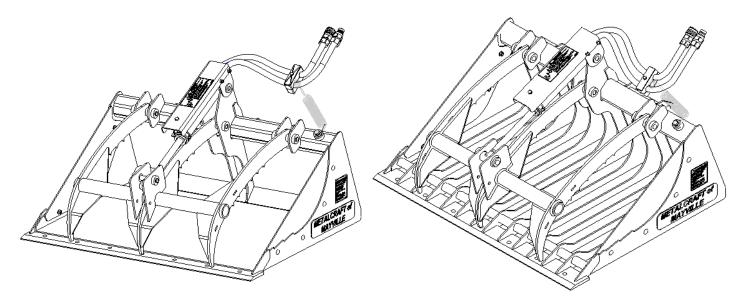




Grapple Buckets

Model: GRP-BUC-MSS-40W-NE GRP-BUC-MSS-53W-NE GRP-RCK-MSS-40W-NE



Congratulations on owning a Metalcraft of Mayville grapple bucket! This manual contains the operating instructions and safety information for your Metalcraft of Mayville grapple bucket. Reading this manual can provide you with assistance in maintenance procedures to keep your attachment performing to maximum efficiency. The specific models that this book covers are listed on the inside cover. Before operating your attachment, please read all the information enclosed.

PART NO. 03594 PRINTED 10/2024 PRINTED IN USA

A WARNING

FAILURE TO FOLLOW SAFE OPERATING PRACTICES MAY RESULT IN SERIOUS INJURY OR DEATH.

- Read this manual completely as well as other manuals that came with your loader.
- DO NOT operate on steep slopes.
- Under no circumstances should the loader be operated on slopes greater than 15 degrees. ALWAYS FOLLOW OSHA APPROVED OPERATION.
- Keep all guards in place, especially hydraulic hose sleeves.
- Before performing any maintenance or service, stop the engine, set the parking brake and remove the ignition key.
- If a mechanism becomes clogged, stop the engine before cleaning.
- Keep hands, feet and clothing away from grapple while in use.

REMEMBER - YOUR LOADER AND GRAPPLE ARE ONLY AS SAFE AS THE OPERATOR!

HAZARD CONTROLAND ACCIDENT PREVENTION ARE DEPENDENT UPON THE AWARENESS, CONCERN, PRUDENCE, AND PROPER TRAINING OF THE PERSONNEL INVOLVED IN THE OPERATION, TRANSPORT, MAINTENANCE, AND STORAGE OF THE EQUIPMENT.

This manual covers the operating instructions and illustrated parts list for:			
GRP-BUC-MSS-40W-NE with a serial number of 009C00000 to 009C99999			
GRP-BUC-MSS-53W-NE	with a serial number of	012C00000 to 012C99999	
GRP-RCK-MSS-40W-NE with a serial number of 010C00000 to 010C99999			
Always use the entire serial number listed on the serial number tag when referring to this product.			



TABLE OF CONTENTS

SECTION 1 - GENERAL INFORMATION	
1.1 INTRODUCTION	
1.3 SERVICING THE ATTACHMENT	
1.4 SYMBOLS	
SECTION 2 - SAFETY INFORMATION	3
2.1 INTRODUCTION	3
2.2 SIGNAL WORDS	-
2.3 BEFORE OPERATION CONSIDERATIONS	
2.4 OPERATION CONSIDERATIONS	
2.5 MAINTENANCE CONSIDERATIONS & STORAGE	
2.6 SAFETY AND INSTRUCTIONAL DECALS	5
SECTION 3 - SPECIFICATIONS	6
3.1 GENERAL	6
3.2 WEIGHTS	6
3.3 DIMENSIONS	6
SECTION 4 - OPERATING INSTRUCTIONS	7
4.1 UNPACKING THE ATTACHMENT	7
4.2 COMPONENT IDENTIFICATION	
4.3 MOUNTING AND DISMOUNTING THE ATTACHMENT	
4.4 HANDLING LOADS	
4.5 OPERATION ON SLOPES	
4.6 AFTER OPERATION	10
SECTION 5 - MAINTENANCE	11
5.1 MAINTENANCE CHART - RECOMMENDED SERVICE INTERVALS	11
5.2 MAINTENANCE CONSIDERATIONS & STORAGE	
5.3 ATTACHMENT INSPECTION	12
SECTION 6 - ILLUSTRATED PARTS LIST	13
6.1 METALCRAFT OF MAYVILLE SERVICE/REPLACEMENT PARTS	13
LIMITED WARRANTY - ATTACHMENTSINSIDE BACK COVE	ER

Section 1



GENERAL INFORMATION

1.1 INTRODUCTION

Your attachment was built to the highest standards in the industry. However, the prolonged life and maximum efficiency of your attachment depends on you following the operating, maintenance and adjustment instructions in this manual.

