



BROOMS

ATTACHMENTS



OWNER'S MANUAL

HYDRAULIC ANGLE BROOM		MANUAL ANGLE BROOM		PICK UP BROOM
X-TREME		X-TREME		PUBROOM72
HAB48	XHAB48	MAB48	XMAB48	PUBROOM 84
HAB 60	XHAB60	MAB60	XMAB60	
HAB72	XHAB72	MAB72	XMAB72	
HAB84	XHAB84	MAB84	XMAB84	
HAB96	XHAB96	MAB96	XMAB96	

REGISTER YOUR PRODUCT

CID

336-859-2002

MODEL

WEIGHT

PART

HP RANGE

SERIAL

HYDRAULIC PRESSURE

HYDRAULIC FLOW

WWW.CIDATTACHMENTS.COM

Please see the inside of the back cover for instructions of where to find your model and serial number.

WARNING

To prevent personal injury or even death, be sure you read and understand all the instructions in this manual and other related OEM equipment manuals! This attachment if not used and maintained properly, can be dangerous to users unfamiliar with its operation. Do not allow operating, maintaining, adjusting, or cleaning of this attachment until the user has read this manual and has developed a thorough understanding of the safety precautions and functions of the unit. This attachment is designed for the purpose specified. DO NOT modify or use this attachment for any application other than that for which it was designed. Attachments maintained or operated improperly or by untrained personnel can be dangerous, exposing the user and/or bystanders to possible serious injury or death.

**STORE THIS MANUAL IN THE
DOCUMENT CANISTER ATTACHED
TO THIS MACHINE.**



Purchase Date:

Dealer Name:

Address:

Phone Number:

WELCOME

Thank you for choosing CID. This attachment has been designed and manufactured to meet the needs of discerning users. We are committed to providing you with a heavy duty product that will provide years of satisfaction and safe operation.

This manual will provide instructions on how to safely operate and maintain this attachment. All users must read and understand this manual before operating this machine. Upon reading this manual, all users should sign the “Safety Acknowledgment Form” at the end of this manual.

Please record your model and dealer information on the inside front cover. You will be asked to provide this information when ordering parts or requesting service. If you need more information on this product, contact your local dealer or visit www.cidattachments.com.

*Sincerely,
The CID Team*



MODELS	BRISTLE QTY	GPM	WEIGHT	BRISTLE TYPE	BROOM ANGLES	SIZE	CORE
XHAB48 XHAB60 XHAB72 XHAB84 XHAB96	32 38 44 50 56	14-20	785 lbs 833 lbs 912 lbs 1,029 lbs 1,101 lbs	POLY OR WIRE OR MIXED	30 Degrees Left OR Right	48" 60" 72" 84" 96"	8" CORE 26" BRISTLE OR 10" CORE 32" BRISTLE
XMAB48 XMAB60 XMAB72 XMAB84 XMAB96	32 38 44 50 56	14-20	770 lbs 818 lbs 897 lbs 1,012 lbs 1,055 lbs	POLY OR WIRE OR MIXED	30 Degrees Left OR Right	48" 60" 72" 84" 96"	8" CORE 26" BRISTLE OR 10" CORE 32" BRISTLE
PUBROOM72 PUBROOM84	35 39		1,133 lbs 1,276 lbs	POLY OR WIRE OR MIXED	None	72" 84"	8" CORE 26" BRISTLE

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IMPORTANT WARRANTY DISCLAIMERS

ATTENTION: If your attachment has control valves, cylinders, gearboxes, or motors and they are opened or disassembled, the **WARRANTY** for that item **WILL IMMEDIATELY BE VOIDED!**

GEAR OIL STATEMENT: If applicable in your attachment, check gear oil before each use: We recommend using 85-140 grade gear oil, for use with all our gear boxes, and bearing housings which is separate from the hydraulic fluid used to move your attachment or machine.
(Exception: gear oil used in mulchers is Shell Omala S2 GX 150)

HYDRAULIC FLUID STATEMENT: Check your machine's hydraulic level and add hydraulic fluid if necessary before each use. Inspect for leaks, and repair if necessary. **Always use your machine's manufacturer recommended hydraulic fluid in your machine!** Fluid must be clean and debris free. If damage occurs from debris in hydraulic fluid flowing from your machine to our attachment it will VOID the warranty on any cylinders, motors, couplers, manifolds &/or valves (relief, lock, selector, check and flow control) downline from that flow.

SECTION 2

SAFETY INFORMATION

The following terms may be used interchangeably throughout this manual.

Term	Alternate Terms Used
Broom	implement, attachment, product, sweeper, broom
Machine	skid steer loader, skid steer tractor, loader, host machine
Operator	user, personnel

The **Broom** is designed and manufactured with safety in mind. However, improper use and operator error can result in death or serious injury. It is important that you read and fully understand the safety instructions and operating procedures presented in this manual before operating this broom. Accident prevention is a combination of good judgment, common sense, awareness and proper training!



BEFORE YOU OPERATE THIS BROOM:

KNOW how to safely operate your machine.

READ and UNDERSTAND the safety instructions and operating procedures contained in this manual.

ACKNOWLEDGE your understanding of all safety instructions presented in this manual by signing the “Safety Acknowledgment Form” at the end of this manual.

Although every effort has been made to ensure a safe product, every possible circumstance that could pose a potential hazard cannot be anticipated. The warnings presented in this manual and on this product, are therefore not all-inclusive.

In addition to the safety messages presented in this section, you must also read and understand the safety messages presented in the other sections of this manual.

This manual and the decals on this machine use safety symbols, hazard labels, pictograms and color coded signal words to alert you to potential hazards that may cause severe injury or death if a safety instruction is ignored.



SAFETY ALERT SYMBOL - This symbol is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

HAZARD CLASSIFICATIONS

Hazards are identified by the “Safety Alert Symbol” and followed by the signal word “DANGER”, “WARNING”, or “CAUTION”.

DANGER

Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

This signal word is limited to the most extreme situations.

WARNING

Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION

Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

NOTICE

Indicates a situation which may cause damage to equipment or property.

Messages are not related to personal injury.

Safety Instructions

Indicates specific safety-related instructions or procedures.

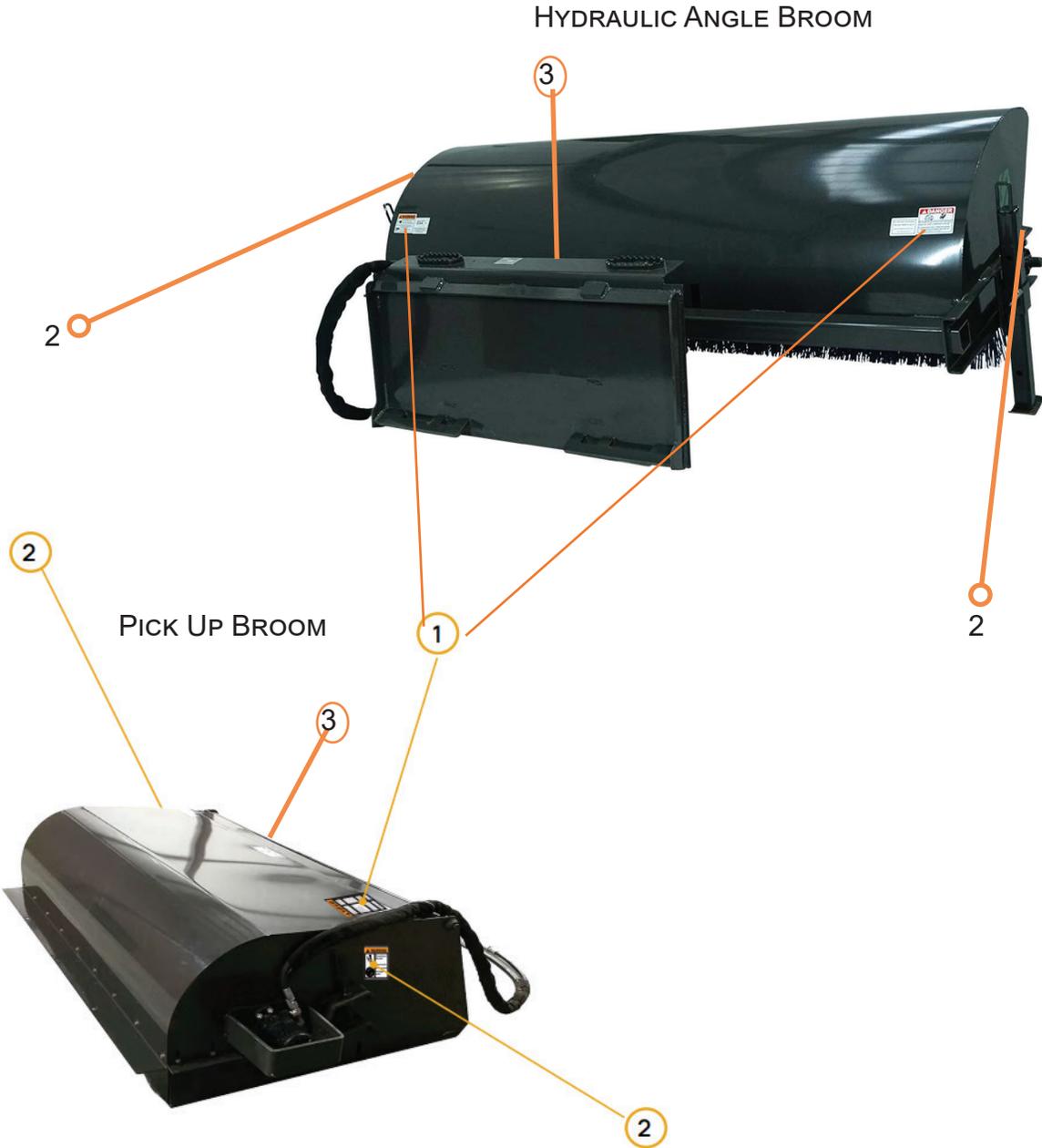
2.2 SAFETY SYMBOLS

Pictograms are graphic symbols meant to alert you of a potential hazard. Read and understand the hazard description for each of these symbols.

