MANURE / SILAGE / DEBRIS
WITH / WITHOUT GRAPPLE
TINE BUCKETS
for Skid Steer
and
Tractor Front Loaders

Safety Instructions  Assembly & Mounting
Tractor Preparation  Maintenance
Operating Instructions  Repair Parts

CAUTION
For Safe Operation
Read Rules And
Instructions Carefully

THE FOLLOWING SAFETY PRECAUTIONS SHOULD BE THOROUGHLY UNDERSTOOD
BEFORE ATTEMPTING TO BEGIN ASSEMBLING THIS MACHINE

1. Select an area for assembly that is clean and free of any debris which might cause persons working on the assembly to trip.
2. Do not lift heavy parts or assemblies. Use crane, jack, tackle, fork trucks or other mechanical devices.
3. Preview the assembly instructions in your operator’s manual before proceeding further.
4. If the assembly instructions call for parts or assemblies to be blocked up, use only blocking material that is in good condition and is capable of handling the weight of the assembly to be blocked. Also insure that the blocking material is on a clean, dry surface.
5. Never put hands, or any part of body, under blocked up assemblies if at all possible.
6. After completing assembly, thoroughly inspect the machine to be sure that all nuts, bolts, hydraulic fittings or any other fastened assemblies have been thoroughly tightened.
7. Before operating the machine, thoroughly read the operation section of your operator’s manual.
8. Before operating, read the maintenance section of your operator’s manual to be sure that any parts requiring lubrication, such as gearboxes, are full, to avoid any possible damage.
9. Before operating equipment – If you have any questions regarding the proper assembly or operation, contact your dealer or representative.
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TO THE OWNER:

Read this manual before using your Tine Bucket Attachment. This manual is provided to give you the necessary operating and maintenance instructions for keeping your Tine Bucket Attachment in top operating condition. Please read this manual thoroughly. Understand what each control is for and how to use it. Observe all safety signs on the machine and noted throughout the manual for safe operation of implement. Keep this manual handy for ready reference.

Like all mechanical products, it will require cleaning and upkeep. Lubricate the Tine Bucket Attachment as specified.

Use only genuine Worksaver, Inc. service parts. Substitute parts will void the warranty and may not meet standards required for safe and satisfactory operation. Record the model and serial number of your Tine Bucket Attachment here:

Model: __________________________________________ Serial Number: _______________________

Date Purchased: ________________________________

RETAIL CUSTOMER’S RESPONSIBILITY

It is the Retail Customer and/or Operator’s responsibility to read the Operator’s Manual, to operate, lubricate, maintain, and store the product in accordance with all instructions and safety procedures. Failure of the operator to read the Operator’s Manual is a misuse of this equipment.

It is the Retail Customer and/or Operator’s responsibility to inspect the product and to have any part(s) repaired or replaced when continued operation would cause damage or excessive wear to other parts or cause a safety hazard.

It is the Retail Customer’s responsibility to deliver the product to the authorized Worksaver Dealer, from whom he purchased it, for service or replacement of defective parts which are covered by warranty. Repairs to be submitted for warranty consideration must be made within forty-five (45) days of failure.

It is the Retail Customer’s responsibility for any cost incurred by the Dealer for traveling to or hauling of the product for the purpose of performing a warranty obligation or inspection.

STATEMENT OF POLICY

It is the policy of Worksaver, Inc. to improve its products where it is possible and practical to do so. Worksaver, Inc. reserves the right to make changes or improvements in design and construction at any time, without incurring the obligation to make these changes on previously manufactured units.
LIMITED WARRANTY

Worksaver warrants to the original purchaser of any new Tine Bucket Attachment, that the equipment be free from defects in material and workmanship for a period of TWELVE (12) MONTHS COMMENCING ON THE DATE OF DELIVERY OF THE PRODUCT TO THE ORIGINAL PURCHASER. This warranty will apply if notified to Worksaver, Inc. within thirty (30) days after such defect is discovered.

The warranty registration must be completed and returned to Worksaver, Inc.

Replacement or repair parts installed in the equipment covered by this warranty are warranted for ninety (90) days from the date of purchase of such part or to the expiration of the applicable new equipment warranty period, whichever occurs later.

Such parts shall be provided at no cost to the user during regular working hours. Worksaver reserves the right to inspect any equipment or parts which are claimed to have been defective in material or workmanship.

This warranty is extended solely to the original purchaser of the product. Should the original purchaser sell or otherwise transfer this product to a third party, this warranty does not transfer to the third party purchaser in any way. There are no third party beneficiaries of this warranty.

DISCLAIMER OF IMPLIED WARRANTIES & CONSEQUENTIAL DAMAGES

Worksaver shall not be liable for any incident or consequential losses, damages or expenses, arising directly or indirectly from the product, whether such claim is based upon breach of contract, breach of warranty, negligence, strict liability in tort or any other legal theory.

Worksaver's obligation under this warranty, to the extent allowed by law, is in lieu of all warranties, implied or expressed, including implied warranties of merchantability and fitness for a particular purpose and any liability for incidental and consequential damages with respect to the sale or use of the items warranted. Such incidental and consequential damages shall include but not be limited to: transportation charges other than normal freight charges; cost of installation other than cost approved by Worksaver; duty; taxes; charges for normal service or adjustments; loss of crops or any other loss of income; rental of substitute equipment, expenses due to loss, damage, detention or delay in the delivery of equipment or parts resulting from acts beyond the control of Worksaver.

THIS WARRANTY SHALL NOT APPLY:

1. To vendor items which carry their own warranties, such as hydraulic cylinders, hydraulic hoses, and fittings.
2. If the unit has been subjected to misapplication, abuse, misuse, negligence, fire or other accident.
3. If parts not made or supplied by Worksaver have been used in connection with the unit, if, in sole judgement of Worksaver such use affects its performance, stability, or reliability.
4. If the unit has been altered or repaired outside of an authorized Worksaver dealership in a manner which, in the sole judgement of Worksaver affects its performance, stability or reliability.
5. To normal maintenance service and normal replacement items such as gearbox lubricant, hydraulic fluid, worn blades, or to normal deterioration of such things as hoses and exterior finish, due to use or exposure.
6. To expendable or wear items such as cutting edge, plow bolts, tines and other items that in the company's sole judgement is a wear item.