If additional information or service is needed, contact your Metalcraft of Mayville authorized dealer.

We encourage you to contact your dealer for repairs. All Metalcraft of Mayville authorized dealers are informed of the latest methods to service this equipment and provide prompt and efficient service in the field or at their service shop. They carry a full line of Metalcraft of Mayville service parts.

- IMPORTANT -

The replacement of any part on this product by other than the manufacturer's authorized replacement part may adversely affect the performance, durability or safety of this product.

Use of other than original Metalcraft of Mayville replacement parts will void the warranty.

When ordering parts, always give the model and serial number of your attachment. The bucket serial number tag is located on the right rear wall of the weldment as shown in Figure 1-1.

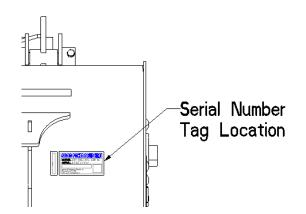


Figure 1-1. Bucket Serial Number Tag Location

For pictorial clarity, some illustrations and figures in this manual may show shields, guards or plates open or removed. Under no circumstances should your bucket be operated without these devices in place.

All information is based upon product information available at the time of approval for printing. Metalcraft of Mayville reserves the right to make changes at any time without notice and without incurring any obligation.

1.2 DIRECTION REFERENCE

The "Right" and "Left", "Front" and "Rear" of the attachment and loader are referenced from the operator's right and left when in the normal operating position of the loader and facing the forward travel direction.

1.3 SERVICING THE ATTACHMENT

The detailed servicing and repair of the attachment is not covered in this manual; only routine maintenance and general service instructions are provided. For service of the attachment during the limited warranty period, it is important to contact your Metalcraft of Mayville authorized dealer or find a local authorized servicing agent of the component manufacturer. <u>Any unauthorized work done on the attachment during the warranty period may void your warranty</u>.



CYLUD OL	DESCRIPTION	SYM (D.O.)	DESCRIPTION	
SYMBOL	DESCRIPTION Falling Hazard	SYMBOL	DESCRIPTION Thrown Object Hazard	
	Pinch Point	C E	CE Mark	
	Do Not place any part of the body on attachment. Do Not place any part of body below attachment.		Read Operators Manual	
Image: Constraint of the service on your hydraulic system, please see your Authorized Dealer. Hydraulic fluid Leak Warning Hydraulic fluid is under high pressure. Hydraulic fluid under high pressure. Never use hands to check for leaks. Hydraulic fluid is injected into the skin, it must be surgically removed by a doctor or gangrene may result. If you need service on your hydraulic system, please see your Authorized Dealer. 487950				



SAFETY INFORMATION

2.1 INTRODUCTION

Your attachment and loader are only as safe as the operator. Carelessness or operator error may result in serious bodily injury or death. Hazard control and accident prevention are dependent upon the awareness, concern, prudence, and proper training of the personnel involved in the operation, transport, maintenance and storage of the equipment. Make sure every operator is properly trained and thoroughly familiar with all of the controls before operating the loader and this attachment. The owner/user can prevent and is responsible for accidents or injuries occurring to themselves, other people or property.

READ THIS OPERATOR'S MANUAL BEFORE ATTEMPTING TO USE YOUR ATTACHMENT.

A replacement manual is available from your Authorized Service Dealer or by contacting Scag Power Equipment, Service Department at P.O. Box 152, Mayville, WI 53050 or contact us via the Internet at www.scag.com. The manual for this attachment can be downloaded by using the model and serial number or use the contact form to make your request. Please indicate the complete model and serial number of your Metalcraft of Mayville product when requesting replacement manuals.

