See Figure 3-1 on page 18 for detailed hardware and cutting edge descriptions.



Installation of Reversible Cutting Edge
Figure 1-1

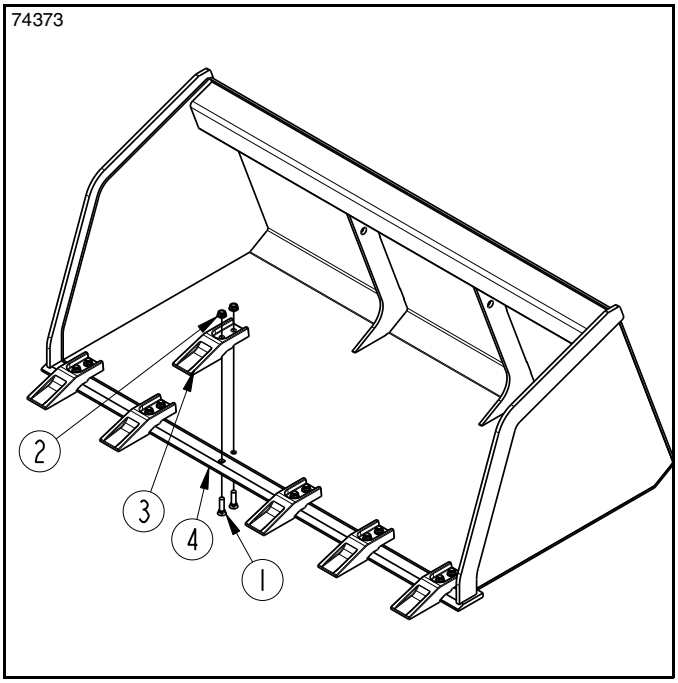
Bolt-on Teeth

(AP-CL148HT

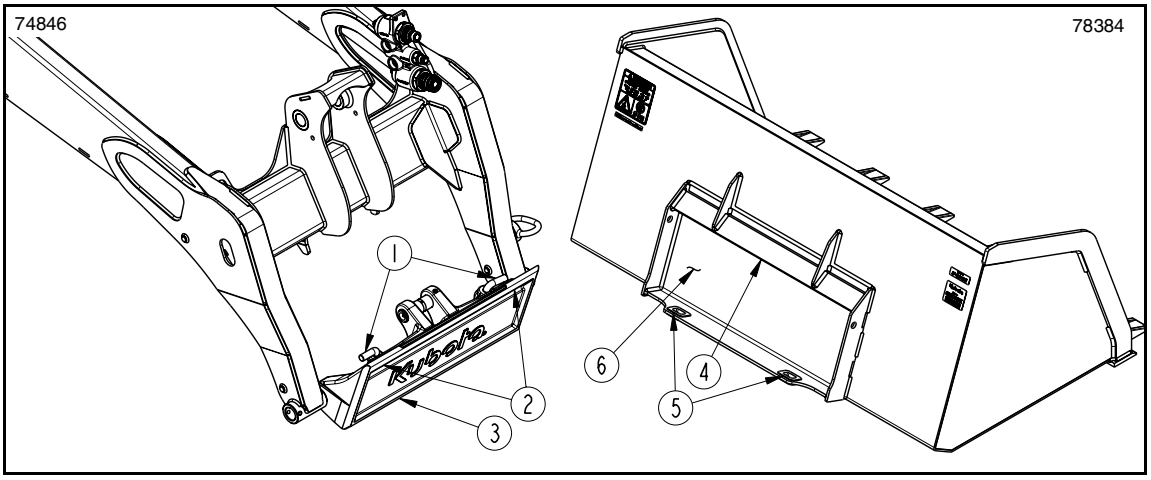
Refer to Figure 1-2:

The bucket has a welded-on cutting edge (#4). The bolt-on teeth (#3) are bolted to the weld-on cutting edge.

1. Securely support underside of bucket with non-concrete support blocks. Do not place the support blocks under the welded-on cutting edge (#4), and make sure that the HI-CAP Bucket will not rock or tip while supported.
2. Attach bolt-on teeth(#3) to the bucket with 3/8"-16 x 1 1/2" GR5 plow bolts (#1) and hex whiz nuts (#2). Tighten whiz nuts to the correct torque. See Figure 3-2 on page 19 for detailed hardware and cutting edge descriptions.