NO EMPLOYEE OR REPRESENTATIVE OF WORKSAVER IS AUTHORIZED TO CHANGE THIS WARRANTY IN ANY WAY OR GRANT ANY OTHER WARRANTY UNLESS SUCH CHANGE IS MADE IN WRITING AND SIGNED BY WORKSAVER'S SERVICE MANAGER, POST OFFICE BOX 100, LITCHFIELD, ILLINOIS  62056-0100.

This warranty is subject to the warranty registration being submitted within sixty (60) days after purchase. For warranty services, contact your selling dealer.
To the Owner/Operator/Dealer

All implements with moving parts are potentially hazardous. There is no substitute for a cautious, safe-minded opera-
tor who recognizes the potential hazards and follows reasonable safety practices. The manufacturer has designed this
attachment to be used with all its safety equipment properly attached to minimize the chance of accidents.

BEFORE YOU START!!

Read the safety messages on the implement and shown in your manual.
Observe the rules of safety and common sense!

THIS SAFETY ALERT SYMBOL IDENTIFIES IMPORTANT
SAFETY WARNING MESSAGES. CAREFULLY READ EACH
WARNING MESSAGE THAT FOLLOWS. FAILURE TO
UNDERSTAND AND OBEY A SAFETY WARNING, OR
RECOGNIZE A SAFETY HAZARD, COULD RESULT IN AN
INJURY OR DEATH TO YOU OR OTHERS AROUND YOU.
THE OPERATOR IS ULTIMATELY RESPONSIBLE FOR THE
SAFETY OF HIMSELF, AS WELL AS OTHERS, IN THE
OPERATING AREA OF THE PRIME MOVER AND
ATTACHED EQUIPMENT.

UNDERSTAND SIGNAL WORDS

Note the use of the signal words DANGER, WARNING
and CAUTION with the safety messages. The
appropriate signal word for each has been selected
using the following guidelines:

DANGER: Indicates an imminently hazardous situation
that, if not avoided, will result in death or serious injury.
This signal word is to be limited to the most extreme
situations typically for machine components which, for
functional purposes, cannot be guarded.

WARNING: Indicates a potentially hazardous sit-
uation that, if not avoided, could result in death
or serious injury, and includes hazards that are
exposed when guards are removed. It may also
be used to alert against unsafe practices.

CAUTION: Indicates a potentially hazardous sit-
uation that, if not avoided, may result in minor or
moderate injury. It may also be used to alert
against unsafe practices.

If you have questions not answered in this manual or require additional copies or the manual is damaged, please
contact your dealer or the manufacturer directly.

GENERAL INFORMATION

The purpose of this manual is to assist in assembling, mounting, operating, and maintaining your attachment. Read
this manual carefully to obtain information and instructions that will help you realize years of safe and dependable
service.

The illustrations and data used in this manual were current at the time of printing, but due to possible engineering
and/or production changes, this product may vary slightly in detail. Worksaver, Inc. reserves the right to redesign and/or
change components as may be necessary without notification to anyone.

Throughout this manual, references may be made to:

<table>
<thead>
<tr>
<th>Prime Mover</th>
<th>The engine-driven machine to which this product must be attached.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Right, Left, Front, Rear</td>
<td>Directions that are determined in relation to the operator of the equipment when seated in the normal operation position.</td>
</tr>
</tbody>
</table>
IMPORTANT SAFETY INFORMATION!

WARNING!  READ MANUAL PRIOR TO INSTALLATION
Improper installation, operation, or maintenance of this equipment could result in serious injury or death. Operators and maintenance personnel should read this manual, as well as all manuals related to this equipment and the prime mover thoroughly before beginning installation, operation, or maintenance. FOLLOW ALL SAFETY INSTRUCTIONS IN THIS MANUAL AND THE PRIME MOVER'S MANUAL(S).

READ AND UNDERSTAND ALL SAFETY STATEMENTS
Read all safety decals and safety statements in all manuals prior to operating or working on this equipment. Know and obey all OSHA regulations, local laws, and other professional guidelines for your operation. Know and follow good work practices when assembling, maintaining, repairing, mounting, removing, or operating this equipment.

KNOW YOUR EQUIPMENT
Know your equipment's capabilities, dimensions, and operations before operating. Visually inspect your equipment before you start, and never operate equipment that is not in proper working order with all safety devices intact. Check all hardware to ensure it is tight. Make certain that all locking pins, latches, and connection devices are properly installed and secured. Remove and replace any damaged, fatigued, or excessively worn parts. Make certain all safety decals are in place and are legible. Keep decals clean, and replace them if they become worn or hard to read.

WARNING!  PROTECT AGAINST FLYING DEBRIS
Always wear proper safety glasses, goggles, or a face shield when driving pins in or out, or when any operation causes dust, flying debris, or any other hazardous material.

WARNING!  LOWER OR SUPPORT RAISED EQUIPMENT
Do not work under raised booms without supporting them. Do not use support material made of concrete blocks, logs, buckets, barrels, or any other material that could suddenly collapse or shift positions. Make sure support material is solid, not decayed, warped, twisted, or tapered. Lower booms to ground level or on blocks. Lower booms and attachments to the ground before leaving the cab or operator's station.

WARNING!  DO NOT MODIFY MACHINE OR ATTACHMENTS
Modifications may weaken the integrity of the attachment and may impair the function, safety, life, and performance of the attachment. When making repairs, use only the manufacturer's genuine parts, following authorized instructions. Other parts may be substandard in fit and quality. Never modify any ROPS (Roll Over Protection Structure) or FOPS (Falling Object Protective Structure) equipment or device. Any modification must be authorized in writing by the manufacturer.
USE CARE WITH HYDRAULIC FLUID PRESSURE

Hydraulic fluid under pressure can penetrate the skin and cause serious injury or death. Hydraulic leaks under pressure may not be visible. Before connecting or disconnecting hydraulic hoses, read your prime mover’s operator’s manual for detailed instructions on connecting and disconnecting hydraulic hoses or fittings.

- Keep unprotected body parts, such as face, eyes, and arms as far away as possible from a suspected leak. Flesh injected with hydraulic fluid may develop gangrene or other permanent disabilities.
- Openings in the skin and minor cuts are susceptible to infection from hydraulic fluid.
- If injured by injected fluid, see a doctor at once. If your doctor is not familiar with this type of injury, ask him to research it immediately to determine proper treatment. Without immediate medical treatment, serious infection and reactions can occur.
- Wear safety glasses, protective clothing, and use a piece of cardboard or wood when searching for hydraulic leaks. DO NOT USE YOUR HANDS!