Pictogram	Description
	<p>PINCH HAZARD: Keep clear of machine and attachment to prevent death or serious injury from pinching of moving parts.</p>
	<p>FLYING DEBRIS HAZARD: ONLY operate this attachment using a machine that has a shatter proof cab to prevent death or serious injury from objects being thrown.</p>
	<p>OPERATING MANUAL: Operators must read and understand the safety instructions in the operating manual to prevent death or serious injury.</p>
	<p>EYE PROTECTION & CARDBOARD: Operators and Maintenance personnel must wear proper eye protection and use cardboard or wood to investigate hydraulic leaks to prevent death or serious injury from being injected with high pressure hydraulic fluid.</p>
	<p>HIGH PRESSURE FLUID INJECTION HAZARD: Operators and Maintenance personnel must not place fingers or hands directly over a hydraulic leak to prevent death or serious injury from being injected with high pressure hydraulic fluid.</p>
	<p>NO BYSTANDERS: DO NOT operate this attachment near bystanders. Bystanders must stay back at least 100 feet from the attachment to prevent death or injury from objects being thrown.</p>
	<p>CRUSH HAZARD: DO NOT place any part of the body under the machine or attachment to prevent death or serious injury from being crushed .</p>

2.3 SAFETY DECAL LOCATIONS

Safety warning decals are located on this attachment near immediate areas of potential hazards. Operators must learn the meaning of each decal and know where to find the decal on the attachment.



2.3 SAFETY DECAL CHART

The safety decals affixed to this attachment are to keep you safe. DO NOT ignore these decals.
Read & understand each decal's safety message.
Follow these Safety Decal Instructions:

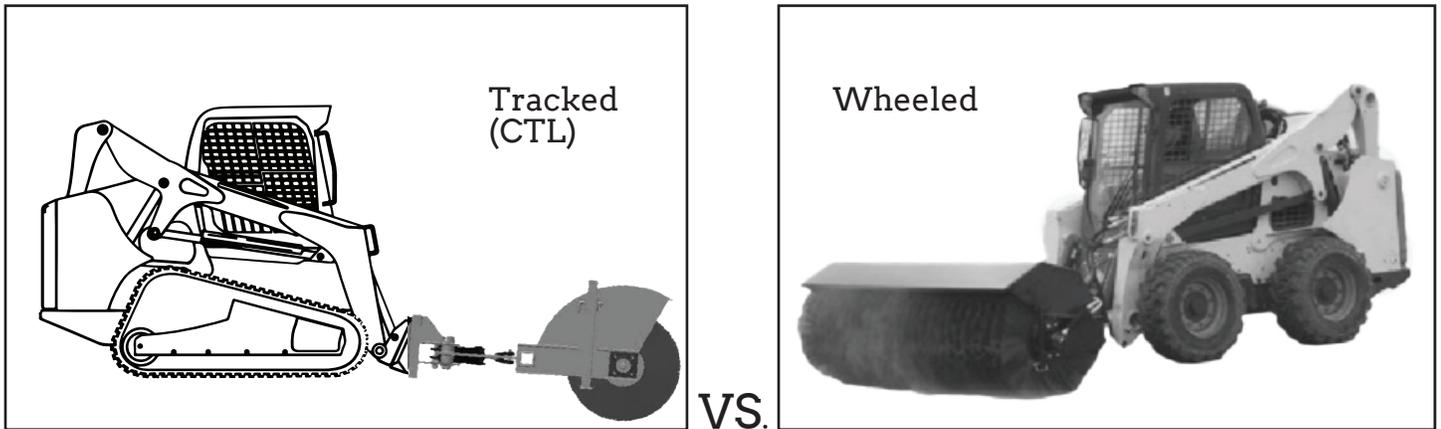
REF	DESCRIPTION	LABEL	QTY
1	Warning Combo (CID-82A)		1
2	Pinch Warning (CID-04)		2
3	AUXILIARY HYDRAULIC FLOW NOT TO EXCEED NOTICE LABEL		1

**WHEN ORDERING, CHOOSE THE PROPER DECAL FOR YOUR MODEL*

CONTACT YOUR LOCAL DEALER TO ORDER REPLACEMENT DECALS

- Decals must be kept clean and legible at all times.
- Operators must inspect the attachment for safety decals.
- Replace missing, worn or damaged decals immediately.
- When using a hot pressure washer to clean this attachment make sure water jet is not too close to the decal as this may cause the decal to peel.
- When replacing parts, be sure safety decals are in place prior to using the attachment.
- Make sure metal surface is dry and free of dirt and grease before affixing decals to this attachment.

2.4 SKID STEER LOADER REQUIREMENTS



! CAUTION

Make sure your machine is in good operating condition. Follow the operating instructions found in the operator's manual. Failure to do so could result in minor or serious injury.

Consult the host machine's rated operating capacity to ensure you have the proper lift capacity for optimal operation of this attachment.

Flow range **MUST** support 10-25 GPM.

2.5 PERSONAL PROTECTIVE EQUIPMENT (PPE)

All operators should wear hearing protection, safety glasses, hand protection and dust mask while operating this machine.



2.6 GENERAL SAFETY INSTRUCTIONS



MAKE SURE YOU FOLLOW THE GENERAL SAFETY INSTRUCTIONS THAT RELATE TO THE OVERALL OPERATION AND MAINTENANCE OF THIS ATTACHMENT. IT IS IMPORTANT THAT YOU READ AND UNDERSTAND EACH OF THESE MESSAGES TO PREVENT SERIOUS INJURY OR DEATH.

- ! NEVER** use drugs or alcoholic beverages while operating or servicing this attachment.
- ! ALWAYS** operate this attachment during daylight or well-lit areas.
- ! We recommend** using a high strength clear protective door panel when using with this attachment.
- ! To prevent** the machine and attachment from rolling forward, stop the engine and set the parking brake when exiting the machine.
- ! Inspect** attachment for loose or missing hardware prior to using.
- ! ALWAYS** watch for overhead power lines.
- ! DO NOT** place hands or feet under attachment while bristles are spinning.
- ! NEVER** operate this attachment when bystanders are within 100 feet of your work area. Flying debris could cause serious injury or death.
- ! NEVER** position your body or limbs under an unsupported broom.
- ! DO NOT** allow children to play on or around this attachment at any time. Store this attachment in an area not frequented by children.
- ! ALWAYS** wear the proper personal protection equipment while operating or servicing this attachment. **NEVER** operate or service this attachment with bare feet, sandals, or other light footwear.
- ! ALWAYS** wear work gloves when handling this attachment to protect your hands.
- ! ALWAYS** use eye protection while operating or servicing this attachment.
- ! DO NOT** allow this attachment to contact buildings, utilities, large rocks or tree stumps or you may lose control of the machine.
- ! DO NOT** operate this attachment during lightning or severe weather conditions.
- ! DO NOT** allow riders on the machine or on this attachment.

2.7 FEDERAL LAWS & REGULATIONS

IMPORTANT FEDERAL LAWS AND REGULATIONS CONCERNING EMPLOYERS, EMPLOYEES, AND OPERATORS

This section is intended to explain in broad terms the concept and effect of the following federal laws and regulations. It is not intended as a legal interpretation of the laws and should not be considered as such.

U.S. PUBLIC LAW 91-596 (The Williams-Steiger Occupational Safety and Health Act of 1970) OSHA

This Act Seeks:

“ ... to assure so far as possible every working man and woman in the nation safe and healthful working conditions and to preserve our human resources...”

Sec. 5(a) Each Employer – DUTIES

(1) shall furnish to each of its employees employment and a place of employment which are free from recognized hazards that are causing or are likely to cause death or serious physical harm to its employees.

(2) shall comply with occupational safety and health standards promulgated under this Act.

(b) Each employee shall comply with occupational safety and health standards and all rules, regulations, and orders issued pursuant to this Act which are applicable to his or her own actions and conduct.

OSHA Regulations

Current OSHA regulations state in part: “At the time of initial assignment and at least annually thereafter, the employer shall instruct every employee in the safe operation and servicing of all equipment with which the employee is, or will be involved.” These will include (but are not limited to) instructions to:

Keep all guards in place when the machine is in operation;

Permit no riders on equipment;

Stop engine, disconnect the power source, and wait for all machine movement to stop before servicing, adjusting, cleaning, or unclogging the equipment, except where the machine must be running to be properly serviced or maintained, in which case the employer shall instruct employees as to all steps and procedures which are necessary to safely service or maintain equipment.

Make sure no one is within 300 feet of machinery before starting the engine, engaging power, or operating the machine.

EMPLOYEE MACHINE OPERATING INSTRUCTIONS:

1. Securely fasten your seat belt if the machine has a ROPS.
2. Where possible, avoid operating the machine near ditches, embankments, and holes.
3. Reduce speed when turning, crossing slopes, and on rough, slick, or muddy surfaces.
4. Stay off slopes too steep for safe operation.
5. Watch where you are going, especially at row ends, on roads, and around trees.
6. Do not permit others to ride.
7. Operate the machine smoothly - no jerky turns, starts, or stops.
8. Hitch only to the drawbar and hitch points recommended by machine manufacturers.
9. When machine is stopped, set brakes securely and use park lock if available.

Child Labor Under 16 Years Old

Some regulations specify that no one under the age of 16 may operate power machinery. It is your responsibility to know what these regulations are in your own area or situation. (Refer to U.S. Dept. of Labor, Employment Standard Administration, Wage & Home Division, Child Labor Bulletin # 102).

