

BALE SPEAR

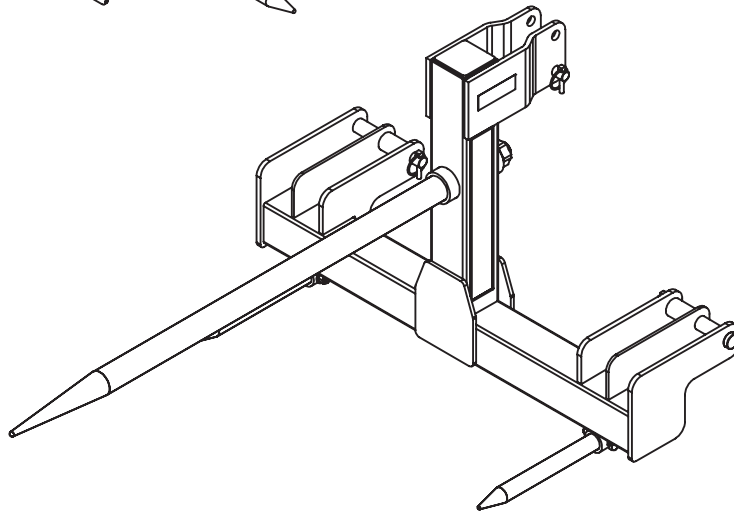
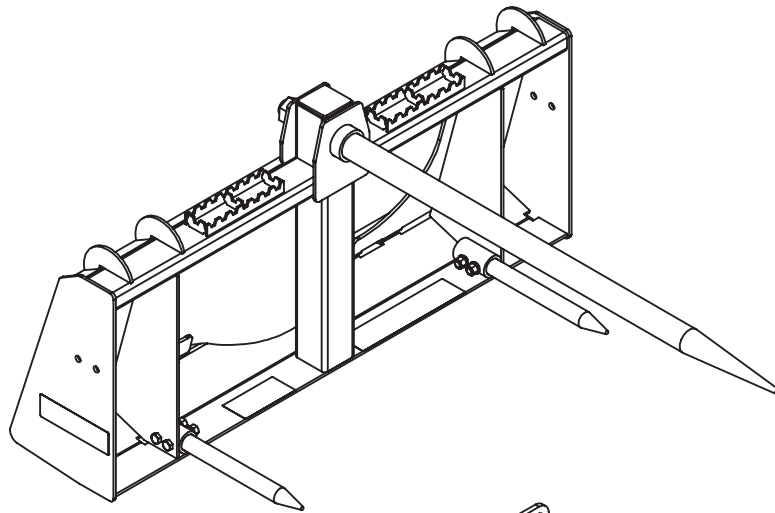
BS30443PT

BS3044S2

BS4032S2

BS4044S2

BS6044S2



MAN1402
(Rev 02/10/2025)

WOODS[®]

OPERATOR'S MANUAL

TO THE DEALER:

Assembly and proper installation of this product is the responsibility of the Woods® dealer. Read manual instructions and safety rules. Make sure all items on the Dealer's Pre-Delivery and Delivery Checklists in the Operator's Manual are completed before releasing equipment to the owner.

The dealer must complete the online Product Registration form at the Woods Dealer Website which certifies that all Dealer Checklist items have been completed. Dealers can register all Woods product at dealer.WoodsEquipment.com under Product Registration.

Failure to register the product does not diminish customer's warranty rights.

TO THE OWNER:

Read this manual before operating your Woods equipment. The information presented will prepare you to do a better and safer job. Keep this manual handy for ready reference. Require all operators to read this manual carefully and become acquainted with all adjustment and operating procedures before attempting to operate. Replacement manuals can be obtained from your dealer. To obtain complete warranty details, visit WoodsEquipment.com/warranty. You may also request a hard copy by calling 1-800-319-6637 or mail your request to: Woods Equipment Company, Attn: Warranty Dept. 2606 South Illinois Route 2, Oregon, IL 61061. To locate your nearest dealer, check the Dealer Locator at www.WoodsEquipment.com, or in the United States and Canada call 1-800-319-6637.

The equipment you have purchased has been carefully engineered and manufactured to provide dependable and satisfactory use. Like all mechanical products, it will require cleaning and upkeep. Lubricate the unit as specified. Observe all safety information in this manual and safety decals on the equipment.

For service, your authorized Woods dealer has trained mechanics, genuine Woods service parts, and the necessary tools and equipment to handle all your needs.

Use only genuine Woods service parts. Substitute parts will void the warranty and may not meet standards required for safe and satisfactory operation. Record the model number and serial number of your equipment in the spaces provided:

Model: _____ **Date of Purchase:** _____

Serial Number: (see Safety Decal section for location) _____

Provide this information to your dealer to obtain correct repair parts.

Throughout this manual, the term **NOTICE** is used to indicate that failure to observe can cause damage to equipment. The terms **CAUTION**, **WARNING**, and **DANGER** are used in conjunction with the Safety-Alert Symbol (a triangle with an exclamation mark) to indicate the degree of hazard for items of personal safety.



This is the safety alert symbol. It is used to alert you to potential physical injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.



Indicates a hazardous situation that, if not avoided, will result in death or serious injury.



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



Indicates a hazardous situation that, if not avoided, could result in minor or moderate injury.

**IMPORTANT
or NOTICE**


Is used to address practices not related to physical injury.

NOTE


Indicates helpful information.

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¡LEA EL INSTRUCTIVO!
Si no lee Ingles, pida ayuda a alguien que si lo lee para que le traduzca las medidas de seguridad.



This Operator's Manual should be regarded as part of the machine. Suppliers of both new and second-hand machines must make sure that this manual is provided with the machine.

SPECIFICATIONS

MODELS

SPECIFICATION	BS30443PT	BS3044S2	BS4032S2	BS4044S2	BS6044S2
Weight (lbs)	147	184	270	281	296
Maximum Carry Load (lbs) at load center 19.7" (500 mm) from frame	3000	3000	4000	4000	6000
Spear Diameter (mm)	Ø50	Ø50	Ø36	Ø36	Ø50

GENERAL INFORMATION

WARNING

- **Some illustrations in this manual show the bale spear with the lock plate removed to provide a better view. The bale spear should never be operated with the lock plate removed.**

The purpose of this manual is to assist you in operating and maintaining your bale spear. Read it carefully. It furnishes information and instructions that will help you achieve years of dependable performance. These instructions have been compiled from extensive field experience and engineering data. Some information may be general in nature due to unknown and varying operating conditions. However, through experience and these instructions, you should be able to develop procedures suitable to your particular situation.

The illustrations and data used in this manual were current at the time of printing, but due to possible inline production changes, your machine may vary slightly in detail. We reserve the right to redesign and change the machines as may be necessary without notification.

Throughout this manual, references are made to right and left directions. These are determined by standing behind the equipment facing the direction of forward travel.

SAFETY RULES



ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!



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 an operator's single careless act.

In addition to the design and configuration of equipment, hazard control and accident prevention are dependent upon the awareness, concern, judgement, 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 operator.

TRAINING

- Safety instructions are important! Read all attachment and power unit manuals; follow all safety rules and safety decal information. (Replacement manuals and safety decals are available from your dealer. To locate your nearest dealer, check the Dealer Locator at www.WoodsEquipment.com, or in the United States and Canada call 1-800-319-6637.) Failure to follow instructions or safety rules can result in serious injury or death.
- If you do not understand any part of this manual and need assistance, see your dealer.
- Know your controls and how to stop engine and attachment quickly in an emergency.
- Operators must be instructed in and be capable of the safe operation of the equipment, its attachments, and all controls. Do not allow anyone to operate this equipment without proper instructions.
- Never allow children or untrained persons to operate equipment.

PREPARATION

- Check that all hardware is properly installed. Always tighten to torque chart specifications unless instructed otherwise in this manual.
- Counterweight ballast may be required for machine stability. Check your power unit manual or contact your dealer.

- Power unit must be equipped with ROPS or ROPS cab and seat belt/operator restraint. Keep seat belt/operator restraint securely fastened/engaged. 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.
- Air in hydraulic systems can cause erratic operation and allows loads or equipment components to drop unexpectedly. When connecting equipment or hoses or performing any hydraulic maintenance, purge any air in hydraulic system by operating all hydraulic functions several times. Do this before putting into service or allowing anyone to approach the equipment.
- Be sure attachment is properly secured, adjusted, and in good operating condition. Coupler lockpins must be fully extended and properly engaged into attachment retaining slots.
- Always wear relatively tight and belted clothing to avoid entanglement in moving parts. Wear sturdy, rough-soled work shoes and protective equipment for eyes, hair, hands, hearing, and head; and respirator or filter mask where appropriate.
- Make sure all safety decals are installed. Replace if damaged. (See Safety Decals section for location.)

OPERATION

- Improper operation can cause the machine to tip or roll over and cause injury or death.
 - Keep power unit lift arms and attachment as low as possible.
 - Do not travel or turn with power unit lift arms and attachment raised.
 - Turn only on level ground.
 - Go up and down slopes, not across them.
 - Keep the heavy end of the machine uphill.
 - Do not overload the machine.
- Never use attachment to carry loads that exceed the rated operating capacity or other specifications of the power unit. Check your power unit manual or see your dealer for rated operating capacity. Exceeding this capacity can cause machine to tip, roll over, or present other hazards that can cause injury or death.

