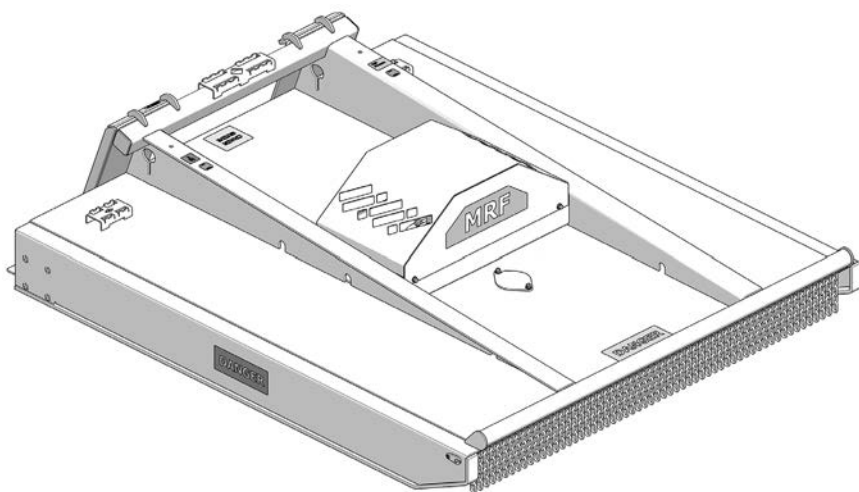




OPERATOR'S MANUAL
BRUSH MOWER
Model BM72
Serial Number 20916-

Manual# 96627 MAY 23 ENGLISH



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Introduction

Using This Manual

Your loader operator's manual contains instructions to safely operate the loader. Anyone who operates a loader with this attachment installed must first read, understand and follow the instructions in the loader operator's manual.

This manual contains instructions to safely operate and service the attachment. Anyone who operates or services the attachment must first read, understand and follow the instructions in this manual.

Additional operating or servicing information for the attachment may be provided online, in video, or in other publications. This additional information does not replace, and is not a substitute for reading and following, the instructions in this manual.

The safety alert symbol is shown in **WARNING** statements to alert users to hazards which could cause death or injury. Carefully read and follow the messages.

IMPORTANT notices alert users to instructions which, if not followed, could result in damage. Carefully read and follow the messages.

There may be times when the attachment and loader shown in this manual may not be your exact model. The model shown will be close enough to your attachment or loader to accurately convey the information.

The most current information available is included in this manual. The publisher may revise this manual at any time and is not required to notify users of revisions.

Replacement Manuals

Be sure to include this operator's manual if you sell or transfer ownership of the attachment.

Contact Messer Attachments LLC for a printed manual, or find a downloadable manual on our website.

Using This Attachment

The attachment is designed for use mowing grass, weeds and brush.

The attachment is designed for installation on a full-size loader, connected to the loader's front auxiliary hydraulic couplers.

The manufacturer reserves the right to make improvements, and to discontinue or change specifications, models or design without notice and

Introduction

without incurring obligation.

Loader Compatibility

Confirm your loader's Rated Operating Capacity (ROC in the loader operator's manual. Confirm your attachment's ROC in SPECIFICATIONS in this manual.

Do not install the attachment on the loader if the combined weight of the attachment and attachment load will exceed the loader ROC during operation because this may cause difficulty in controlling the loader or may cause loader damage.

Do not exceed the attachment's ROC because this may damage the attachment.

Attachment compatibility with your loader should be confirmed before the initial purchase. If you receive the attachment as part of a later resale or transfer of ownership, contact the manufacturer to confirm the attachment is designed to be used with your loader before you install the attachment.

Product Misuse

Product misuse can cause accidents, injury and death.

The manufacturer of the attachment is not responsible for any harm or injury resulting from product misuse.

Product misuse includes operating or servicing the attachment without following the instructions in this manual and in the loader manuals, using the attachment in any way for which it was not designed, neglecting to confirm loader compatibility, and modifying the attachment.

Modifications

Do not modify the attachment in any way.

Manufacturer Contact

Call Messer Attachments LLC at (833) 352-3477, or see us at www.messerattach.com.

Product Identification

Identification Numbers

Record your product information to provide when you contact the dealer or manufacturer.

