



X-treme Hay Accumulator



Owner's/Operator's Manual



WARNING

For safe operation, read these rules and instructions carefully to avoid accidents that could result in Death or Serious Injury.

TO THE OWNER/OPERATOR OF THIS IMPLEMENT

Please read this manual "before" unpacking or using this implement for the first time. This manual provides you with the necessary instructions to safely install and use your purchase. Do not let other people use this attachment without first being instructed how to safely use it.



Construction Implements Depot, Inc

1248 N. Main Street

Denton, NC 27239

(336) 859-2002

Save this manual for future reference!

Thank You

Our sincere appreciation to you on the purchase of a quality X-treme Hay Accumulator designed and manufactured in the USA by Construction Implements Depot, Incorporated. Product experience of a combined 30 years is the cornerstone of our company, and our goal is to provide you with a heavy duty product that will give you years of satisfaction and operation.

Our record of successful and satisfied customers is evidence of the concern for quality and designed strength that we place into each and every product we build.

As this manual expresses the need for safe operation of your acquisition from Construction Implements Depot, Inc., it is important that you and all operators of this implement become familiar with the operation, maintenance and safety instructions found in this manual, as well as in the manual that accompanied the skid steer machine that will power this attachment. Add some common sense to the items mentioned in these manuals as the recipe for safe operation.

We invite you to look at a video of our Hay Accumulator and more innovative products on our web site: <http://www.cidattachments.com> or if in the area stop and visit our modern manufacturing facilities located in Denton, NC.

Sincerely,
Management & Employees
Construction Implements Depot, Inc.

Information

Record product information here for future reference.

Model (✓) Hay Accumulator _____
S/N or MFG. Date _____
Dealer Name _____
Dealer Phone ____ - ____ - _____
Date of Purchase __/__/____

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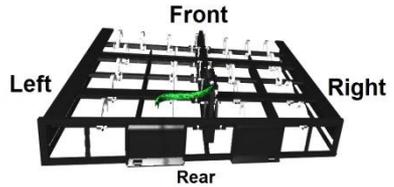
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Orientation



Serial Number Plate is Located on Top of Mounting Plate

Importance of Safety

Accidents can be very costly to human life and property. As the operator is the #1 safety device on all types of vehicles or equipment, it is important that the operator read, learn and know all safety recommendations for this product. The user is responsible to his family, friends and co-workers to operate in a safe manner. Ensure that everyone who operates or assists in the operation or maintenance of this product read and understand all the elements required to safely operate this piece of equipment.

Throughout this manual you will find safety notes which are very important to read and understand before operating this piece of equipment. These classifications alert you to situations that could be harmful to you or bystanders. When you see these alerts in the manual, carefully read and follow all instructions and also protect other workers from the same danger.

⚠ DANGER Will result in Death or Serious Injury.

⚠ WARNING Could result in Death or Serious Injury.

⚠ CAUTION Could result in Minor or Serious Injury.

NOTICE**Not related to****Personal Injury.**

Operator Safety Training Tips

It is the responsibility of the operator using this attachment to be acquainted with the safe operation. In addition to reading this manual, it is important that the operator read the skid steer's operation manual and follow its manufacturer's recommendations!



Before lifting, lowering or tilting the attachment, make sure the area is clear of bystanders or objects.



Machinery parts sometimes have sharp edges. Wear work gloves when moving parts. Always use caution around attachment parts as they often are very sharp.



Never use drugs or alcoholic drinks when operating or servicing this piece of equipment.



Always wear the proper personal protection equipment when servicing or operating this piece of equipment. Never service or operate this attachment with bare feet, sandals, or other light footwear.



Always use eye protection during operation.



Speed Kills! Operate this implement at a safe working speed. When transporting the implement, keep a safe speed to avoid losing control of the attachment or prime mover.



Keep proper clearance between the implement and objects (utilities,

tree stumps, large rocks, buildings, etc.). Contacting these objects with the implement or prime mover could cause a loss of control or damage to the implement or property.



Before each operation of this implement, check all hardware (bolts, nuts, pins, etc.) for their proper location and tightness.



Stop the engine on the skid steer and set the brake to avoid the implement rolling forward or backwards while you are exiting the prime mover.



Store this implement in an area not frequented by children.



Allow no riders on this attachment. Keep all bystanders clear of attachment during operation.



Always replace worn, torn or missing safety decals before operating.



Never operate the attachment when bystanders are within 10 feet (3 m) of the work area.