SECTION 3

OPERATING PROCEDURES

Your attachment arrives from the factory strapped to a wood pallet and requires no final assembly.

Use a steel band cutting tool to remove the steel straps.

⚠ CAUTION

Shipping straps are under great tension, and could lash out uncontrollably when cut causing injuries to your body or bystanders. Keep bystanders away and wear safety glasses and gloves while removing the steel straps.

3.1 PRE-OPERATING CHECKLIST

Pre-Operating Checklist	
<input type="checkbox"/>	Broom is securely attached to the machine and pins are locked.
<input type="checkbox"/>	Hydraulic hoses are connected and locked to the machine's hydraulic couplers with no signs of hydraulic fluid leaks present.
<input type="checkbox"/>	Broom is in working condition and securely attached to the frame and all bolts and nuts are tight.
<input type="checkbox"/>	Safety labels are present and legible.
<input type="checkbox"/>	No material, ropes, wire, etc. is obstructing the broom and deck.
<input type="checkbox"/>	The area of operation is clear of bystanders and any obstacles that could damage the equipment or injury to the operator.
<input type="checkbox"/>	The operator is of good health and not under the influence of any mind altering substances or alcohol.
<input type="checkbox"/>	Lubricate all pivot joints with #2 lithium grease.

3.2 HOW TO CONNECT BROOM ATTACHMENT

GENERAL ATTACHMENT METHOD

Refer to your machine operator's manual for specific instructions on how to connect and disconnect your attachment.

This attachment method refers specifically to skid steers. For all other attachment instructions, refer to the Original Equipment Manufacturer (OEM) for instructions.

1. Make sure the hydraulic lines are clear from the front side of the broom's attachment plate and that the locking pins on the skid steer quick attach coupler are in the unlocked position.
2. Drive the skid steer to the attachment plate and hook the top edge of the skid steer quick attach coupler under the lip of the broom's attachment plate. See figure 3.2a below.
3. Slowly raise and tilt back the skid steer quick attach coupler, moving upward until the broom's attachment plate is flat against the skid steer quick attach coupler. See figure 3.2a below.

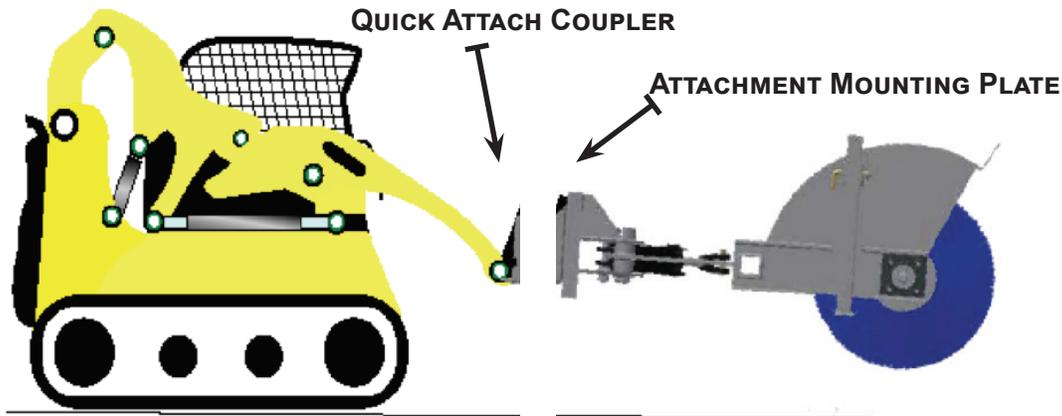


FIGURE 3.2A - SKID STEER QUICK ATTACH COUPLER TO MOUNTING PLATE

4. Activate your skid steer's lever lock switch to engage and lock the pins into the flange slots of the broom's attachment plate. If your skid steer does not have this switch, push the latch handles down until you can see the lock pins extend into the attachment flange as shown in Figure 3.2b below.

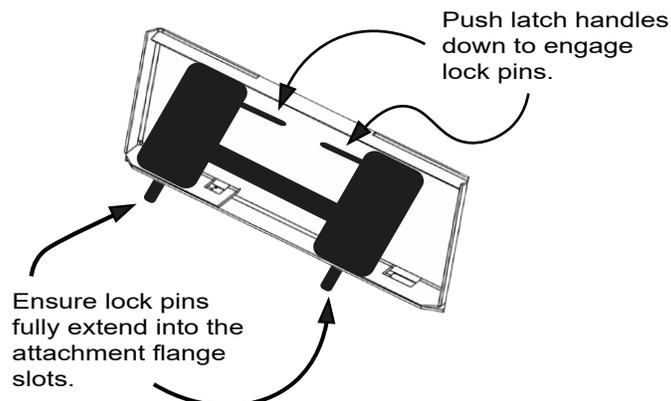


FIGURE 3.2B QUICK ATTACH COUPLER LOCKED TO ATTACHMENT PLATE

3.2 HOW TO CONNECT BROOM ATTACHMENT CONT.

! WARNING

To avoid serious injury or death, ensure coupler pins fully extend through the slots on the attachment bracket and that levers are down in the locked position to prevent broom from detaching from machine.

NOTICE

To keep contaminants from entering the hydraulic system, use a clean cloth to wipe away dirt and grease from the hydraulic couplers.

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

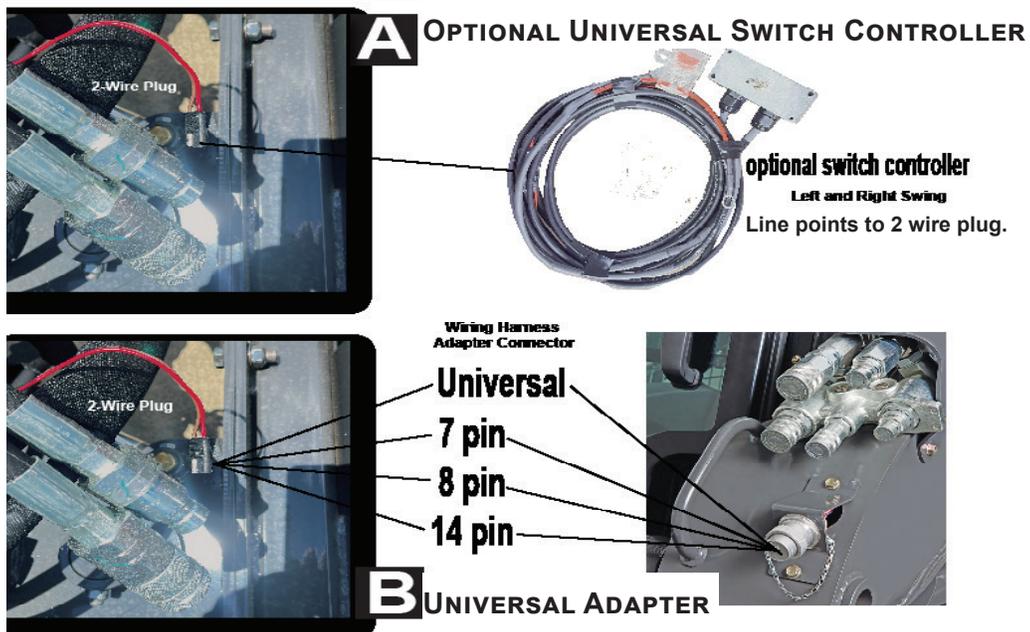
NOTICE

Check that hydraulic hoses are locked into the machine couplers before starting the broom.

3.3 CONNECTING ELECTRICAL HARNESS

HYDRAULIC ANGLE BROOM ONLY

Connect the 2-wire control harness from the broom attachment using the A or B Method as shown below. A **universal, 7, 8, or 14 pin** pigtail harness adapter is available to make this connection. When using the optional switch controller, make sure the ground wire is securely attached to the machine frame. Contact your local dealer for more information on how to connect the harness and controller.



3.4 UNIVERSAL ELECTRICAL INSTALLATION

UNIVERSAL CONTROLLER INSTALLATION

NOTICE

To prevent possible equipment damage, it is recommended that the universal controller is installed by a qualified technician who is familiar with your machine's electrical system.

1. Place the control box inside the machine's cab and connect the red wire with the fuse to the machine operator presence system and the black wire to the machine's grounding system.

DANGER

Ensure proper functionality of the machine's operator presence system. In the event that bypassing is necessary while utilizing a wiring harness, your use implies acknowledgment and acceptance of inherent risks to yourself and others. Your usage constitutes acceptance for full liability.

2. Route the control cable that extends from the right side of the controller box through the side of the cab and up to the back of the loader pivot arm, then down the arm to a point near the bulkhead coupler. Secure cable with plastic cable ties or velcro straps.
3. Check that the cable is free of tension when raising and lowering the machine arms.

3.5 CHANGING BROOM ANGLES

CONTROLS

Your broom is designed to run off your machine's auxiliary hydraulic system and is activated and deactivated by a control in the operator's cab. Operate the height and tilt functions using the machine control handles or pedals. Refer to your machine operator's manual for instructions regarding these functions.

CHANGING THE BROOM ANGLE (ANGLE BROOM MODELS ONLY.)

Manual Angle Broom:

1. Raise the broom 8" off the ground, then shut off the machine engine and exit the cab.
2. Remove the angle-lock pin located in the center of the broom mounting bracket.
3. When the lock pin has been pulled, pivot the broom head to the desired angle.
4. Re-insert pin to lock the broom head in place.



3.5 CHANGING BROOM ANGLES CONT.

Hydraulic Angle Broom

1. Raise the broom 8" off the ground.
2. With the machine's engine RPM just above idle, activate the auxiliary hydraulic circuit to spin the brushes.
3. Operate the toggle switch to swing the broom head to the desired angle.



3.6 BROOM SUPPORT LEGS

All Angle Brooms come with support legs that are designed to support the weight of the broom when not in use.