Installation of Bolt-on Teeth
Figure 1-2



CII Hitch Hook-up Bucket
Figure 1-3

Hook-up Bucket

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:

- *Use steps, grab-handles, and anti-slip surfaces on the compact loader to get on and off the loader. 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.*
- *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.*

Hook-up CII Hitch

***Refer to* Figure 1-3:**

The CL148 bucket utilizes a CII receiver plate for easy connection and disconnection.

1. Check loader and bucket hitch plates before hooking-up the bucket. Make sure all components are in good working condition before putting them into service:
   a. Check for and remove any debris in the loader and bucket hitch plates.
   b. Check for structural cracks in the hitch plates. Repair or replace hitch plates as needed.
   c. Check hitch components frequently. Repair or replace any part that is excessively worn, bent, broken, or missing.
   d. Lubricate lock pins (#1) at the prescribed interval in your compact loader manual.
   e. Check operation of lock pins (#1). Lock pins must move freely and extend fully into the hitch plate bottom slots (#5).
2. Raise lock pins (#1) by rotating the handles 180° until they point out as shown.
3. Use anti-slip steps/surfaces and grab handles on the compact loader when stepping on and off the unit.
4. Start compact loader.
5. Drive slowly to the bucket while making sure the loader's hitch plate top (#2) is parallel with the bucket's top angle bar (#4).
6. Tilt top of loader hitch plate (#2) slightly forward.
7. Place top of loader's hitch plate (#2) under the bucket's top angled bar (#4) and slowly raise loader hitch plate (#3) up until the loader hitch plate is seated under the top angle bar.
8. Tilt top of loader hitch plate (#2) back until the bucket hitch plate (#6) makes full contact with the face of loader hitch plate (#3) and the bucket's hitch plate (#6) is slightly off the ground.

9. Shut compact loader down before dismounting. Follow **"Compact Utility Loader Shutdown Procedure"** on page 14.
10. Lower lock pins (#1) by rotating the handles 180° until they point in. If needed tap on lock pins to drive them down and through bottom slots (#5).
11. Check hitch hook-up to verify it is locked properly.
    a. Make sure top of loader hitch plate (#2) is fully seated under the bucket's top angle bar (#4).
    b. Make sure bottom of loader hitch plate (#3) is seated against bucket's hitch plate (#6)
    c. Make sure lock pins (#1) are fully inserted through bottom slots (#5) and are fully down.

Unhook CII Hitch

Refer to Figure 1-3 on page 10:

1. Park on a flat, level, solid surface.
2. Lower bucket until it is slightly above the surface and angled so that the front of the bucket is slightly higher than the back.
3. Without changing the height of the loader arms and attachment, shut compact loader down following the **"Compact Utility Loader Shutdown Procedure"** on page 14. Unhook bucket as follows:
4. Rotate the hitch latch pins (#1) to the unlocked position by turning them so that the handles are pointing outward. Make sure the hitch latch pins are pulled up all the way to ensure a proper disconnect.
5. Return to compact loader and tilt top of hitch plate (#3) slightly forward toward the bucket.
6. Slowly lower bucket until its top angle bar (#4) and loader hitch (#3) have separated.
7. Back compact loader slowly away from the bucket while making sure the CII hitch does not interfere with the bucket.

Check Equipment Clearances

It is important to check clearance before putting the bucket into operation. Make sure the bucket does not make contact with the power machine frame and tires by carefully going through the bucket's full range of motions.