2.2 SIGNAL WORDS



This symbol means "Attention! Become Alert! Your Safety is Involved!" The symbol is used with the following signal words to attract your attention to safety messages found on the decals on the attachment and throughout this manual. The message that follows the symbol contains important information about safety. To avoid injury and possible death, carefully read the message! Be sure to fully understand the causes of possible injury or death.

SIGNAL WORD:

It is a distinctive word found on the safety decals on the attachment and throughout this manual that alerts the viewer to the existence and relative degree of the hazard.

The signal word "DANGER" denotes that an extremely hazardous situation exists on or near the equipment that could result in high probability of death or irreparable injury if proper precautions are not taken.

The signal word "WARNING" denotes that a hazard exists on or near the equipment that can result in injury or death if proper precautions are not taken.

The signal word "CAUTION" is a reminder of safety practices on or near the equipment that could result in personal injury if proper precautions are not taken.

Your safety and the safety of others depends significantly upon your knowledge and understanding of all correct operating practices and procedures of the loader and this attachment.

2.3 BEFORE OPERATION CONSIDERATIONS

- NEVER allow children to operate this attachment. Do not allow adults to operate this attachment without proper instructions.
- 2. DO NOT operate when children and/or others are present. Keep children out of the operating area and in the watchful care of a responsible adult other than the operator. Be alert and turn the loader off if a child enters the area.
- 3. DO NOT allow children to ride or play on the loader or this attachment, they are not toys.
- 4. DO NOT carry passengers on the loader or on this attachment.
- 5. NEVER put any part of the body into, onto, or beneath the attachment, or between the attachment and the loader.



- 6. DO NOT operate the machine under the influence of alcohol or drugs.
- 7. ALWAYS wear adequate protective clothing. Loose clothing, jewelry or long hair could get tangled in moving parts.
- 8. Wearing safety glasses, hearing protection, gloves, safety shoes and a helmet is advisable and is required by some local ordinances and insurance regulations.
- 9. Read and understand all safety decals on the loader and on this attachment.
- 10. Verify the attachment is properly installed to the loader, and that all hardware is fully tightened and locked in place.
- 11. Keep the loader and attachment in good operating condition. Keep all shields, safety devices, and decals in place. If a shield, safety device or decal is defective or damaged, repair or replace it before operating the machine.
- If the operator(s) or mechanic(s) cannot read English, it is the owner's responsibility to explain this material to them.

2.4 OPERATION CONSIDERATIONS

DO NOT permit untrained personnel to operate the machine.

Reduce speed and use extreme caution when carrying a load, when turning, or when operating on slopes and slick or wet surfaces. Allow extra distance to stop.

Under no circumstances should the loader be operated on slopes greater than what it is rated for. See the loader's operator's manual for slope requirements.

Rated lift capacity is based on operation with the loader on level and firm supporting ground. Use caution when the loader is operated in other conditions.

1. KNOW the function of all controls and how to stop quickly.

- 2. NEVER handle loads that exceed the capacity of the loader or the attachment, whichever is less.
- 3. KEEP the loads centered and balanced on the attachment to prevent tipping.
- 4. NEVER start or operate the loader or attachment from any place other than from the designated operator's position.
- 5. To prevent tipping or loss of control, operate the machine smoothly. No sudden starts or stops. No sudden or sharp turns. Use care when backing up.
- 6. Especially when carrying a load, reduce speed and exercise extreme caution on slopes and in sharp turns to prevent tipping or loss of control. Avoid changing directions on slopes.
- 7. Cautiously enter a new area and be alert for hidden hazards. Before operating, check the area carefully for overhead obstructions (i.e. power lines, branches, doorways, etc.), and ground obstacles (holes, rocks, roots, etc.).
- Maintain a safe distance from the edge of ramps, platforms, ditches, and other drop-offs. The machine could suddenly roll over if a wheel goes over the edge or if the edge caves in.
- 9. Work only in daylight or good artificial light.
- 10. Do not operate in severe weather.
- 11. Take all possible precautions when leaving the machine unattended, such as lowering the attachment, setting the parking brake, stopping the engine, and removing the key.
- 12. The machine and attachment should be stopped and inspected for damage after striking a foreign object, and damage should be repaired before restarting and operating the equipment.
- 13. Use care when approaching blind corners, shrubs, trees, or other objects that may obscure vision.

