

OWNER'S MANUAL

**MODEL NO.
UBH-2000**



CAUTION

For Safe Operation
Read Rules And
Instructions Carefully



BALE HUGGER

SINO LEEINGLES, PIDA AYUDA A
AIGUIEN QUE SI LO LEA PARA QUE
LE TRADUZCA LAS MEDIDAS DE
SEGURIDAD.

**Safety Instructions
Tractor Preparation
Operating Instructions**

**Assembly & Mounting
Maintenance
Repair Parts**



CAUTION

**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.**

TABLE OF CONTENTS

SAFETY INFORMATION	2
SAFETY SIGNS	12
PREPARATION INSTRUCTIONS	13
OPERATING INSTRUCTIONS	16
OWNER MAINTENANCE & LUBRICATION	18
TROUBLESHOOTING	19
PARTS LISTS	20

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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.

TO THE OWNER :

Read this manual before using your Bale Hugger. This manual is provided to give you the necessary operating and maintenance instructions for keeping your Bale Hugger 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 Bale Hugger 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 Bale Hugger here:

Model:_____ Serial Number:_____

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.

To the Owner/Operator/Dealer

All implements with moving parts are potentially hazardous. There is no substitute for a cautious, safe-minded operator who recognizes the potential hazards and follows reasonable safety practices. The manufacturer has designed this implement 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 SYMBOL MEANS

- ATTENTION!
- BECOME ALERT!
- YOUR SAFETY IS INVOLVED!

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 TRACTOR 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 situation 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 situation 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.

IMPORTANT SAFETY INFORMATION!

Working with unfamiliar equipment can lead to careless injuries. Read this manual, and the manual for your tractor, before assembly or operating, to acquaint yourself with the machines. It is the implement owner's responsibility, if this machine is used by any person other than yourself, is loaned or rented, to make certain that the operator, prior to operating:

1. Reads and understands the operator's manuals.
2. Is instructed in safe and proper use.













The use of this equipment is subject to certain hazards which cannot be protected against by mechanical means or product design. All operators of this equipment must read and understand this entire manual, paying particular attention to safety and operating instructions, prior to using. If there is something in this manual you do not understand, ask your supervisor, or your dealer, to explain it to you.

SAFETY INSTRUCTIONS (continued)



EQUIPMENT SAFETY GUIDELINES

-  Safety of the operator is one of the main concerns in designing and developing a new piece of equipment. Designers and manufacturers build in as many safety features as possible. However, every year many accidents occur which could have been avoided by a few seconds of thought and a more careful approach to handling equipment. You, the operator, can avoid many accidents by observing the following precautions in this section. To avoid personal injury, study the following precautions and insist those working with you, or for you, follow them.
-  In order to provide a better view, certain photographs or illustrations in this manual may show an assembly with a safety shield removed. However, equipment should never be operated in this condition. Keep all shields in place. If shield removal becomes necessary for repairs, replace the shield prior to use.
-  Replace any CAUTION, WARNING, DANGER or instruction safety sign that is not readable or is missing. Location of such safety signs is indicated in this booklet.
-  Never use alcoholic beverages or drugs which can hinder alertness or coordination while operating this equipment. Consult your doctor about operating this machine while taking prescription medications.
-  Review the safety instructions with all users annually.
-  This equipment is dangerous to children and persons unfamiliar with its operation. The operator should be a responsible adult familiar with farm machinery and trained in this equipment's operations. **Do not allow persons to operate or assemble this unit until they have read this manual and have developed a thorough understanding of the safety precautions and of how it works.**
-  To prevent injury or death, use a tractor equipped with a Roll-Over Protective System (ROPS). Do not paint over, remove or deface any safety signs or warning signs on your equipment. Observe all safety signs and practice the instruction on them.
-  Never exceed the limits of a piece of machinery. If its ability to do a job, or to do so safely, is in question - **DON'T TRY IT.**
-  Do not modify the equipment in any way. Unauthorized modification may impair the function and/or safety and could affect the life of the equipment.
-  In addition to the design and configuration of this implement, including Safety Signs and Safety Equipment, hazard control and accident prevention are dependent upon the awareness, concern, prudence, and proper training of personnel involved in the operation, transport, maintenance, and storage of the machine. Refer also to Safety Messages and Operation Instructions in each of the appropriate sections of the Tractor and Implement Manuals. Pay close attention to the Safety Signs affixed to the Tractor and the Implement.

SAFETY INSTRUCTIONS (continued)



SAFETY TRAINING



Safety is a primary concern in the design and manufacture of our products. Unfortunately, our efforts to provide safe equipment can be wiped out by a single careless act of an operator.



In addition to the design and configuration of equipment, hazard control and accident prevention are dependent upon the awareness, concern, prudence and proper training of personnel involved in the operation, transport, maintenance and storage of equipment.



It has been said, "The best safety device is an informed, careful operator." We ask you to be that kind of an operator. It is the operator's responsibility to read and understand ALL Safety and Operating instructions in the manual and to follow these. Accidents can be avoided.



Working with unfamiliar equipment can lead to careless injuries. Read this manual, and the manual for your tractor, before assembly or operating, to acquaint yourself with the machines. It is the equipment owner's responsibility, if this machine is used by any person other than yourself, is loaned or rented, to make certain that the operator, prior to operating:

1. Reads and understands the operator's manuals.
2. Is instructed in safe and proper use.



Know your controls and how to stop tractor, engine, and loader quickly in an emergency. Read this manual and the one provided with your tractor.



Train all new personnel and review instructions frequently with existing workers. A person who has not read and understood all operating and safety instructions is not qualified to operate the machine. An untrained operator exposes himself and bystanders to possible serious injury or death.



Do not allow children to operate this machine.

SAFETY INSTRUCTIONS (continued)



SAFETY SIGNS



Keep safety signs clean and legible at all times.