Brush Mower

Model BM72

Serial Number 20916-

Serial Number Location



Purchase Date	
Dealer	
Dealer Phone	
Model	
Serial #	

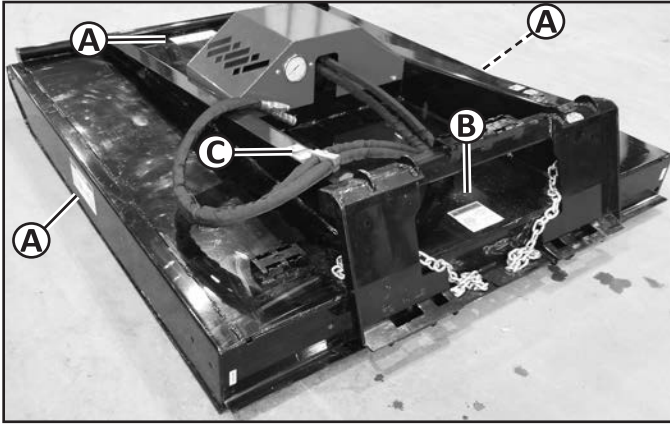
Specifications

Model	BM72
Length x Width x Height	244 x 201 x 61 cm (96 x 79 x 24 in.)
Weight	646 kg (1425 lb.)
Weight with Roller	708 kg (1560 lb.)
Rated Operating Capacity*	

* This attachment may be used to mow stalks or stems of small trees and brush with a diameter of up to 4 inches.

Safety Decals

Decal Locations



Location	Description	Part Number
A	Danger Decal	96519
B	Chain Warning Decal	96520
C	High Pressure Decal	96117

HIGH PRESSURE DECAL 96117



HIGH PRESSURE FLUID HAZARD **To prevent serious injury or death:**

- Relieve pressure on system before repairing, adjusting or disconnecting.
- Wear proper hand and eye protection when searching for leaks. Use wood or cardboard instead of hands.
- Keep all components in good repair.

Safety Decals

DANGER DECAL 96519



STAY CLEAR 200 FEET

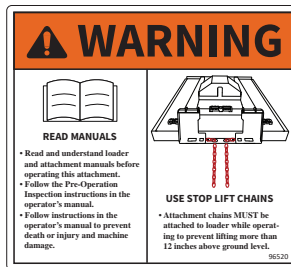
Flying Objects

- Inspect the entire work area before operation.
- Remove objects which could be thrown by the blades or could damage the blades.
- Mark or flag remaining objects and areas to avoid during operation.

Cutting Hazards

- Do not insert hands, feet, or any objects under the edges of this attachment during operation.
- Follow the Operator's Manual instructions to safely park the machine and stop the engine before servicing this attachment.
- Wear gloves when handling blades.

CHAIN WARNING DECAL 96520



Read Manuals

- Read and understand loader and attachment manuals before operating this attachment.
- Follow the Pre-Operation Inspection instructions in the operator's manual.
- Follow instructions in the operator's manual to prevent death or injury and machine damage.

Use Stop Lift Chains

- Attachment chains MUST be attached to loader while operating to prevent lifting more than 12 inches above ground level.

Safety

Wear Protective Equipment

- Wear gloves to protect hands from burns if hydraulic couplers become hot during operation.
- Never wear sandals or other light footwear when operating or servicing the attachment. Wear protective footwear when handling blades or heavy parts.
- Do not wear loose fitting clothing which may become entangled when operating or servicing the attachment.

Parking Safely

1. Follow the instructions in the loader operator's manual to park the loader safely.
2. Fully lower the attachment to level ground.
3. Stop the loader engine and remove the key from the switch.
4. Do not leave the loader operator seat until the engine and all other moving loader and attachment parts have stopped.
5. Follow the instructions in the loader operator's manual to exit the loader safely. Use the attachment step area if one is provided.

Operating Attachments Safely

- Always be aware of the weight of any loads you are transporting with an attachment. The weight of any load must not exceed the attachment's Rated Operating Capacity. The weight of the attachment combined with the attachment load must not exceed the loader's Rated Operating Capacity.
- Do not allow anyone to operate the attachment unless they have first read and understood the loader and the attachment operator's manuals.
- Do not allow anyone to operate the attachment unless they have first read and understood the safety and warning decals on the loader and on the attachment.
- The attachment owner is responsible for training others to safely operate the attachment, and is responsible for any injuries or harm which occurs while the attachment is being operated.
- If an area to step on the attachment has been provided, be sure to use it when entering and exiting the loader.

Safety

- Before operating, replace any worn or damaged safety decals.
- Before operating, thoroughly inspect the attachment to be sure all hardware (bolts, nuts, etc.) is installed and tightened.
- Before operating, thoroughly inspect the attachment to be sure it is in working order. If the attachment is damaged or otherwise not in working order, do not operate until it has been repaired by a qualified technician.
- Before raising or lowering the attachment be sure the area is clear of bystanders.
- Constantly check your travel area to be sure it is clear of bystanders or objects. Use rear-view mirror, if equipped, when traveling in reverse. If installed, loader backup alarm must be working before traveling in reverse.
- Do not operate the loader or the attachment if you are under the influence of alcohol, drugs, or medications which may cause drowsiness.
- Do not allow children to operate the loader or the attachment.
- Do not allow anyone who has not been trained to operate the loader or the attachment.
- Never allow riders on the attachment.
- Keep hands, feet or other objects away from underneath the attachment while operating.
- Fully lower the attachment to level ground when you are done operating.
- Never leave the attachment unattended while in a raised position.
- When transporting the attachment installed on the loader, travel at a slower speed to maintain control.