2.5 MAINTENANCE CONSIDERATIONS & STORAGE

- 1. NEVER make adjustments to the attachment with the loader engine running.
- 2. NEVER straighten, weld, or in any way modify grapple, bucket or bucket mount.
- 3. NEVER allow untrained personnel to service the machine or the attachment.



- 4. Lower attachment, set parking brake, stop engine and remove key to prevent accidental starting of the engine when servicing, adjusting, or cleaning the attachment.
- 5. Keep all nuts, bolts and screws tight, to ensure the machine is in safe working condition. Check attachment hardware frequently.
- 6. To reduce fire hazard, and facilitate detection of any damages, keep the attachment clean and free of excessive grease, oil, dirt, and other debris.
- 7. Keep all parts in good working condition. Replace all worn or damaged decals.
- 8. Store the attachment in a clean, dry environment that is protected from weather.

Before making any adjustments to the attachment, shut the loader engine off and remove the ignition key.

Avoid placing hands or fingers between the grapple and bucket as this could cause pinching.

Verify all grapple pins are properly locked in place with mounting hardware before using the attachment. Failure to do so may result in injury or death.

2.6 SAFETY AND INSTRUCTIONAL DECALS



P/N 487949





SPECIFICATIONS

3.1 GENERAL

Capacity	
42.5" bucket	

3.2 WEIGHTS

42.5" Grapple Bucket	
Rock Grapple Bucket	
55" Grapple Bucket	

3.3 DIMENSIONS

42.5" Grapple and Rock Grapple Buckets Overall Length Overall Depth Overall Height	
Inside Length	40" (1016mm)
Inside Depth	32" (813mm)
Inside Height.	14" (356mm)
53" Grapple Bucket Overall Length Overall Depth Overall Height	36" (914mm)
Inside Length	53.5" (1359mm)
Inside Depth	32" (813mm)
Inside Height	14" (356mm)



OPERATING INSTRUCTIONS

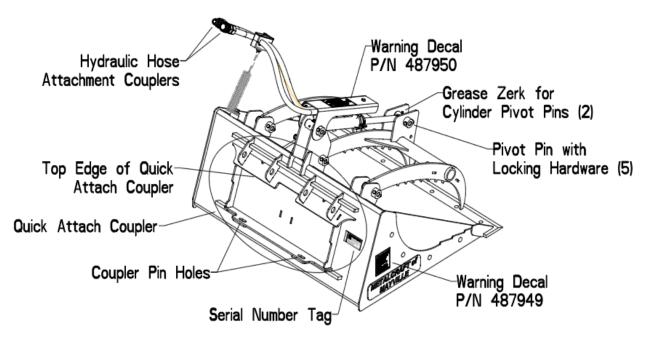


Figure 4-1. Grapple Bucket Key Components

Do not attempt to operate this attachment unless you have read this manual. Learn the location and purpose of all the attachment's and loader's controls and instruments before you operate this attachment.

4.1 UNPACKING THE ATTACHMENT

Use caution when first unpacking the attachment as the straps may be under great tension. Safety glasses and gloves should be worn while removing straps.

4.2 COMPONENT IDENTIFICATION

Before operating the attachment, familiarize yourself with all components and controls. Knowing the location, function and operation of these is important for safe and efficient operation of the attachment.

1. Mount (Figure 4-1). The quick attach coupler on the rear of the bucket is used to mount the attachment to the loader. See Section 4.3 for bucket mounting and dismounting instructions.

- 2. Hydraulic hose attachment couplers, when attached to loader, provide hydraulic fluid to the grapple for operation. See loader owners manual for location and installation instructions.
- **3. Grease zerks** on each end of the cylinder must have grease added for smooth operation and improved service life.



4.3 MOUNTING AND DISMOUNTING THE ATTACHMENT

WARNING

Shut off of the loader engine when leaving operators position to mount, dismount, or make adjustments to the attachment.

Verify coupler pins fully extend through the slots on the attachment, and that all mechanisms are in the locked position prior to using. Failure to do so may cause the attachment to detach while operating, and could result in injury or death.

Read the loader's operator's manual for more details on mounting and dismounting attachments. Refer to Figure 4-1 for attachment mount terminology.

MOUNTING THE ATTACHMENT

-IMPORTANT-

Before Installing The Attachment, Position Machine On Level Surface, Clean Mounting Plates Of Any Dirt Or Debris And Check Quick Attach Pins For Free Movement. If The Pins Do Not Rotate Freely, Grease Them.