SAFETY RULES



ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!



- Do not allow children, bystanders or animals in the area when operating, attaching, removing, assembling, or servicing equipment.
- Contact with high voltage, overhead power lines, underground cables, gas lines, and other hazards can cause serious injury or death from electrocution, explosion, or fire.
- Do not operate or transport equipment while under the influence of alcohol or drugs.
- Operate only in daylight or good artificial light.
- Keep hands, feet, hair, and clothing away from equipment while engine is running. Stay clear of all moving parts.
- Always comply with all state and local lighting and marking requirements.
- Do not allow riders. Do not lift or carry anybody on the power unit or attachments.
- Always sit in power unit seat when operating controls or starting engine. Securely fasten seat belt/operator restraint, place transmission in park or neutral, engage brake and ensure all other controls are disengaged before starting power unit engine.
- Look down and to the rear and make sure area is clear before operating in reverse.
- Use extreme care when working close to fences, ditches, other obstructions, or on hillsides.
- Use caution when handling loose or shiftable loads.
- Do not operate or transport on steep slopes.
- Allow for bale spear length when making turns.
- Stop the bale spear gradually when lowering or lifting.
- Do not stop, start, or change directions suddenly on slopes.
- Use extreme care and reduce ground speed on slopes and rough terrain.
- Watch for hidden hazards on the terrain during operation.
- Stop power unit and implement immediately upon striking an obstruction. Dismount power unit, using proper procedure. Inspect and repair any damage before resuming operation.
- Leak down or failure of mechanical or hydraulic system can cause equipment to drop.
- **AVOID INJURY OR DEATH FROM FALLING OBJECTS:**
 - Do not carry shiftable items. Logs, fence posts, stones, and other objects can roll or fall from a raised attachment and crush operator or children, bystanders, or animals.
 - This unit is not equipped with any method to prevent objects such as posts, or logs from rolling back onto operator.
 - Carry loads low and drive slowly.
 - Do not carry large objects that can fall out of attachment into operator zone.
 - Never lift load higher than necessary to clear the ground when moving.
- Before leaving operator's seat, lower lift arms and put attachment on the ground. Engage brake, stop engine, remove key, and remove seat belt.

MAINTENANCE

- **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.
 - Service work does not require going underneath.
 - Read Operator's Manual for service instructions or have service performed by a qualified dealer.
- Before performing service work that requires repair or replacement of parts, remove attachment from power unit. Hydraulic system failures, mechanical failures, or movement of control levers can cause equipment to drop or rotate unexpectedly and cause severe injury or death.
- Do not modify or alter or permit anyone else to modify or alter the equipment or any of its components in any way.

SAFETY RULES



ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!



- Always wear relatively tight and belted clothing to avoid getting caught in moving parts. Wear sturdy, rough-soled work shoes and protective equipment for eyes, hair, hands, hearing, and head; and respirator or filter mask where appropriate.
- Your dealer can supply original equipment hydraulic accessories and repair parts. Substitute parts may not meet original equipment specifications and may be dangerous.
- Be sure attachment is properly secured, adjusted, and in good operating condition. Coupler lockpins must be fully extended and properly engaged into attachment retaining slots.
- Never perform service or maintenance with engine running.
- Do not allow children, bystanders or animals in the area when operating, attaching, removing, assembling, or servicing equipment.
- Keep all persons away from operator control area while performing adjustments, service, or maintenance.
- Tighten all bolts, nuts, and screws to torque chart specifications. Check that all cotter pins are installed securely to ensure equipment is in a safe condition before putting unit into service.
- Make sure all safety decals are installed. Replace if damaged. (See Safety Decals section for location.)
- Leak down or failure of mechanical or hydraulic system can cause equipment to drop.

STORAGE

- Block equipment securely for storage.
- Follow manual instructions for storage.
- Keep children, bystanders, and animals away from the equipment and the storage area
- Store on level, solid ground.

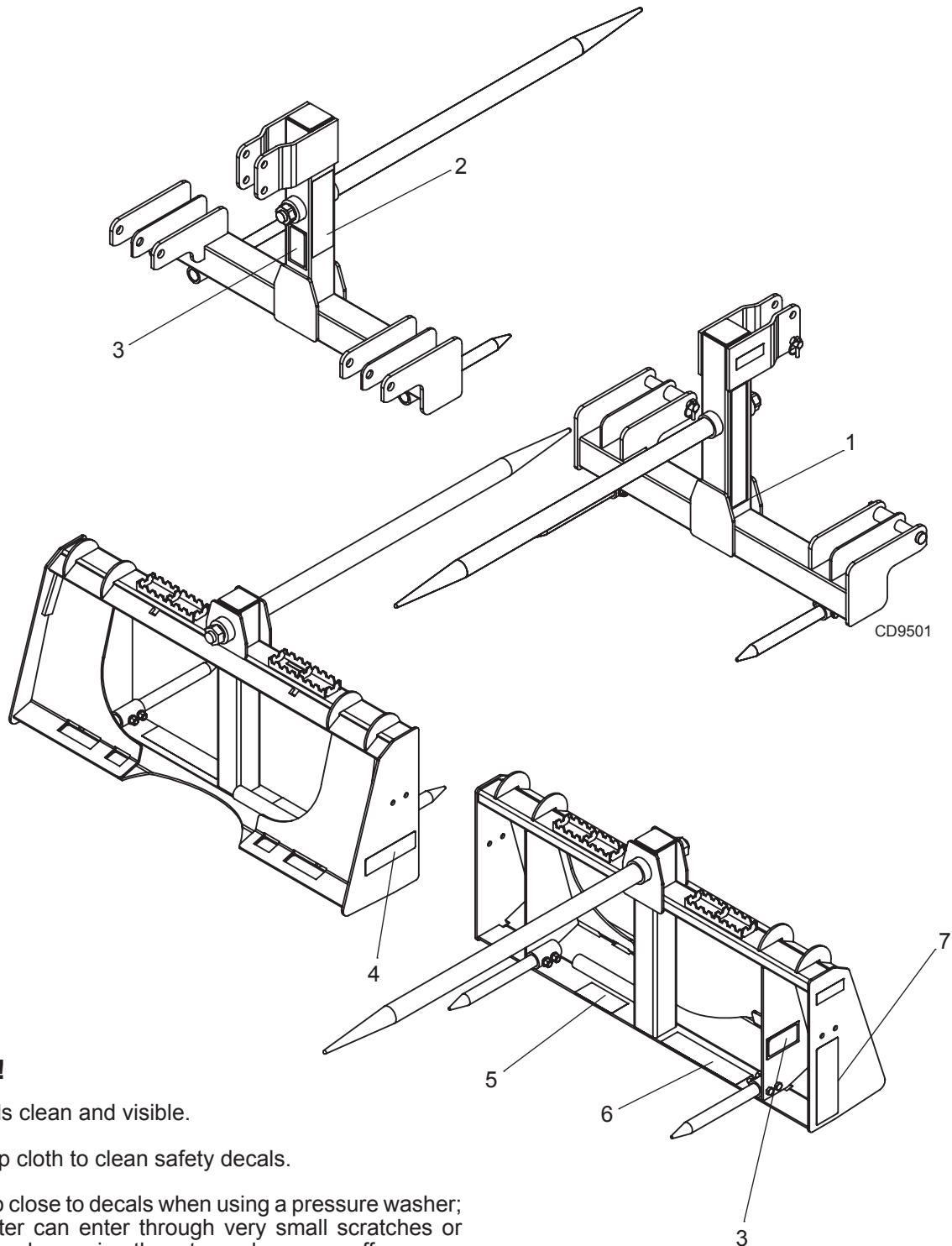
SAFETY & INSTRUCTIONAL DECALS



ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!



Replace Immediately If Damaged!



BE CAREFUL!

Keep safety decals clean and visible.

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.

Replacement safety decals can be ordered free from your Woods dealer. To locate your nearest dealer, check the Dealer Locator at www.WoodsEquipment.com, or in the United States and Canada call 1-800-319-6637.

SAFETY & INSTRUCTIONAL DECALS



ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!



Replace Immediately If Damaged!

1 - PN 651228

2 - PN 651229

5 - PN 651226


6 - PN 651227

7 - PN 1033032

⚠ DANGER


TO AVOID SERIOUS INJURY OR DEATH

- Read Bale Spear Manual before operating.
- Before leaving operator's seat: follow Tractor Manual instructions, lower 3-point hitch and attachment to ground, stop engine, remove key, engage brake, and remove seat belt / operator restraint.
- Do not exceed tractor rated operating capacity with the load centered 19.7" (500mm) from the frame.



FALLING OFF WILL RESULT IN BEING RUN OVER

- Tractor must have ROPS and seat belt / operator restraint. Keep seat belt / operator restraint securely fastened.
- Never allow riders.



RAISED EQUIPMENT CAN DROP AND CRUSH

- Never go under raised equipment or raised 3-point lift arms. They can drop from hydraulic or mechanical failure, or moving control levers.
- Service work does not require going under equipment. Read manual instructions.

FALLING OFF OR GOING UNDER MACHINE WILL RESULT IN SERIOUS INJURY OR DEATH.