SEE ILLUSTRATION:

SAFELY MAINTAIN AND REPAIR EQUIPMENT

- Do not wear loose clothing or any accessories that can catch in moving parts. If you have long hair, cover or secure it so that it does not become entangled in the equipment.
- Work on a level surface in a well-lit area.
- Use properly grounded electrical outlets and tools.
- Use the correct tools for the job at hand. Make sure they are in good condition for the task required.
- Wear the protective equipment specified by the tool manufacturer.
SAFETY INSTRUCTIONS (continued)

SAFELY OPERATE EQUIPMENT
Do not operate equipment until you are completely trained by a qualified operator in how to use the controls, know its capabilities, dimensions, and all safety requirements. See your machine's manual for these instructions.

- Do not operate the equipment from anywhere other than the correct operator's position.

- Only use a power unit equipped with a ROPS cab or rollover protective structure. Keep foldable ROPS systems in “locked up” position at all times. Keep seat belt fastened.

- Never place any part of your body where it would be in danger if movement should occur during assembly, installation, operation, maintaining, repairing, removal, or moving the implement.

- The use of any loader attachment is NOT recommended on tractor with a tricycle wheel arrangement. Tricycle type tractors are unstable for front loader use.

- A heavy load can cause instability in driving a power unit. Make sure the front or rear of the power unit is properly counter-balanced with weights. Always drive slowly – especially around turns. An unstable power unit could steer badly and possibly tip over, causing injury or death.

- When using a tractor equipped with a front loader, set the wheels wide for increased stability.

- Do not allow others to ride on the power unit with an operator. Riders are subject to injury such as being struck by foreign objects or being thrown off. Riders obstruct the operator's view resulting in unsafe operation. **Never allow anyone to ride on the implement!**

- Always check locking pins before tilting or operating any attachment.

- Keep all step plates, grab bars, pedals, and controls free of dirt, grease, debris, and oil.

- Never allow anyone to be around the equipment when it is operating.

- Specified lift capacities must not be exceeded. See loader specifications.

- An operator must not use drugs or alcohol, which can change their alertness or coordination. An operator taking prescription or over-the-counter drugs should seek medical advice on whether or not they can safely operate equipment.

- Never use any of these attachments for a work platform or personnel carrier.

- Operate the loader controls smoothly, avoiding jerky operation. Stop loader gradually when lowering or lifting loads.

- Beware of low electrical wires when loader is raised. Serious injury or death can result if contact is made.

- When handling material on a slope, always approach the material with the power unit facing uphill.
OPERATIONAL SAFETY (continued)

- When maneuvering close to buildings or passing through narrow areas, be sure to allow sufficient clearance for the power unit, loader, and load. Drive slowly.

- Make sure all loads are secure before lifting. If lifting with the grapple and the load appears to be unstable, lower the load, open the grapple and reposition the load to attain full stability.

- Do not heap load heavy material where the combined weight of the bucket and the material could exceed the rated lifting capacity of the loader.

- Be sure the load does not stick out too far in front of the bucket. A light load sticking out too far can have the same tipping effect as a heavy load carried in close.

- Keep load centered on grapple bucket and loader. Unbalanced loads increase possibility of tipping or roll-over.

- When handling brush or branches, be aware of branches that might contact power unit or operator.

- When cleaning up old building sites, check for live utility lines. Always be sure electric, gas, and water lines have been properly disconnected.

- Check material to be handled, especially at old building sites or dumps. Be alert for any hazardous material that could be released by tine bucket contact. If in doubt, check with professional waste haulers.

- When stacking, ALWAYS MAKE SURE MATERIAL IS PLACED SO THE STACK IS STABLE.

- Do not handle loads that exceed the weight limitations of the loader.

- Carry the loads slowly and as low as possible to the ground. Avoid excessive speed during operation.

- Never leave equipment unattended with the prime mover's engine running, or with this attachment in a raised position.

- Do not handle round bales unless loader is equipped with approved bale handling attachments.

- Do not detach loader from tractor with any of these attachments installed. Equip loader with material bucket when detaching.

- Before exiting the prime mover, lower the attachment to the ground, apply the brakes, turn off the prime mover's engine, and remove the key.

- Do not alter or remove any safety feature from the prime mover or this attachment.

- Know your work site safety rules as well as traffic rules and flow. When in doubt on any safety issue, contact your supervisor or safety coordinator for an explanation.

WARNING!
SAFETY INSTRUCTIONS (continued)

WARNING!

KNOW WHERE UTILITIES ARE
Observe overhead electrical and other utility lines. Be sure equipment will clear them. When dig-
ging, call your local utilities for location of buried utility lines, gas, water, and sewer, as well as any
other hazard you may encounter. Beware of low electrical wires when loader is raised. Serious
injury or death can result if contact is made.

TRANSPORTING ALL ATTACHMENTS

- Travel only with the attachment as close to the ground as possible. Drive slowly over rough
ground and on slopes.

- When driving on public roads use safety lights, reflectors, Slow Moving Vehicle signs etc., to
prevent accidents. Check local government regulations that may affect you.

- Do not drive close to ditches, excavations, etc., cave in could result.

- When on a slope, keep the load low and proceed with extreme caution. Do not drive ACROSS
a steep slope - drive straight up and down.
  - With a LOADED attachment - face the attachment and load uphill.
  - With an EMPTY attachment - face the attachment downhill.

- Avoid sudden starts and stops while traveling up or downhill. Avoid parking on a slope. Slow
down on sharp turns and slopes to prevent tipping and/or loss of control. Avoid slopes when
surface is wet, slippery grass or soil. Be careful when changing directions on slopes.

- Use extra care when loading or unloading unit onto trailer or truck. NEVER secure rods or link-
ages on unit that could be damaged when transporting.

- Do not smoke when refueling. Allow room in the gas tank for expansion. Wipe up any spilled
fuel. Secure cap tightly when done.

MAINTAINING ALL ATTACHMENTS

- Before working on this machine, drive to a level area, relieve hydraulic pressure, lower imple-
ment (or if working underneath, raise and block securely), shut off the engine, set the brakes,
and remove the ignition keys. Relieve hydraulic pressure prior to doing any maintenance.