⚠ 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.*

1. Before starting the compact loader, check hitch hook-up. The attachment can fall from the loader hitch plate if not properly connected.
    a. Make sure loader hitch is fully seated under the trencher's top angle bar.
    b. Make sure loader hitch plate is against the bucket plate.Make sure lock handles or hydraulic locks are locked with lock pins fully seated in the bottom slots.
    c. Make sure there are no structural cracks in the hitch plates. Structural cracks weaken the hitch plate and can result in dropping the attachment.
    d. Make sure there are no bent plates preventing full and complete hook-up to the loader hitch plate.
2. If necessary, utilize a "spotter" who can motion for the operator to stop if a problem develops while completing steps 4-5 below.
3. Start power machine and raise bucket approximately 36" off the ground.
4. Fully retract tilt cylinder to pivot front of bucket fully up. Fully extend loader arm lift cylinders raising loader arms up. Watch for interferences between power machine and bucket.
5. With loader arms fully up, extend tilt cylinder to pivot bucket to the dump position. Lower loader lift arms down. Watch for interferences between power machine and bucket.
6. Shut compact loader down before dismounting. Refer to **"Compact Utility Loader Shutdown Procedure"** on page 14.

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 High Capacity 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. Make sure the operator has paid particular attention to:

Perform the following inspections before using your HI-CAP 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
	Read and follow all set-up instructions. Refer to "Section 1: Assembly & Set-up".	8
	Read and follow all operating procedures. Refer to "Section 2: Operating Procedures".	12
	Read and follow all maintenance instructions. Refer to "Section 3: Maintenance & Lubrication".	18
	Check bolt-on blade or teeth initially and periodically for loose hardware. Refer to "Torque Values Chart for Bolt Sizes".	23

General Inspection

Make the following inspections with the bucket attached to a power machine parked on a level, solid surface.

1. Complete Operating Checklist table provided above.
2. Inspect power machine and bucket safety equipment to make sure they are in good working condition and that all safety alert decals are visible and readable. Replace all missing and/or unreadable safety alert decals.
3. Inspect hitch connection between the attachment and loader. Make sure the loader hitch is secured under the bucket's top angle bar, lock pins extend fully through the bottom slots in the bucket hitch, and handles are locked down.
4. Consult your power machine Operator's Manual to determine if rear ballast is required. Add ballast if needed.
5. Operate the bucket through its full range of movements to check for clearances. refer to **"Check Equipment Clearances"** on page 11.

Safety Information

⚠ DANGER

To avoid serious injury or death:

- *The operator of this attachment must know how to control the power machine with attachment and how to stop them quickly in an emergency.*
- *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 drive close to ditches, retaining walls, drop-offs, water, etc. Rollover due to a cave-in or mishap could result.*
- *Keep attachment, loader arms, and/or load away from overhead electrical power lines. Place an orange warning sign under overhead lines indicating type of danger above.*
- *Keep bystanders away while operating the attachment. A person can become pinched or crushed as the attachment is rotated, raised, and/or lowered.*
- *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.*
- *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.*
- *Keep load positioned forward enough to prevent accidental spillage onto the operator and power machine.*
- *Keep load slightly tilted back to secure its weight against the vertical face of the attachment. Rotating front of attachment too high can cause the load to shift and fall onto the operator or others. Rotating front of attachment level or lower can cause the load to fall forward.*
- *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.*
- *Be safe, lift only loads with the loader arms that can be kept under control and contained. An uncontrolled load can result in a serious injury or death.*
- *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.*
- *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.*
- *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 following the "Shutdown Procedure" provided in this manual before leaving the operator's seat or platform.*
- *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.*
- *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.*
- *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.*
- *Keep all steps, grab bars, pedals, and controls free of dirt, grease, debris, and oil.*
- *Make sure safety labels are in their proper location and are in good condition before operating the attached implement. Read and obey all instructions on the labels.*
- *Use a power machine of adequate size for the load being carried. An undersized machine can roll over when raising the loader arms due to high center of gravity.*
- *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 and/or side tipping. Consult your power machine Operator's Manual to determine proper weight requirements and maximum limitations.*
- *Keep load centered, even when stopped. This will optimize load stability and protect against load shifting.*
- *Check hitch fit-up frequently. An improper fit-up can cause the attachment to come loose from the loader hitch plate and fall.*
- *Do not chain or strap loads to the loader arms, hitch, or attachment. Hitting solid objects with a load fastened to the attachment or machine can cause frame damage and/or tipping resulting in the loss of operator control.*
- *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 (Original Equipment Manufacturer) specifications. They can weaken the integrity and impair the safety, function, performance, and life of the attachment. Replace parts only with genuine OEM parts.*
- *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.*
- *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

Precaution When Traveling on Inclines

Multiple factors should be considered for safely traveling on inclines. As a rule of thumb, travel with the heavy end up hill. Also consider ground conditions, speed, brake performance, turning, height of load and Operator skill.