651228 AA

⚠ WARNING

TO AVOID SERIOUS INJURY OR DEATH

- Read and understand the Bale Spear Operator's Manual before operating. (Woods manuals are available from dealer or call 1-800-319-6637.)
- Do not allow children or untrained persons to operate equipment.
- Never allow riders.
- Lower attachment to ground, stop engine, set park brake and remove key before leaving power unit seat.
- Do not use for digging rocks, pulling out fence, or as a craning device with chain over a spear.
- Handle raised load with caution, transport load low.
- Counterweight ballast may be required for machine stability. Check your tractor manual or contact dealer.
- Keep children, bystanders and animals away from the equipment and storage area.
- Always insert spears completely in bale never under bale. Failure to do this can allow bale to roll back when loader is raised.
- When handling a bale on a slope, always approach bale with tractor facing up hill.
- Do not turn on slopes with bale.

Failure to follow these instructions can lead to serious injury or death.

651229 AA

3 - SERIAL NUMBER PLATE

Model #
Serial #

(BAR CODE)


WOODS Woods Equipment Company
Oregon, Illinois 61061 USA

4 - PN 1044796

⚠ DANGER

Serious injury or death can result from contact with electrical lines.

1044796



⚠ DANGER

TO AVOID SERIOUS INJURY OR DEATH

- Read Skid Steer Manual before operating.
- Before leaving operator's seat: follow Skid Steer Manual instructions, lower lift arms and attachment to ground, stop engine, remove key, engage brake, and remove seat belt / operator restraint.
- Do not exceed skid steer rated operating capacity with the load centered 19.7" (500mm) from the frame.

651226 AA

⚠ DANGER

TO AVOID SERIOUS INJURY OR DEATH



FALLING OFF WILL RESULT IN BEING RUN OVER

- Skid steer must have ROPS and seat belt / operator restraint. Keep seat belt / operator restraint securely fastened.
- Never allow riders.



RAISED EQUIPMENT CAN DROP AND CRUSH

- Never go under raised equipment or raised skid steer lift arms. They can drop from hydraulic or mechanical failure, or moving control levers.
- Service work does not require going under equipment. Read manual instructions.

FALLING OFF OR GOING UNDER MACHINE WILL RESULT IN SERIOUS INJURY OR DEATH.

651227 AA

⚠ WARNING

TO AVOID SERIOUS INJURY OR DEATH

- Read and understand the Loader Operator's Manual before operating. (Woods manuals are available from dealer or call 1-800-319-6637.)
- Do not allow children or untrained persons to operate equipment.
- Never allow riders.
- Lower attachment to ground, stop engine, set park brake and remove key before leaving power unit seat.
- Do not use for digging rocks, pulling out fence, or as a craning device with chain over a spear.
- Handle raised load with caution, transport load low.
- Counterweight ballast may be required for machine stability. Check your power unit manual or contact dealer.
- When stacking hay bales or loading vehicles make sure you are operating in an area away from overhead wires.
- Always insert spears completely in bale never under bale. Failure to do this can allow bale to roll back when loader is raised.
- When handling a bale on a slope, always approach bale with tractor facing up hill.
- Do not turn on slopes with bale.

Failure to follow these instructions can lead to serious injury or death.

1033032

OPERATION

The operator is responsible for the safe operation of the equipment. The operator must be properly trained. Operators should be familiar with this equipment, the tractor, and all safety practices before starting operation. Read the safety rules and safety decals on page 5 through page 9.

! WARNING

- **Safety instructions are important! Read all attachment and power unit manuals; follow all safety rules and safety decal information. (Replacement manuals and safety decals are available from your dealer. To locate your nearest dealer, check the Dealer Locator at www.WoodsEquipment.com, or in the United States and Canada call 1-800-319-6637.) Failure to follow instructions or safety rules can result in serious injury or death.**
- **Never allow children or untrained persons to operate equipment.**
- **Power unit must be equipped with ROPS or ROPS cab and seat belt/operator restraint. Keep seat belt/operator restraint securely fastened/engaged. 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.**
- **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.**
 - **Service work does not require going underneath.**
 - **Read Operator’s Manual for service instructions or have service performed by a qualified dealer.**
- **Do not allow bystanders and animals in the area when operating, attaching, removing, assembling, or servicing equipment.**
- **Before leaving operator’s seat, lower lift arms and put attachment on the ground. Engage brake, stop engine, remove key, and remove seat belt.**

The bale spear fits skid steer and front end loaders with a universal mounting coupler (ISO 24410). Read the skid steer or loader manual for instructions on proper operation.

ATTACHING BALE SPEAR TO LOADER

! WARNING

- **Be sure attachment is properly secured, adjusted, and in good operating condition. Coupler lockpins must be fully extended and properly engaged into attachment retaining slots.**

Read the loader operator’s manual connecting and removing instructions.

The loader coupler handles should be in the unlocked position and the lockpins retracted (Figure 1).

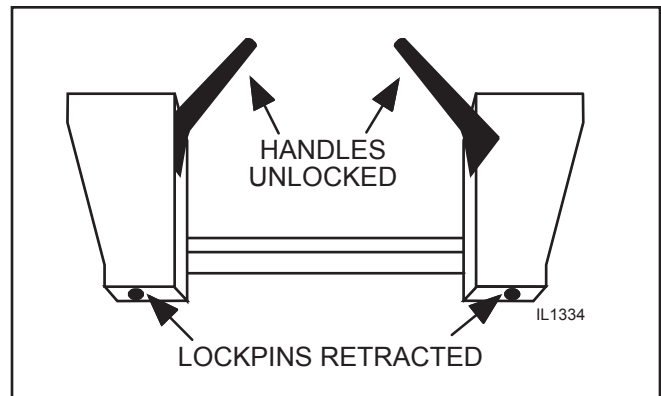


Figure 1. Loader Coupler Handles - Unlocked

Move to the loader operator seat, fasten seat belt, engage operator restraint, and start engine.

Lower loader lift arms to their lowest position.

Carefully move and align the loader coupler to the bale spear. The top of the loader coupler must index into the bale spear flange (Figure 2).

Roll the loader coupler into the bale spear flange so the coupler handles can be engaged.

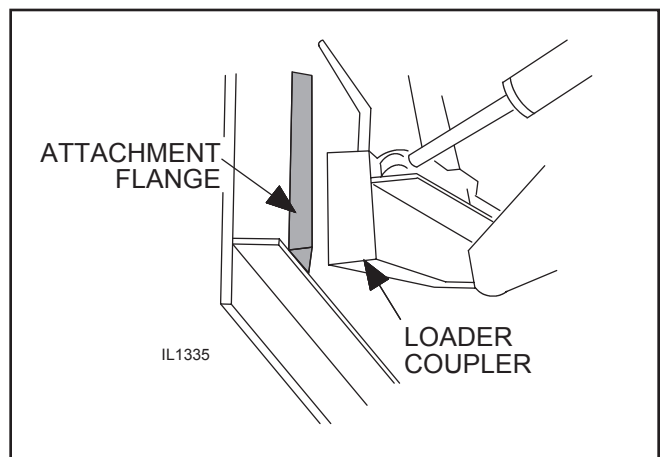


Figure 2. Attaching Bale Spear to Loader

Shut off the engine, set brake, remove key, remove seat belt, and release operator restraint. Dismount the loader.

Move the loader coupler handles to the locked position. The lockpins must be completely extended and secured into the retaining slots provided on the bale spear frame (Figure 3 and Figure 4).

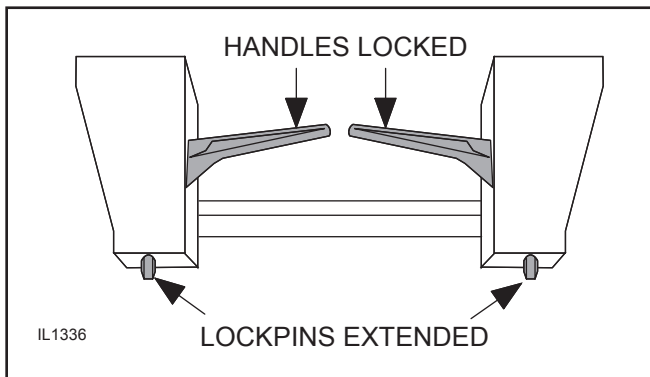


Figure 3. Loader Coupler Handles - Locked

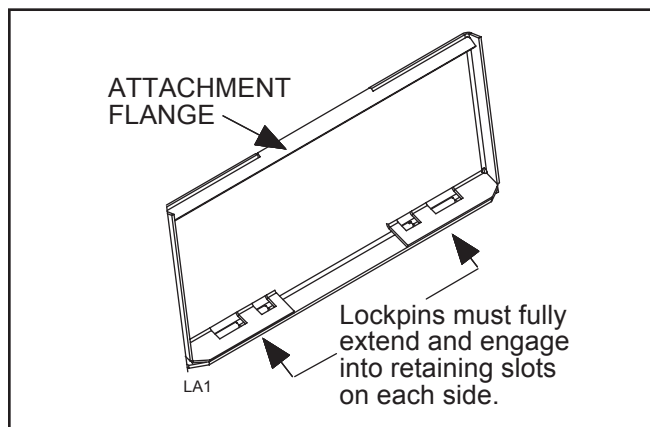


Figure 4. Retaining Slot Locations
Back View of Attachment

OPERATING LOADER

- **Improper operation can cause the machine to tip or roll over and cause injury or death.**
 - **Keep power unit lift arms and attachment as low as possible.**
 - **Do not travel or turn with power unit lift arms and attachment raised.**
 - **Turn only on level ground.**
 - **Go up and down slopes, not across them.**
 - **Keep the heavy end of the machine uphill.**
 - **Do not overload the machine.**

! WARNING

- **Never use attachment to carry loads that exceed the rated operating capacity or other specifications of the power unit. Check your power unit manual or see your dealer for rated operating capacity. Exceeding this capacity can cause machine to tip, roll over, or present other hazards that can cause injury or death.**
- **Look down and to the rear and make sure area is clear before operating in reverse.**
- **AVOID INJURY OR DEATH FROM FALLING OBJECTS:**
 - **Do not carry logs, fence posts, stones, or any other loose objects that can roll, shift, or fall from a raised bale spear and crush operator or bystanders.**
 - **Use bale spear only to handle bales. Do not use for other loads or materials.**
 - **Handle all raised loads with caution.**
 - **Carry loads low and drive slowly.**

Do not use for shifting loads such as logs or poles.