Replace safety signs that are missing or have become illegible.



Replaced parts that displayed a safety sign should also display the current sign.



Safety signs are available from your Distributor or Dealer Parts Department or the factory.

How to Install Safety Signs:



Be sure that the installation area is clean and dry.



Be sure temperature is above 50°F (10°C).



Decide on the exact position before you remove the backing paper.



Remove the smallest portion of the split backing paper.



Align the sign over the specified area and carefully press the small portion with the exposed sticky backing in place.



Slowly peel back the remaining paper and carefully smooth the remaining portion of the sign in place.



Small air pockets can be pierced with a pin and smoothed out using the piece of sign backing paper.



STARTING AND STOPPING SAFETY



Be certain the tractor is in neutral or park position before starting engine.



Always shut off tractor and shift to "Park" or set brakes when leaving tractor. Always lower bucket or attachment to ground, relieve all hydraulic pressure. Remove key when leaving tractor unattended. Park in level area.



Before operating equipment: if you have any questions regarding the proper assembly or operation, contact your dealer or representative.

SAFETY INSTRUCTIONS (continued)



OPERATIONAL SAFETY



The use of this equipment is subject to certain hazards which cannot be protected against by mechanical means or product design. All operators of this equipment must read and understand this entire manual, paying particular attention to safety and operating instructions, prior to using. If there is something in this manual you do not understand, ask your supervisor, or your dealer, to explain it to you.



Most accidents occur because of neglect or carelessness. Keep all helpers and bystanders fifty feet (50') from an operating tractor and attached equipment. Only properly trained people should operate this machine. It is recommended the tractor be equipped with a Rollover Protection System (ROPS) and a seat belt that is used. Always stop the tractor, set brake, shut off the tractor engine, remove the tractor key, and lower loader to the ground before dismounting tractor. Never leave equipment unattended with the tractor running.



Please remember it is important that you read and heed the safety signs on the front loader attachment and loader, and the safety rules set forth. Clean or replace all safety signs if they cannot be clearly read and understood. They are there for your safety as well as the safety of others. The safe use of this machine is strictly up to you, the operator.



Be sure tractor is in good condition. Read all the safety precautions and make sure all tractor operators are familiar with the safety rules of operation.



Know your controls and how to stop tractor and engine quickly in an emergency. READ THIS MANUAL AND THE ONE PROVIDED WITH YOUR TRACTOR AND LOADER.



When the use of hand tools is required to perform any part of assembly, installation, adjustment, maintaining, repairing, removal, or moving the implement, be sure the tools used are designed and recommended by the tool manufacturer for that specific task.



Personal protection equipment including safety glasses, safety shoes, and gloves are recommended during assembly, installation, operation, adjustment, maintaining, repairing, removal, or moving the attachment.



Always use two people to handle heavy, unwieldy components during assembly, installation, removal, or moving the loader attachment.



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 tractor. Make sure the front or rear of the tractor is properly counter-balanced with weights. Always drive slowly – especially around turns. An unstable tractor could steer badly and possibly tip over, causing injury or death.


















Do not allow others to ride on the tractor 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!**

SAFETY INSTRUCTIONS (continued)



OPERATIONAL SAFETY (continued)

-  Before you operate any equipment, check over all pins, bolts and connections to be sure all are securely in place. Replace any damaged or worn parts immediately.
-  Do not work under a raised loader unless it is securely blocked or held in position. Do not depend on the tractor hydraulic system to hold the implement in place.
-  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 round bales on a slope, always approach the bale with the tractor facing uphill.
-  Never use the tractor/loader to stop a rolling bale.
-  Only use a tractor equipped with a ROPS cab or rollover protective structure.
-  When stacking bales, ALWAYS MAKE SURE BALES ARE PLACED SO THE STACK IS STABLE.
-  Keep all bystanders at a safe distance. REMEMBER FALLING BALES CAN ROLL OR TUMBLE.
-  Do not handle bales that exceed the bale weight limitations of the loader.
-  Carry the bale slowly and as low as possible to the ground.
-  For operator safety, always keep bale in front of tractor hood. NEVER position bale back over operator. ALWAYS BE CAREFUL!
-  Always load rear of tractor first and unload last when using a front loader.
-  Beware of lift clearance when raising loader to maximum height.
-  Keep alert and watch the rear as well as the front when working with the loader.

SAFETY INSTRUCTIONS (continued)



OPERATIONAL SAFETY (continued)



When maneuvering close to buildings or passing through narrow areas, be sure to allow sufficient clearance for the tractor, loader, and bale. Drive slowly.



Operate loader from operator's seat only. Remain at controls until operating cycle is complete.



Use extreme care when working on inclines and hillsides.



Do not operate close to ditches, creeks or holes. Slow down when operating over rough ground.



Allow for additional length of loader and bale on tractor while turning.



Never allow anyone to walk or work under a raised loader.



Be sure that people, livestock, or pets are not standing near the machine while operating.



Do not use loader for a work platform.



Do not lift or carry anyone on loader or in bucket or on attachment.



ALWAYS lower loader to the ground or block securely before performing any maintenance work.



Travel slowly over rough ground or when making turns.



Avoid excessive speed during operation.



Always keep tractor on solid footing when operating loader.



Observe Safety Recommendations in loader instruction manual.


















Inspect the entire machine periodically as indicated in the Maintenance Section of this manual. Look for loose fasteners, worn or broken parts, pinched hydraulic hoses, and leaky or loose fittings. Make sure all pins have cotter pins and washers. Serious injury may occur from not maintaining this machine in good working order.