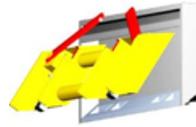
Operate only during daylight or well-lit artificial light.

Skid Steer Requirements

The Hay Accumulator should only be used on 50+ HP (37 kW) skid steers with a lift capacity of at least 1800 lbs. and with a weight of at least 5500 lbs. (2495 kg) with the bucket removed.

A skid steer equipped with tracks will provide superior traction and stability in this application.

⚠ CAUTION *Make sure your skid steer is in good working condition. Follow the operating instructions found in the manual that accompanied your skid steer. Failure to do so could result in Minor or Serious Injury.*



Connecting Coupler to Attachment

When the top edge of the coupler is seated in the top part of the coupler plate, roll the skid steer tilt function back until the attaching plate is flat against the skid steer coupler. Lock down the coupler levers. Note: If your skid steer is equipped with a hydraulically operated coupler, activate the coupler lock at this time.

Unpacking Your Shipment

Your attachment arrives from the factory banded to a wooden pallet, and requires no final assembly before use.

⚠ CAUTION *Careless removal of the shipping bands that secure the implement to the pallet could result in Minor or Serious Injury. Clear the area of all bystanders and stand to the side when cutting the bands with a pair of sheet metal shears.*

○
PLEASE NOTE:
Attachment and Machine-side Couplings must be
**FREE OF DEBRIS
BEFORE INSTALLING.**
Failure to comply will void warranty.

Using Your Implement

Connecting Attachment to Skid Steer

⚠ DANGER *Never enter the area underneath the coupler or any part of the attachment when it is in the raised position to avoid an accident that will result in Death or Serious Injury.*

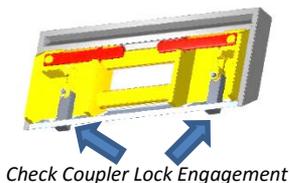
Verify that the hydraulic hoses are clear from the front of the attaching plate on the attachment and that the mounting plate is free from dirt and debris. When clear, move the skid steer to proximity of attachment plate. Tilt skid steer coupler forward to align coupling point with the upper part on the attachment plate and raise the coupler slightly.

NOTICE *Wipe off any dirt or dust from the male or female hydraulic flat-face couplers with a clean rag before attaching hoses, to keep contaminants from entering the hydraulic system.*

Connect the attachment hydraulic hoses to the auxiliary supply couplers located on your skid steer loader lift arm.

Check the surrounding area for bystanders and clear them before starting the skid steer or attachment.

Before operating the attachment, always visually inspect and verify that the coupler lock pins are fully engaged through the latch slots on the attachment plate.



Pre-Operation Walk-around Inspection

Before every use, it is important to perform a short inspection and certain maintenance on Hay Accumulator Grapple.

	Item
✓	Check that all grapple tines are in place.
✓	Look for loose bolts and tighten them if necessary.
✓	Check that all safety decals are in place and can be read. Replace them if necessary.
✓	Take care of our environment. Repair any hydraulic leaks.

Accumulator Controls

Your Hay Accumulator Grapple is designed to run off the skid steer loaders auxiliary hydraulic system. Consult your skid steer operator's manual for precise instructions on how to activate and deactivate the auxiliary circuit.

Height and pitch functions of the hay accumulator grapple frame are

operated with the control handles or pedals in the cab. Consult your skid steer operator's manual for precise instructions regarding these functions.

Your skid steer may have a "float" function on the lift & lower circuit. When placed in the float position, the attachment will follow the contour of the ground being worked. See your skid steer's Operator's Manual for instructions about how to use the float on your skid steer.

If during your initial startup you realize the grapple function operates in the opposite direction that you prefer, you can change positions of the quick disconnect couplers on the attachment hoses to remedy your problem.

Before Using the Accumulator the First Time

⚠ WARNING *Moving the attachment with bystanders in the area could result in Death or Serious Injury. Before moving the attachment or machine, always make sure the area is clear of bystanders.*

NOTICE *If this is your initial startup with this attachment on this machine, check the skid steer's hydraulic oil level and add oil, if necessary, before and after doing steps 1 & 2 below.*

After starting skid steer, lift the attachment 10" (254mm) off the ground surface:

1. With the skid steer engine RPMs just above idle, slowly engage the auxiliary hydraulic flow to the grapple cylinder, rotating the

grapple tines first all the way to the down position and then all the way to the raised position. Repeat this two more times to purge any air from the system.