To Raise the Legs:

1. Lift the broom to take the weight off the support legs, then remove the keeper and lock pin.
2. Raise the tube fully, align holes and insert lock pin with keeper.



3.7 STARTING THE BROOM



Please refer to our "Hydraulic Fluid and Oil Statement" on Page 5 for gear oil or hydraulic fluid instructions.



1. Complete steps 1-6 in Section 3.2.
2. Check the machine's hydraulic fluid level and add hydraulic fluid if necessary. Never check for hydraulic fluid leaks with your hand. *Use only the manufacturers recommended hydraulic fluid on machine.*
3. Start the machine engine and increase the engine RPM to slightly above idle.
4. Activate machine auxiliary hydraulic circuit to spin the broom.
5. Move the auxiliary hydraulic control lever in opposite directions to reverse broom rotation. Make sure to pause between each toggle to allow time for the broom rotation to come to a stop. Repeat 3 times. If you are operating a hydraulic angle broom, you also need to toggle the swing direction, pausing between changing directions to allow time for the broom to come to a stop.
6. Once attachment ramps up to speed, increase machine engine to full throttle. Ensure broom is running smoothly.
7. When testing and using attachment, make sure keep the broom at a proper height to prevent mashing and damaging the bristles.
8. Deactivate the auxiliary hydraulic circuit, lower the broom to the ground, set the parking brake, turn off machine motor and exit the operator's cab.
9. Check the machine's hydraulic level and add fluid if necessary. Inspect for leaks, repair as necessary.

STOPPING THE BROOM

If the broom vibrates while increasing RPM's, switch off the auxiliary hydraulic circuit and investigate the cause. Refer to the Troubleshooting Chart on page 28.

1. Raise the broom slightly and set machine engine RPM to idle.
2. Switch off the auxiliary hydraulic circuit.
3. Allow the broom to slow down before lowering to the ground.
4. Set the parking brake.
5. Turn off the machine and exit the operator's cab.

WARNING

After switching off the auxiliary hydraulic circuit, keep hands and feet clear of the broom deck until broom rotation has come to a complete stop.

3.9 SWEEPING OPERATIONS

Verify that hydraulic hoses are securely locked to the machine's hydraulic couplers before starting the broom.

NOTICE

Before operating broom, check the hydraulic fluid level in the machine and add manufacturer recommended fluid if needed.

Please refer to our "Hydraulic Fluid and Oil Statement" on Page 5 for gear oil or hydraulic fluid instructions.

DANGER

To avoid serious injury or death from thrown objects and flying debris, ensure no bystanders are within 100 feet of the work area before starting this broom.

1. Complete all steps in Section 3.2 and 3.7. Inspect your work area before use. NEVER assume the work area is safe.
2. ENSURE the work area is clear of bystanders and pets.
3. Operate this attachment at a safe speed that will allow you to watch the area around the broom and machine.
4. Never use the attachment to push, pull, lift or move any type of object or vehicle.
5. Do not use the attachment as a dozer to move large piles of material.

3.9 SWEEPING OPERATIONS CONT.

6. Remove debris, including twine, rope and tree limbs that may accumulate around the broom's bristles.
7. Lower the broom completely before exiting the cab or damage will occur to your machine, yourself, or the attachment.
8. Ensure the rest brackets (ANGLE BROOMS) are raised and locked before starting sweeping tasks.
9. Do Not exceed 6 mph or a safe speed while operating this attachment.

3.10 PICKUP BROOM INSTRUCTIONS

1. POSITION: Start the machine engine and slightly raise the broom off the ground.
2. TURN BROOM ON: Set the engine RPM to just above idle and activate the auxiliary hydraulic circuit to spin the broom bristles. Ensure the broom wheel is rotating clockwise (as seen from the motor side) with forward travel and counterclockwise with reverse travel.
3. SWEEP: Increase engine RPM and lower the broom wheel until the bristles contact the ground and travel forward. Do not exceed 6 MPH or safe speed while operating this attachment.
4. FILL BUCKET: When the bucket is full, deactivate the auxiliary hydraulic circuit, raise the sweeper above the ground and drive to the dumping area.



5. DUMP BUCKET: Raise the loader lift arms and tilt the attachment forward to empty the bucket.
6. RESUME SWEEPING: Repeat steps 3-5 until sweeping is complete.

3.11 ANGLE BROOM INSTRUCTIONS

1. ENSURE support legs are raised and locked. Start machine engine and slightly raise broom off the ground.
2. Set the desired broom angle per instructions on pages 17 and 18.
3. TO SWEEP: Increase engine RPM and lower the broom wheel until the bristles contact the ground and travel forward. Do not exceed a safe speed while operating this attachment.



3.12 SWEEPING TIPS

! DANGER

To prevent death from electrocution, NEVER operate this attachment near electrical wires or cables.

! CAUTION

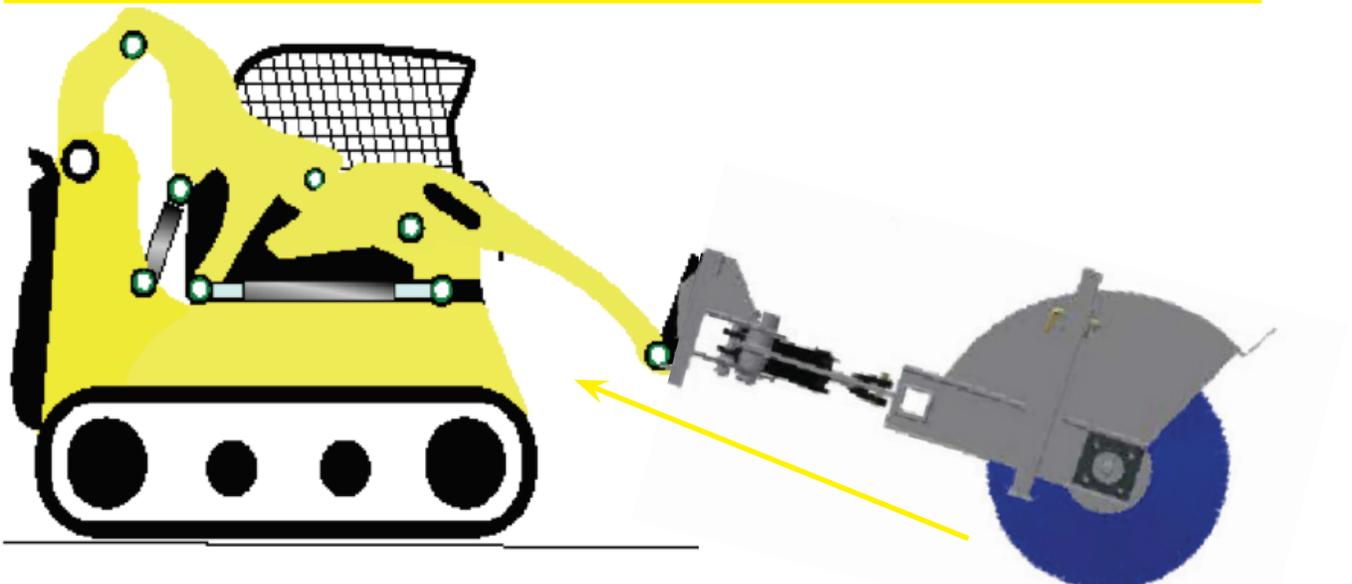
Tilting a spinning broom too far forward in an elevated position could result in serious injury if debris from the broom is thrown towards the operator.

- When sweeping parking lots, begin sweeping in the middle of the area, and sweep to both sides.
- When sweeping debris, make sure you adjust the rotation speed of the bristles to prevent throwing excessive debris. The amount of debris thrown depends on the type of material and density.
- Dust can be minimized by using a lower brush speed.
- Sweeping is most efficient if dirt is slightly moist.
- Sweep dirt/dust when the wind is calm.
- Sweep in the direction of the wind.
- Do not exceed 3 mph when sweeping heavy debris.
- Increase the engine RPM when sweeping heavy debris.
- Consider multiple passes when sweeping heavy debris.
- When sweeping heavy or wet snow, use a higher RPM setting and a reduced travel speed.

NOTICE

Excessive downward pressure on the broom will accelerate bristle wear and will not result in better sweeping efficiency.

USE CAUTION WHEN TILTING YOUR BROOM AS TOO MUCH TILT COULD CAUSE DEBRIS TO HIT THE OPERATOR AND CAUSE SERIOUS INJURY OR DEATH.



SECTION 4

MAINTENANCE PROCEDURES

The maintenance procedures described in this manual should only be carried out by qualified mechanics who have been trained to repair this attachment.

Some procedures require special tools and skills to complete. **DO NOT** attempt to repair or perform service work on this attachment unless you have the skills and tools to do so. Contact your local dealer for maintenance and repair services.

WARNING

PARTS

Only use genuine **MANUFACTURER** replacement parts on this attachment. We will not be liable for any damages or injuries caused by the use of after market parts on this attachment.

NOTICE

Improper maintenance or modifications to the design or performance of this attachment will void the warranty. **ONLY** use genuine replacement parts on this attachment.

Safety Instructions

Obey the following safety instructions when servicing or repairing this attachment.

-  **Wear proper Personal Protective Equipment (PPE) while working on this attachment, which may include safety glasses, hard hats, steel toe boots, gloves, etc.**
-  **If servicing is performed while the broom is attached to the machine, turn engine off, set parking brake and chock wheels to prevent machine from moving.**
-  **Ensure all jack stands, lifts and hoists are in good working condition and have the rated load capacity to support the load.**
-  **Only perform service work in a well-lit area.**
-  **Allow the attachment to cool down before servicing this attachment. Hot oils can burn your skin.**
-  **NEVER work under an unsupported broom.**

4.1 MAINTENANCE SCHEDULE.

This broom attachment will provide years of dependable service if routine maintenance procedures are performed. The maintenance tasks listed below are based on normal operating conditions. More frequent maintenance may be necessary with intense use or when operating in adverse environmental conditions.