SAFETY INSTRUCTIONS (continued)



TRANSPORT SAFETY

-  Comply with state and local laws governing highway safety and movement of farm machinery on public roads.
-  The use of flashing amber lights is acceptable in most localities. However, some localities prohibit their use. Local laws should be checked for all highway lighting and marking requirements.
-  When driving the tractor and equipment on the road or highway under 20 mph (32 kph) at night or during the day, use flashing amber warning lights and a slow moving vehicle (SMV) identification emblem.
-  Always be sure the implement is in the proper raised position for transport.
-  Reduce speed when transporting mounted implements to avoid bouncing and momentary loss of steering control.
-  Plan your route to avoid heavy traffic.
-  Always install transport locks, pins or brackets before transporting.
-  Do not drink and drive!
-  Watch for traffic when operating near or crossing roadways.
-  Turn curves or go up or down hills only at a low speed and at a gradual steering angle. Make certain that at least 20% of the tractor's weight is on the front wheels to maintain safe steering. Slow down on rough or uneven surfaces, and loose gravel.
-  Use extreme care and maintain minimum ground speed when transporting on hillside, over rough ground and when operating close to ditches or fences. Be careful when turning sharp corners.
-  Never allow riders on either tractor or implement. Falling off can kill.
-  Be a safe and courteous driver. Always yield to oncoming traffic in all situations, including narrow bridges, intersections, etc.
-  Do not exceed 20 mph (32 kph). Reduce speed on rough roads and surfaces.
-  Always disengage PTO before driving the tractor to transport the implement from one place to another.

SAFETY INSTRUCTIONS (continued)



MAINTENANCE SAFETY



Good maintenance is your responsibility. Poor maintenance is an invitation to trouble.



Follow good shop practices.

- Keep service area clean and dry.
- Be sure electrical outlets and tools are properly grounded.
- Use adequate light for the job at hand.



Make sure there is plenty of ventilation. Never operate the engine of the towing vehicle in a closed building. The exhaust fumes may cause asphyxiation.



Before working on this machine, drive to a level area, disengage the PTO, lower implement or loader (or if working underneath, raise and block securely), shut off the engine, relieve all hydraulic pressure, set the brakes, and remove the ignition keys.



Be certain all moving parts on attachments have come to a complete stop before attempting to perform 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.



Always use personal protection devices such as eye, hand and hearing protectors, when performing any service or maintenance.



Periodically tighten all bolts, nuts and screws and check that all cotter pins are properly installed to ensure unit is in a safe condition.



When completing a maintenance or service function, make sure all safety shields and devices are installed before placing unit in service.










Openings in the skin and minor cuts are susceptible to infection from hydraulic fluid. If injured by escaping hydraulic fluid, see a doctor at once. Gangrene and death can result. Without immediate medical treatment, serious infection and reactions can occur.

SAFETY INSTRUCTIONS (continued)









MAINTENANCE SAFETY (continued)

-  After servicing, be sure all tools, parts and service equipment are removed.
-  Check to ensure all safety signs are installed and in good condition. (See safety sign section for location drawing.)
-  Do not allow grease or oil to build up on any deck or platform.
-  Never replace hex bolts with less than grade five bolts unless otherwise specified, i.e. shear bolts. Refer to bolt torque chart for head identification marking.
-  Where replacement parts are necessary for periodic maintenance and servicing, genuine factory replacement parts must be used to restore your equipment to original specifications. The manufacturer will not claim responsibility for use of unapproved parts and/or accessories and other damages as a result of their use.
-  If equipment has been altered in any way from original design, the manufacturer does not accept any liability for injury or warranty.
-  A fire extinguisher and first aid kit should be kept readily accessible while performing maintenance on this equipment.



STORAGE SAFETY

-  Following operation or when unhooking, stop the tractor, set the brakes, shut off the engine, relieve all hydraulic pressure and remove the ignition keys.
-  Store the unit in an area away from human activity.
-  Do not park equipment where it will be exposed to livestock for long periods of time. Damage and livestock injury could result.
-  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.
-  If blocking is used, make sure it is solid and secure before leaving area.

SAFETY SIGNS

**OBEY ALL SAFETY
WARNINGS.**

NOTE:

If Safety Sign is missing
or damaged, replace
immediately.



CAUTION

- Read and follow owner's manual before installing, operating, or performing maintenance on this loader. Observe safety recommendations in manual.
- Loader must have a lift capacity 1000 lb. greater than the weight of bale to be handled.
- Do not lift or carry anyone on loader or in bucket or attachment.
- For operator safety, always keep bale in front of tractor hood. NEVER position bale back over operator.
- Add recommended wheel ballast or rear weight for stability. When handling loads on both ends of tractor, load rear first and unload last.
- Set wheels wide for increased stability.
- Never raise loader to extreme heights on steep inclines.
- Do not stand or work under raised loader.
- Stop engine, lower arms, relieve all hydraulic pressure, and lock brakes before leaving operator's seat.
- When handling round bales with fork type equipment, be sure bolt-in stabilizer spike is installed. Without spike, uncontrolled bale movement could occur.
- Failure to observe the above precautions could result in serious injury or death. 101026

INSTRUCTIONS

TRACTOR REQUIREMENTS AND PREPARATION

The Worksaver Bale Hugger attachment is designed to fit most farm tractor double-cylinder front-end loaders. Optional brackets are available to fit most popular bucket quick attach front-end loaders.

The Bale Hugger can handle large round bales from 46" to 80" in diameter and weighing up to 2000 pounds.

Bales can be handled with care from nearly any direction and can be stacked on their ends or sides. Most handling of plastic wrapped bales is on their ends where the plastic is 18 to 30 layers thick. Wrapped bales can be grabbed on their diameters with some care.

The Bale Hugger can be mounted for either right-hand or left-hand operation.

NOTE: The tractor should be at least 40-50 hp in size and the loader or skid steer unit needs to have sufficient lift capacity to handle the bale and the weight of the Bale Hugger.

NOTE: The Bale Hugger is only recommended for tractors and skid steer units equipped with a roll-over protective structure (ROPS) cab.

