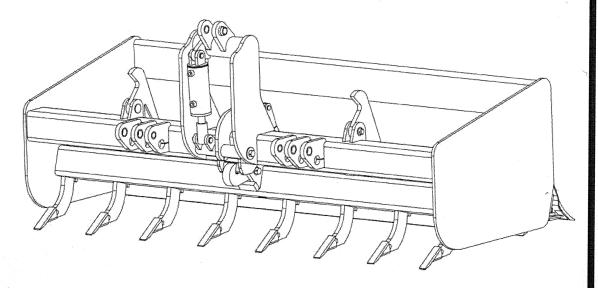
WOODS

GANNON BOX BLADES

HD24480HXD - HD24496HXD (4 x 4) HD24472HSD - HD24492HSD (4 x 4) HD24265 - HD2484 (LB & HB) (4 x 2)



MAN0856

WCCDS

DRAFT Copy

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 Check Lists 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 Check List items have been completed. Please contact your dealer to complete this form. Dealers can register all Woods product at dealer. Woods Equipment.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 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 personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.



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



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



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

IMPORTANT or **NOTICE**

Is used to address practices not related to personal injury.

NOTE Indicates helpful information.

ALITEC ™

BMP®

CENTRAL FABRICATORS®

GANNON®

GILL.®

WAIN-ROY®

WOODS®

2 Introduction

Gen'l (Rev. 3/5/2010)

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SPECIFICATIONS

4x4 HXD Box Blades	HD24480HXD	HD24484HXD	HD24488HXD	HD24492HXD	HD24496HXD
Working Width	80"	84"	88"	92"	96"
Height	24-1/4"	24-1/4"	24-1/4"	24-1/4"	24-1/4"
Depth	40-3/16"	40-3/16"	40-3/16"	40-3/16"	40-3/16"
Heaped Capacity (yd ³)	28.6 ft ³	30.0 ft ³	31.6 ft ³	32.9 ft ³	34.3 ft ³
End Plate Thickness	1/2"	1/2"	1/2"	1/2"	1/2"
Replaceable End Plate Wear Bits	no	no	no	no	no
Number of Cutting Edges	2	2	2	2	2
Cutting Edge Style	1/2" x 6"				
Operating Weight	1,263	1,1280	1,297	1,310	1,327
Number of Shanks	8	8	8	8	8
Tailgate	n/a	n/a	n/a	n/a	n/a
Tractor Engine HP Requirement	40-100 hp				
Tractor Class*	Cat II				

^{* -} Category I hitch available upon request

4x4 HSD Box Blades	HD24472HSD	HD24476HSD	HD24480HSD	HD24484HSD	HD24488HSD	HD24492HSD
Working Width	72"	76"	80"	84"	88"	92"
Height	24-1/2"	24-1/2"	24-1/2"	24-1/2"	24-1/2"	24-1/2"
Depth	40-3/16"	40-3/16"	40-3/16"	40-3/16"	40-3/16"	40-3/16"
Heaped Capacity (yd3)	25.7 ft ³	27.0 ft ³	28.6 ft ³	30.0 ft ³	31.6 ft ³	32.9 ft ³
End Plate Thickness	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
Replaceable End Plate Wear Bits	yes	yes	yes	yes	yes	yes
Number of Cutting Edges	2	2	2	2	2	2
Cutting Edge Style	1/2" 6"	1/2" 6"	1/2" 6"	1/2" 6"	1/2" 6"	1/2" 6"
Operating Weight	1,230	1,247	1,263	1,280	1,297	1,315
Number of Shanks	8	8	8	8	8	8
Tailgate	n/a	n/a	n/a	n/a	n/a	n/a
Tractor Engine HP Requirement	40-100 hp					
Tractor Class*	Cat II					