2. Lower the attachment to the ground and shut off the skid steer's engine and exit the operator's compartment.
3. Check the skid steers hydraulic oil level, and add oil if necessary.
4. Inspect the attachment's hydraulic plumbing for any noticeable leaks. Correct these leaks before continuing.

Getting Familiar with the Attachment

⚠ DANGER *Never operate the accumulator when bystanders are within 10' (3 m) of your work area.*

⚠ CAUTION *Be cautious when operating on un-level ground surfaces. A machine roll over could result in Minor or Serious Injury. Always wear your seat belt when operating this type of machinery.*

Before starting the skid steer engine with this hay accumulator attached, make sure you are knowledgeable and comfortable with the operation of the controls as outlined in the previous and following sections of this manual. When operating this attachment, set the skid steer throttle at a speed that will produce the required flow to the ground drive wheels. If the skid steer is equipped with a foot throttle, use it to control engine speed and power being delivered. Refer to your skid steer manual or call your local skid steer dealer for additional help, if necessary.

To begin with, learn what the hay accumulator grapple looks like in a level position when you are seated in

the skid steer. Knowing what a level attachment looks like will help you with your operational success.

Adjusting Attachment Height & Level

Use the skid steer loader lift and attachment coupler tilt to adjust the height and pitch of the accumulator.

Before Starting

Inspect the area to be operated and make sure it is free of any utilities, rocks, fence posts, or any other objects that you do not want to contact.

Determine a safe accumulating pattern before the start of the job. If possible, retrieve bales as you are coming back to the drop-off point to limit the travel distance while the accumulator is fully loaded.

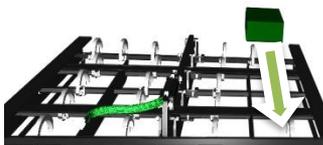
Operating Tips

⚠ CAUTION *Never operate this attachment when bystanders are in proximity of the work area that could result in Minor or Serious Injury from falling or flying debris.*

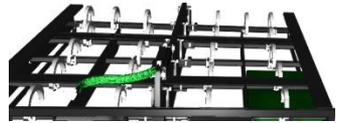
1. Always inspect work area before starting the job. Locate and mark any utilities, steel posts, rocks or any other objects that could be damaged or would damage the grapple during operation. Never assume the work area is safe and never skip the inspection part before start of operation.
2. Operate at a safe slow-paced speed that will allow you to watch the area ahead of the attachment & loader. Since part of your duty cycle may be in the reverse

direction, look behind you or utilize your mirrors when backing up. Verify that your back alarm is working properly to warn others when you are in reverse.

3. Before beginning your forward motion with the attachment near a hay bale, stop the skid steer and make any final adjustments to the frame in terms of height and tilt.
4. Look ahead to see if there are any low spots that the attachment might transport over and make any necessary corrections to speed and angle. If a ditch or furrow must be crossed, activate the grapple to secure the bales and lift the attachment off the ground. Return the attachment to the ground and release the grapples from holding the bales before continuing.
5. You will find that your bale retrieval results will improve when you learn how to correctly aim and line up the next target bale. Practice makes perfect!
6. As your hay accumulator's capacity is ten bales, plan your retrieval route 10 bales away from your unloading point or trailer placement. Drive to that point and turn the prime mover towards the unloading point. With the attachment level to the ground and an inch above the ground, line up the short end of the bale with one of the empty bale slots and slow proceed forward until the bale has bottomed out at the rear of the attachment.

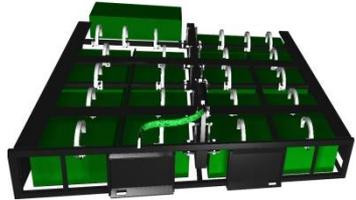


Lining up 1st bale



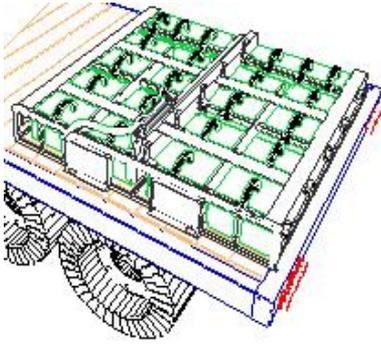
Bale at rear of attachment

7. After eight (8) bales have been loaded into the attachment, the last two bales need to be positioned and loaded 90° from the first eight. Align the 9th bail along the long end and drive the attachment so that bale fits into either the right or left side. After collecting the ninth bale, position the machine to the bale on the remaining empty side of the accumulator.