- Never work under equipment unless it is blocked securely. Never depend on hydraulic system
to keep implement in raised position.

- Keep all persons away from operator control area while performing adjustments, service, or
maintenance.

- Worn, damaged, or illegible safety decals must be replaced. New safety decals can be ordered
from your dealer or from the manufacturer.

STORAGE SAFETY

- Store the unit in an area away from human activity. Do not permit children to play on or around
the stored unit.

- Make sure all parked machines are on a hard, level surface and engage all safety devices.
Storage location should be level and solid to make connecting and unconnecting to prime
mover easy.

- If blocking is used, make sure it is solid and secure before leaving area.
SAFETY SIGNS

WARNING

TO AVOID SERIOUS INJURY OR DEATH:

- Read Operator’s Manual before operating, servicing or repairing equipment. Follow all safety rules and instructions. (Manuals are available from your selling dealer.)
- Never allow riders.
- Keep bystanders away from equipment during operation.
- Operate from operator’s seat only.
- Keep all shields in place and in good condition.
- Lower equipment to ground, stop engine, remove key and set brake before dismounting power unit.
- Never allow children or untrained persons to operate equipment.

FAILURE TO FOLLOW THESE INSTRUCTIONS CAN RESULT IN INJURY OR DEATH.

CRUSHING AND PINCHING HAZARD

- Be extremely careful with various parts of the machine. Moving parts can crush or pinch body parts.
- Operate controls from operator’s seat only.
- Make sure parking brake is engaged before leaving operator’s seat.
- Stand clear of machine while in operation or when it is being raised or lowered.

FAILURE TO FOLLOW THESE INSTRUCTIONS COULD RESULT IN SERIOUS INJURY OR DEATH.

WARNING

To avoid injury or death caused by falling attachment:

- Quick lock pins must be installed at all times.

(For Models M/S-50JD, M/S-60JD, M/S-66JD, M/S-72JD, M/SG-60JD, M/SG-66JD, and M/SG-72JD only.)
SAFETY SIGNS

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

- Relieve pressure on system before repairing or 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.

NOTE:
If Safety Sign is missing or damaged, replace immediately.

BE CAREFUL!
Use a clean, damp cloth to clean safety decals. Avoid spraying too close to decals when using a pressure washer; high-pressure water can enter through very small scratches or under edges of decals causing them to peel or come off.

REMEMBER: If Safety Signs have been damaged, removed, become illegible or parts replaced without Signs, new Safety Signs must be applied. New Safety Signs are available from your authorized distributor or factory.
SAFETY SIGN LOCATION

The types of safety signs and locations on the equipment are shown in the illustration below. Good safety requires that you familiarize yourself with various safety signs, the type of warning and the area, or particular function related to that area, that requires your SAFETY AWARENESS.

The model and serial number plate is located on the right side of the vertical part of the main frame.

The serial number is also stamped into the top cross tube of the skid steer mounting frame.

<table>
<thead>
<tr>
<th>Ref. No.</th>
<th>Part No.</th>
<th>Description</th>
<th>No. Reqd.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>101288</td>
<td>Safety Sign - Warning (Crushing and Pinching)</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>101289</td>
<td>Safety Sign - Warning (Avoid Serious Injury)</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>101295*</td>
<td>Safety Sign - Warning (Crushing Hazard)</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>101122*</td>
<td>Safety Sign - Warning (High Pressure Fluid)</td>
<td>1</td>
</tr>
<tr>
<td>5</td>
<td>101296**</td>
<td>Safety Sign - Warning (Install Lock Pins)</td>
<td>1</td>
</tr>
</tbody>
</table>

*On units equipped with Grapple Clamp only
**On John Deere units only
INSTRUCTIONS

TRACTOR AND SKID STEER REQUIREMENTS AND PREPARATION

The Manure/Silage/Debris Tine buckets are for most skid steer and tractor front loaders rated from 20 to 80 hp.

The tine buckets are designed to pick up bulky, unusually shaped, or long materials that would not stay in an ordinary bucket.

The Models M/S-60, 66, 72S and M/SG-60, 72S are designed to mount on skid steer units and tractor front loaders equipped with the universal quick-attach connection.

The integrated-frame tine bucket JD models are designed to fit the John Deere 200, 300, 400 and 500 series tractor front loaders. This includes Models M/S-50, 60, 66, 72JD and M/SG-60, 66, 72JD.

The Models M/S-60, 72U and M/SG-60, 72U are designed for farm tractor front-end loaders. Optional mounting brackets need to be ordered. They are available to fit most popular quick coupler or pin-on type loaders.

For skid steer attachment type models equipped with a grapple clamp, hoses and flat face couplers are included.

Since the length of hoses required from the front of front-end loaders to the rear remote hydraulic outlets of the various tractors varies, these hoses and hydraulic couplers are not included. These need to be ordered separately from your local dealer.

WARNING!

Power unit must be equipped with ROPS or ROPS cab and seat belt. Keep seat belt securely fastened. Falling off power unit can result in death from being run over or crushed. Keep foldable ROPS systems in "locked up" position at all times.

Check the power units hydraulic system. Be sure the hydraulic oil and filter have been serviced according to manufacturer's recommendations. Refer to your tractor or loader operator's manual or dealer for any adjustments necessary to put the hydraulic system in good working order.

CAUTION

Be sure your tractor and loader, or skid steer is in good condition. Read all the safety precautions and make sure all equipment operators are familiar with the safety rules of operation.

WARNING!

A heavy load can cause instability in driving a power unit. Make sure the rear of the tractor is properly counterbalanced with weights. Always drive slowly – especially around turns. An unstable power unit could steer badly and possibly tip over, causing injury or death.

Always use a tractor and front loader or skid steer large enough to safely handle the material to be handled. Be sure tires and rims are in good condition. Inflate tires to the proper recommended air pressure.

Check your tractor and front loader to make sure they are in good working condition. Check all loader-mounting bolts to make sure they are tight.

Be sure tractor is properly counter-balanced with weights before attempting to lift any load with the tine bucket attachment.

The tine bucket is to be used only for handling bulky material. Do not use for digging rocks, pulling out fence, or as a craning device with a chain over the tines.
ASSEMBLY – TRACTOR LOADERS PIN ON ATTACHMENT

Assemble the two (2) lift brackets on the main frame (Ref. #1) with the 5/8" x 3" I.D U-bolts. Leave the U-bolts loose.