MAINTENANCE TASK	BEFORE EACH USE	WEEKLY	YEARLY
<p>Check host machine’s hydraulic fluid level. Add manufacturer recommended fluid as necessary.</p> <p><i>Please refer to our “Hydraulic Fluid and Oil Statement” on Page 5 for gear oil or hydraulic fluid instructions.</i></p>	X		
<p>Check that all fasteners (nuts, bolts, washers, pins, keepers) are in place. Tighten as necessary.</p>	X		
<p>Inspect and replace any worn, torn, or missing safety decals.</p>	X		
<p>Inspect hydraulic hoses and connectors for damage or leakage. Repair or replace hydraulic items as necessary.</p>	X		
<p>Lubricate all pivot joints using #2 lithium grease.</p>	X	X	X
<p>Check the condition of the sweeper bristles.</p>		X	X
<p>Wash broom attachment</p>		X	
<p>Check broom for major scratches & dings. Sand and repaint these areas to prevent rust damage. *Contact the manufacturer for approved OEM paint for your attachment.</p>			X

Document all maintenance and service activities performed on this attachment using the maintenance log sheets included at the end of this manual.

4.2 MAINTENANCE LOG INSTRUCTIONS



MAINTENANCE LOG



Use the log sheets at the back of the manual to document all routine maintenance and repair services performed on this attachment.

10. MAINTENANCE

MAINTENANCE LOG

DESCRIPTION OF MAINTENANCE/REPAIR	SERVICED BY:	DATE:
<i>Replace Filter Blades</i>	<i>Joe Smith</i>	01/24/24
<i>Inspect Hydraulic Plumbing</i>	<i>Joe Smith</i>	02/25/24
<i>Change Oil in Bearing Housing</i>	<i>Joe Smith</i>	04/24/24

4.3 STORAGE TIPS

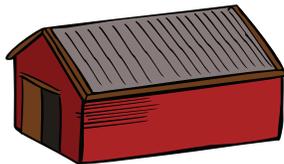
NOTICE

DO NOT store your broom while it is resting on the bristles as over time, the weight of the attachment will warp or distort the shape of the bristles.

Rest brackets are mounted on each side of the broom and are designed to take the weight of the broom when not in use. The brackets can be extended and locked in place with a locking pin.



Ensure broom is free of debris, dirt and grease.



Store your broom in a dry shed or garage.



When storing your broom for the season, cover with a weather proof tarp to protect it from the elements.

4.4 ADJUSTING PICKUP BROOM PATTERN

To get the best performance out of your pickup broom, adjust the brush so that it contacts the ground and makes a 2-4" wide pattern that runs the length of the brush.

INSPECT BRUSH PATTERN:

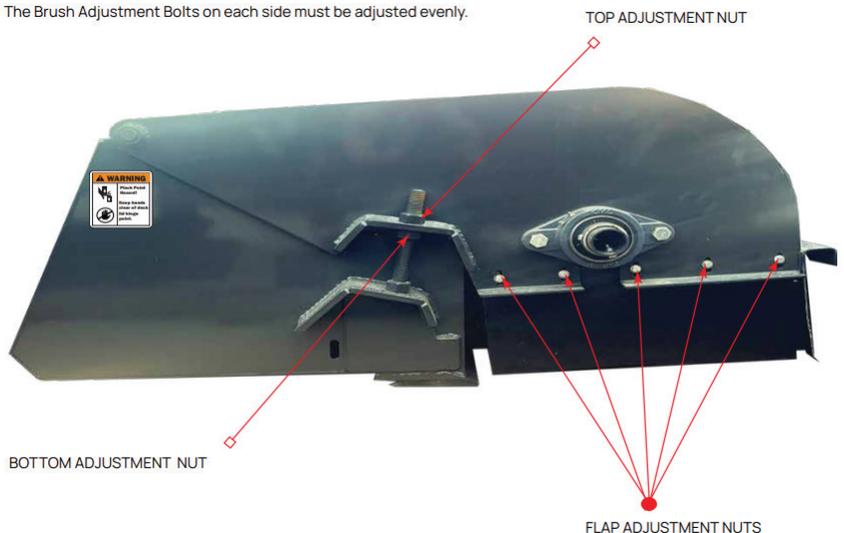
1. Move the machine and broom attachment to a flat and dusty surface.
2. Start the sweeper then lower to the operating position. (Bottom of bolt-on-edge should be 1" off the ground.)
3. After 10-15 seconds, raise the sweeper, deactivate the auxiliary hydraulic circuit, set parking brake, shut down machine engine, and exit the cab.
4. Inspect the brush pattern left on the dusty surface. A properly adjusted brush will leave a brush pattern that is 2-4 " wide and runs the length of the brush.



ADJUSTING BRUSH PATTERN:

1. Loosen the bottom nuts of the brush adjustment bolts.
2. If the pattern was wider than 4", loosen the top nuts to decrease the pattern. If the pattern was less than 2" wide, tighten the top nuts to increase the pattern.
3. After pattern is set, tighten the bottom nuts of the brush adjustment bolts.
4. Adjust the side flaps so they slightly touch the ground.

The Brush Adjustment Bolts on each side must be adjusted evenly.



4.5 REPLACING BROOM WAFERS ON THE PICK UP BROOM

! DANGER

When replacing bristles and/or hub, a two (2) person team is REQUIRED along with SAFETY HOISTS or SUPPORTS.

REMOVING BROOM WAFERS:

1. Position the broom on a flat hard surface and disconnect the hydraulic hoses.
2. Remove the rubber flaps on each side of the sweeper.
3. Remove the motor mount hardware.
4. Ensure sweeper body is disconnected from broom core, then using an overhead hoist, raise the broom deck lid off the broom core and roll the broom core away from broom bucket.
5. Remove end retainer from one broom core end and remove wafers.



! CAUTION

The sweeper deck lid is very heavy. To prevent a serious injury, use an overhead hoist with the proper lifting rig to raise and support the deck lid.

! DANGER

Do not place any part of your body under an unsupported attachment deck to prevent serious injury or death.

INSTALLING BROOM WAFERS:

1. Stand the broom core on end with a retaining plate in place.
2. Install wafers making sure retention pins are trapped on broom drum bar.
3. Continue installing wafers alternating bristle types. Retention pins should alternate 180 degrees.
4. Install the retaining plate after the last wafer and lower the broom housing core to the ground.
5. Install the bearing plate.
6. Install the motor mount brackets.
7. Install the side rubber flaps. (Adjust as necessary.)
8. After replacing the broom bristles, adjust the broom height to make sure bristles are not being mashed or damaged to prevent excessive wear.



4.6 TORQUE SPECIFICATION TABLE AND INSTRUCTIONS

BOLT TORQUE INSTRUCTIONS

1. Apply and maintain proper torque on all bolts.
2. Torque values are based on lubricated values. **Do not grease or oil bolts.**
3. Wipe bolts clean and use Loctite 635 or equivalent before tightening bolts. May need curing activator.
4. Use a torque wrench to assure the proper amount of torque is being applied to the bolt.
5. **MUST CURE 72 HOURS BEFORE USE TO PREVENT LOOSENING OF BOLTS.**

TORQUE VALUES

SAE GRADE 8

	DRY	LUBRICATED
	lb.-ft.	lb.-ft.
1/4"	12	9
5/16"	24	18
3/8"	45	35
1/2"	110	80
3/4"	380	280
7/8"	600	450
1"	910	680
1 1/4"	1820	1360
1 1/2"	3162	2688

4.7 TORQUE EQUIPMENT REQUIREMENTS

TOOLS & EQUIPMENT REQUIREMENTS

To complete the maintenance procedures described in this section, you may need the following tools:

- 1/2 inch drive breaker bar
- 3/4 inch impact socket
- 1/2 inch impact socket
- Tapping Hammer
- 1/2 inch drive torque wrench
- Nylon pry bar set
- Safety stands
- **Loctite 635 or Equivalent-MUST CURE 72 HRS**
- Lifting device (overhead crane hoist, forklift)



NOTE:

When removing bolts with Loctite, it will be necessary to apply localized heat of at least 250 degrees Celsius or to 482 degrees Fahrenheit to loosen bolts.

LOCTITE 635 TECHNICAL SPECIFICATIONS FOR BONDING, CURING, REMOVAL AND INSTALLATION CAN BE FOUND HERE:

<https://next.henkel-adhesives.com/>

SECTION 5

TROUBLESHOOTING

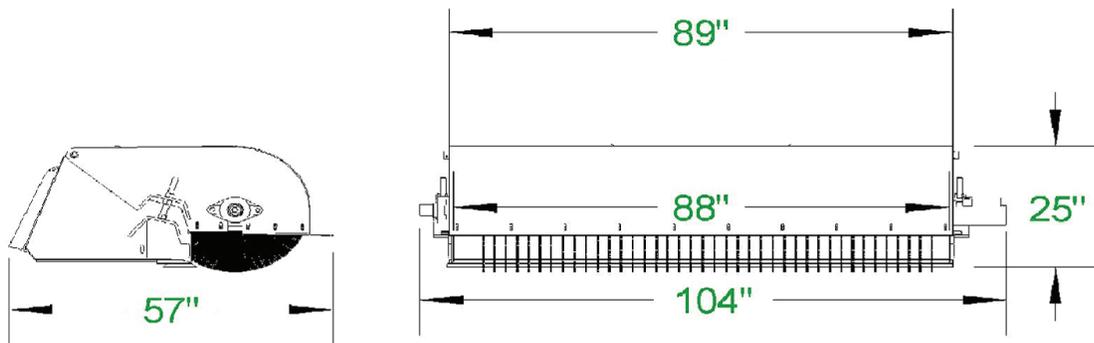
PROBLEM	POSSIBLE CAUSE	SOLUTION
Broom bogs down or loses power.	<p>Broom is not leveled properly. Foreign material is “balling” under broom.</p> <p>Bearing failure-(To diagnose, shut off hydraulic flow to broom then slowly rotate & listen for bearing noise.)</p> <p>Broom speed too slow or ground speed to fast.</p> <p>Hydraulic fluid flow too slow.</p>	<p>Remove excess foreign material from under the broom deck.</p> <p>See dealer for bearing housing service; replace bearing housing.</p> <p>Increase RPMs and reduce ground speed.</p> <p>Look for hydraulic leaks & repair.</p>
Excessive Vibration	<p>Missing, loose, damaged or unbalanced bristles.</p> <p>Bearing failure.</p>	<p>Replace bristle(s).</p> <p>Repair or replace bearing housing.</p>
Broom becomes uneven.	Broom receiving excessive shock loads from contacting solid objects (rocks, steel pipes, etc.)	Clear the sweeping area of solid objects, raise broom height to clear exposed rock surfaces.
Hydraulic fluid level goes down during operation.	Hydraulic motor leak, or leaks in host machine’s hydraulic system.	Investigate and repair leaks.
Broom does not rotate when activated.	<p>Incomplete circuit to and from motor.</p> <p>Motor failure.</p> <p>Hub failure.</p>	<p>Disconnect and reconnect hoses to machine.</p> <p>Replace motor.</p> <p>Replace hub.</p>
Broom turns, but does not swing.	No electrical power to controller or solenoid valves.	<p>1 Check in-line circuit fuse & replace if necessary.</p> <p>2 Check connections at solenoid valves.</p>

DANGER

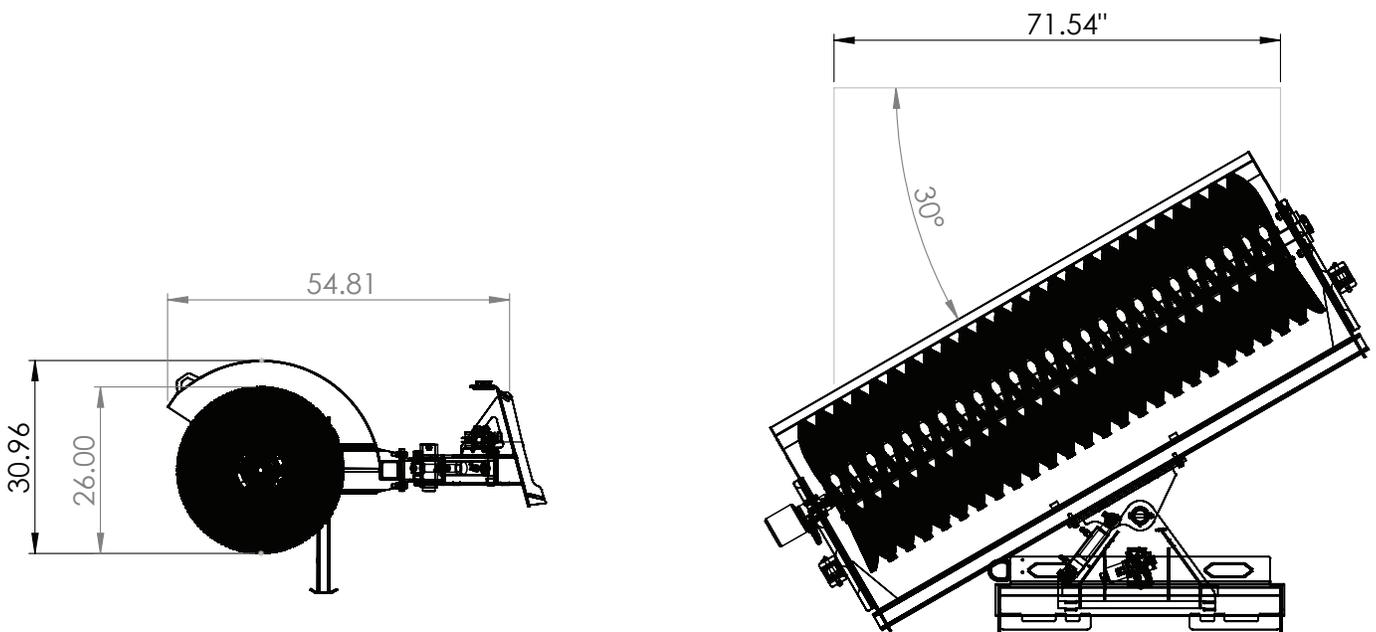
ONLY service the broom on stable, even terrain. NEVER park on sloped terrain to avoid being struck & killed or seriously injured by the unexpected rolling or movement of the machine.

SECTION 6

SPECIFICATIONS



PICKUP BROOM



84" HYDRAULIC ANGLE BROOM

SECTION 7

PARTS INFORMATION

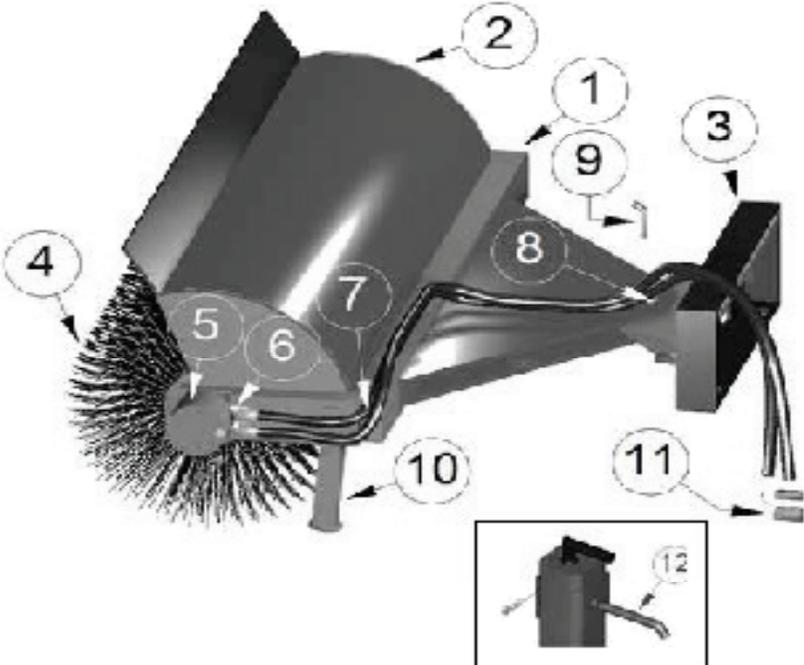
Factory fresh parts specifically designed for your attachment are readily available.

For hassle free service and to ensure you receive the correct parts for your attachment, please provide your dealer with the following information:

Model Number	
Serial Number	
GPM Requirements	
Date of Owners Manual (Bottom Left Corner of Cover Page)	
Parts Diagram Page Number	
Part Description	
Reference #	
Quantity Desired	
Ship To Information	
Bill To / Payment Information	