Do not use for digging rocks or lifting concrete slabs.

Do not exceed loader rated operating capacity with the load centered 19.7" from the bale spear frame.

Carry load equally on bale spear frame.

Place the bale spear in low position during transport.

Use adequate power unit ballast to provide stability and good steering control. Do not lift or carry loads that extend above the back guard. Material may fall into the operator control area.

PICKING UP A ROUND BALE

Approach bale with spike level, and centered on bale. Push spike into bale until bale is against the frame.

Raise and roll bale back just high enough to provide ground clearance for transport.

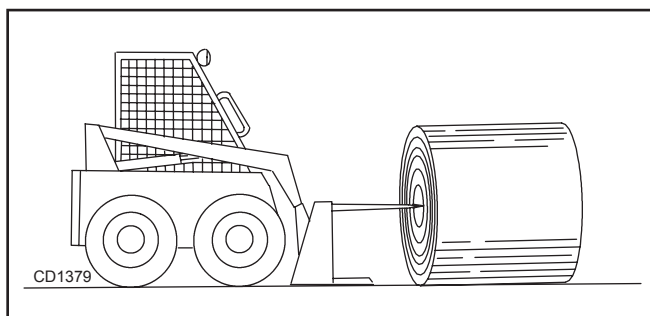


Figure 5. Picking Up a Round Bale

PICKING UP A ROUND BALE ON A SLOPE

To help prevent injury caused by skid steer tip over or rollover when handling round bales on a slope never travel sideways on slope. Drive up slope to pick up bale and back down in reverse. Transport bale as close to the ground as possible.

Approach bale with skid steer facing uphill, spike level and centered on bale.

Push spike into bale until bale is against the frame.

Raise and roll bale back just high enough to provide ground clearance for transport.

Select low skid steer speed before moving. Never turn on a slope.

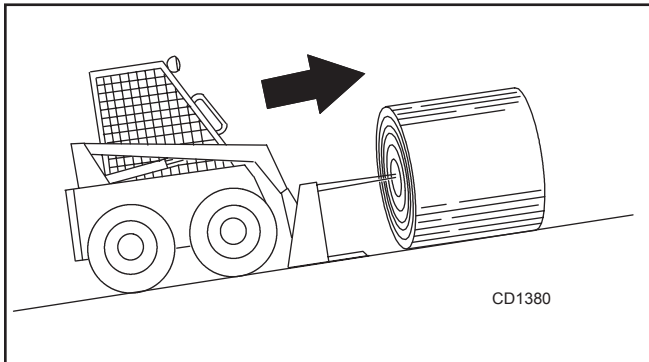


Figure 6. Picking Up Round Bale on Slope

TRANSPORTING A ROUND BALE

To help prevent personal injury or accident caused from a bale falling off the spike, carry the bale low and slightly rolled back.

Travel slowly.

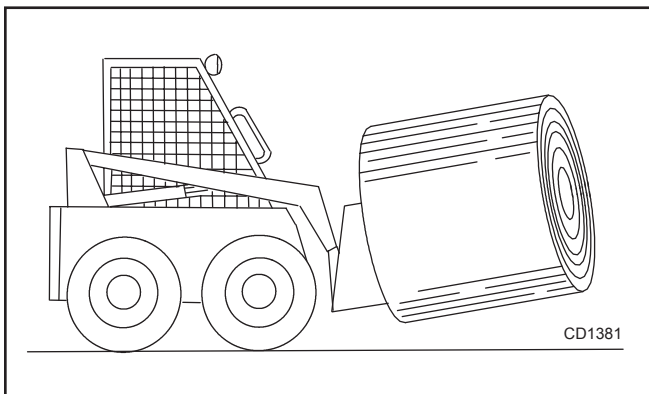


Figure 7. Transporting a Round Bale

REMOVING BALE SPEAR FROM SKID STEER

Only remove on a hard level surface.

Lower attachment to the ground, shut off engine, set brake, remove key, remove seat belt and release operator restraint before leaving the skid steer operator's seat.

Move skid steer coupler handles to the unlocked position, Figure 1. Lock pins must be disengaged from attachment retaining slots.

Move to the skid steer operator seat, fasten seat belt, engage operator restraint, and start engine.

Release brake and roll skid steer coupler until it is disengaged from the attachment. The attachment should be placed in storage position.

STORAGE

⚠ CAUTION

- To help prevent personal injury from exposed bale spear tines, always store bale spear with tines pointed down, or against bale, building or other stable object.

Inspect the bale spear thoroughly and prepare for storage. Repair or replace any damaged components.

Remove bale spear as described in "Removing Bale Spear from Skid Steer".

Allow bale spear frame and lower teeth to rest flat on the ground.

Bale spear should be positioned with the spear point against a bale, building, or other stable object.

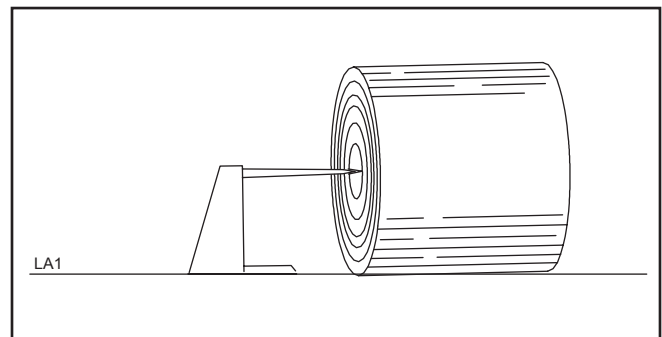


Figure 8. Bale Spear Storage Position

PRE-OPERATION CHECKLIST

(OWNER'S RESPONSIBILITY)

- _____ Review and follow all safety rules and safety decal instructions.
- _____ Check that all safety decals are installed and in good condition. Replace if damaged.
- _____ Check that all hardware and cotter pins are properly installed and secured.
- _____ Check that equipment is properly and securely attached to loader.
- _____ Do not allow riders.
- _____ Make sure power unit ROPS and seat belt are in good condition. Keep seat belt securely fastened during operation.
- _____ Check that bale spear tines are properly engaged in spear sleeves and that nuts are tight. Replace if damaged.

OWNER SERVICE

The information in this section is written for operators who possess basic mechanical skills. If you need help, your dealer has trained service technicians available. For your protection, read and follow the safety information in this manual.

WARNING

- Safety instructions are important! Read all attachment and power unit manuals; follow all safety rules and safety decal information. (Replacement manuals and safety decals are available from your dealer. To locate your nearest dealer, check the Dealer Locator at www.WoodsEquipment.com, or in the United States and Canada call 1-800-319-6637.) Failure to follow instructions or safety rules can result in serious injury or death.
- 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.
 - Service work does not require going underneath.
 - Read Operator's Manual for service instructions or have service performed by a qualified dealer.
- Before leaving operator's seat, lower lift arms and put attachment on the ground. Engage brake, stop engine, remove key, and remove seat belt.
- Before performing service work that requires repair or replacement of parts, remove attachment from power unit. Hydraulic system failures, mechanical failures, or movement of control can cause equipment to drop or rotate unexpectedly and cause severe injury or death.
- Keep all persons and animals away from operator control area while performing adjustments, service, or maintenance.
- Bale spear tines are heavy and can cause muscle strain or back injury. Use lifting aids and proper lifting techniques when installing and removing.

CAUTION

- If you do not understand any part of this manual and need assistance, see your dealer.
- Always wear relatively tight and belted clothing to avoid getting caught in moving parts. Wear sturdy, rough-soled work shoes and protective equipment for eyes, hair, hands, hearing, and head; and respirator or filter mask where appropriate.
- Tighten all bolts, nuts, and screws to torque chart specifications. Check that all cotter pins are installed securely to ensure equipment is in a safe condition before putting unit into service.

SPEAR REMOVAL

WARNING

- Bale spear tines are heavy and can cause muscle strain or back injury. Use lifting aids and proper lifting techniques when installing and removing.

On a hard level surface, stand bale spear frame in a vertical position.

Use an impact wrench or large breaker bar to loosen nut with a 46 mm socket or 1 13/16.

Inspect spear and spear sleeve for cracks or deformation. Make sure spear surface and spear sleeve surfaces are clean before installing spear.