NOTE: The lift channel brackets are supplied with 1" diameter pins to fit your loader. If your loader requires 1 1/4" pins, it will be necessary for the hole diameter in the channel brackets to be drilled out to 1 5/32" (1.156") and ask your dealer to order 1 1/8" diameter pins. The 1 1/8" pins are part #830318. Be sure to indicate if two or four 1 1/8" pins are required.

If your loader requires 1 1/4" diameter pins, please ask your dealer to order adapter bushings (part #830319). Be sure to indicate how many adapter bushings are required.


NOTE: For loaders that require brackets that provide additional roll back, order #830335 (1" pins).

Connect the assembly to the loader arms using the bottom hole in the channel and attach the upper control cylinder to the top hole in the lift channels. Center the main frame (side to side) with your loader arms and tighten the four (4) 5/8" x 3" U-Bolts.

The lower hole positions in the lift channels can be used to obtain more angle movement. However, if the arm becomes too parallel with the loader lift arms, the loader may not have enough power (mechanical advantage) to bring the frame back.

NOTE: Generally, it is not recommended to have the tilt cylinders located any closer than 10-12 inches to the main loader lift arms. Check the spacing of mounting pins on your loader bucket and use this as a guide.

If tilt cylinders are located too close to the loader arms, they may go "over center" when fully extended. If this happens, damage may occur to the cylinders and/or mounting brackets.

ASSEMBLY – QUICK ATTACH BRACKETS

If your tractor loader has a bucket Quick Attach feature, check with your dealer on the availability of adapter brackets for your brand and model loader.

Measure the width of the front adapter on your loader and locate the Quick Attach brackets on the main frame. Locate these brackets so the main frame will be centered on your loader.

Tighten the U-bolts that connect the brackets to the main frame.
INSTRUCTIONS (continued)

INSTALLATION – MODELS FOR JOHN DEERE LOADERS

ATTACHING AND DETACHING EQUIPMENT (200/300/400/500 SERIES LOADERS)

NOTE: Procedure is the same for all attachments. Bucket attachment shown.

ATTACHING

1. Extend bucket tilt cylinders to angle attaching brackets forward.

   NOTE: Angle must be greater than that of the brackets on the rear of the tine bucket.

2. Drive forward, adjusting loader height and position until the top of the loader bracket engages the hooks (C) on the tine bucket.

3. Slowly retract the bucket tilt cylinders and raise the loader so the lower lock pins (F) engage the hole in the holder strap (E).

4. Continue to retract the tilt cylinders and raise the loader until the main frame of the tine bucket is vertical.

5. Engage tractor parking brake and/or place transmission in PARK. Shut off tractor engine and remove key.

6. Install the quick-lock-pin (A) into the pins (F) on each side of the tine bucket.

7. Connect the hydraulic hoses to the auxiliary hydraulic hook up on your loader or to the rear tractor remote outlets.

8. Start the tractor. Installation is now complete.

   NOTE: On attachments with two pins (F), the 200, 300 and 400 series loaders will utilize the upper pin and the 500 series loader will utilize the lower pin.

DETACHING

1. Place transmission in neutral and start engine.

2. Roll attachment back slightly and raise boom approximately 18" (460 mm) above ground level. Completely lower grapple clamp.

3. Engage tractor parking brake and/or place transmission in PARK. Shut off tractor engine and remove key.

4. Remove the quick lock-pin (A) from each side of attachment. Store pins in storage position (B).

5. Disconnect hydraulic couplers to attachment. Lower the parking stands and pin in place.

6. Start engine and lower the tine bucket to the ground. Extend bucket tilt cylinders until pin (F) releases from holder strap (E) on each side of attachment. Lower the loader until holder brackets are free from the hooks. Back tractor away from attachment.

7. Set parking brake and/or place transmission in PARK. Shut off engine and remove key.
Attachment to Prime Mover – Universal Skid Steer Type

WARNING!

Improper attachment of the Tine Bucket could result in injury or death. Do not operate this product until you have positive indication that the attachment is securely mounted.

1. Position the attachment on a level surface.
2. The quick attach coupler handles should be in the unlocked position with lock pins retracted, Figure 2.

3. Enter the prime mover. Fasten seatbelt, start engine. Disengage the parking brake.
4. Follow the attaching procedure in the prime mover owner's manual. Align the attachment mechanism with the mounting on the tine bucket, attach to the prime mover or loader.
5. Engage the parking brake and shut down the prime mover. Be sure to relieve pressure to the auxiliary hydraulic lines.
6. Unfasten safety restraints and exit the prime mover.
7. Make sure the hydraulic couplers are clean. Connect the hydraulic lines to the prime mover. Twist the collar of the quick couplers one-quarter turn to secure hydraulic connections. If attachment unit is being installed on a tractor loader, purchase proper couplers and hoses as required and attach to the loader as per the manufacturers instructions.
8. Engage the latching mechanism to secure attachment to loader. The lockpins must be completely extended and secured into the retaining slots provided on the attachment. Figure 3.

WARNING!

Attachment coupler handles must always be rotated to LOCK POSITION to prevent coupler latch from disengaging and attachment from falling off.

Figure 2. Quick Attach Coupler Handles - Unlocked

Figure 3. Attachment Coupler Handles - Locked
TINE BUCKET INSTALLATION

Attachment to Prime Mover – Universal Skid Steer Type (continued)

9. Re-enter the primer mover. Fasten seatbelt and re-start engine.

10. Carefully raise the loader and cycle the rollback/tilt cylinders to check clearances and to ensure that the attachment is securely mounted.

11. Cycle the grapple clamp hydraulic cylinders several times full stroke to work the air out of the cylinders.

NOTICE: When shipped, the hydraulic cylinder(s) on this product contained air. Failure to remove all the air from the hydraulic cylinder(s) can cause uneven, jerky cylinder movement when the hydraulic controls are operated and possibly allow unwanted cylinder movement when those controls are not being operated.

REMOVING THE TINE BUCKET

WARNING! Serious injury or death may result from disengaging the attachment when the attachment is in an unstable position or carrying a load. Place the attachment in a stable position before disengaging.

CAUTION Hoses for the attachment must be disconnected before the quick attach is disengaged. Pulling the attachment with the hoses could result in damage to the prime mover or the attachment.

1. If possible, find a level solid location to place the attachment. This makes it easier to disconnect and to re-connect later on.