7.1 ANGLE BROOM DIAGRAM

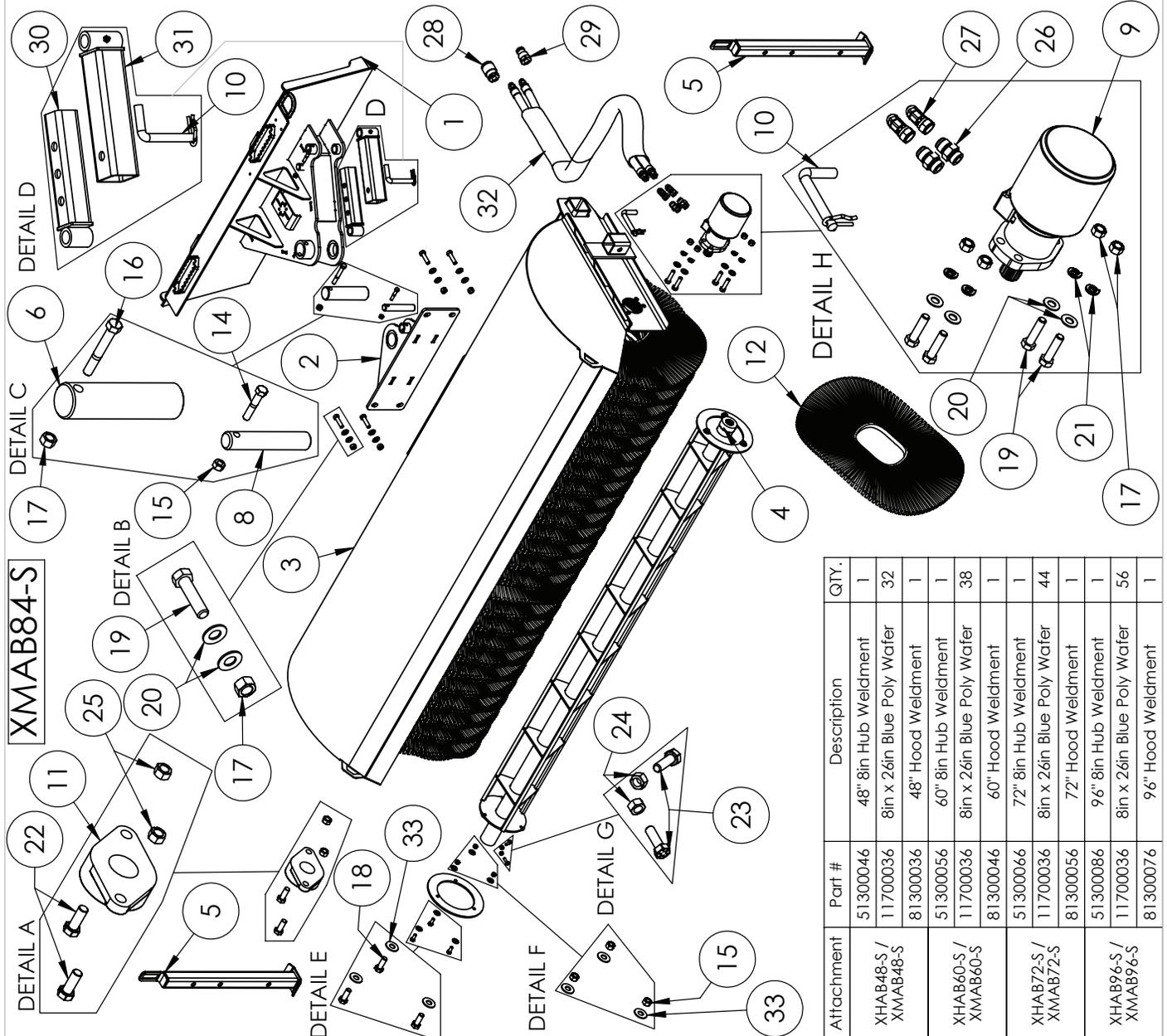
Manual Angle Broom Parts



Ref. No	Part Description	Qty
1	Main Frame	1
2	Hood	1
3	Attachment Plate	1
4	Bristle Assembly (specify steel or poly)	1
5	Motor	1
6	90 deg fitting	2
7	Hose	2
8	Pin, Angle Pivot	1
9	Pin, Angle Lock	1
10	Support Assembly	2
11	Couplers, Hyd. Flat-Face (set)	1
12	Pin & Keeper (rest support)	2
NS	Hose Protector Sleeve	1

7.2 X-TREME MANUAL ANGLE BROOM DIAGRAM

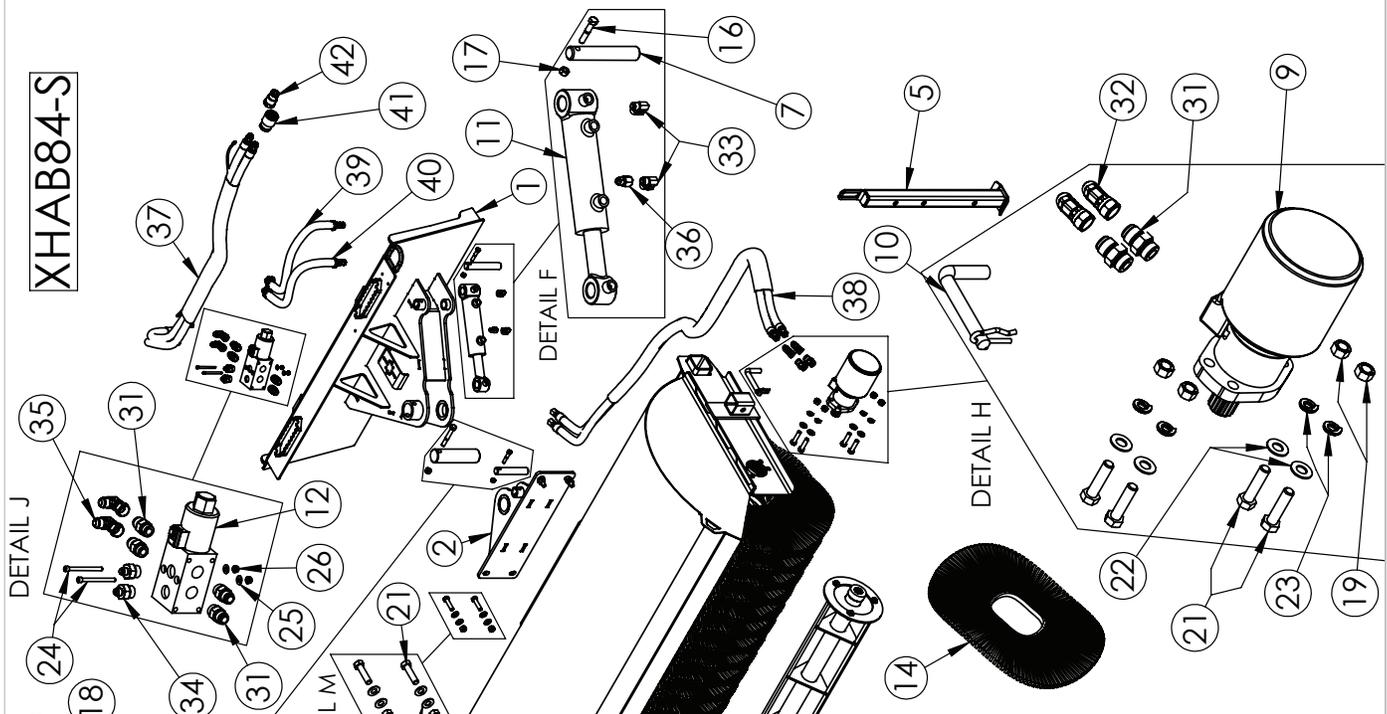
ITEM	Part #	DESCRIPTION	QTY.
1	81300016	Back Frame Weldment	1
2	81300026	Pivot Triangle Weldment	1
3	81300066	Hood Weldment	1
4	51300076	Hub Weldment	1
5	51300136	Broom Leg Weldment	2
6	20200176	2" D X 7.5" L Pin	1
7	20200186	1" D X 6" L Pin	1
8	10300046	1" D X 5.5" L Pin	1
9	40100036	Motor	1
10	41200016	Bent Hitch Pin	3
11	41100036	Bearing	1
12	11700036	Blue Poly Wafer	50
13	90200016	Wafer Retainer Plate	2
14	11200436	3/8"-16 X 2" Hex Bolt GR 8	2
15	11200136	3/8"-16 Lock Nut GR C	8
16	11200476	1/2"-13 X 3 1/2" Hex Bolt GR 2	1
17	11200446	1/2"-13 Lock Nut GR C	9
18	11200116	3/8"-16 X 1" Hex Bolt GR 8	6
19	11200156	1/2"-13 X 2" Hex Bolt GR 8	8
20	11200306	1/2" SAE Flat Washer GR 8 Z/YEL	12
21	11200176	1/2" Split Lock Washer GR 8	4
22	11200656	3/4"-16 X 2" Hex Bolt GR 8	2
23	11200586	5/16"-18 X 1" Hex Bolt GR 8	2
24	11200106	5/16"-18 Lock Nut GR C	2
25	11200216	3/4"-10 Lock Nut GR C	2
26	41000196	1/2"- 5/8" Motor Fitting	2
27	41000286	45° 1/2" Motor Fitting	2
28	41000116	1/2" Flat Coupler FE - Changeable	1
29	41000106	1/2" Flat Coupler M - Changeable	1
30	20900016	Front End of Manual Arm	1
31	20900026	Rear End of Manual Arm	1
32	53000016	1/2" D X 8' L Machine Hose	1
33	11200146	3/8" USS Flat Washer GR 8	12



Attachment	Part #	Description	QTY.
XHAB48-S/ XMAB48-S	51300046	48" 8in Hub Weldment	1
	11700036	8in x 26in Blue Poly Wafer	32
XHAB60-S/ XMAB60-S	81300036	48" Hood Weldment	1
	51300056	60" 8in Hub Weldment	1
XHAB72-S/ XMAB72-S	11700036	8in x 26in Blue Poly Wafer	38
	81300046	60" Hood Weldment	1
XHAB76-S/ XMAB76-S	51300066	72" 8in Hub Weldment	1
	11700036	8in x 26in Blue Poly Wafer	44
XHAB96-S/ XMAB96-S	81300056	72" Hood Weldment	1
	51300086	96" 8in Hub Weldment	1
	11700036	8in x 26in Blue Poly Wafer	56
	81300076	96" Hood Weldment	1

7.3 X-TREME HYDRAULIC ANGLE BROOM DIAGRAM

ITEM	Part #	DESCRIPTION	QTY.
1	81300016	Back Frame Weldment	1
2	81300026	Pivot Triangle Weldment	1
3	81300066	Hood Weldment	1
4	51300076	Hub Weldment	1
5	51300136	Broom Leg Weldment	2
6	20200176	2" D X 7.5" L Pin	1
7	20200186	1" D X 6" L Pin	1
8	10300046	1" D X 5.5" L Pin	1
9	40100036	Motor	1
10	41200016	Bent Hitch Pin	2
11	40000076	2" B X 4.5" Cylinder	1
12	40600076	Selector Valve	1
13	41100036	Bearing	1
14	11700036	Blue Poly Wafer	50
15	90200016	Wafer Retainer Plate	2
16	11200436	3/8"-16 X 2" Hex Bolt GR 8	2
17	11200136	3/8"-16 Lock Nut GR C	8
18	11200476	1/2"-13 X 3 1/2" Hex Bolt GR 2	1
19	11200446	1/2"-13 Lock Nut GR C	9
20	11200116	3/8"-16 X 1" Hex Bolt GR 8	6
21	11200156	1/2"-13 X 2" Hex Bolt GR 8	8
22	11200306	1/2" SAE Flat Washer GR 8 Z/YEL	12
23	11200176	1/2" Split Lock Washer GR 8	4
24	11200826	1/4"-20 X 3" Socket Bolt	2
25	11200066	1/4" SAE Lock Washer GR 8	2
26	11200076	1/4"-20 Lock Nut GR C	2
27	11200656	3/4"-16 X 2" Hex Bolt GR 8	2
28	11200586	5/16"-18 X 1" Hex Bolt GR 8	2
29	11200106	5/16"-18 Lock Nut GR C	2
30	11200216	3/4"-10 Lock Nut GR C	2
31	41000196	1/2" - 5/8" Motor Fitting	6
32	41000286	45° 1/2" Motor Fitting	2
33	41000016	3/8" 90° Fitting	2
34	41000296	9/16" Straight Fitting	2
35	41000306	3/4" 90° Fitting	2
36	41000056	3/8" - .031" Restrictor Fitting	1
37	53000056	1/2" D X 6' L Machine Hose	1
38	52500016	1/2" D X 66" L Motor Hose Kit	1
39	52400016	3/8" D X 21" L Hose Kit	1
40	52400026	3/8" D X 18" L Hose Kit	1
41	41000116	1/2" Flat Coupler FE - Changeable	1
42	41000106	1/2" Flat Coupler M - Changeable	1
43	11200146	3/8" USS Flat Washer GR 8	12