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.*
- *Use good judgment when operating on inclines. various factors and conditions should be considered when determining safe operation on inclines. In general, do not travel on excessively steep slopes under any circumstances.*
- *Lower the bucket/attachment as low to the ground as possible when traveling on an incline. Lower completely to the ground and stop the machine in case of emergency.*
- *Always travel at low speed when moving on an incline and avoid turning. Reduce the engine speed (rpm) when moving down an incline. Traveling too fast down an incline can lead to loss of control. Avoid stopping and starting on inclines as it may create a dangerous jerking motion.*
- *Do not operate near embankments, ditches or drop-offs.*
- *If the machine begins to tip or lose control, do not try to stabilize the machine by putting your foot on the ground.*

WARNING

To avoid serious injury or death:

- *Know and understand the machine capabilities and operating conditions, and never exceed any of these conditions. Keep in mind that poor or difficult working conditions may reduce the capability of the machine, requiring a reduction in speed to maintain stability.*
- *Operate with the heavy end of the machine facing uphill when traveling either direction on a hill. An empty bucket makes the back end of the machine the heavy end, and a full bucket makes the front end the heavy end.*
- *Whenever traveling on an incline, be careful of the possibility of sliding sideways or rolling over.*
- *Never approach an incline horizontally or diagonally. Always return to a flat surface and redirect the machine.*
- *Beware of unstable and slippery surfaces such as wet grass, leaves, wet metal or ice. The machine can slide very easily even on low grade inclines.*
- *Do not hook-up or unhook an attachment on an incline.*
- *Avoid obstacles such as rocks, tree limbs or ruts when traveling on inclines. Remove obstructions when possible.*
- *Follow all safety precautions when transporting a load. Not using safe transporting methods can damage the equipment and cause serious injury or death.*
- *Select a safe ground speed that will allow adequate control of steering and stopping. Never exceed 20 mph (32 km/h) with attached equipment. Rough terrain requires a slower speed.*
- *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 public roadways, travel in such a way that faster moving vehicles may pass safely. Use accessory lights, clean reflectors, and a slow moving vehicle sign that is visible from the back to warn operators in other vehicles of your presence. Always comply with all federal, state, and local laws.*

Compact Utility Loader Shutdown Procedure

The following are basic compact loader shutdown procedures. Follow these procedures before leaving the operator's platform.

1. Park on solid, level ground.
2. Reduce engine speed.
3. Shut-off auxiliary power to the attachment.
4. Lower the loader arms until they are fully down or until the attachment is flat on the ground or on non-concrete support blocks.
5. Turn off the compact loader engine. Refer to the compact loader Operator's Manual for engine shut down procedures.
6. If the compact loader is equipped with a hydraulic pressure relief lever, move lever back and forth to relieve all hydraulic pressure to the attachment.
7. Wait for all components to come to a complete stop before leaving the operator's seat or platform.
8. Use grab-handle and anti-slip surfaces when getting on and off the power machine.

IMPORTANT: Let the engine idle at low throttle for 1-2 minutes before shutting engine off. This helps cool the engine before shutting off. In the case of an emergency you can shut the engine off immediately by turning the power switch to the off position.

Bucket Operation

WARNING

To avoid 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.*
- *Read and understand all safety alerts under* **"Safety Information"** *on page 12.*

IMPORTANT: Do not ram attachment into a pile. Doing so can damage the attachment.