2. Lower the attachment to the ground.

3. Engage the parking brake and shut down the prime mover. Be sure to relieve pressure to the auxiliary hydraulic lines.

4. Unfasten safety restraints and exit prime mover.

5. Disconnect the attachment hydraulic lines from the prime mover. Connect quick couplers together to keep clean.

6. Disengage attachment-locking mechanism (mechanical type).

7. Enter prime mover, fasten safety restraints and start the prime mover.

8. Disengage attachment-locking mechanism (hydraulic type).

9. Disengage the parking brake, and back away from the attachment.
The operator is responsible for the safe operation of this equipment. The operator must be properly trained. Operators should be familiar with the attachment, prime mover and all safety practices before starting operation. Make sure all operators have read the Owner's/Operator Manual and are familiar with the instructions and the safety rules of operation.

All reference to left, right, front, or rear are given from the operator’s position, facing the direction of forward travel.

NOTE: Watch for and avoid hidden obstructions, i.e., stumps, rocks, concrete piers, or uneven slabs of concrete, when operating, or attachment damage may occur. Stop prime mover and implement immediately upon striking an obstruction. Turn off engine, remove key, inspect, and repair any damage before resuming operation.

Always install the quick lock pins on the John Deere 200, 300, 400 and 500 series loaders. Failure to install the lock pins may cause injury or death caused by falling attachment.

1. Approach the material so that the weight will be centered on the bottom of the bucket. The heaviest side should be closest to the back of the bucket and not near the bucket edge.

2. Before lifting, make certain the bucket is completely under the load and the bucket bottom is level or tilted back slightly.

3. Close the grapple clamp as much as possible and lift the bucket slightly to be certain that the load is secure.

NOTE: If the load appears to be unstable, lower the bucket to the ground, open the grapple clamp and reposition the load to attain full stability. Repeat until complete stability is achieved.

When using the grapple clamp as a rake to drag materials into position for pick up, THE GRAPPLE CLAMP MUST BE COMPLETELY OPEN.

NOTICE: Applying a raking-type force to partially open grapple clamp will greatly magnify the fluid pressure in the hydraulic hoses, fittings, and cylinders and may cause component failure.

WARNING!

- Never heap load heavy material where the combined weight of the attachment and material could exceed the rated lifting capacity of the loader.
- Operate the attachment only when properly seated at the operator's station.
- Do not exceed the lift capacity of your loader. See loader specifications.
- Do not handle round bales.
- Be sure the load does not stick out too far in front of the bucket. A light load sticking out too far can have the same unbalanced or tipping effect as a heavy load carried in close.
- When using the grapple, lift the load slightly and make sure that the load is secure. If the load appears to be unstable, lower the load, open the grapple and reposition the load to attain full stability.
- Reduce speed when driving over rough terrain, on a slope, or turning, to avoid overturning the vehicle.
- Avoid side slope travel whenever possible. Drive up the slope to pick up a load and then down in reverse. Carry loads as close to the ground as possible.
- Before exiting the prime mover, lower the bucket to the ground, turn off the prime mover's engine, remove the key and apply the brakes.
- Do not detach loader from tractor with this attachment installed. Equip loader with materials bucket when detaching.
OPERATING INSTRUCTIONS (continued)

During Use

WARNING! Avoid serious injury.

- THE GRAPPLE MOVES QUICKLY! Do not allow anyone near the grapple clamp.
- Never get between the grapple and the bucket.
- Do not lift any load that is taller than the height of the fully opened grapple.
- Do not roll back this product so far that the load falls off toward or on the operator.
- When stacking debris or loading vehicles, make sure you are operating in an area AWAY FROM OVERHEAD WIRES.
- Avoid holes, ditches, and obstructions which may cause prime mover to tip.
- Never allow anyone to walk or work under a raised loader.
- Operate the loader hydraulic controls smoothly, avoiding jerky operation.
- Stop loader gradually when lowering or lifting loads.
- Be sure that people, livestock, or pets are not standing near the machine while operating.
- Do not lift or carry anyone on loader or in bucket or attachment.

Transporting the Load

WARNING! Avoid serious injury.

- Raise the load to the minimum height required for the terrain that must be crossed with the load.
- Operate the prime mover so that the load always remains level.
- Accelerate, turn, and brake gradually.
- Avoid any obstacles, bumps, or holes in your intended path.
- Frequently check the load to make sure that the load has not become unstable.

Storage

- Storage location should be level and solid to make connecting and disconnecting easy.
- Always store in a clean, dry location away from children and livestock.
- Leaving the unit outside will materially shorten its life.
- Clean the unit thoroughly, removing all mud, dirt and grease.
- Inspect for visible signs of wear, breakage, or damage. Order any parts required, and make the necessary repairs to avoid delays when starting the next job.
- Tighten loose nuts, capscrews, and hydraulic connections.
- Cap hydraulic couplers to protect against contaminates.
- Touch up all unpainted surfaces with paint, to prevent rust.
- Coat the exposed portions of the cylinder rod with grease.
- Grease the unit.
OWNER SERVICE

WARNING! NEVER GO UNDERNEATH EQUIPMENT. Never place any part of the body underneath equipment or between moveable parts even when the engine has been turned off. Hydraulic system leak down, hydraulic system failures, mechanical failures, or movement of control levers can cause equipment to drop or rotate unexpectedly and cause severe injury or death.

Read Manual for service instructions or have service performed by a qualified dealer.

WARNING! Keep all persons away from operator control area while performing adjustments, service, or maintenance.

Before dismounting power unit or performing any service or maintenance, follow these steps: disengage power to equipment, lower all raised components to the ground, operate valve levers to release any hydraulic pressure, set parking brake, stop engine, remove key, and unfasten seat belt. Never leave equipment unattended with engine running.

General Information

Your attachment was designed to be almost maintenance free. Little effort is needed to keep it in top condition. It is, however, important to follow these procedures to get full performance and longevity out of the equipment.

Periodically check the large metric nut on the forged tines to make sure they are tight. Keep the forged tines aligned in the proper position.

NOTE: The grapple clamp 1.0 inch pivot bolts should have the nylock hex nut tightened only enough to remove any excess play. DO NOT OVER-TIGHTEN THESE TWO BOLTS!