Attachment	Part #	Description	QTY.
XHAB48-S / XMAB48-S	51300046	48" Hub Weldment	1
	11700036	8in x 26in Blue Poly Wafer	32
	52500036	1/2" D X 46" L Motor Hose Kit	1
XHAB60-S / XMAB60-S	81300036	48" Hood Weldment	1
	51300056	60" Hub Weldment	1
	11700036	8in x 26in Blue Poly Wafer	38
XHAB72-S / XMAB72-S	52500026	1/2" D X 60" L Motor Hose Kit	1
	81300046	60" Hood Weldment	1
	51300066	72" Hub Weldment	1
XHAB76-S / XMAB76-S	11700036	8in x 26in Blue Poly Wafer	44
	52500026	1/2" D X 60" L Motor Hose Kit	1
	81300056	72" Hood Weldment	1
XHAB96-S / XMAB96-S	51300086	96" Hub Weldment	1
	11700036	8in x 26in Blue Poly Wafer	56
	52500046	1/2" D X 78" L Motor Hose Kit	1
	81300076	96" Hood Weldment	1

SECTION 8

WARRANTY INFORMATION

LIMITED WARRANTY

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

WARRANTY EXCLUSIONS

This warranty does not cover normal wear items, including but not limited to: bearings, hoses, blade holders, 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 improper application or installation, misuse, negligence, accidents or improper maintenance. Please note:

Any modification or customization made to your attachment may void its warranty. This warranty is void if any components have been disassembled, i.e., pumps, gear boxes or motors or the attachment has been used without the case drain attached (if applicable). Be sure to follow all recommended Horsepower and GPM requirements as outlined in product specifications, in order to prevent the warranty from being void.

This warranty is contingent upon the use of approved BRAND parts exclusively. Any use of non-approved parts may result in voiding the warranty. Please be advised that the warranty does not cover refurbished attachments. Specially modified attachments built by the manufacturer to meet your needs shall not be warranted by CID, Inc.

REPAIRS UNDER WARRANTY

Any repairs, including welding, on attachments must be performed by certified repair technicians who have requested and obtained written approval from an authorized representative of CID before repairs begin. If you are completing the repair, you must also have prior written approval to prevent the warranty from being voided.

WARRANTY STATEMENT

Our obligation under this Limited Warranty shall be solely limited to repairing or replacing any part (see non-covered items above) 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.

8.0 WARRANTY INFORMATION CONT.

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, businesses 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 replacement 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 products. No one but CID, Inc. is allowed to alter, modify or enlarge this warranty nor the exclusions, limitations and reservation at any time. CID, Inc. products are warranted to be free from defects in workmanship or materials for a period of 12 months from the initial sale.

Purchaser and Manufacturer hereby (a) submit to the non-exclusive jurisdiction of the courts of competent jurisdiction in North Carolina and Davidson County in which this company resides for resolution of any dispute concerning this Limited Warranty or the rights or obligations of Purchaser and/or Manufacturer; (b) agree that any litigation in connection with this Limited Warranty shall be venued in North Carolina and Davidson County in which the company resides and (c) waive any objection they may have as to any such action or proceeding brought in such court that such court is an inconvenient forum. Nothing herein shall limit the right of Purchaser or Manufacturer (or the right of any permitted successor or assign of either) to bring proceedings against the other in the courts of any other jurisdiction wherein any assets of such other party may be located.

8.1 WARRANTY RETURN AUTHORIZATION POLICY

WARRANTY RETURN AUTHORIZATION POLICY:

If repairs are required, a Return Material Authorization (RMA) number must be obtained for the defective part as well as proof of purchase. RMA and services are rendered by CID only. Any responsibility of shipping costs on any item returned for repair is at the discretion of CID, Inc.

All returned parts must have the following:

1. A legible RMA number written on the outside of the package.
2. Warranty Claim Form (online)
3. The defective part.

RMA numbers are only valid for 30 days from the date of issue. All shipped replacement parts will require a Parts Order (PO) number from the original CID, Inc dealer. Repairs not covered by the warranty, will be charged for parts and labor at the current pricing rate. Should you have any problems with your attachment, please follow the instructions listed on the following page.

8.2 WARRANTY PROCEDURE

WARRANTY RETURN AUTHORIZATION PROCEDURE:

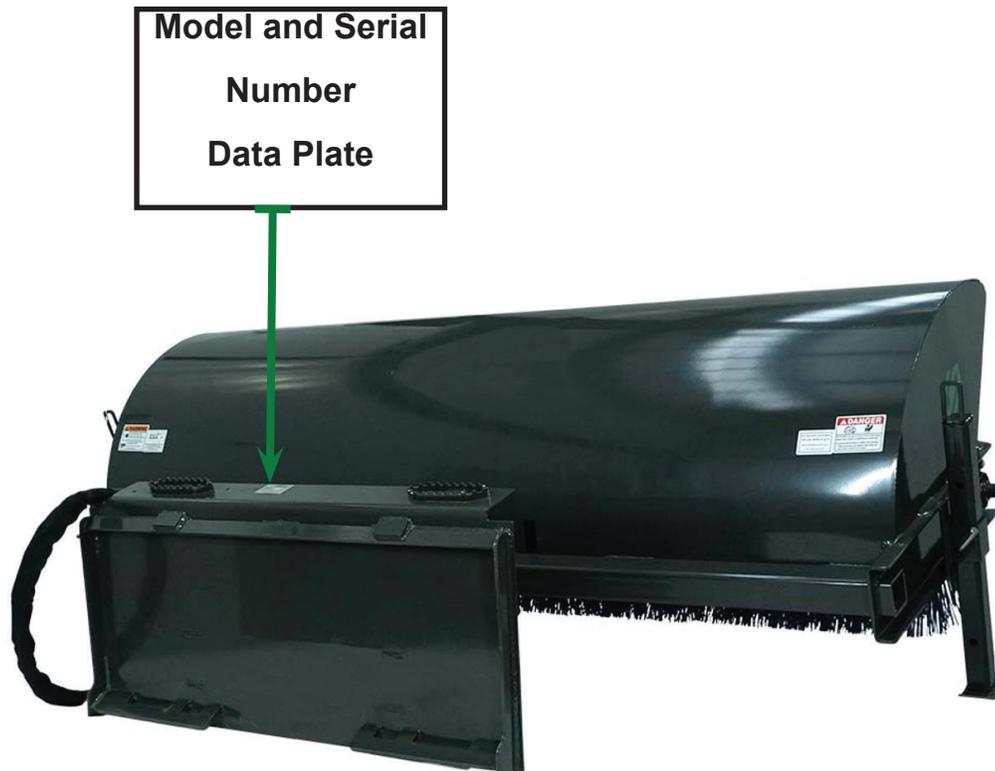
1. Call the Warranty Department at (336) 859-2002 EXT 215. You will need to provide the model and serial number of the defective item(s) (see Appendix for where to find this information), a description of the problem, and have photographs available.
2. Upon a warranted issue, visit www.cidattachments.com, click on the warranty tab, and fill in the warranty information on the Warranty Claim Form.. CID, Inc will retain a Return Material Authorization (RMA) number of the defective part. If all the information above is completed CID, Inc will issue a RMA number via email..
3. Once you have an approved RMA number, a shipping label will be provided with CID's address and instructions for returning the defective part. **Appropriate RMA's/PO's will be invoiced and payment received while the evaluation process is being completed to prevent delays in your normal business operations. In the event the defective part(s) is un-warranted and repairs are not covered by the warranty, the customer will be invoiced for any additional parts and labor at the current pricing rate. If the part is deemed under warranty, a credit of the invoice will be issued.**
4. CID will ship a replacement part to the provided location or customer with a RMA identifier of some kind. **The customer is responsible for initial shipping charges until evaluation of the part has been completed.** If the part failure is covered by the warranty, the customer will be reimbursed for any paid shipping charges. In the event, the part is not covered by the warranty, the customer is responsible for return shipping.
5. Once the defective part is warranted by CID, the customer will be issued a credit and the PO number will no longer be active.
6. In the event CID decides that the attachment needs to be returned to them for repair, CID will make arrangements for pickup and return. Repairs will be performed by CID qualified technicians. Non-warranted issues will be discussed, and repairs will be performed upon the owner's agreement and receipt of payment for parts and labor.

APPENDIX A FINDING YOUR MODEL AND SERIAL NUMBER

The Model and Serial numbers will be in one of (2) places and will either be etched into the attachment or on a Data Plate.

Instructions: Stand at the back of the attachment facing the attachment mounting bracket and look in the following locations:

1) Back- left or right



PLEASE NOTE: The Model and Serial number may be etched or on a Data Plate.

Disclaimer: Any critical changes made to this manual by individuals outside the manufacturer's authorized personnel are doing so at their own risk. The manufacturer cannot be held legally responsible for any consequences, damages, or liabilities resulting from such modifications. It is advised to adhere strictly to the original manual provided by the manufacturer for optimal performance, safety, and reliability.



**CONSTRUCTION IMPLEMENT DEPOT
DENTON-USA, LLC
1248 N. MAIN ST
DENTON, NC 27239**

www.CIDATTACHMENTS.COM



CIDBRMANU-V2M0924