Using Brush Mower Safely

- Never operate the attachment without stop lift chains attached to the loader to prevent lifting more than 12 inches above level ground.
- Keep bystanders a minimum safe distance of 200 feet away from the attachment during operation.
- Inspect the entire work area before operation.

Safety

- Remove objects which could be thrown by the blades or could damage the blades.
- Mark or flag remaining objects and areas to avoid during operation.
- Do not insert hands, feet, or any objects under the edges of this attachment during operation.

Servicing Safely

- Wear gloves when handling blades.
- Disconnect the attachment hydraulic hoses from the loader before servicing. Do not service the attachment when the hydraulic hoses are installed on the loader.
- Remove the attachment from the loader before servicing when instructed to do so in this manual.
- Do not allow anyone to service the attachment unless they have first read and understood the loader and the attachment operator's or service manuals.
- Do not allow anyone to service the attachment unless they have first read and understood the safety and warning decals on the loader and on the attachment.
- The attachment owner is responsible for training others to safely service the attachment, and is responsible for any injuries or harm which occurs while the attachment is being serviced.
- Before inspecting or servicing the attachment, follow the Parking Safely instructions in this manual and disconnect the attachment hydraulic hoses from the loader.
- Always securely block the attachment to prevent accidental release of the lifting mechanism when inspecting or servicing the attachment.

Hydraulic Fluid Safety

- Read and understand the hydraulic safety information in the loader operator's manual before operating or servicing the attachment.
- Use cardboard or a board when you check for a leak.
- Fluid in hydraulic hoses is under extreme pressure. If fluid is injected into your skin seek medical treatment immediately.

Safety

- Do not handle any hydraulic components until pressure has been relieved from the system.
- Disconnect the attachment hydraulic hoses from the loader before inspection or service.
- Inspect attachment hydraulic hoses and hose shields for damage or wear before attaching to the loader.

Safety Decals

Safety decals may be installed on the attachment to warn users of safety hazards:

- DANGER decals provide warnings about hazardous situations which will result in death or serious injury if not avoided.
- WARNING decals provide warnings about hazardous situations which could result in death or serious injury if not avoided.
- CAUTION decals provide warnings about hazardous situations which could result in injury if not avoided.

Read and understand all safety decals before operating or servicing the attachment.

See the Decal Locations illustration in this manual to confirm where decals are installed on the attachment.

Safety decals which are missing, worn or faded must be replaced. Replacement safety decal part numbers are included in this manual. Contact the attachment manufacturer for replacement decals.

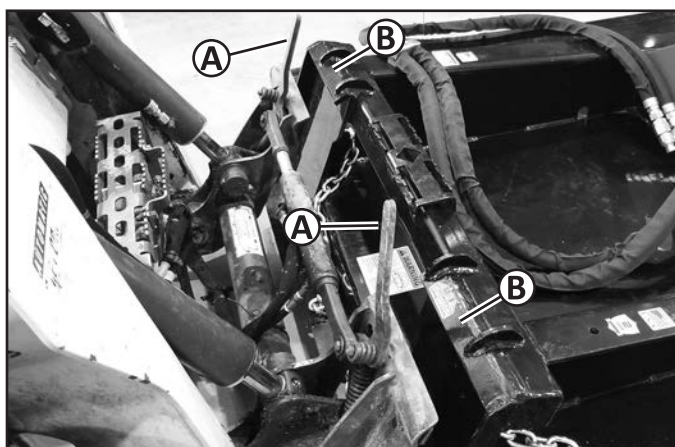
Installing and Removing

Preparing for Installation

1. Check the loader and attachment hydraulic couplers to be sure the surfaces are clean before connecting.
2. Inspect the couplers for damage or wear and replace if needed for proper connection.

Installing the Attachment

1. Follow the instructions in the loader operator's manual to install the attachment and exit the operator station safely.
2. Fully lower the loader lift arms.



WARNING

AVOID INJURY!

Loader attaching plate levers which are operated manually may have spring tensioning. Firmly grasp the levers and move the levers slowly.

3. Move the loader attaching plate levers (A) to the unlocked (up) position either manually or by using the loader controls.