SPECIFICATIONS

4x2 LB and HB Box Blades	HD24265LB	HD24265HB	HD24272LB	HD24272HB
Working Width	65"	65"	72"	72"
Height	19-5/16"	24-1/2"	19-5/16"	24-1/2"
Depth	39-1/2"	39-1/2"	39-1/2"	39-1/2"
Heaped Capacity (yd ³)	20.8 ft3	23.2 ft3	23.0 ft3	25.7 ft3
End Plate Thickness	1/2"	1/2"	1/2"	1/2"
Replaceable End Plate Wear Bits	no	no	no	no
Number of Cutting Edges	2	2	2	2
Cutting Edge Style	1/2" x 6"	1/2" x 6"	1/2" x 6"	1/2" x 6"
Operating Weight				
Number of Shanks	6	6	6	6
Tailgate	yes	yes	yes	yes
Tractor Engine HP Requirement	40 - 80 hp			
Tractor Class*	Cat I & II			

4x2 LB and HB Box Blades	HD24276LB	HD24276HB	HD24280LB	HD24280HB	HD24284HB
Working Width	76"	76"	80"	80"	84"
Height	19-5/16"	24-1/2"	19-5/16"	24-1/2"	24-1/2"
Depth	39-1/2"	39-1/2"	39-1/2"	39-1/2"	39-1/2"
Heaped Capacity (yd ³)	24.3 ft3	27.3 ft3	25.7 ft3	28.6 ft3	30.0 ft3
End Plate Thickness	1/2"	1/2"	1/2"	1/2"	1/2"
Replaceable End Plate Wear Bits	no	no	no	no	no
Number of Cutting Edges	2	. 2	2	2	2
Cutting Edge Style	1/2" x 6				
Operating Weight					
Number of Shanks	8	8	8	8	8
Tailgate	yes	yes	yes	yes	yes
Tractor Engine HP Requirement	40-80 hp				
Tractor Class*	Cat I & II				

^{* -} Category 1 hitch available upon request.

ILEA EL INSTRUCTIVO!

Si no lee Ingles, pida ayuda a alguien que si lo lea 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.

GENERAL INFORMATION

The purpose of this manual is to assist you in operating and maintaining your Box Blade. 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. However, 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 tractor 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.

INSTALLATION

■ Hydraulics must be connected as instructed in this manual. Do not substitute parts, modify, or connect in any other way.

TRAINING

- Safety instructions are important! Read all attachment and power unit manuals; follow all safety rules and safety decal information. (Replacement manuals are available from selling dealer.) 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.
- Keep hands and body away from pressurized lines. Use paper or cardboard, not hands or other body parts to check for leaks. Wear safety goggles. Hydraulic fluid under pressure can easily penetrate skin and will cause serious injury or death.
- Make sure that all operating and service personnel know that if hydraulic fluid penetrates skin, it must be surgically removed as soon as possible by a doctor familiar with this form of injury or gangrene, serious injury, or death will result. CONTACT A PHYSICIAN IMMEDIATELY IF FLUID ENTERS SKIN OR EYES. DO NOT DELAY.
- 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.
- 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.
- Route hydraulic hoses carefully to prevent damage. Hoses must not be twisted, bent sharply, kinked, frayed, pinched, or come into contact with any moving parts. Operate moveable components through full operational range to check clearances. Replace any damaged hose immediately.
- Your dealer can supply original equipment hydraulic accessories and repair parts. Substitute parts may not meet original equipment specifications and may be dangerous.
- Do not connect a low-pressure hydraulic hose into a high-pressure system—it will burst the hose. Do not use a high-pressure hose in place of a low-pressure hose—it is possible to rupture the valve.
- 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.
- Make sure attachment is properly secured, adjusted, and in good operating condition.
- It is recommended that power unit be equipped with ROPS or ROPS cab and seat belt. Keep seat belt securely fastened. Falling off power unit can result in death from being run over or crushed. Keep foldable ROPS systems in "locked up" position at all times.
- A minimum 20% of tractor and equipment weight must be on the tractor front wheels when attachments are in transport position. Without this weight, front tractor wheels could raise up resulting in loss of steering. The weight may be attained with front wheel weights, ballast in tires or front tractor weights. Weigh the tractor and equipment. Do not estimate.

A

SAFETY RULES

ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!



■ Make sure all safety decals are installed. Replace if damaged. (See Safety Decals section for location.)

TRANSPORTATION

- Always comply with all state and local lighting and marking requirements.
- Never allow riders on power unit or attachment.
- Do not operate or transport on steep slopes.
- Use extreme care and reduce ground speed on slopes and rough terrain.
- Do not operate or transport equipment while under the influence of alcohol or drugs.