NOTE: Worksaver does **NOT** recommend the use of any loader attachment on tractors with a tricycle wheel arrangement.

Check the tractor's 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.

Be sure tires and rims are in good condition. Inflate tires to the proper recommended air pressure.

It is recommended that a ROPS (Roll-Over Protection Structure) and a seat belt be installed on all tractors. Contact your local dealer for a ROPS for your tractor.

NOTE: For mounting on skid steer units, the optional skid steer mounting bracket #831110 is required.



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

The operator is responsible for the safe operation of this equipment. The operator must be properly trained. Operators should be familiar with the tractor, loader and loader attachment, and all safety practices before starting operation. Read the safety rules and safety signs on pages 2-12.



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

ASSEMBLY

The Bale Hugger is usually shipped on a pallet. The pallet should contain: (1) Main Frame Assembly; (1) Telescopic Clamp Arm End Assembly; (1) Hydraulic operated Clamp Arm Assembly (may be assembled to main frame); (2) Lift Channel Brackets; (1) 2 1/2" x 8" Hydraulic Cylinder; and a hardware box with an owner's guide.

Before attempting assembly check the following items. Having all the needed parts and equipment readily at hand will speed up your assembly task and will make the job as safe as possible.

- Check for fasteners and pins that were shipped with the bale hugger. All hardware coming from the factory has been installed in the location where it will be used. If a part or fastener is temporarily removed for assembly reasons, remember where it goes. Keep the parts separated.
- Have a fork lift or loader along with chains and safety stands that are sized for the job ready for the assembly task.
- Have a minimum of 2 people at hand during assembly.

Remove the bucket from your front end loader or skid steer. Check your loader to make sure it is in good working order. Check all frame mounting bolts to make sure they are tight.

Loaders that attach to the tractor frame rails should have a cross-tie installed for stability.

INSTRUCTIONS (continued)

ASSEMBLY (continued)

Refer to the “exploded view” of the Bale Hugger on page 21 of this manual.

Decide if you want the Bale Hugger mounted for right-hand or left-hand operation. Right-hand set up is usually handier as the hydraulic controls are on the operator's right. This makes the hydraulic hose routing a little easier.

The Bale Hugger has a manually adjustable clamp arm end that can be unbolted and slid in or out to adjust for different size bales. The larger the bale, the farther out this end must be. The farther out this telescoping end is, the farther offset the center of the bale will be to the tractor and loader.

On initial set up, it is recommended that the lift channel bracket on this telescoping end be mounted first. Locate the lift channel bracket near the end of the main frame 3" tubular members. Then measure and position the other lift channel on the hydraulic operated clamp end of the main frame. For wide settings, the lift channel bracket will clamp over the wide-set angel brackets (see figure A).

These lift channels may have to be adjusted after the Bale Hugger is set for your particular size bales or if the setting is changed to handle another bale size.

Assemble the two lift brackets (Ref. #14) on the main frame (Ref. #1) with the $\frac{5}{8}$ " 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 $1\frac{1}{8}$ " pins, it will be necessary for the hole diameter in the channel brackets to be drilled out to $1\frac{5}{32}$ " (1.156") and ask your dealer to order $1\frac{1}{8}$ " diameter pins. The $1\frac{1}{8}$ " pins are part #830318. Be sure to indicate if two or four $1\frac{1}{8}$ " pins are required.

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

NOTE: The Ford Model 7109, 7209, 7210 and 7410 Loaders require special mounting brackets instead of the standard lift channels supplied. Order #830330 for this application.

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.

Connect the above 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) $\frac{5}{8}$ " x 3" U-Bolts.

The lower hole positions in the lift channels can be used to obtain more angle movement. However, if the frame 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.



CAUTION!



To help prevent personal injury, stand clear of frame and loader. Keep feet away from underside of main frame.

To move the manually adjustable clamp arm end of the Bale Hugger, it is recommended that you use the following procedure:

1. Raise the Bale Hugger about 24 inches from the ground and block under the main frame of the Bale Hugger.
2. Remove the two bolts that go through the main frame and the telescoping members of the clamp arm end.
3. Use a 5 or 6 ft. wood post to bump the manually adjustable clamp arm end in or out until the desired distance is reached and the holes in the telescoping pieces are lined up.
4. Re-install the two bolts and tighten.

Install bale roll-back guard on the top tubular member of the Bale Hugger. Roll-back guard clamps on with two (2) $\frac{5}{8}$ " x 3" U-bolts. Refer to exploded parts drawing.

Position roll-back guard so that it is centered between the Bale Hugger clamp arms.

INSTRUCTIONS (continued)

ASSEMBLY (continued)

The Bale Hugger has a reversible hydraulic operated clamp arm (see figure B). The concave position provides a more aggressive grasp of the bale, but may cause some damage to plastic wrapping (especially where plastic layers are few).

The convex position of the clamp arm will have less tendency to cause damage to plastic wrapping.

To change position of the reversible hydraulic operated clamp arm, use the following procedure:

1. Disconnect the hydraulic cylinder from the clamp arm.
2. Remove the clamp arm from the main frame by unbolting and pulling the two pivot pins. Reverse the clamp arm and reinstall the pivot pins.

NOTE: This is a job requiring help or an overhead hoist.

3. Unbolt and remove the hydraulic cylinder lug bracket from the clamp arm. Reposition the cylinder lug bracket and bolt securely.

NOTE: Be sure the lug bracket is being forced against the square tube member when the cylinder is exerting clamping pressure – if incorrectly located, the pressure is only held by the bolts and failure could occur.



Never operate Bale Hugger without anti-roll back guard in place

Operation without this guard in place could result in serious injury or death.

Install 90° hydraulic fittings in the 2½" x 8" hydraulic double-acting cylinder. Use a good thread sealant. (**DO NOT USE TEFLON TAPE** as this could cause hydraulic system problems in your tractor or loader.)