Installing and Removing

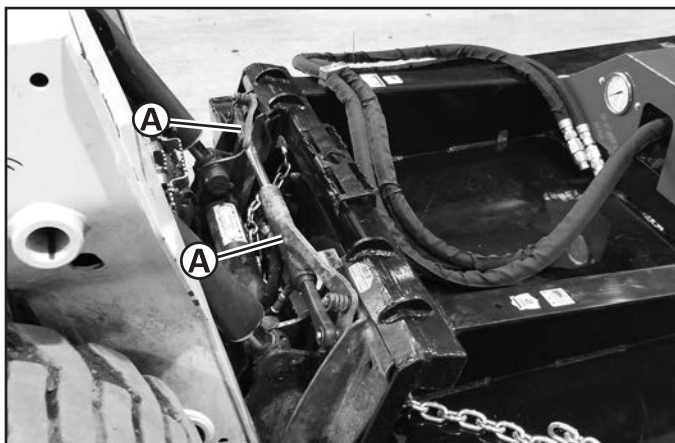


IMPORTANT

AVOID DAMAGE!

Attaching plate levers may be damaged if they strike the attachment. Be sure the attaching plate levers do not hit the attachment during installation.

4. Tilt the loader attaching plate forward, and drive the loader forward until the top edge of the loader attaching plate is under the top flange (B) of the attachment mounting frame.
5. Raise the loader lift arms slightly until the attaching plate is fully seated under the top flange.
6. Tilt the attaching plate backward to raise the front of the attachment.



7. Move the loader attaching plate levers (A) to the locked (fully down) position either manually or by using the loader controls.
8. Park the loader. (See Parking Safely in this manual.)

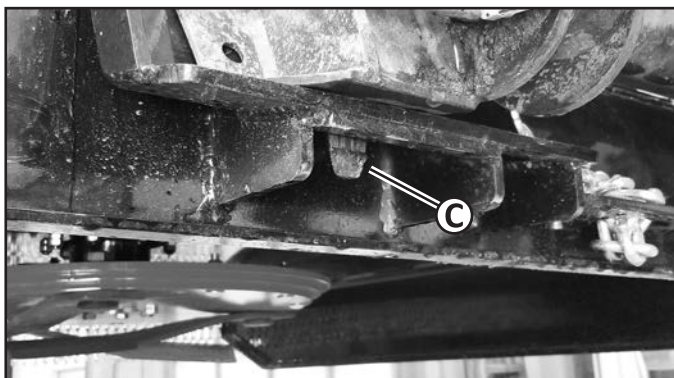


IMPORTANT

AVOID DAMAGE!

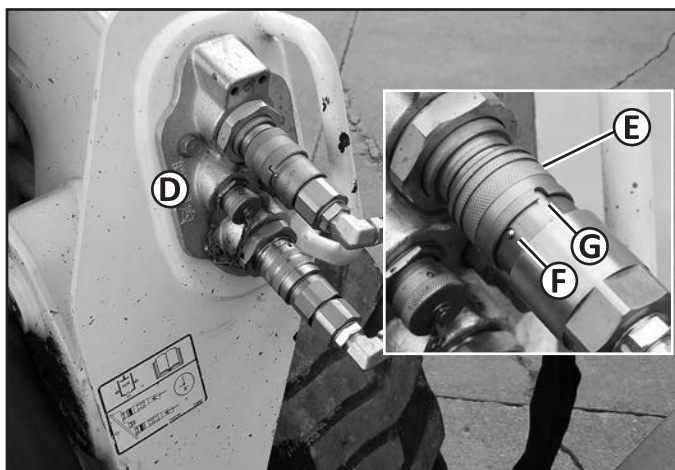
The attachment may come off the loader if it is not secured to the attaching plate. The attaching plate pins or wedges must be extended into the attachment with the levers fully down.

Installing and Removing



Picture Note: Wedge on left side of attachment shown. Check the wedges or pins on both sides of the attachment.

9. Check to be sure the loader attaching plate pins or wedges (C) extended into the holes in the bottom of the attachment mounting frame. If not, move the loader attaching plate levers to the unlocked (up) position and repeat installation.



10. Connect the attachment hydraulic hoses to the loader's front auxiliary couplers (D).
 - a. Install the male couplers into the female couplers and pull or push the sleeves (E) to be sure they are locked into place.
 - b. Rotate the coupler sleeves as shown so the ball (F) is outside the groove (G) to prevent the coupler disconnecting (Some sleeves may not have this locking mechanism).

Installing and Removing

Attaching the Stop Lift Chains to the Loader

Note: It may be easier to position some loader models close to the attachment and route the chains before fully installing the attachment on the loader.



WARNING

AVOID INJURY!