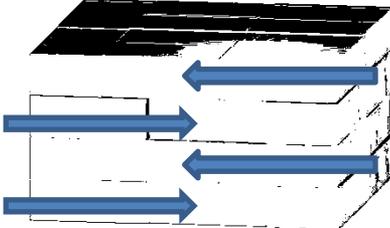
Collecting last bale

8. When the tenth (10th) bale has been loaded into the attachment, stop the forward progress of the prime mover, lower the attachment completely down on top of the bales and activate the grapple arms to capture the bales.
9. Lift the attachment 8" (200mm) off the ground and carefully transport the 10 bales to the unloading point.
10. If loading bales on a trailer, raise the attachment to clear the height of the trailer and center bales over the trailer. Lower the attachment onto the trailer bed and activate the grapple tines to release the bales. Raise the attachment straight up until the bales are cleared and back the prime mover away from the trailer.



Bales Centered over trailer

11. If placing the 10 bales on the ground, make sure the location is flat and level.
12. Know the capabilities of your skid steer as to how high off the ground is considered stable.
13. When stacking bales on a trailer or on the ground, alternate sides of your approach in order to "lock-in" the two end perpendicular bales.



Alternating stack levels

14. Before transporting bales on a roadway, secure the bale stack to the transporter vehicle according to State or local law.

Maintaining your Attachment

Before Every Use

Check that all fasteners (nuts, bolts, pins, keepers) are in their right place and are tight.

Inspect and replace any worn, torn or missing safety decals.

Investigate the location of any oil leaks and repair.

Every Week

Check the condition of the grapple tines. Order parts if any tines are damaged and replace as soon as possible.

After Every Season

Inspect the implement for any loose or worn parts that may need to be replaced prior to the next excavating season.

Clean, sand & repaint any area that looks worn or scratched to prevent rusting. Use an equipment-paint found at your local hardware store or building center.

⚠ WARNING *Hazardous dust can be generated if painted surfaces are heated or welded and could result in death or Serious Injury. Remove paint before welding and always make repairs in a well-ventilated area and wear an approved respirator.*

Replace any warning decals that have been lost or damaged.

Store your implement in a shed or cover with a water-proof tarp to protect it from the weather. Store in an area not frequented by children.

Hydraulic System

⚠ WARNING *A small stream of oil from a pinhole leak could penetrate your skin if contacted. To avoid an accident that could result in Death or Serious Injury, never use your hand or other body parts in an attempt to locate a hydraulic leak.*

NOTICE *Always release the hydraulic system pressure from the hydraulic circuits prior to removing the attachment or any hydraulic system service work.*

Replacement of hydraulic hoses and fittings are required to meet certain hydraulic pressure specifications. Never replace any hydraulic component with sub-standard parts.

Hardware Torque

	Grade 2 lb-ft	Grade 5 lb-ft	Grade 8 lb-ft
			
¼"	66*	8	12
5/16"	10	17	20
3/8"	20	30	45
½"	45	75	110
¾"	160	260	380
7/8"	190	400	600
1"	-	580	900

* = inch pounds

Higher torques require the use of a torque multiplier. All values are "dry" torques.

Specifications

Spec.	Hay Accumulator Grapple
Bale Capacity	10 Bales
Overall Width	90" (2286 mm)
Overall Length	92" (2337 mm)
Overall Height	23" (584 mm)
Weight	866 lbs. (393 kg)
SSL Auxiliary Hyd. Circuits Required	1
Hyd. Relief Setting	3000 PSI (207 bar)

Note: A skid steer equipped with tracks will provide superior stability and traction compared to a non-track unit.

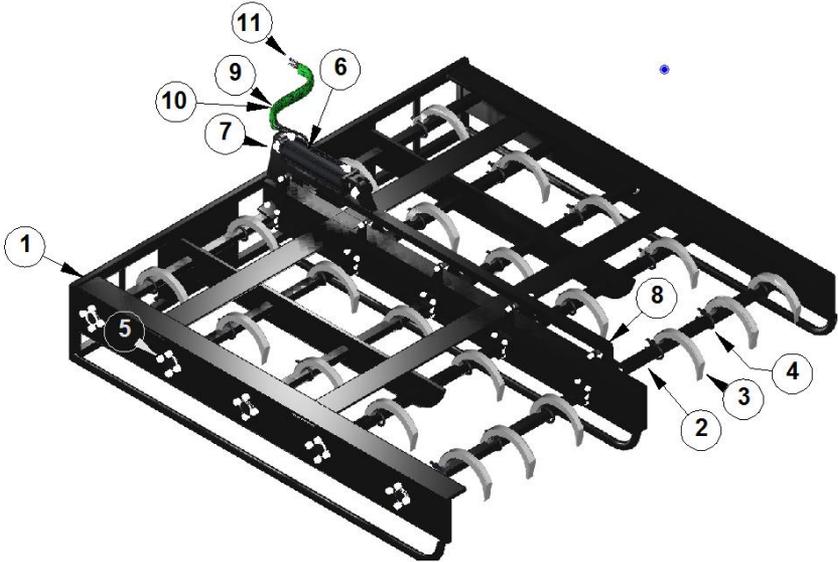
Parts

When requiring any parts for your implement, please collect the following information:

- Implement Model Number or Description
- Implement Serial Number
- Parts Manual Date (lower right corner)
- Parts Manual Page
- Part Description
- Quantity Required
- Ship-to Name & Address
- Payment Method

...then call your local dealer for factory fresh parts specifically designed for your attachment.

Hay Accumulator Grapple Parts



Ref.	Description	Qty.
1	Frame Weldment	1
2	Pivot Shaft (Specify Position When Ordering)	5
3	Tine	22
4	Clamp (Tine)	22
5	Bearing Assembly	15
6	Cylinder	1
7	Pin	2
8	Pivot Link	1
9	Hose Kit	1
10	Protective Sleeve (Specify Length)	1
11	Kit, Quick Disconnect Coupler	1

Decals



Ref.	Description	Qty.
1*	Decal, (Danger Pinch Points)	1
2*	Decal, (Warning, High Pressure Fluid Hazard)	1
3	Decal, Made in the USA	1
4	Decal, Registration & Warranty Info	1
5	Decal, Construction Implements Depot, Inc.	1

***  WARNING** *Replace any worn, torn or missing safety decals before operating!*

Troubleshooting

Problem	Cause	Resolution
Hydraulic oil level goes down during operation	Leak at hoses on attachment	Investigate & repair or contact Dealer
	Leak in skid steer hydraulic system	Investigate & repair or contact Dealer
Grapple Cylinder does not function	Mechanical	Object or other debris is wedged in grapple tine pivot area. Clean.
	Hydraulic flow problem	<p>Quick disconnect couplers not completely connected. Reconnect couplers.</p> <p>One of hoses pinched or damaged. Replace hose(s) to cylinder.</p> <p>Prime mover problem with its auxiliary circuit. Contact your prime mover's Dealer.</p>
	Hydraulic pressure problem	Contact your prime mover's Dealer.

***Think Safety,
every day!***



Owner's Manual
HAY
ACCUMULATOR

1248 N. Main
PO Box 1230
Denton, NC 27239

Website
www.cidattachments.com
For More Information, Contact
sales@cidattachments.com
Phone: (336)859-2002

Limited Warranty

Construction Implements Depot, Inc. products are warranted to be free from defects in workmanship or materials for period of (12) months from initial sale, lease or rental date.

Warranty Exclusions

This warranty does not cover normal wear items, including but not limited to, bearings, hoses, ground engaging parts such as, teeth, blades, cutting edges, pilot bits, auger teeth and broom bristles. This warranty does not cover maintenance, service or adjustments. This warranty does not cover damage due to misuse, negligence, accidents, or improper maintenance. This warranty does not cover damage due to improper application, installation, contamination, adjustment or setup. This warranty does not cover improper modifications of product. This warranty is void if any components have been disassembled, i.e. pumps, gear boxes, motors.

Specially modified attachments built by CID X-treme Attachments to meet your customer's needs shall not be warranted by Construction Implements Depot, Inc. This warranty does not cover replacement parts not supplied by CID, Inc.

Warranty Statement

Our obligation under this Limited Warranty shall be solely limited to repairing or replacing any part (see non-covered items) free of charge that, according to our judgment, show evidence of a defect in quality of workmanship or materials for the stated (12) month warranty period. All defective parts must be routed directly to CID, Inc. with freight or delivery charges to be prepaid. This Limited Warranty shall not be interpreted to render CID, Inc. liable for any injury or damage to persons, business or property of any kind nor expenses or losses incurred for labor, supplies, substitute machinery rental, or for any other reason. Repair or replacement parts are subject to the supply conditions at the time of repair or replacements, which may directly affect our ability to obtain material and/or replacements parts. CID, Inc. reserves the right to make improvements in design or changes in specifications at any time without incurring any obligations to owners of previously purchased units. No one but CID, Inc. is allowed to alter, modify or enlarge this warranty nor the exclusions, limitation and reservation at any time.