Route the hoses (not supplied) back to your tractor/loader control valve. Be sure to allow a loop of hose just behind the attachment to allow for the tilt angles that will be encountered. Make sure that the hoses are routed so they will not be pinched or snagged by attachment pivot arms, loader, or tractor parts. Fasten the hoses securely so they will remain in the correct position and not drop down where they could be pinched or sheared.



Escaping hydraulic fluid under pressure can penetrate the skin, causing serious injury.

DO NOT use your hand to check for leaks. Use a piece of cardboard or paper to search for leaks.

Stop engine and relieve pressure before connecting or disconnecting lines.

Tighten all connections before starting engine or pressurizing lines.

If any fluid is injected into the skin, obtain medical attention immediately, or gangrene may result.

PRE-OPERATION CHECKLIST

(OWNER/OPERATOR RESPONSIBILITY)

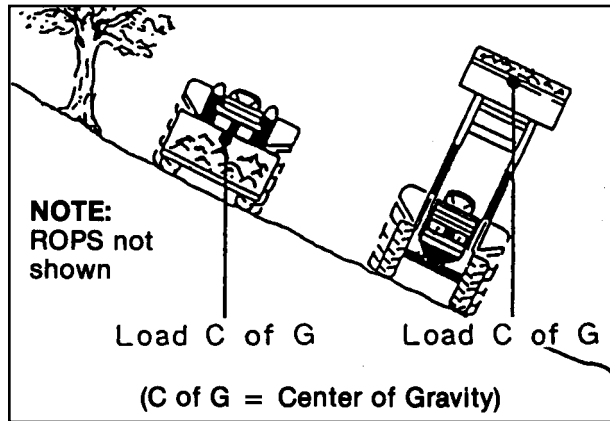
- ____ Review and follow safety rules and safety signs on pages 2 through 12.
- ____ Check that Bale Hugger is properly and securely attached to tractor loader.
- ____ Lubricate all grease fitting locations.
- ____ Check that all hardware is properly installed.
- ____ Check that no one enters the area of machine operation. Always work at a safe distance from roads, built-up areas, or populated places.
- ____ Know your controls and how to stop tractor, engine and PTO quickly in an emergency. READ THIS MANUAL AND THE ONE PROVIDED WITH YOUR TRACTOR AND LOADER.
- ____ To avoid accident or injury, do not allow anyone to operate this equipment without proper instructions. Any person who operates this equipment must be instructed in and be capable of the safe operation of the tractor, implement and all controls.

**OBEY ALL
SAFETY
WARNINGS!**

OPERATING INSTRUCTIONS

OPERATION

Be sure tractor is properly counter-balanced with weights before attempting to lift any load with the Bale Hugger Attachment.



When working on side hills, **DO NOT RAISE LOADER TOO HIGH.** Keep an eye on terrain changes. Keep load low.

HANDLING BALE BY ITS END

Using the bucket tilt cylinders, adjust the angle of the Bale Hugger so that the open outer ends of the clamp arms are hanging down 45° to 60°. Approach the bale slowly with the Bale Hugger raised above the bale. When you are above the bale, lower your loader so that the Bale Hugger gently drops onto the bale at the 45° to 60° angle. This method is also best for releasing a bale, as it provides you the best visibility of the bale and clamp arm ends.

When the Bale Hugger is correctly positioned, apply pressure to the clamp arm cylinder and firmly grasp the bale. Then, using the tilt cylinders, rotate the bale up and back so that the loader is carrying the bale tilted back 15° to 30°.

It is recommended that the bale be tilted back when transporting. Always carry a bale with the loader in a low position so that you have good visibility and a low center of gravity.

When handling bales for the first time or different bales, always raise the bale only six (6) inches above the ground and get off the tractor and check the Hugger and bale. Make sure that there is no slippage of the bale from the Bale Hugger's grasp. Any slippage would indicate improper Bale Hugger adjustment or inadequate hydraulic clamping pressure.

If you are handling plastic wrapped bales, check to make sure that the plastic wrapping is not being damaged. If damage is encountered, it may be necessary to grasp the bale differently or change the hydraulic clamp arm to the convex position.

HANDLING BALE BY ITS DIAMETER

To grasp the bale by its diameter, it is best to position the Bale Hugger with its open clamp arm ends either straight out (forward) or tilted straight down. The latter position is used when you wish to rotate a bale laying on its side so that it may be stacked on its end.

Approach the bale slowly and with the Bale Hugger above the bale. When the Bale Hugger is over the bale, lower the loader and position the bale within the open clamp arms of the Bale Hugger. Grasp the bale firmly with the hydraulic operated clamp arm.

As mentioned earlier, check the Bale Hugger and bale for proper clamping before attempting to transport or raise any distance.

When stacking plastic wrapped bales, check the ground surface area for any sharp stalk ends, sharp rocks or other projections that could puncture a hole in the plastic covering and cause spoilage.



Beware of lift clearance when raising loader to maximum height.

**REPLACE
SAFETY SIGNS
IF DAMAGED
OR MISSING.**

OPERATING INSTRUCTIONS (continued)

When stacking hay bales or loading vehicles, make sure you are operating in an area **AWAY FROM OVERHEAD WIRES**.



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

HANDLE ROUND BALES SAFELY

Improper use of loaders to handle round bales can result in serious injury or death to the tractor/loader operator. This could be caused by the bale rolling back down the loader into the operator's station.