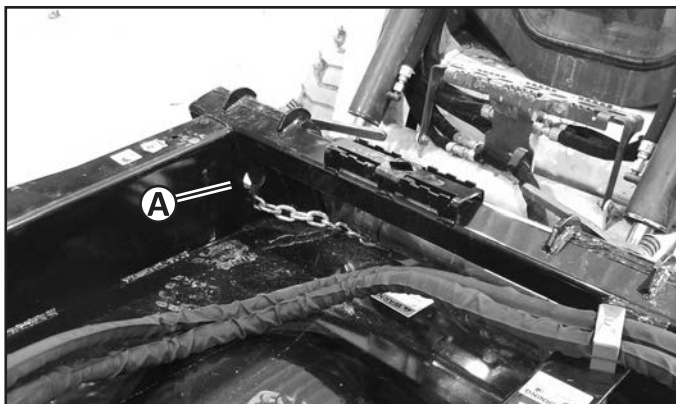
Do not operate the attachment unless the stop lift chains are installed to prevent lifting the attachment more than 12 inches above level ground.



Picture Note: Some loader models have a bracket mounted on the frame which the chains can be routed through.

1. Examine the front of the loader to confirm how to route the stop lift chains to wrap around the front of the loader and return to the chain mounting holes on the attachment.
2. Install the attachment on the loader.

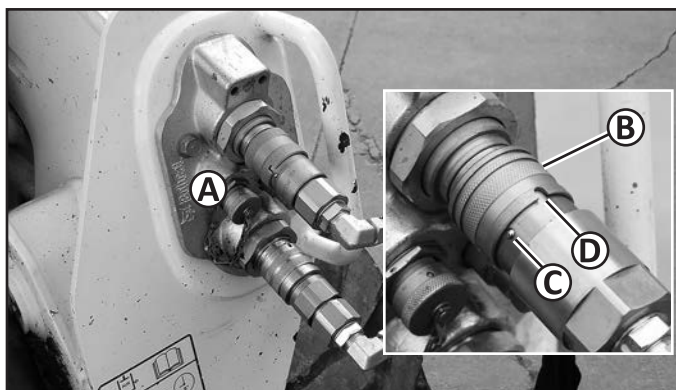
Installing and Removing



3. Wrap the stop lift chains around the front of the loader and install the chains in the mounting holes (A) in the same positions (Install the seventh link from the end of each chain, for example, in the mounting holes.)
4. Raise the attachment to confirm it cannot be lifted more than 12 inches above level ground. Lower the attachment and adjust the chains in the mounting holes if needed.

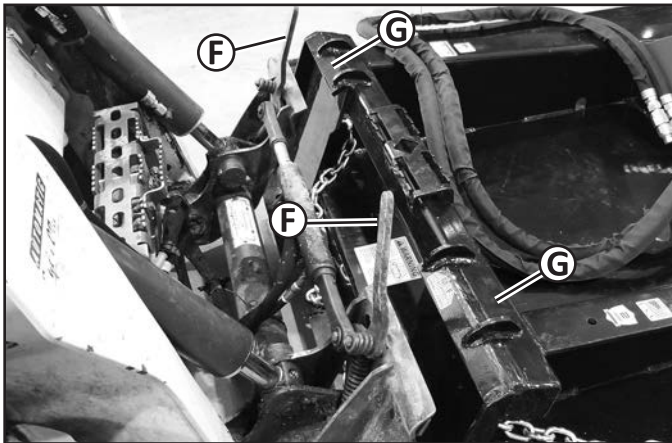
Removing the Attachment

1. Follow the instructions in the loader operator's manual to remove the attachment and exit the operator station safely.
2. Fully lower the loader lift arms and the attachment to level ground.
3. Follow instructions in the loader operator's manual to relieve hydraulic pressure in the front auxiliary hydraulic coupler lines.
4. Stop the loader engine.



Installing and Removing

5. Disconnect the attachment hydraulic hoses from the loader's front auxiliary couplers (A).
 - a. Rotate the coupler sleeves (B) so the ball (C) is aligned with the groove (D) to allow the coupler to disconnect (Some sleeves may not have this locking mechanism).
 - b. Grasp and push or pull the sleeves to disconnect the couplers.
6. Disconnect the stop lift chain from the loader.



7. Move the loader attaching plate levers (F) to the unlocked (up) position as shown either manually or by using the loader controls.
8. Tilt the loader attaching plate forward slightly and drive the loader backward until the top edge of the attaching plate clears the top flange (G) of the attachment mounting frame.

Operating

Pre-Operation Inspection

Before starting operation, inspect the area you will be operating in and inspect the attachment.