Operating Tips

1. Go slowly when first learning how to operate the bucket and loader.
2. Keep work area small and travel distance short to make the job more efficient.
3. Choose a work site that is level, clear of low hanging electrical lines, and free of obstructions such as trees, fences, and buildings.
4. Reduce number of cycles by filling the bucket to rated capacity.
5. Keep loaded bucket low to the ground when transporting. Always drive up and down slopes with load on the uphill side. This will require backing down a slope to keep load on the uphill side.
6. If attachment is to be operated in reverse, make sure visibility to the rear of the power machine is appropriate for the attachment. Backup camera or mirror is recommended. Maintain cleanliness of lens or mirror.
7. To keep material from spilling over the back, tilt top of bucket forward to maintain bucket profile while raising loader arms or traveling up a slope.
8. To keep material from spilling over the front, tilt top of bucket back to maintain bucket profile while lowering loader arms or traveling down a slope.

Collecting a Load

1. Be sure to read and understand all safety alerts under **"Safety Information"** on page 12.
2. Make sure load does not exceed rated lift capacity of the compact loader lifting the load.
3. Check for overhead obstructions.
4. Approach the load with the weight 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 the material to position the bucket at the proper height and angle to enter the pile.
   a. Lower loader arms until the bucket is on the ground.
   b. Tilt front of bucket down until cutting edge is on the ground.
6. Start driving slowly into the pile. Do not ram bucket into the pile or lift a load that is taller than the height of the bucket. As the bucket begins to fill, slowly raise loader arms until bucket is filled to rated capacity.
7. With bucket filled, stop and raise bucket. At the same time, tilt top of bucket back to keep material from spilling out of the bucket.
8. Make sure bucket and load clears all obstacles when making a turn or backing away.
9. 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 14.
2. Pedestrians always have the right-of-way.
3. Always keep load level or slightly tilted back.
4. When possible, travel with 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 to keep the bucket and/or load from contacting other obstacles such as vehicles, buildings, trees, or fences.
9. Consult your power machine 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 Operator'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 in the bucket 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 **"Safety Information"** on page 12.
2. Stop in front of desired location and slowly raise load to required height.
3. Move slowly forward checking to make sure the bucket and load clear all obstacles.
4. Stop forward movement when the load is positioned over its release location.
5. Releasing load requires a combination of tilting front of bucket down 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 the load has settled onto the pile, tilt bucket level and slowly back up making sure the 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 the bucket to avoid contact with obstacles such as vehicles, buildings, trees, or fences.
8. Lower bucket to transporting height (low to the ground) before moving again.

Scraping and Leveling an Area

1. Be sure to read and understand all safety alerts under **"Safety Information"** on page 12.
2. Make a complete stop in the area to work.
3. Rotate top of hitch plate forward and lower loader arms down until cutting edge of the jaw is on the ground.
4. Begin backing up to dig, scrape, level, or fill an area.
5. Lower loader arms to make a deeper cut and raise loader arms to make a shallower cut.
6. Tilt top of hitch plate as needed to angle blade for your operation.

General Operating Instructions

By now, you should have familiarized yourself with the Operator's Manual for your HI-CAP Bucket. If you have not, please do so now. We cannot stress the importance of following the safety information and operating procedures that are spelled out in this manual.

We recommend that you take time to practice securely attaching and detaching your bucket to and from your hitch. It is also important to practice lifting, lowering, tilting, maneuvering, and releasing a load until you gain the confidence and skill needed to have a good feel for what you are doing.

The primary purposes of the bucket are collecting, dumping, scraping, and leveling materials such as snow, wood chips, silage, peat moss, etc. The following are some basic general operating instructions.

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

Start collecting material by lowering the bucket down to the ground and tilting the front cutting edge down until the leading edge is on the ground. Start traveling forward, making adjustments to the bucket tilt angle and loader arm height to achieve the desired results.

Once the bucket is full of loose material, stop and raise the bucket up while adjusting the tilt cylinder to keep the bucket profile level or slightly tilted back. Begin transporting to your unloading site while carrying the load low. Carefully place the load over the dumpsite and dump the load by tilting the front of the bucket down to release the load. It may be necessary to raise the loader arms up while releasing the load to keep the bucket slightly above the collection pile.

To scrape and/or level a surface, tilt the top of the hitch plate forward, and lower the loader arms until the cutting edge is on the ground. Begin backing up and adjusting the tilt cylinder to achieve desired scraping action. Lower or raise loader arms to achieve desired scraping depth and/or leveling profile.