- 1. Tilt the quick attach coupler on the loader forward slightly.
- 2. Align the loader and bucket mount quick attach couplers.
- 3. Hook the top edge of the loader quick attach coupler under the top edge of the attachment quick attach coupler.
- 4. Slowly and gently tilt the loader quick attach coupler backward, until the attachment mount is lifted and slides into place.
- 5. Turn off the loader engine and remove the key.
- 6. Slide the coupler pins through the loader and bucket mount coupler pin holes to lock the attachment into place.
- 7. Engage the pin locking mechanism.
- 8. Verify the pins are secure. Check for other loose hardware and tighten as needed.
- 9. Connect hydraulic quick connect couplers to loader.

Hydraulic fluid escaping under pressure can penetrate skin and cause injury. Fluid injected into the skin must be surgically removed within a few hours by a doctor or gangrene may result.

Keep your body and hands away from pin hole leaks that eject high-pressure hydraulic fluid.

Ensure that all hydraulic fluid hoses and lines are in good condition and all connections and fittings are tight before applying pressure to the hydraulic system.

Use paper to find hydraulic leaks; NEVER use your hands.

DISMOUNTING THE ATTACHMENT

Hydraulic couplers, lines, valves and fluid may be hot. If you contact hot components, you may be burned.

Wear gloves when disconnecting couplers. Allow machine to cool before touching hydraulic components. Do not touch fluid spills.

- 1. While on a level surface, lower the attachment to the ground.
- 2. Turn off the loader engine and remove the key.
- 3. Disconnect hydraulic quick couplers from loader.
- 4. Unlock and remove the coupler pins.
- 5. Turn on the loader.
- 6. Slowly and gently tilt the quick attach coupler on the loader forward to gently unhook the attachment and place it on the ground.
- 7. Drive the loader away from the attachment.



4.4 HANDLING LOADS

The load only needs to be lifted high enough for the bottom of the bucket to clear the ground or other obstacles. Do not lift higher than necessary.

Bucket loading

- 1. Open the grapple fully to use as a standard bucket.
- 2. Position the bucket level with the ground.
- 3. Drive forward and insert the bucket into the pile of material.
- 4. Before lifting, tip bucket back slightly and ensure good balance. Adjust as needed.
- 5. Slowly raise the bucket to the minimum height required for transport. Ideally 6 inches or less from ground.

Grapple loading

- 1. Open the grapple.
- 2. Position the bucket level with the ground.
- 3. Drive forward and insert the bucket into the pile of material. Grab loads from center for balance.
- 4. Before lifting, close the grapple and tip the bucket back slightly and ensure good balance. Adjust as needed.
- 5. Slowly raise the bucket to the minimum height required for transport. Ideally 6 inches or less from ground.

IF GRAPPLING FRAGILE ITEMS, CLOSE GRAPPLE SLOWLY WITH CARE AS NOT TO DAMAGE LOAD.

A WARNING

Do not attempt to lift loads that exceed the attachment's or loader's capacity, whichever is less. See the loader's operator's manual for loader capacity rating.

Rated lift capacity is based on operation with the loader on level and firm supporting ground. Use caution when the loader is operated in other conditions.

Before moving a load, observe the area for persons and obstructions. Clear the area before moving a load. Possible injury or property damage could occur.

Handle only stable and safely arranged loads.

For tall loads that obstruct the operator's view, travel with the load trailing.

Changes in load dimension may affect the attachment or loader lifting capacity.

Operate with extra caution when handling loads that cannot be centered.

If the weight of the load is not evenly distributed, it should be lifted with the heavier end of the load closest to the loader to prevent tipping.

TRANSPORTING THE LOAD

- 1. Do not greatly elevate the load except while picking up loads or dumping the bucket. Use caution while doing so.
- Slowly transport the load to the new location. Be aware of surroundings. Stop moving if bystanders or obstructions are present. Keep load close to ground.
- 3. Smoothly and slowly start, stop, turn, and reverse directions to prevent the load from shifting and to prevent tipping.
- 4. Be cautious when tilting the load forward or backward, especially when lifting and dumping loads.
- 5. Use only enough backward tilt to stabilize the load.