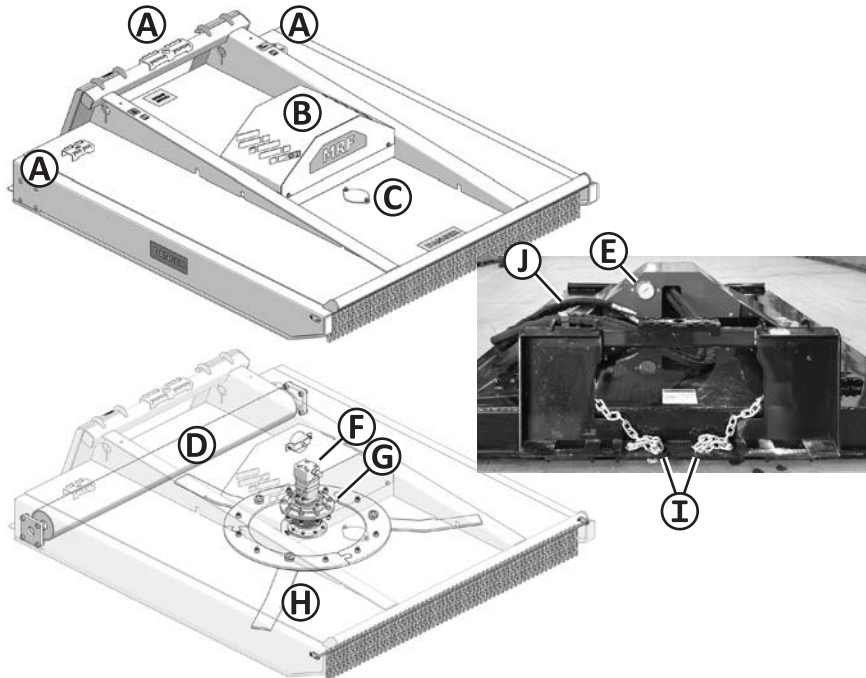
Inspect the Work Area

1. Confirm the area is clear of bystanders including animals. Establish a safety zone by keeping bystanders and animals beyond a 200 foot radius around the attachment when operating.

Inspect the Attachment

1. Inspect the attachment to be sure it is in working order. If the attachment is damaged or not in working order, do not operate until it has been repaired by a qualified technician.

Description



A - Step Area	F - Hydraulic Motor
B - Motor Guard	G - Gear Load Adapter
C - Bolt Hole Cover	H - Blades
D - Optional Roller	I - Stop Lift Chains
E - Pressure Gauge	J - Hydraulic Hoses

Operating

Theory of Operation

The Brush Mower hydraulic hoses are connected to the loader front auxiliary hydraulic couplers. The loader's hydraulic controls are used to tilt the Brush Mower and to engage and disengage the hydraulic motor which drives the flywheel with three cutting blades.

Operation



1. Follow the instructions in INSTALLING AND REMOVING to install the attachment.
2. Park the loader. (See Parking Safely in this manual.)
3. Perform the pre-operation inspection.
4. Confirm the stop lift chains are attached to the loader.
5. With the loader engine running at idle, use the hydraulic controls to turn flow control to the motor on.
6. Tilt the attachment to allow material discharge from underneath:
 - When mowing grass, raise the back of the Brush Mower about 6 inches above ground to allow the grass to blow out from under the frame.
 - When mowing brush and heavier material, raise the front of the Brush Mower about 6 inches above ground to all the material to blow out from under the frame.

Using the Pressure Gauge

While operating the attachment you may not be able to hear when the loader engine load is getting too heavy. Monitor the hydraulic pressure gauge when operating under heavy load. When the pressure gauge approaches 3000, start "backing off" by pausing or reducing your travel speed.

Operating

Transporting the Attachment

On the Loader

Check to be sure the attachment is correctly installed on the loader before hauling the loader on a trailer or truck. Follow all loader, truck or trailer operator's manual instructions to safely haul the loader.

Hauling the Attachment

Follow all truck or trailer operator's manual instructions to securely fasten the attachment to the truck or trailer with straps or chains.

Servicing

Service Intervals

Every 8 hours or daily:

- Grease the optional roller, if installed.
- Inspect the attachment and hoses for damage and wear. Replace parts as needed.
- Check and tighten all hardware.