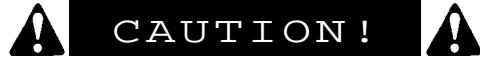
For optimum stability and visibility:

- Do not handle bales that exceed the bale weight limitations of the loader.
- Carry the bale slowly and as low as possible to the ground.
- Operate the loader controls smoothly, avoiding jerky operation.
- When handling round bales on a slope, always approach the bale with the tractor facing uphill.
- Never use the tractor/loader to stop a rolling bale.
- Only use a tractor equipped with a ROPS cab or roll-over protective structure.
- Use particular care when working on inclines and hill-sides.
- Avoid holes, ditches, and obstructions which may cause tractor/loader to tip.
- Never allow anyone to walk or work under a raised loader.
- Be sure that people, livestock, or pets are not standing near the machine while operating.

When stacking bales, **ALWAYS MAKE SURE BALES ARE PLACED SO THE STACK IS STABLE.**

Keep all bystanders at a safe distance. **REMEMBER – FALLING BALES CAN ROLL OR TUMBLE.**

TRANSPORTING



NEVER LET ANYONE CLIMB ON STACKED ROUND HAY BALES.



When traveling on public roads, whether at night or during the day, use accessory light and devices for adequate warnings to operators of other vehicles. Comply with all federal, state and local laws.

Carry load low.

Check visibility. If visibility is impaired, reduce speed or consider other means of bale transport.

Allow for additional length of loader on tractor while turning.

Select a safe ground travel speed when transporting from one area to another. When traveling on roadways, transport in such a way that faster moving vehicles may pass you safely.

When traveling over rough or hilly terrain or when making turns, slow down and use extra care.

Read all the safety warnings in the front of the manual.

Equip tractors with roll-over protection (ROPS) and keep all machinery guards in place.

Keep children away from danger all day, every day . . .

Please work, drive, play and live each day with care and concern for your safety and that of your family and fellow citizens.

OWNER SERVICE

MAINTENANCE



Always stop the tractor or skid steer, set brake, shut off engine, remove key, and lower loader to ground before attempting to service. Never leave equipment unattended with engine running.

Do not get under machine to make measurements or adjustments without securely blocking implement first.

If the machine is used in heavy duty conditions, the maintenance operations must be carried out more frequently.

Thoroughly clean the grease zerks before servicing. Dirt mixed with lubricant will rapidly wear parts and destroy bearings. Keep it clean.



Do not work under a raised loader unless it is securely blocked or held in position. Do not depend on the hydraulic system to hold loader and attachment in place.

Check the pins at the ends of the loader arms. Make sure they are locked in place with the linchpins.

Periodically check all bolts to make sure they are tight.

Check hydraulic hoses. Make sure they are not chafed or pinched. Replace any damaged hose.

Check hydraulic hoses and fittings for leaks. Repair any leaks immediately. Never use your hand to check for a hydraulic leak when system is under pressure.

Periodically lubricate the swing arm pivot bushings.

Replace any worn or damaged parts immediately. Do not use Bale Huger attachment with any damaged parts.

OBEY ALL SAFETY WARNINGS!

**REPLACE SAFETY SIGNS
IF DAMAGED OR MISSING.**

STORAGE

- Never store equipment with fuel in the tank inside a building where fumes may reach an open flame or spark. Allow engine to cool before storing in an enclosure.
- Do not run engine indoors – exhaust gasses contain carbon monoxide, and odorless and deadly poison.
- At the end of the working season or when the Bale Huger will not be used for a long period, it is good practice to clean off any dirt or grease that may have accumulated.
- Inspect the Bale Huger for loose, damaged or worn parts and adjust or replace if needed.
- Store with clamp arms open so hydraulic cylinder is closed to protect the cylinder rod. If this is not possible, smear grease on the cylinder rod.
- Sand areas where paint is chipped or worn and repaint to prevent rust. Lubricate all pivot locations on Bale Huger to prevent moisture damage during storage.
- Always store in a safe place away from children or livestock.

DISMANTLING

When the machine is no longer usable and must be dismantled, remember that it is almost completely made of ferrous material.

The only potentially polluting components on the machine are the lubricants and hydraulic oil. To prevent them from polluting the environment, spread a waterproof tarpaulin on the ground, position the machine on this and then drain out the lubricants which must be collected in suitable containers.

Now dismantle the machine, separating the components in the following way:

- Painted Parts
- Ferrous Parts
- Rubber Parts

Contact those companies that are legally authorized to dispose of such materials.

TROUBLESHOOTING GUIDE

PROBLEM	POSSIBLE CAUSE	POSSIBLE REMEDY
Bale slips from Bale Hugger grasp.	<ol style="list-style-type: none"> 1. Bale Hugger clamp arms not adjusted properly. 2. Not firmly clamped by hydraulic cylinder. 3. Hydraulic system has leak – allowing clamping pressure to back off. 	<p>Reposition clamp arms. (Narrower)</p> <p>Operate hydraulic cylinder to clamp tighter.</p> <p>Find leak and repair (could be O-Ring in valve).</p>
Bales and/or plastic covering being torn when lowering Bale Hugger on bale.	<ol style="list-style-type: none"> 1. Bale Hugger set too narrow for size of bale. 2. Careless driving and/or loader operation. 3. Not enough plastic on bale. 	<p>Open wider.</p> <p>Change operators or retrain.</p> <p>Add more wraps of plastic.</p>
Tilt cylinders won't pull Bale Hugger back after positioning clamp arm ends straight down.	<ol style="list-style-type: none"> 1. Loader tilt cylinders are too close to loader arm pins in lift channels. 2. Loader too small for weight of bale being handled. 3. Hydraulic system not operating at correct pressure. 	<p>Move further apart.</p> <p>Use larger tractor with larger size loader.</p> <p>Check pressure and adjust or repair.</p>
Bale is off to one side of tractor and loader.	<ol style="list-style-type: none"> 1. Lift brackets on frame not set correctly. 	<p>Loosen brackets and measure from center of frame to position correctly.</p>
Bale shape is greatly distorted when clamped.	<ol style="list-style-type: none"> 1. Bale too soft. 2. Excessive hydraulic pressure. 	<p>Re-adjust baler to have firmer bale.</p> <p>Re-adjust hydraulic pressure or change cylinder to one with smaller bore.</p>
Hydraulic clamp arm causes plastic wrap to tear when clamping bale.	<ol style="list-style-type: none"> 1. Bale Hugger not adjusted correctly for size of bale. 2. Hydraulic clamp arm in concave position – needs to be reversed to convex. 	<p>Adjust clamp arms.</p> <p>Reverse clamp arm.</p>