IMPORTANT: When replacing parts, use only factory approved replacement parts. Manufacturer will not claim responsibility for use of unapproved parts or accessories and/or other damages as a result of their use.

Lubrication

The lubrication your Tine Bucket will need is the greasing of the grapple clamp pivot. Grease fittings have been installed in each clamp pivot tube to facilitate this task.

We recommend greasing these fittings both before and after the initial eight (8) hours of use and then every (40) hours of use thereafter.

Thoroughly clean the grease zerks before servicing. Dirt mixed with lubricant will rapidly wear parts. Keep it clean.
SERVICE INSTRUCTIONS (continued)

DAILY OR EVERY 8 HOURS OF OPERATION

Replace any missing bolts or nuts with approved replacement parts.
Check hydraulic system for leaks. See procedure below.
Visually inspect the machine for worn parts or cracked welds. Repair as necessary.

WARNING!

Escaping fluid under pressure can have sufficient force to penetrate the skin, causing serious personal injury. Fluid escaping from a very small hole can be almost invisible. Use a piece of cardboard or wood, rather than hands to search for suspected leaks.

Keep unprotected body parts, such as face, eyes, and arms as far away as possible from a suspected leak. Flesh injected with hydraulic fluid may develop gangrene or other permanent disabilities.

If injured by injected fluid, see a doctor at once. If your doctor is not familiar with this type of injury, ask him or her to research it immediately to determine proper treatment.

SAFETY SIGN IDENTIFICATION AND REPLACEMENT

Safety Sign placement and identification for all of the attachments can be found on the parts diagrams and lists located at the back of this manual. The safety signs are identified by their part numbers with reductions of the actual safety signs located on the page. Use this information to order replacements for missing, illegible or damaged safety signs. When replacing parts with safety signs attached, the safety sign must also be replaced. All Safety Signs are free of charge. Contact your local dealer or manufacturer for replacements.

Replacing Safety Signs

1. Clean the area of application with nonflammable solvent.
2. Wash the same area with soap and water.
3. Allow the surface to fully dry.
4. Remove the backing from the safety sign exposing the adhesive surface.
5. Apply the safety sign to the location shown in the parts diagram.

Helpful Hints: (1) Decals adhere to a warm surface better than a cold surface. (2) Applying heat (from a hair dryer) will greatly improve your ability to remove a damaged decal before preparing the surface for installation of a new one.

DO NOT MODIFY MACHINE OR ATTACHMENTS

Modifications may weaken the integrity of the and may impair the function, safety, life, and performance of the attachment. When making repairs, use only the manufacturer's genuine parts, following authorized instructions. Other parts may be substandard in fit and quality. Never modify any ROPS (Roll Over Protection Structure) or FOPS (Falling Object Protective Structure) equipment or device. Any modifications must be authorized in writing by the manufacturer.
# TROUBLE-SHOOTING GUIDE

<table>
<thead>
<tr>
<th>PROBLEM</th>
<th>POSSIBLE CAUSE</th>
<th>POSSIBLE REMEDY</th>
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<tbody>
<tr>
<td>Grapple clamp will not operate.</td>
<td>1. No or insufficient oil flow.</td>
<td>Remote hydraulic connection fittings not compatible. Check for proper fitting.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Hydraulic system may not be supplying rated pressure. Consult your dealer.</td>
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<td></td>
<td></td>
<td>Hydraulic system may not be delivering its rated volume of oil due to wear.</td>
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<tr>
<td></td>
<td></td>
<td>Hydraulic pump may need to be repaired.</td>
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<tr>
<td></td>
<td>2. Remote hydraulic connection fittings not compatible. Check for proper fitting.</td>
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<td>28. Hydraulic system may not be delivering its rated volume of oil due to wear.</td>
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<tr>
<td>Material slips from grapple clamp grasp.</td>
<td>1. Clamp arms not positioned correctly on material.</td>
<td>Reposition clamp arms.</td>
</tr>
<tr>
<td></td>
<td>3. Hydraulic system has leak – allowing clamping pressure to back off.</td>
<td>Find leak and repair (could be O-Ring in valve).</td>
</tr>
<tr>
<td>Loader tilt cylinders won’t pull back after tilting forward.</td>
<td>1. Loader too small for weight of material being handled.</td>
<td>Use larger tractor or skid steer with larger size loader.</td>
</tr>
<tr>
<td></td>
<td>2. Hydraulic system not operating at correct pressure.</td>
<td>Check pressure and adjust or repair.</td>
</tr>
<tr>
<td>Excessive tire slippage.</td>
<td>1. Tractor or skid steer too small.</td>
<td>Use larger, heavier power unit or reduce amount handled.</td>
</tr>
<tr>
<td></td>
<td>2. Insufficient traction.</td>
<td>Add rear tire weights or add ballast in tire. Use tractor with FWDA.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Attach heavy implement on rear of tractor for counter weight.</td>
</tr>
<tr>
<td>Bent lower main frame tines.</td>
<td>1. Improper operation.</td>
<td>Operator ramming into hard packed piles, in-ground stumps or rocks – retrain operator.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Operating in frozen ground – trying to loosen material too large to be handled.</td>
</tr>
</tbody>
</table>
Hydraulic hose failure.

1. Hydraulic relief pressure setting is very high and may cause hydraulic hose failure.

2. Hoses are worn or frayed.

3. Hose rating may be too low for hydraulic system pressure.

4. Hose is being pinched by movement of loader mount or loader linkage.

Check hydraulic system and adjust relief valve.
Replace hose.
Replace with higher rated hoses.
Reroute hose and refasten.

Hydraulic oil overheats.

1. Hydraulic oil level in prime mover may be low.

2. Hydraulic oil or oil filter in prime mover may be dirty.

3. Hydraulic oil reservoir of prime mover may be small.

Check and add oil.
Change oil and filter according to power unit manufacturer’s recommendations.
Allow time for oil to cool down.

Tine bucket is loose on loader.

1. Attachment not correct.

Tine bucket mount may not be properly latched on loader. Check lock pins.

U-bolts that connect quick-attach brackets to main frame may be loose or worn. Tighten or replace U-bolts.