BALE SPEAR INSTALLATION

See assembly section.

CLEANING

After Each Use

- **Remove large debris such as clumps of dirt, grass, crop residue, etc. from machine.**
- **Inspect machine and replace worn or damaged parts.**
- **Replace any safety decals that are missing or not readable.**

Periodically or Before Extended Storage

- **Clean large debris such as clumps of dirt, grass, crop residue, etc. from machine.**
 - **Remove the remainder using a low-pressure water spray.**
1. Be careful when spraying near scratched or torn safety decals or near edges of decals as water spray can peel decal off surface.
 2. Be careful when spraying near chipped or scratched paint as water spray can lift paint.
 3. If a pressure washer is used, follow the advice of the pressure washer manufacturer.
- **Inspect machine and replace worn or damaged parts.**
 - **Sand down scratches and the edges of areas of missing paint and coat with spray paint of matching color.**
 - **Replace any safety decals that are missing or not readable. See Safety Decals section for location drawing.**

ASSEMBLY

DEALER SET-UP INSTRUCTIONS

Assembly of this equipment is the responsibility of the Woods dealer. It should be delivered to the owner completely assembled, lubricated, and adjusted for normal operating conditions.

Complete checklists on page 18 when you have completed the assembly.

⚠ WARNING

- **Safety instructions are important! Read all attachment and power unit manuals; follow all safety rules and safety decal information. (Replacement manuals and safety decals are available from your dealer. To locate your nearest dealer, check the Dealer Locator at www.WoodsEquipment.com, or in the United States and Canada call 1-800-319-6637.) Failure to follow instructions or safety rules can result in serious injury or death.**
- **Operators must be instructed in and be capable of the safe operation of the equipment, its attachments, and all controls. Do not allow anyone to operate this equipment without proper instructions.**
- **Do not modify or alter or permit anyone else to modify or alter the equipment or any of its components in any way.**
- **Keep all persons and animals away from operator control area while performing adjustments, service, or maintenance.**
- **If you do not understand any part of this manual and need assistance, see your dealer.**
- **Bale spear tines are heavy and can cause muscle strain or back injury. Use lifting aids and proper lifting techniques when installing and removing.**

⚠ CAUTION

- **When torquing the bale spear retention nut, the frame needs to be secured or attached to the machine to prevent inadvertent movement and possible injury or property damage.**

Before proceeding, make sure you read and follow all instructions and safety rules in this manual and the loader manual.

If any parts do not fit, contact your Woods representative or the factory for more information.

Check bundle numbers with the shipping list to ensure you have all parts needed to begin assembling your bale spear.

Assemble Bale Spear

(See Figure 8 & 9)

1. On a hard level surface, stand bale spear frame in a vertical position.
2. Remove any installed hardware from stabilizer spear tube and/or vertical square tube channel.
3. Attach stabilizer spear (3A), if applicable, to frame tube with M12 x 70 MM bolts (11A), washers (2A), and nuts (1A). Torque to 50 lb-ft.
4. Attach main spear(s) to frame tube with spear nut (2B or 4A). Tighten spear nut to specified torque of 465 - 500 ft-lbs (Ø36 mm & Ø50 mm). Use a 47 mm or 1-13/16" socket.
5. Install square tubes (1B), if applicable, to frame channels with M10 x 70 mm bolts (4B), washers (3B), and nuts (5B). Torque to 29 lb-ft.
6. Check spear retaining nut, stabilizer spear hardware, and tube hardware after initial use and re-tighten if necessary.

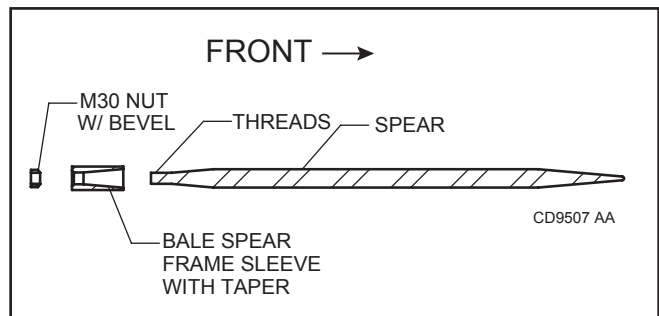


Figure 8. Bale Spear and Nut Assembly

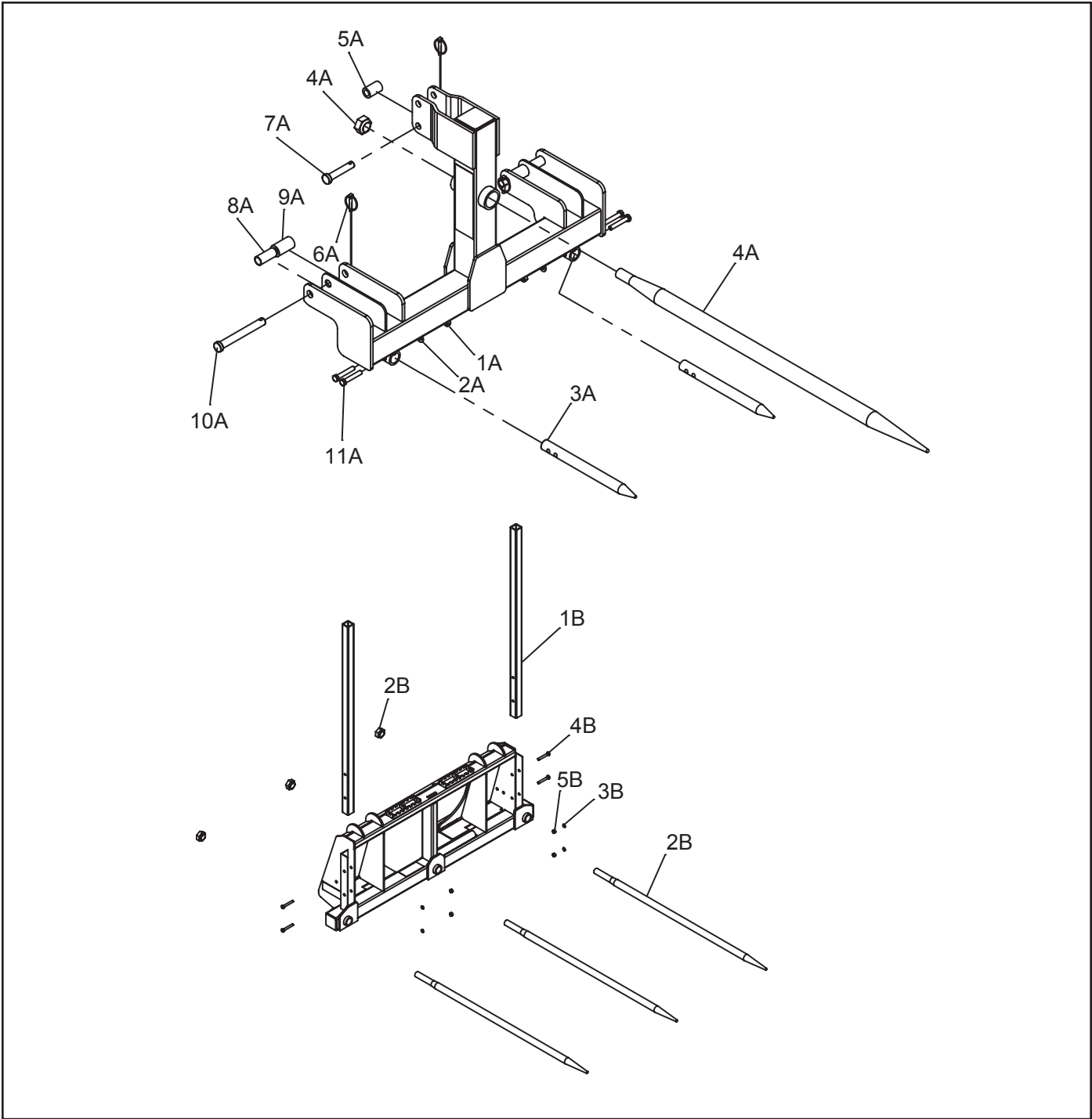


Figure 9. Bale Spear Assembly

Install Step Kit 1019883 (Optional)

Install step (3) on side of frame using cap screws (12) and lock nuts (13).

DEALER CHECKLISTS

DEALER PRE-DELIVERY CHECKLIST

(DEALER'S RESPONSIBILITY)

Inspect the equipment thoroughly after assembly to ensure it is set up properly before delivering it to the customer.

The following checklists are a reminder of points to inspect. Check off each item as it is found satisfactory or after proper adjustment is made.

- _____ Check that all safety decals are installed and in good condition. Replace if damaged.
- _____ Check all bolts to be sure they are properly torqued.
- _____ Check that all cotter pins and safety pins are properly installed. Replace if damaged.

DELIVERY CHECKLIST

(DEALER'S RESPONSIBILITY)

- _____ Show customer how to make adjustments.
- _____ Point out the safety decals. Explain their meaning and the need to keep them in place and in good condition. Emphasize the increased safety hazards when instructions are not followed.
- _____ Present Operator's Manual and request that customer and all operators read it before operating equipment. Point out the manual safety rules, explain their meanings and emphasize the increased safety hazards that exist when safety rules are not followed.
- _____ Explain to customer the potential crushing hazards of going underneath raised equipment. Instruct customer that service work does not require going underneath unit and never to do so.
- _____ Show customer the safe, proper procedures to be used when mounting, dismounting, and storing equipment.
- _____ Explain to customer that when equipment is transported on a road or highway, safety devices should be used to give adequate warning to operators of other vehicles.
- _____ Make customer aware of optional equipment available so that customer can make proper choices as required.