4.5 OPERATION ON SLOPES

WARNING

Reduce speed and use extreme caution when carrying a load, when turning, or when operating on slopes and slick or wet surfaces. Allow extra distance to stop.

Under no circumstances should the loader be operated on slopes greater than what it is rated for. See the loader's operator's manual for slope requirements.

On all grades, the load should be tilted back and raised only as high as necessary to clear the ground.

Rated lift capacity is based on operation with the loader on level and firm supporting ground. Use caution when the loader is operated in other conditions.

- 1. To prevent tipping or loss of control while operating on grades, ramps, or inclines:
 - A. Do not start or stop suddenly.
 - B. Travel at a reduced speed.
 - C. Avoid unnecessary turns.
 - D. Travel straight up and down the incline when possible.
- 2. The load should always be on the higher elevation to the operator. Travel in reverse when transporting a load downhill.
- 3. Angle the load to true horizontal when possible to prevent the load from sliding.
- 4. Raise the load only as high as necessary to clear the ground or other obstructions.

4.6 AFTER OPERATION

- 1. Wash the attachment as needed. Do not use high pressure spray or direct the spray onto the decals.
- 2. Keep the attachment clean and free of excessive debris to reduce fire hazard, facilitate detection of any damages, and ensure full life use.

- 3. Keep all nuts, bolts and screws tight, to ensure the machine is in safe working condition.
- 4. Replace any latches, hardware or hoses that are damaged or missing.
- 5. Verify all parts are in good working condition. Replace all worn or damaged decals.
- 6. Store the attachment in a clean, dry environment that is protected from weather.
- 7. Clean and cover Hose quick couplers to protect from dirt and debris.

MAINTENANCE

5.1 MAINTENANCE CHART - RECOMMENDED SERVICE INTERVALS

F	REQUENC	Y		
BEFORE & AFTER EACH USE	WEEKLY	ANNUALLY	PROCEDURE COMM	
x			Check cleanliness of attachment. Wash as needed to remove any debris build up.	
x			Check all hardware for tightness. Tighten if needed. Replace if missing or if damaged.	
x			Inspect decals for wear. Replace if missing or if text or graphic is illegible.	
x	Х		Check hydraulic hoses, fittings, cylinder and couplers for major wear, or other damage. Replace as required.	
x	Х		Check quick attach mount for major wear, scratches, cracks, or other damage. Replace mount as required.	
		Х	Detailed inspection of bucket. Replace/repair as required.	See Section 5.3
		х	Detailed inspection of quick attach mount. Replace/ repair mount as required.	See Section 5.3

Perform these maintenance procedures more frequently under extreme working conditions. For procedures with multiple frequencies, complete the maintenance based on whichever occurs first.

Never straighten, weld, or in any other way alter the attachment or the attachment quick attach mount. Any alterations may result in injury or death, and will void the warranty.

If the attachment is assembled to the loader, ensure that the engine is off, the parking brake is engaged, and the ignition key is removed before starting any maintenance, cleaning, or inspection.

Avoid placing hands or fingers between the grapple and bucket as this could cause pinching.

5.2 MAINTENANCE CONSIDERATIONS & STORAGE

1. NEVER allow untrained personnel to service the attachment. Personnel should have sufficient knowledge and training prior to performing any maintenance procedures.

- 2. It is recommended to wear safety glasses, gloves, and safety shoes when servicing, adjusting, or cleaning the attachment.
- Lower the attachment, set parking brake, stop engine and remove ignition key to prevent accidental starting of the engine when servicing, adjusting, or cleaning the attachment.
- 4. Keep all nuts, bolts and screws tight, to ensure the machine is in safe working condition. Check attachment hardware frequently.
- 5. To reduce fire hazard, and facilitate detection of any damages, keep the attachment clean and free of excessive grease, oil, dirt, and other debris.
- 6. Keep all parts in good working condition. Replace all worn, damaged or missing decals, couplers, pins and hardware.
- 7. Before putting the attachment into long term storage, clean the attachment well, and touch up any small chips or scratches with paint to prevent the attachment from rusting. Cover hose coupler connections.
- 8. Store the attachment in a clean, dry environment that is protected from weather.