NOTE: If bolts are loose or damaged, it could be that they were never properly tightened. It also could be that the operator is impacting the tine bucket into stumps or ground during operation.
## M/S-60S, M/S-66S & M/S-72S
### PARTS LIST

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## M/SG-60S & M/SG-72S

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<td>811788</td>
<td>Guard, Hydraulic Cylinder</td>
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M/S-60JD, M/S-66JD & M/S-72JD
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<td>Bolt 1/2&quot;-13NC x 1&quot; Hex Head Gr. 2</td>
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<tr>
<td>10</td>
<td>2500040</td>
<td>Nut 1/2&quot;-13NC Whiz Flange Hex</td>
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<tr>
<td>11</td>
<td>2504121</td>
<td>Cotter Pin 3/16&quot; x 1 1/2&quot;</td>
<td>2</td>
</tr>
<tr>
<td>12</td>
<td>863070</td>
<td>Cylinder Pin Ø1&quot;</td>
<td>2</td>
</tr>
<tr>
<td>13</td>
<td>2503309</td>
<td>Bolt 1&quot;-8NC x 4&quot; Hex Head Gr. 5</td>
<td>2</td>
</tr>
<tr>
<td>14</td>
<td>2500085</td>
<td>Nut 1&quot;-8NC Hex Jam Nylock</td>
<td>2</td>
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</table>
# M/S-60U & M/S-72U
## PARTS LIST

<table>
<thead>
<tr>
<th>Ref. No.</th>
<th>Part No.</th>
<th>Description</th>
<th>No. Req'd.</th>
</tr>
</thead>
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<tr>
<td>1</td>
<td>812386</td>
<td>Main Frame Weldment (M/S-60U)</td>
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<td>812391</td>
<td>Main Frame Weldment (M/S-72U)</td>
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<td>2</td>
<td>811073</td>
<td>Tine, Cranked</td>
<td>Var.</td>
</tr>
<tr>
<td>3</td>
<td>811074</td>
<td>Nut, Tine - M24</td>
<td>Var.</td>
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</table>

![Diagram of main frame weldment and tine](image.png)
# M/SG-60U & M/SG-72U
## Parts List

<table>
<thead>
<tr>
<th>Ref. No.</th>
<th>Part No.</th>
<th>Description</th>
<th>No. Req'd</th>
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<td>Tine, Cranked</td>
<td>Var.</td>
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<td>Nut, Tine - M24</td>
<td>Var.</td>
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<td>812421</td>
<td>Clamp, Manure/Silage Fork</td>
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<td>5</td>
<td>2505035</td>
<td>Bushing, Spring 1.25&quot; x 1&quot; x 1&quot;</td>
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<td>6</td>
<td>2504049</td>
<td>Zerk, Drive 5/16&quot;</td>
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<td>7</td>
<td>2504230</td>
<td>Cylinder, Hydraulic 2 x 8</td>
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<tr>
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<td>Guard, Hydraulic Cylinder</td>
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<td>Bolt 1/2&quot;-13NC x 1&quot; Hex Head Gr. 2</td>
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<td>14</td>
<td>2500085</td>
<td>Nut 1&quot;-8NC Hex Jam Nylock</td>
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</tbody>
</table>
**HYDRAULIC DIAGRAM PARTS LIST**  
(For Models M/SG-60S & M/SG-72S Only)

**NOTE:** Hoses, fittings, and couplers are not supplied on Models M/SG-60JD, M/SG-66JD, M/SG-72JD, M/SG-60U and M/SG-72U. Length of hose required is not known.

<table>
<thead>
<tr>
<th>Ref. No.</th>
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<th>Description</th>
<th>No. Req'd.</th>
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<td>2505678</td>
<td>Hose, Hydraulic 1/4&quot; ID x 72&quot;</td>
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<td>3</td>
<td>2505679</td>
<td>Hose, Hydraulic 1/4&quot; ID x 84&quot;</td>
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<td>4</td>
<td>2505681</td>
<td>Elbow, 90° Adj. 9/16&quot;-18 to 3/4&quot;-16</td>
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<td>2505684</td>
<td>Straight Connector 9/16&quot;-18 to 3/4&quot;-16</td>
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<td>Coupling, SAE 1/2&quot; Male - 3/4&quot;-16 O-Ring</td>
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<td>7</td>
<td>2505689</td>
<td>Coupling, SAE 1/2&quot; Female - 3/4&quot;-16 O-Ring</td>
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</tbody>
</table>
SAFETY REQUIREMENTS
AVOID ACCIDENTS BY FOLLOWING ALL OF THE SAFETY REQUIREMENTS LISTED BELOW.

- Machinery should be operated only by those who are responsible and are authorized to do so.
- Stop the engine, lower all equipment, lock the brakes, and remove the ignition key before dismounting from the skid steer or tractor.
- Never stand between power unit and attachment while power unit is being connected to the attachment.
- Loose fitting clothing should not be worn, to avoid catching on various parts.
- Detach attachment in area where children normally do not play.
- When performing adjustments or maintenance on an attachment, first lower it to the ground or block it securely at a workable height.
- Only a qualified operator should be permitted on power unit when in operation; no riders allowed.
- Make certain everyone is in the clear before starting power unit or raising or lowering equipment.
- Operate the power unit and attachment only while seated in the driver’s seat.
- Reduce speed when transporting mounted attachments to avoid bouncing and momentary loss of steering control.
- A heavy load can cause instability of the power unit. Use extreme care during road travel. Slow down on turns and watch out for bumps. Power unit may need counterweights to counter-balance the weight of the attachment.
- Reduce speed on hillsides or curves so there is no danger of tipping.
- Avoid driving too close to the edge of ditches or drop offs.
- Do not transport implement on public roads without reflectors and slow moving vehicle emblem in daylight and with approved warning lights at night and other periods of poor visibility.
- Keep work area clear of all debris. Never assume an area is clear. ALWAYS CHECK.
- Check to make certain there are no buried utilities in the work area before starting work.
- Keep alert and watch the rear as well as the front when working with the attachment.

MANURE / SILAGE / DEBRIS TINE BUCKETS
for Skid Steer and Tractor Front Loaders

WHEN ORDERING REPAIR PARTS,
ALWAYS GIVE THE FOLLOWING INFORMATION:

1. PART NUMBER
2. PART DESCRIPTION
3. MODEL NUMBER
4. NAME OF ITEM

MAKE EVERY DAY A HOLIDAY FROM ACCIDENTS!

OWNER’S/ OPERATOR’S MANUAL

MODEL NO.’s

M/S-50JD M/S-60JD M/S-66JD M/S-60U M/S-66U

FEBRUARY 2013

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