With a little practice you should become very good at consistently achieving the desired results you expect with your Kubota HI-CAP Bucket.

See "Specifications & Capacities" on page 20 and "Features & Benefits" on page 21 of your Operator's Manual for additional information.

Maintenance

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 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 bucket operates correctly. If it does not, tag "DO NOT OPERATE" until all problems have been corrected.

DANGER

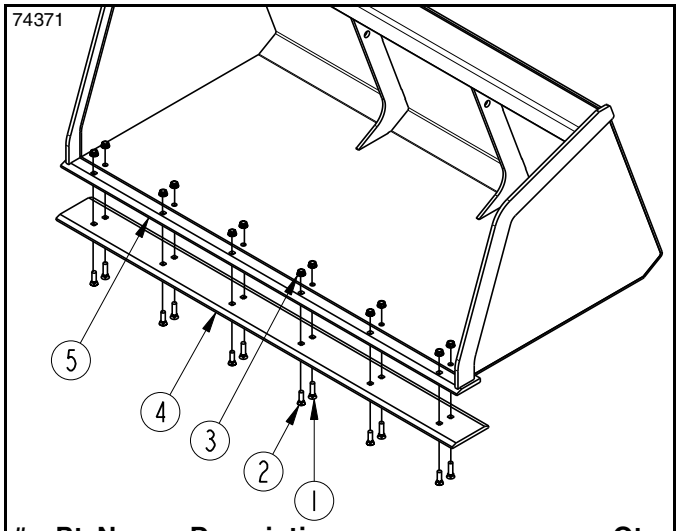
To avoid serious injury or death: Always secure equipment with solid, non-concrete supports before working under it. Never go under equipment supported by concrete blocks or hydraulics. Concrete can break, hydraulic lines can burst, and/or hydraulic controls can be actuated even when power to hydraulics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

WARNING

To avoid serious injury or death:

- *Always shut power machine down using the "Shutdown Procedure" provided in this manual before servicing, adjusting, cleaning, or maintaining the attachment.*
- *Check hitch fit-up frequently. An improper fit-up can cause the attachment to come loose from the loader hitch plate and fall.*
- *Make sure controls are all in neutral position or park before starting the power machine.*
- *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 (Original Equipment Manufacturer) specifications. They can weaken the integrity and impair the safety, function, performance, and life of the attachment. Replace parts only with genuine OEM parts.*
- *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.*

1. Shut power machine down according to **"Compact Utility Loader Shutdown Procedure"** on page 14.
2. Keep all steps, grab handles, foot pedals, and control levers/switches free of snow pack, ice, dirt, grease, debris, oil, etc.
3. Check all hardware after using the bucket for several hours and on a regular basis thereafter to ensure they are tight and secured.
4. Check hitch fit-up on a regular basis to ensure trash and debris have not loosened the hitch connection.
5. Replace illegible, damaged, and/or missing safety labels and parts with genuine Kubota parts only.



#	Pt. No.	Description	Qty
1	802-020C	Plow 3/8-16 x 1 1/2 GR5	6
2	802-466C	Plow 3/8-16 x 1 1/4 GR5	6
3	803-198C	Nut Hex Whiz 3/8-16 PLT	12
4	820-789C	Cutting edge, 48" bucket bolt-on	1

Reversible Cutting Edge (Standard/Accessory)
Figure 3-1

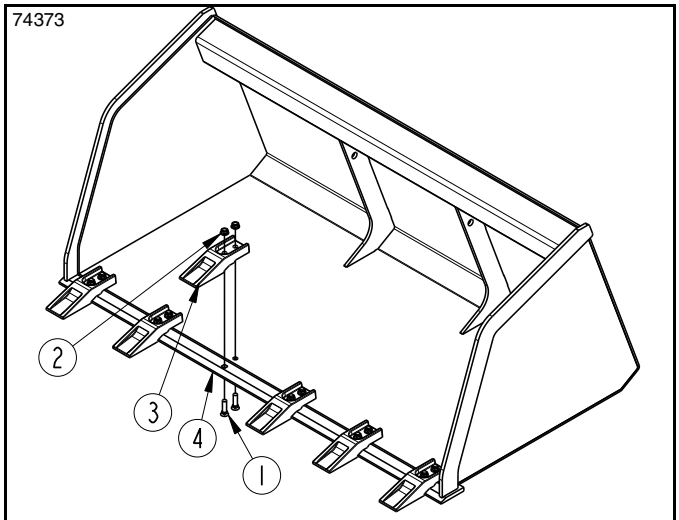
Reversible Bolt-on Cutting Edge

Refer to Figure 3-1:

The reversible cutting edge (#4) can be purchased and bolted to the weld-on cutting edge (#5) on the H, HC and HT Series buckets for high use applications, to extend the life of the weld-on cutting edge, or to replace the bolt-on teeth (not shown) with the reversible bolt-on cutting edge.

The cutting edge can be rotated 180° and reused to double its life. Replace the cutting edge when both of its edges are worn out.

1. Shut compact loader down properly. Refer to **"Compact Utility Loader Shutdown Procedure"** on page 14.
2. If installed, remove bolt-on teeth or the worn bolt-on cutting edge (#4) and associated hardware.
3. If included, check existing bolt-on cutting edge and mounting hardware for wear. Replace existing plow bolts (#1), hex whiz nuts (#3), 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 whiz nuts (#3). Tighten whiz nuts to the correct torque.
   - If both cutting edges (#4) are worn out, discard cutting edge and attach new cutting edge to the bucket with existing/new plow bolts (#1) and existing/new hex whiz nuts (#3). Tighten whiz nuts to the correct torque.



#	Pt. No.	Description	Qty
1	802-020C	Plow 3/8-16 x 1 1/2 GR5	12
2	803-198C	Nut Hex Whiz 3/8-16 PLT	12
3	891-923C	Tooth, CUL Bolt-on	6

Bolt-on Teeth (Standard/Accessory)
Figure 3-2

Bolt-on Teeth

Refer to Figure 3-2:

The bolt-on teeth (#3) can be purchased and bolted to the weld-on cutting edge (#4) on the H, HC, and HT Series buckets for improved digging.

1. Shut compact loader down properly. Refer to **"Compact Utility Loader Shutdown Procedure"** on page 14.
2. If installed, remove the bolt-on cutting edge (not shown) or the worn/damaged bolt-on teeth (#3) and associated hardware.
3. If included, check cutting edge of teeth for wear and mounting hardware for wear. Replace existing plow bolts (#1), hex whiz nuts (#2), and teeth as needed.
4. Attach bolt-on teeth (#3) to the weld-on cutting edge and bucket bottom with plow bolts (#1) and hex whiz nuts (#2). Tighten nuts 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 ensure the unit is ready for field use the next time you hook-up to it.

WARNING

To prevent 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.

1. Remove any dirt and grease that may have accumulated on the attachment. Scrape off compacted dirt and then wash its surface thoroughly with water.
2. Inspect bucket for loose, damaged, cracked, 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 decals.
5. Store bucket on a level surface in a clean, dry place. Inside storage will reduce maintenance and make for longer bucket life.
6. Follow all unhooking instructions. See **"Unhook CII Hitch"** on page 11.
7. Do not allow children to play on or around the stored bucket.

CL148 Series

Specifications & Capacities				
		CL148H	**CL148HC**	**CL148HT**
Weights	lbs (kg)	248 (112.5)	271 (122.9)	265 (120.2)
Struck capacity	ft^3 (m^3)	6.94 (.196)		
Overall width	in (m)	48.8 (1.23)		
Overall height	in (cm)	21.2 (53.85)	21.6 (54.86)	21.2 (53.85)
Hitch type		CII		
Bucket floor thickness	in (mm)	3/16 (5)		
Bucket side wall thickness	in (mm)	3/16 (5)		
Bolt-on cutting edge (reversible)		Accessory	Standard	Accessory
Bolt-on teeth		Accessory	Accessory	Standard