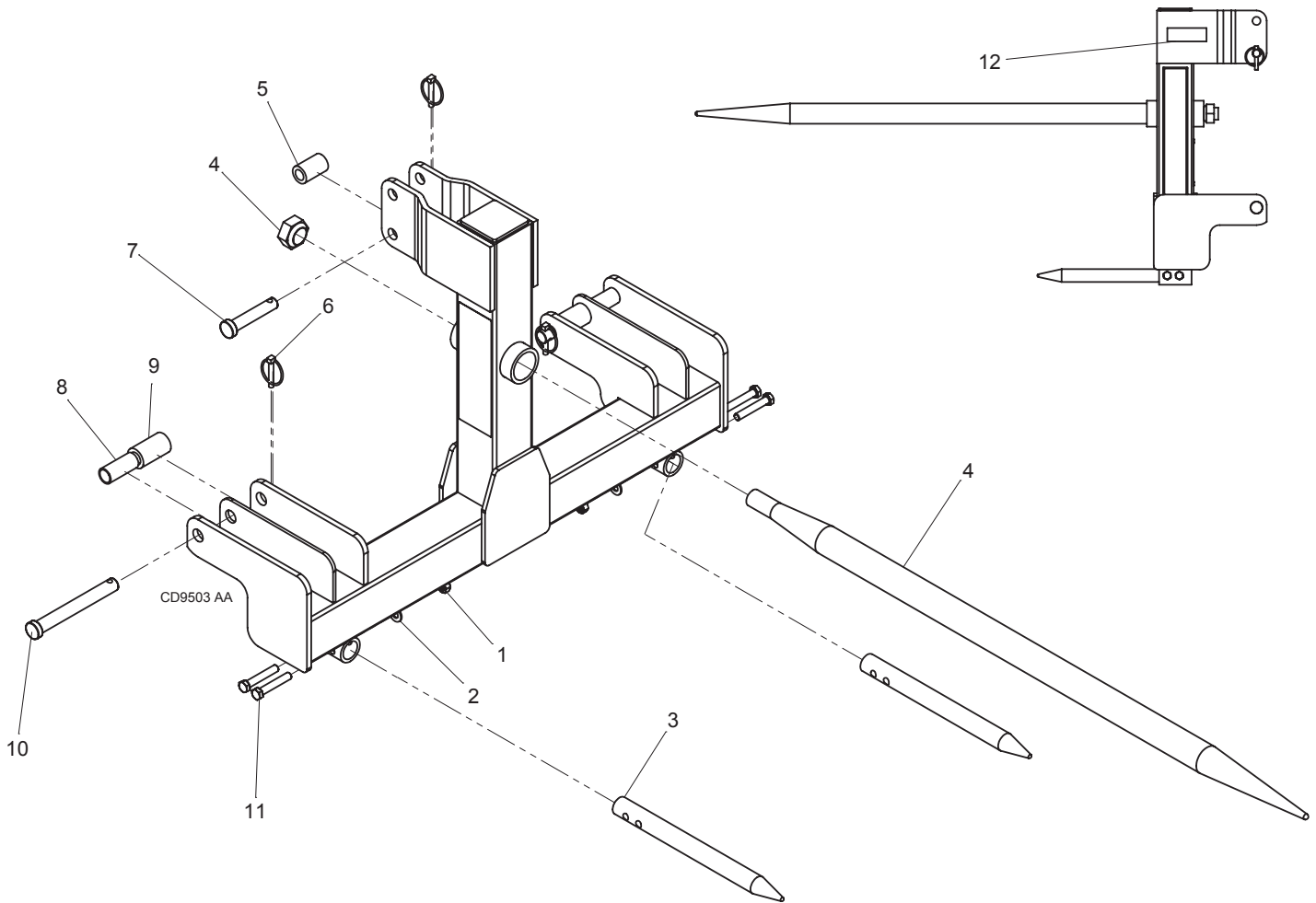


BALE SPEAR

- BS30443PT**
- BS3044S2**
- BS4032S2**
- BS4044S2**
- BS6044S2**

3PT BALE SPEAR PARTS LIST	20
BS3044S2 PARTS LIST	21
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BS6044S2 PARTS LIST	23

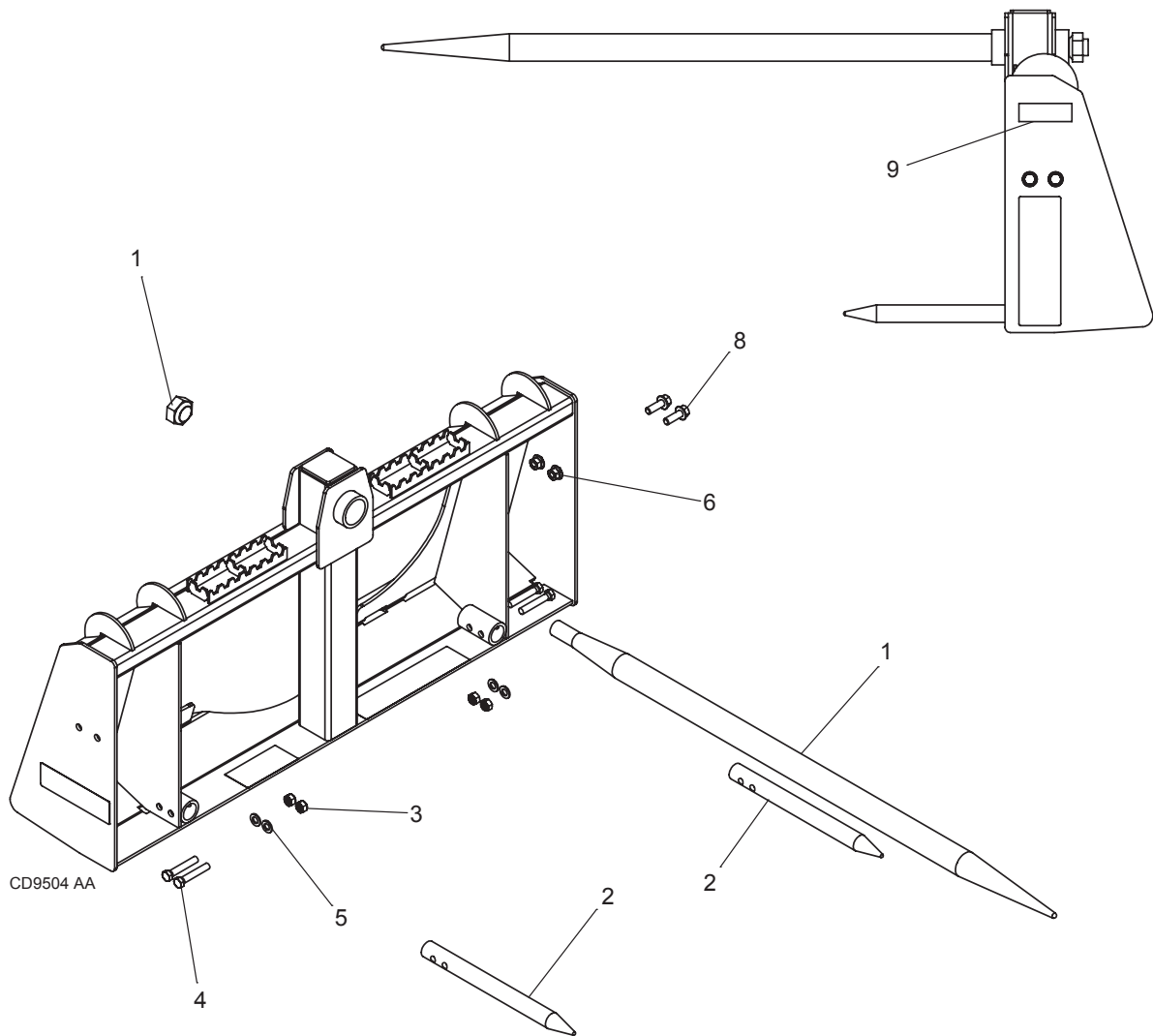
3PT BALE SPEAR PARTS LIST



REF	PART	QTY	DESCRIPTION
1	592458*	1	NUT, M12 NYLOCK 1.75 GR5
2	3598*	1	WASHER, M12
3	640444	2	SPEAR, Ø32mm x 11.81 inches
4	640443	1	SPEAR, Ø50mm x 44 inches w/nut
5	651230	1	SLEEVE, .76 X 1.250 X 2.00
6	651234	3	PIN, KLIK Ø5/16
7	651231	1	PIN, CLEVIS .75 X 3.94 DRL
8	651232	2	SLEEVE, .906 X 1.102 X 2.52
9	651235	2	SLEEVE, .906 X 1.437 X 2.52
10	651236	2	PIN, CLEVIS .866 X 7.09 DRL
11	W307318*	4	HHCS M12-1.75P X 70MM ZP
12	640437	1	DECAL, LOAD 3000