Lubrication

Recommended Grease

Standard Lithium

Lubricating the Optional Roller

1. Park the loader. (See Parking Safely in this manual.)



2. Lubricate the grease zerks in the two holes (A) on the roller bearings until grease appears in the joints.

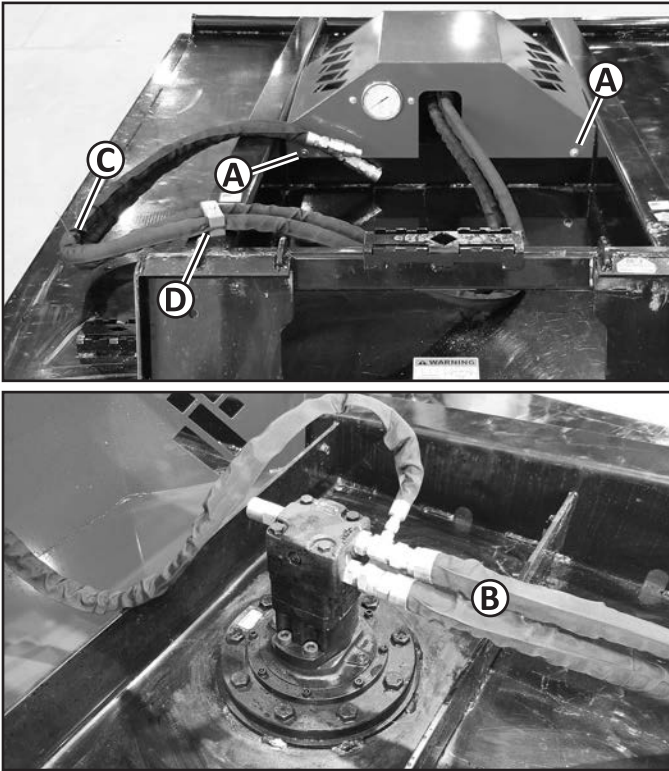
Replacing the Hydraulic Hoses



1. Remove the attachment from the loader.

Servicing

2. Park the loader. (See Parking Safely in this manual.)



3. Remove the four cap screws (A), lock washers and washers from the motor guard.
4. Remove the motor guard and position out of the way on the frame, taking care to avoid damaging the pressure gauge connected to the hydraulic hose.
5. Disconnect and remove the hydraulic hose (B) from the motor.
6. Remove the tie strap (C).
7. Remove the hose retainer (D) and remove the hose.
8. Connect the new hose to the motor.
9. Install the hose retainer on both hoses.
10. Install a tie strap to secure the hoses.
11. Install the motor guard with the four cap screws, lock washers and washers.

Servicing

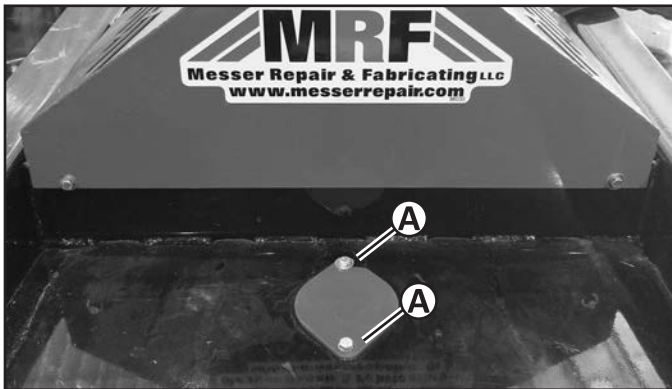
Sharpening the Blades

WARNING

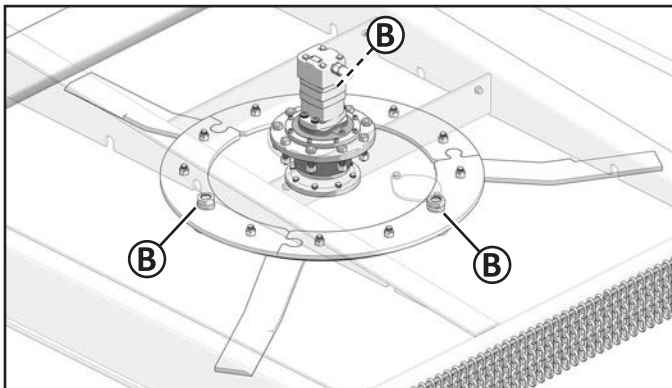
AVOID INJURY!

Remove the attachment from the loader before servicing.

1. Remove the attachment from the loader.
2. Park the loader. (See Parking Safely in this manual.)
3. Using a safe lifting device, raise and block the front of the attachment to access the blades and flywheel underneath.



4. Loosen the cap screws (A) and rotate the bolt hole cover to access the nuts underneath.



5. Rotate the flywheel to align the blade nut (B) for removal.

Servicing

6. Remove the nut, lock washer, bolt and blade.
7. Sharpen or replace the blade.
8. Install the blade with the bolt, lock washer and nut. Tighten nut to 1444 ft-lb (1958 N•m).

Troubleshooting

Problem	Action
Flywheel won't rotate.	<ol style="list-style-type: none">1. Check to be sure the attachment hydraulic couplers are fully connected.2. Check the attachment for hydraulic fluid leaks.3. See the loader operator manual to check loader hydraulic pressure and flow.4. Contact the attachment manufacturer about possible hydraulic motor replacement.