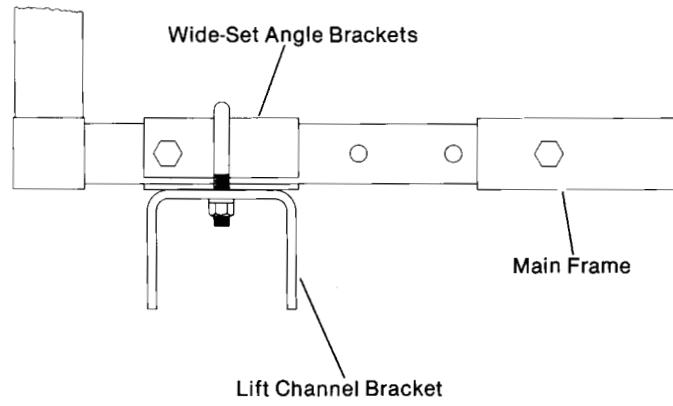


FIGURE A

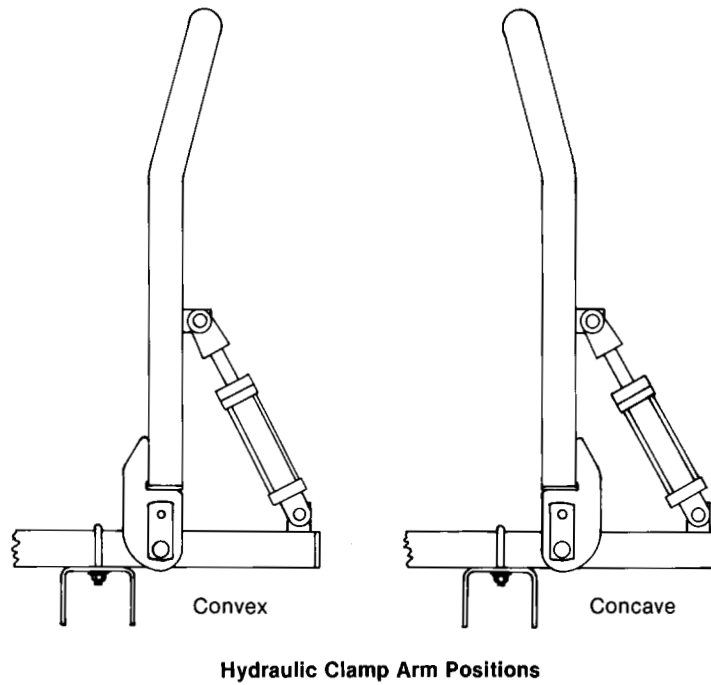
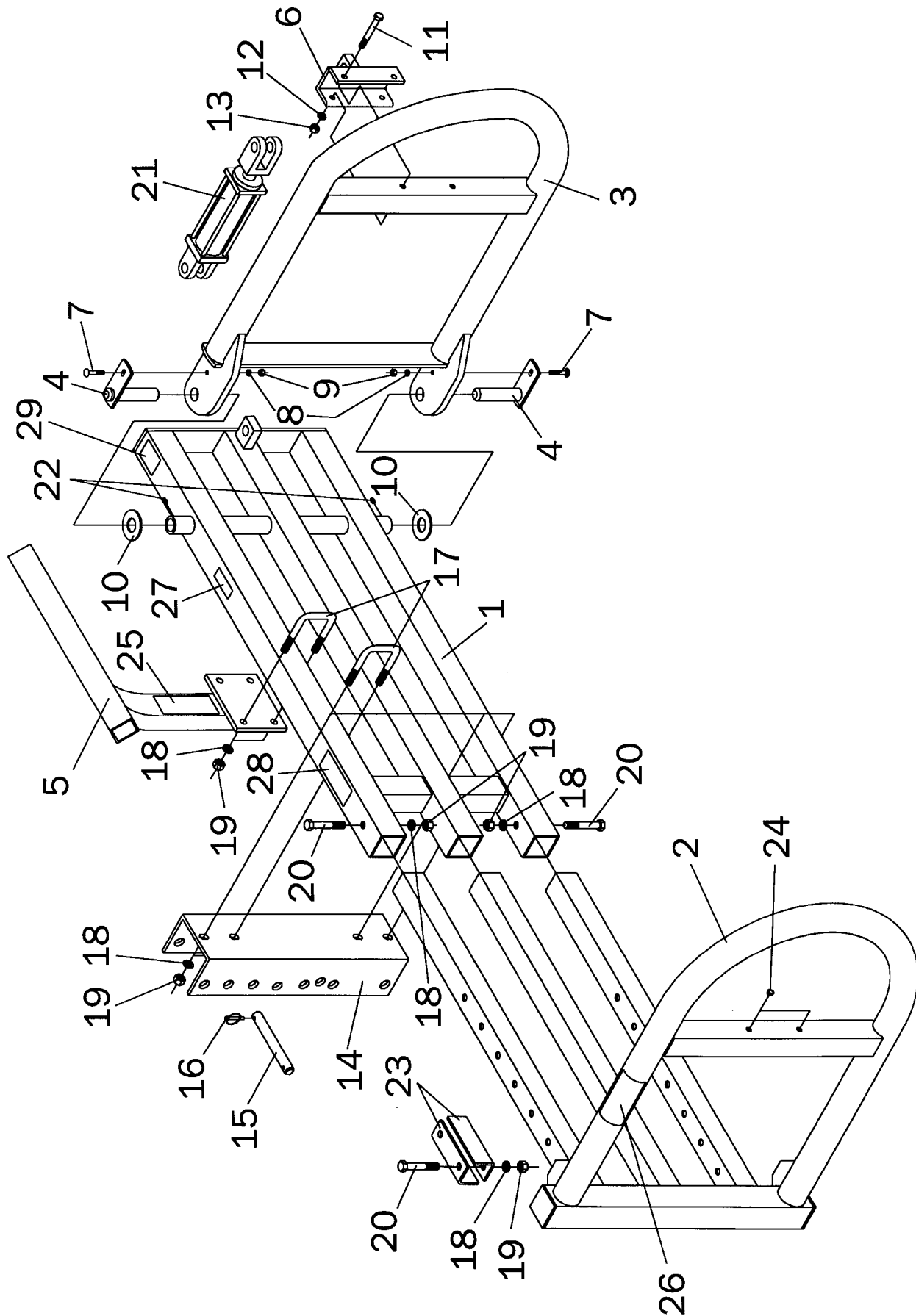