5.3 ATTACHMENT INSPECTION

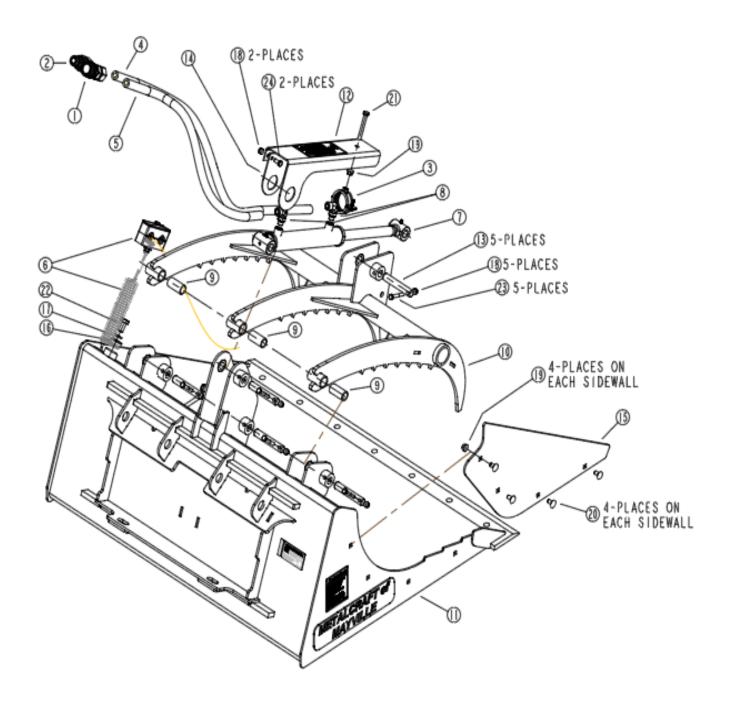
- Check attachment for wear, scratches, cracks, or other damage. If minor scratches are present, the attachment may be painted to prevent rust. If major damage or wear is present, the attachment must be repaired or replaced.
- 2. The attachment should be fully inspected at least every 12 months or when permanent deformation/ damage is suspected. Inspection shall be completed by qualified personnel only:
 - A. Visually check that no surface cracks are present.
 - B. Visually check that no weld cracks are present.
 - C. Check that there is no warpage in any of the quick attach mount's components using a level or a square. Any gaps must be less than 1/2".
 - D. Visually check that the decals are present and legible.
 - E. Visually check that all hinge pins, bushings and locking hardware are not worn or missing. Grease cylinder pins.
 - F. Visually check all hydraulic components. DO NOT USE HAND to check for suspected leaks. See section 4 for hydraulic fluid leak warnings.
 - G. Check for proper grapple function.
- 3. Inspection shall be completed by qualified personnel only. See your local authorized dealer for service.



ILLUSTRATED PARTS LIST

6.1 METALCRAFT OF MAYVILLE SERVICE/REPLACEMENT PARTS

Components manufactured by companies other than Metalcraft of Mayville are not approved for use on this attachment. Use of other than original Metalcraft of Mayville replacement parts will void the warranty. Any unauthorized work done on the attachment during the warranty period may void your warranty.





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ATTACHMENT

Ref. No.	Part No.	Description		
1	487948	Non-spill Flat Face 1/2" Body Female Coupler		
2	487947	Non-spill Flat Face 1/2" Body Male Coupler		
3	487946	Threaded Rod Mount Clamp		
4	487916	Hydraulic Hose 75"		
5	487915	Hydraulic Hose 66"		
6	487866	Hydraulic Hose Saver		
7	487834	Cylinder		
8	487734-04	Fitting, ORFS 90°		
9	487564-03	Bushing, Fiber		
10	453496	Grapple Weldment		
11	463642	Grapple Bucket With Decal		
12	463641	Guard With Decal		
13	431201-05	Piv, Pivot		
14	429792	Plate		
15	429774	Side Plate		
16	04043-08	1/2" Flat Washer		
17	04030-06	1/2" Lock Washer		
18	04021-10	5/16-18 Elastic Stop Locknut		
19	04019-04	3/8-16 Serrated Flange Nut		
20	04003-31	3/8-16 x .75" Carriage Bolt RHSN		
21	04001-161	3/8-16 x 2.75" HHCS Full Thread Gr5		
22	04001-57	1/2-13 x 1" HHCS Gr5		
23	04001-17	5/16-18 x 2" HHCS Gr5		
24	04001-08	5/16-18 x .75" HHCS Gr5		