Warranty

MESSER ATTACHMENTS LLC Limited Warranty and Terms and Conditions of Sale

The following limited warranty, and terms and conditions of sale (the “Limited Warranty”) apply to all equipment, products, parts, and goods (any of the foregoing are referred to herein as “Equipment”) sold by Messer Attachments LLC (“Messer”):

1. **Covers All Equipment.** Each purchase of Equipment by a purchaser is expressly made conditional on purchaser’s assent to the terms and conditions in this Limited Warranty.
2. **Limited Warranty.** Messer warrants that for a period of 24 months from the date of purchase, the Equipment will remain free from defects in material and workmanship under normal use and proper maintenance. The warranty does not cover damage from operating in excess of rated capacities or normal wear and tear. Messer’s obligation under the warranty shall be limited to the repair or replacement (at Messer’s option) of the Equipment. Notwithstanding the foregoing, if the Equipment is used for commercial purposes or is rented or leased out by the purchaser, then, the foregoing warranty shall only be for a period of 180 days and not 24 months.
3. **No Warranty For Equipment Components From Third Parties.** Notwithstanding the limited warranty terms set forth above, **MESSER OFFERS NO WARRANTY WHATSOEVER WITH RESPECT TO ANY COMPONENTS OF THE EQUIPMENT MADE OR PROVIDED TO MESSER BY OTHER MANUFACTURERS, PRODUCERS, OR SELLERS** (the “Purchased Components”). The sole and exclusive warranty for each the Purchased Components shall be limited to the express written warranty with respect to the Purchased Component as provided by the manufacturer, producer, or seller of such Purchased Component. Messer’s responsibility and liability for the Purchased Components shall be limited to the assignment of the Purchased Components’ express written warranties applicable to the Purchased Components. Purchased Components include, without limitation, the following: axles, tires and rims; trailer hitch components and jacks; hydraulic pumps, motors, cylinders and components; and bales spears, pallet tines, and bucket teeth.
4. **No Other Warranties.** **THE FOREGOING REPAIR AND REPLACEMENT OBLIGATIONS IN SECTION 2 ARE IN LIEU OF ALL OTHER WARRANTIES, LIABILITIES AND OBLIGATIONS, INCLUDING ALL WARRANTIES OF MERCHANTABILITY, OF FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE, EXPRESSED OR IMPLIED IN FACT OR BY LAW, AND STATE MESSER’S ENTIRE AND EXCLUSIVE LIABILITY AND PURCHASER’S EXCLUSIVE REMEDY FOR ANY CLAIM IN CONNECTION WITH THE SALE AND PURCHASE OF EQUIPMENT (AND ALL COMPONENTS THEREOF), THEIR DESIGN, SUITABILITY FOR USE, INSTALLATION OR OPERATIONS.**

Warranty

5. Location of Warranty Repairs. All warranty repairs pursuant to this Limited Warranty shall be made at Messer's corporate manufacturing plant, or other location as determined by Messer, at its discretion. Purchaser shall be responsible for and pay for any transportation expenses necessary for Limited Warranty repairs.

6. Limited Warranty Voidable. The limited warranty herein is void and deemed waived if the purchaser fails to give written notice to Messer of any alleged defect under the limited warranty herein within 20 days of its discovery; or (a) purchaser or parties other than Messer or its authorized representatives attempts to remedy or fix the alleged Equipment defects; or (b) purchaser has used the Equipment for purposes it was not intended to be used for; or (c) purchaser has not operated the Equipment in a manner consistent with Messer's instructions for the Equipment; or (d) the Equipment has been modified, altered, abused, or misused; or (e) the Equipment has been damaged pursuant to accident, fire, flood, or other Act of God.

7. No Consequential Damages. IN NO EVENT SHALL MESSER BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL OR CONSEQUENTIAL DAMAGES WHATSOEVER, AND MESSER'S LIABILITY, UNDER NO CIRCUMSTANCES, WILL EXCEED THE PRICE PAID FOR THE EQUIPMENT FOR WHICH LIABILITY IS CLAIMED.

8. Governing Law. This contract shall be governed by the laws of the State of Minnesota.

9. Arbitration. Any controversy or claim arising out of or relating to the limited warranty provided herein, or any alleged breach thereof, shall be settled exclusively by arbitration in accordance with the Rules of the American Arbitration Association, and judgment upon the award rendered by the arbitrator may be entered in any court having jurisdiction thereof. The arbitration shall be conducted in Minneapolis, MN, by one arbitrator selected by Messer and Purchaser, or, if they cannot agree, the President of the American Arbitration Association.