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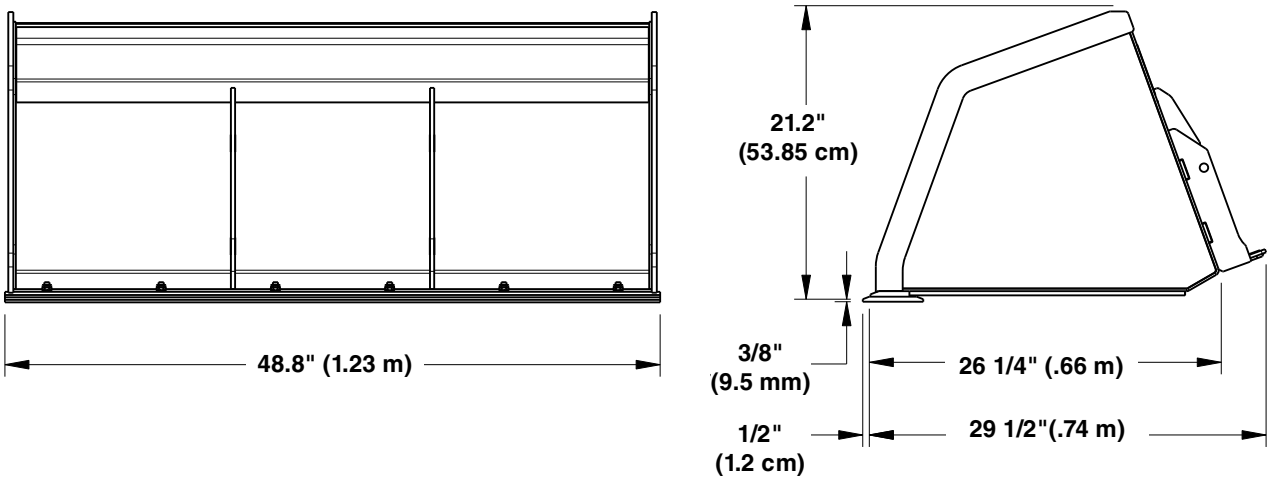

CL148 Series

Features	Benefits
CII hitch CL148 Series	The bucket can be easily attached.
Reinforced bucket back and sides	Adds strength and extends bucket life.
Torque tube along the top	Strengthens bucket and distributes loads evenly to the hitch.
Weld-on 3/8" x 3" cutting edge with bolts holes	Strengthens leading edge of bucket. Bolt holes accept bolt-on cutting edge.
48" Width	Fits wide range of compact loaders with a CII hitch.
Struck capacity: **6.94 cu. ft.**	Allows high volume material handling.
HC Series: **3/8" x 4 1/2" 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 bucket and its weld-on cutting edge.
HT Series: Bolt-on teeth	Bolt-on teeth are beneficial for digging in compacted soil.

Troubleshooting Chart

Problem	Cause	Solution
Cannot lift load	Insufficient power to lift load.	Reduce load in bucket or switch to a power machine rated for more lift capacity.
Load is shifting	Hitch is not properly attached to the loader hitch.	Always make certain hitch is properly attached before lifting a load. Reattach hitch to loader hitch 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.
	Load is not centered in bucket.	Center load in the 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.
Bucket is bending or breaking	The load's center of gravity is not centered in the bucket.	Reposition load so that the load's center of gravity is centered in the bucket.
	Load is too heavy for the bucket.	Lift lighter loads.
	Ramming bucket into the ground or load.	Never ram bucket into the ground or load.
	Striking solid objects with the bucket such as tree roots, rocks, curbs, ditches, etc.	Inspect area thoroughly before working in it and place markers, such as flags, to indicate potential hazard that cannot be removed. Watch for solid objects an placed markers while moving. Allow clearance when making turns. Always be ready to stop.
	Digging or prying with bucket.	Never dig with high capacity bucket or try to pry out objects in the ground. This bucket is designed to load and unload materials only.

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

Cutting Edge: Considered wear items.

Bolt-on Teeth: Considered wear items.

This Warranty is limited to the repair or replacement of any defective part by Land Pride and the installation by the dealer of any such replacement part, and does not cover common wear items 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 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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