* STANDARD HARDWARE, OBTAIN LOCALLY

BS3044S2 PARTS LIST

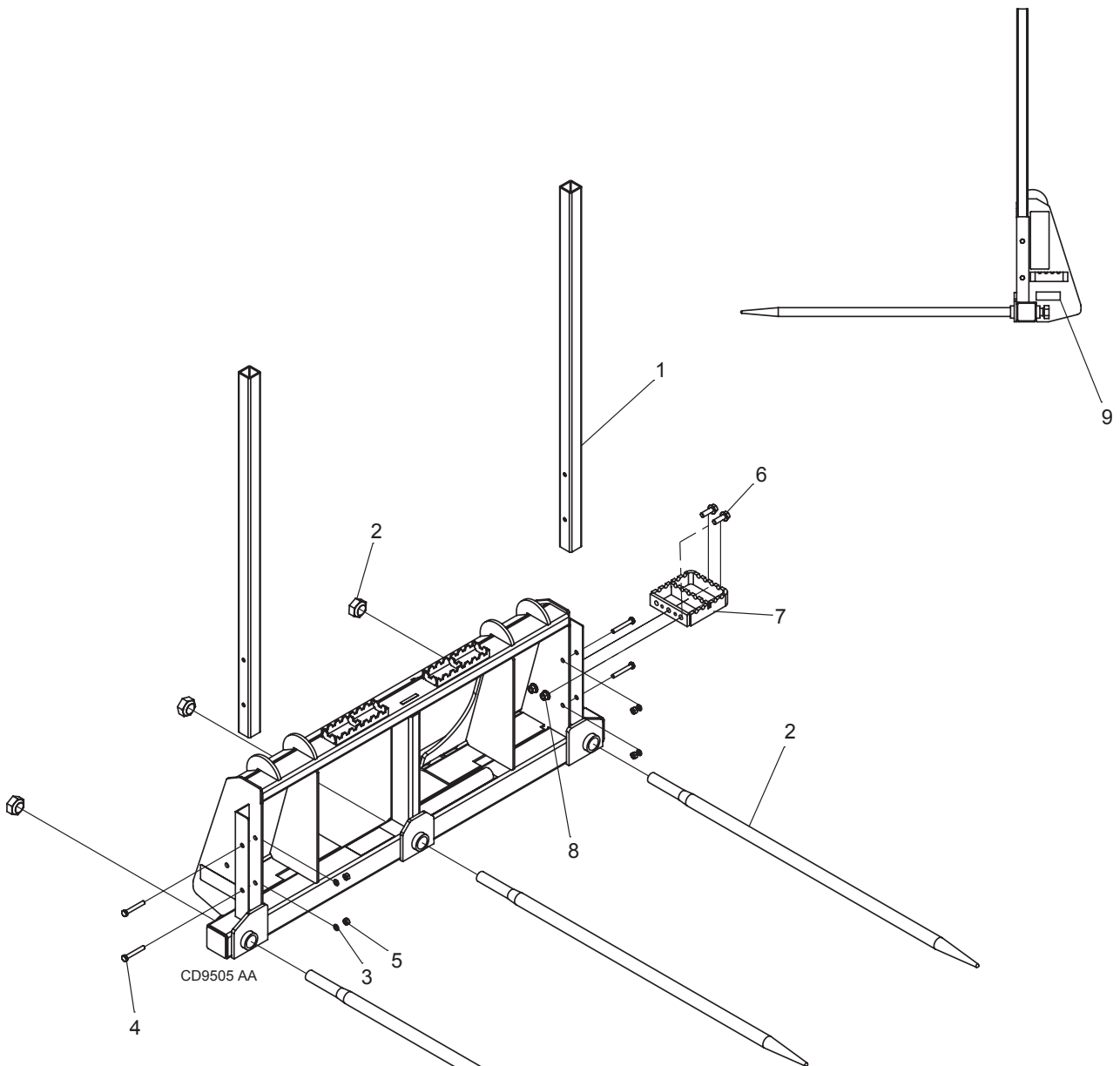


REF	PART	QTY	DESCRIPTION
1	640443	1	SPEAR, Ø50MM X 44 INCHES W/NUT
2	640444	2	SPEAR, Ø32MM X 11.81 INCHES
3	592458*	4	NUT, M12 NYLOCK 1.75 GR5
4	W307318*	4	HHCS M12-1.75P X 70MM ZP
5	3598*	4	WASHER, FLAT ½" SAE ZP
6	11900*	2	NUT, FLANGE LOCK 1/2 NC
7	640378	1	WA, STEP
8	1039944*	2	HFS, 1/2NC X 1.50 GR8
9	640437	1	DECAL, LOAD 3000

NOTE: ITEMS 6, 7, & 8 ARE PART OF
OPTIONAL KIT 1019883

* STANDARD HARDWARE, OBTAIN LOCALLY

BS4032/4044S2 PARTS LIST

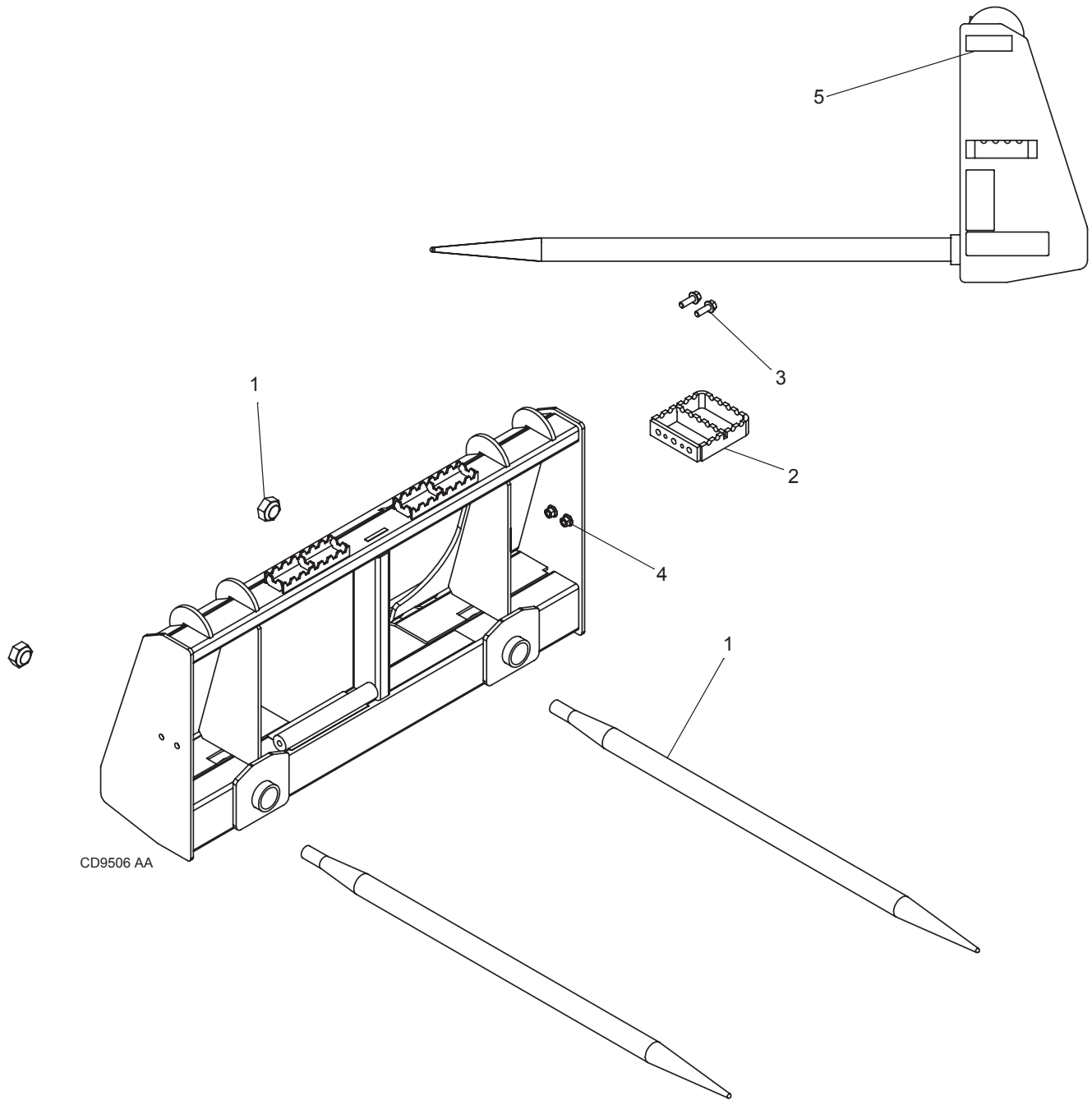


REF	PART	QTY	DESCRIPTION
1	645775	1	TUBE, SQ 1.77 X 47.24"
2	640440	3	SPEAR, Ø36MM X 32 INCHES W/NUT
2	640442	3	SPEAR, Ø36MM X 44 INCHES W/NUT
3	21542*	4	WASHER, LOCK M10
4	307787*	4	HHCS, M10-1.50P X 70MM CL8.8
5	651237*	4	NUT, HEX M10 X 1.50P ZP
6	1039944*	2	HFS, 1/2NC X 1.50 GR8
7	640378	1	WA, STEP
8	11900*	2	NUT, FLANGE LOCK 1/2 NC
9	640438	1	DECAL, LOAD 4000

NOTE: ITEMS 6, 7, & 8 ARE PART OF
OPTIONAL KIT 1019883

* STANDARD HARDWARE, OBTAIN LOCALLY

BS6044S2 PARTS LIST



REF	PART	QTY	DESCRIPTION
1	640443	2	SPEAR, Ø50MM X 44 INCHES W/NUT
2	640378	1	WA, STEP
3	1039944*	2	HFS, 1/2 NC X 1.50 GR8
4	11900*	2	NUT, FLANGE LOCK 1/2 NC
5	640439	1	DECAL, LOAD 6000

NOTE: ITEMS 2, 3, 4 ARE PART OF
OPTIONAL KIT 1019883

* STANDARD HARDWARE, OBTAIN LOCALLY

BOLT TORQUE CHART

Always tighten hardware to these values unless a different torque value or tightening procedure is listed for a specific application.