FIGURE B

UBH-2000 PARTS VIEW



UBH-2000 PARTS LIST

Ref. No.	Part No.	Description	No. Req'd.
1	832873	Main Frame Weldment	1
2	832874	Adjustable Arm Weldment	1
3	832852	Clamp Arm Weldment	1
4	832857	Pivot Pin Weldment	2
5	832861	Backstop Weldment	1
6	832880	Cylinder Bracket	1
7	2503189	Bolt 3/8"–16NC x 2" Carriage Head	2
8	2502008	Washer 3/8" Springlock	2
9	2500004	Nut 3/8"–16NC Full Hex	2
10	2501010	Washer 1 1/4" Flat	2
11	2503221	Bolt 1/2"–13NC x 4" Hex Head Gr. 5	2
12	2502002	Washer 1/2" Springlock	2
13	2500003	Nut 1/2"–13NC Full Hex	2
14	830317	Lift Bracket	2
15	830309	Lift Pin (1" Dia. x 8")	4
16	590034	Linchpin 1/4" (AK-61)	8
17	830214	U-Bolt 5/8"–11NC 3" x 4 1/2"	6
18	2502007	Washer 5/8" Springlock	16
19	2500013	Nut 5/8"–11NC Full Hex	16
20	2503066	Bolt 5/8"–11NC x 4" Hex Head	4
21	2504071	Hydraulic Cylinder 2.5 x 8	1
22	2504049	Drive Zerk 5/16"	2
23	832871	Wide Set Angle Bracket	4
24	2400039	Cap Plug 1/2"	4
25	101026	Safety Sign – Caution (Read Instruction Manual)	1
26	101027	Safety Sign – Warning (Stand Clear)	2
27	101034	Safety Sign – Caution (Hay Equipment)	1
28	101041	Safety Sign – Notice (2000 Lb. Capacity)	1
29	101122	Safety Sign – Warning (Hi-Pressure)	1

SAFETY PRECAUTIONS

**MOST ACCIDENTS OCCUR BECAUSE OF NEGLIGENCE OR CARELESSNESS.
AVOID NEEDLESS ACCIDENTS BY FOLLOWING ALL OF THE SAFETY PRECAUTIONS 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 tractor.
- Never stand between tractor and implement while tractor is being backed to hitch.
- Loose fitting clothing should not be worn, to avoid catching on various parts.
- Detach implement in area where children normally do not play.
- When performing adjustments or maintenance on an implement, first lower it to the ground or block it securely at a workable height.
- Only a qualified operator should be permitted on tractor when in operation; no riders allowed.
- Make certain everyone is in the clear before starting tractor or raising or lowering equipment.
- Operate the tractor and implement only while seated in the driver's seat.
- Reduce speed when transporting mounted implements to avoid bouncing and momentary loss of steering control.
- A heavy load can cause instability of the tractor. Use extreme care during road travel. Slow down on turns and watch out for bumps. Tractor may need front counterweights to counter-balance the weight of the implement.
- Reduce speed on hillsides or curves so there is no danger of tipping.
- Avoid driving too close to the edge of ditches or creeks.
- 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.
- Due to the width of some implements, use extra caution on highways, farm roads, and when approaching gates.
- Always be sure the implement is in the proper position for transport.
- Keep alert and watch the front as well as the rear when working with the implement.

OWNER'S MANUAL

**MODEL NO.
UBH-2000**

**WHEN ORDERING
REPAIR PARTS, ALWAYS
GIVE THE FOLLOWING
INFORMATION:**

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

JANUARY 2000

*Please work, drive, play and live each day with care
and concern for your safety and that of your family
and fellow citizens.*

**MAKE EVERY DAY
A HOLIDAY FROM ACCIDENTS**

BALE HUGGER

WORKSAVER LIMITED WARRANTY

W orksaver warrants its implements, parts and accessories to be free from defects in materials and workmanship for a period of six (6) months from date of purchase. Upon written approval, W orksaver will repair or exchange without charge any part, which upon examination by W orksaver or its authorized agent, shall disclose to be defective.

This does not apply to (1) parts that have worn out in normal use, (2) parts broken because of improper assembly or operation by the customer, (3) parts accidentally damaged, (4) failure of parts traceable to improper care, (5) parts failing through use of implement for purposes other than those for which it was designed.

The obligations assumed by W orksaver and the limitations expressed herein are in lieu of all other warranties expressed or implied.

W O R K S A V E R , I N C .

P.O. BOX 100 LITCHFIELD, IL 62056-0100 (217) 324-5973

WEB: <http://www.worksaver.com> E-MAIL: sales@worksaver.com