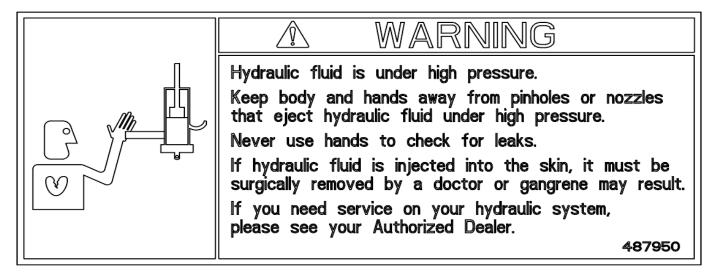


REPLACEMENT DECALS

Ref. No.	Part No.	Description
1	487949	Decal, Grapple Warning
2	487950	Decal, Hydraulic Warning



P/N 487949



P/N 487950

LIMITED WARRANTY - ATTACHMENTS

Any part of the attachment manufactured by Metalcraft of Mayville and found, in the reasonable judgment of Metalcraft of Mayville, to be defective in materials or workmanship, will be repaired or replaced by an Authorized Service Dealer without charge for parts and labor during the periods specified below. This warranty is limited to the original purchaser and is <u>not</u> <u>transferable</u>. Proof of purchase will be required by the dealer to substantiate any sole warranty and claims. All warranty work must be performed by an Authorized Service Dealer.

This expressed implied warranty is limited to the following specified periods from the date of the original registered retail purchase for defects in materials or workmanship:

- Wear items including but not limited to: blades, cutting edges, teeth, bushings, pins, hoses, belts, chains, ground contacting components and abrasion wear are not included in this warranty.
- Frame and structural components are warranted for one (1) year (parts and labor). Bent frames and/or couplers are not covered under this warranty. The repair or replacement of the attachment will be at the discretion of Metalcraft of Mayville. We reserve the right to request components for evaluation. This warranty does not cover any product that has been subject to misuse, abuse, neglect, negligence, an accident, or that has been operated in any way contrary to the operating instructions as specified in the Operator's Manual.

The attachment, including any defective part must be returned to an Authorized Service Dealer within the warranty period. The expense of delivering the attachment to the dealer for warranty work and the expense of returning it to the owner after repair will be paid for by the owner. Metalcraft of Mayville's responsibility is limited to making the required repairs and no claim of breach of warranty shall be cause for cancellation or rescission of the contract of sale of any Metalcraft of Mayville product.

This warranty does not cover any product that has been subject to misuse, abuse, neglect, negligence, or accident, or damage or deterioration due to normal use or that has been operated in any way contrary to the operating instructions as specified in the Operator's Manual. The warranty does not apply to any damage to any attachment that is the result of improper maintenance or to any attachment or parts that have not been assembled or installed as specified in the Operator's Manual. The warranty does not cover any attachment that has been altered or modified, changing performance or durability. In addition, the warranty does not extend to repairs made necessary by normal wear, to items subject to abrasion wear, or by the use of parts or accessories which, in the reasonable judgment of Metalcraft of Mayville, are either incompatible with the attachment or adversely affect its operation, performance or durability.

Metalcraft of Mayville reserves the right to change or improve the design of any product without assuming any obligation to modify any product previously manufactured. All other implied warranties for this attachment are limited in duration to the one (1) year warranty period or ninety (90) days for attachments used for rental purposes. Accordingly, any such implied warranties including merchantability, fitness for a particular purpose, or otherwise, are disclaimed in their entirety after the expiration of the appropriate warranty period. Metalcraft of Mayville's obligation under this warranty is strictly and exclusively limited to the repair or replacement of defective parts and Metalcraft of Mayville does not assume or authorize anyone to assume for them any other obligation. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

Metalcraft of Mayville assumes no responsibility for incidental, consequential or other damages including, but not limited to, expense for fuel, expense of delivering the attachment to an Authorized Service Dealer and expense of returning it to the owner, mechanic's travel time, telephone or telegram charges, rental of a like product during the time warranty repairs are being performed, travel, loss or damage to personal property, loss of revenue, loss of use, loss of time or inconvenience. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may have other rights which vary from state to state.

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