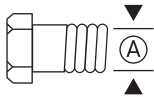
Fasteners must always be replaced with the same grade as specified in the manual parts list.

Always use the proper tool for tightening hardware: SAE for SAE hardware and Metric for metric hardware. Make sure fastener threads are clean and you start thread engagement properly.

All torque values are given to specifications used on hardware defined by SAE J1701 MAR 99 & J1701M JUL 96.

SAE SERIES TORQUE CHART

SAE Bolt Head Identification



SAE Grade 2
(No Dashes)



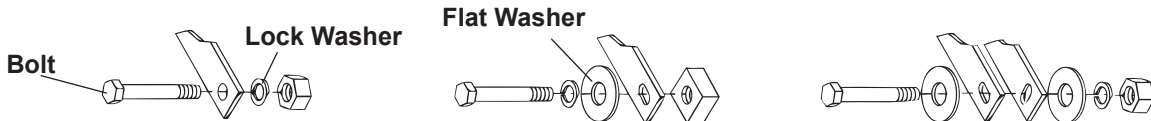
SAE Grade 5
(3 Radial Dashes)



SAE Grade 8
(6 Radial Dashes)

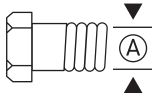
Ⓐ Diameter (Inches)	Wrench Size	Marking on Head					
		SAE 2		SAE 5		SAE 8	
		lbs-ft	N-m	lbs-ft	N-m	lbs-ft	N-m
1/4"	7/16"	6	8	10	13	14	18
5/16"	1/2"	12	17	19	26	27	37
3/8"	9/16"	23	31	35	47	49	67
7/16"	5/8"	36	48	55	75	78	106
1/2"	3/4"	55	75	85	115	120	163
9/16"	13/16"	78	106	121	164	171	232
5/8"	15/16"	110	149	170	230	240	325
3/4"	1-1/8"	192	261	297	403	420	569
7/8"	1-5/16"	306	416	474	642	669	907
1"	1-1/2"	467	634	722	979	1020	1383

TYPICAL WASHER INSTALLATIONS



METRIC SERIES TORQUE CHART

Metric Bolt Head Identification



Metric
Grade 8.8



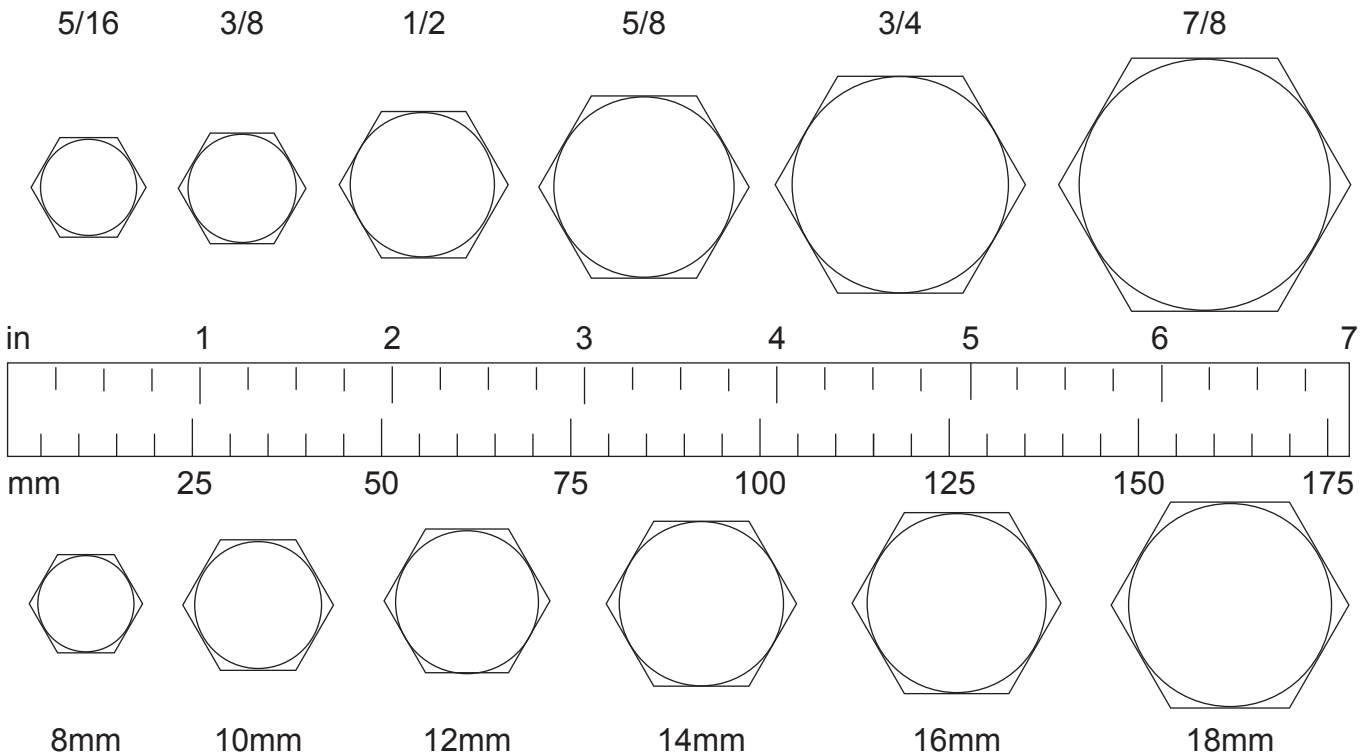
Metric
Grade 10.9

Ⓐ Diameter & Thread Pitch (Millimeters)	Wrench Size	Coarse Thread				Fine Thread				Ⓐ Diameter & Thread Pitch (Millimeters)
		Marking on Head								
		Metric 8.8		Metric 10.9		Metric 8.8		Metric 10.9		
		N-m	lbs-ft	N-m	lbs-ft	N-m	lbs-ft	N-m	lbs-ft	
6 x 1.0	10 mm	8	6	11	8	8	6	11	8	6 x 1.0
8 x 1.25	13 mm	20	15	27	20	21	16	29	22	8 x 1.0
10 x 1.5	16 mm	39	29	54	40	41	30	57	42	10 x 1.25
12 x 1.75	18 mm	68	50	94	70	75	55	103	76	12 x 1.25
14 x 2.0	21 mm	109	80	151	111	118	87	163	120	14 x 1.5
16 x 2.0	24 mm	169	125	234	173	181	133	250	184	16 x 1.5
18 x 2.5	27 mm	234	172	323	239	263	194	363	268	18 x 1.5
20 x 2.5	30 mm	330	244	457	337	367	270	507	374	20 x 1.5
22 x 2.5	34 mm	451	332	623	460	495	365	684	505	22 x 1.5
24 x 3.0	36 mm	571	421	790	583	623	459	861	635	24 x 2.0
30 x 3.0	46 mm	1175	867	1626	1199	1258	928	1740	1283	30 x 2.0

BOLT SIZE CHART

NOTICE: Chart shows bolt thread sizes and corresponding head (wrench) sizes for standard SAE and metric bolts.

SAE BOLT THREAD SIZES



METRIC BOLT THREAD SIZES

ABBREVIATIONS

AG Agriculture	HT Heat-Treated	ORBM O-Ring Boss - Male
ASABE American Society of Agricultural & Biological Engineers (formerly ASAE)	JIC Joint Industry Council 37° Degree Flare	P Pitch
ASAE American Society of Agricultural Engineers	LH Left Hand	PBY Power-Beyond
ATF Automatic Transmission Fluid	LT Left	psi Pounds per Square Inch
BSPP British Standard Pipe Parallel	m Meter	PTO Power Take Off
BSPTM British Standard Pipe Tapered Male	mm Millimeter	QD Quick Disconnect
CV Constant Velocity	M Male	RH Right Hand
CCW Counter-Clockwise	MPa Mega Pascal	ROPS Roll-Over Protective Structure
CW Clockwise	N Newton	RPM Revolutions Per Minute
F Female	NC National Coarse	RT Right
FT Full Thread	NF National Fine	SAE Society of Automotive Engineers
GA Gauge	NPSM National Pipe Straight Mechanical	UNC Unified Coarse
GR (5, etc.) Grade (5, etc.)	NPT National Pipe Tapered	UNF Unified Fine
HHCS Hex Head Cap Screw	NPT SWF National Pipe Tapered Swivel Female	UNS Unified Special

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