OPERATION

- 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 operate or transport equipment while under the influence of alcohol or drugs.
- Always comply with all state and local lighting and marking requirements.
- Operate only in daylight or good artificial light.
- Keep bystanders away from equipment.
- Keep hands, feet, hair, and clothing away from equipment while engine is running. Stay clear of all moving parts.
- It is recommended that power unit be equipped with ROPS or ROPS cab and seat belt. Keep seat belt securely fastened. Falling off power unit can result in death from being run over or crushed. Keep foldable ROPS systems in "locked up" position at all times.
- Never allow riders on power unit or attachment.

- Always sit in power unit seat when operating controls or starting engine. Securely fasten seat belt, place transmission in 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.
- Do not operate or transport on steep slopes.
- 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 equipment immediately upon striking an obstruction. Turn off engine, remove key, inspect, and repair any damage before resuming operation.
- Before dismounting tractor or performing any service or maintenance, lower attachment to ground, turn off engine, set parking brake, operate valve levers to release any hydraulic pressure, and remove key.

MAINTENANCE

- 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.
- 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.

(Safety Rules continued on next page)

A

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



(Safety Rules continued from previous page)

- Before dismounting tractor or performing any service or maintenance, lower attachment to ground, turn off engine, set parking brake, operate valve levers to release any hydraulic pressure, and remove key.
- Do not modify or alter or permit anyone else to modify or alter the equipment or any of its components in any way.
- Never perform service or maintenance with engine running.
- Keep all persons away from operator control area while performing adjustments, service, or maintenance.
- Eye protection must be used when removing or installing scarifier shank clips.

- 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.)

STORAGE

- Block equipment securely for storage.
- Keep children and bystanders away from storage area.
- Lock scarifier bar in lowered position for storage.
- Plug the cylinder ports for storage to prevent water from contaminating the hydraulic system.





A

SAFETY & INSTRUCTIONAL DECALS

ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED! Replace Immediately If Damaged!











CRUSHING AND PINCHING HAZARD

- Be extremely careful handling various parts of the machine. They are heavy and hands, fingers, feet, and other body parts could be crushed or pinched between tractor and implement.
- **■** Operate tractor controls from tractor seat only.
- Do not stand between tractor and implement when tractor is in gear.
- Make sure parking brake is engaged before going between tractor and implement.
- Stand clear of machine while in operation or when it is being raised or lowered.

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

2 - 1003751



TO AVOID SERIOUS INJURY OR DEATH:

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

FAILURE TO FOLLOW THESE INSTRUCTIONS CAN RESULT IN INJURY OR DEATH. 1002423-A

4 - 1002423

BE CAREFUL!

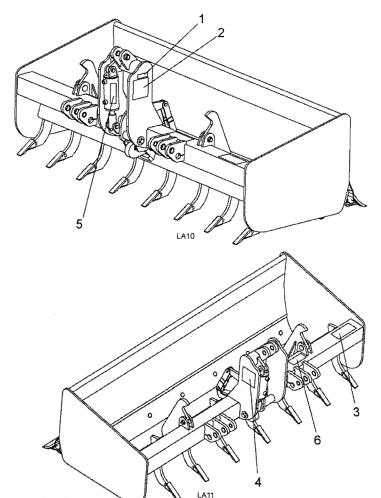
Use a clean, damp cloth to clean safety decals.

Avoid spraying too close to decals when using a pressure washer; high-pressure water can enter through very small scratches or under edges of decals causing them to peel or come off.

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.



1 - Serial Number Plate





SAFETY & INSTRUCTIONAL DECALS

ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!



Replace Immediately If Damaged!



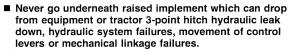
WARNING

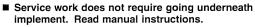


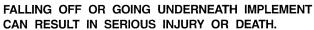
FALLING OFF CAN RESULT IN BEING RUN OVER.

- Tractor must be equipped with ROPS (or ROPS CAB) and seat belt. Keep foldable ROPS systems in "locked up" position at all times.
- Buckle Up! Keep seat belt securely fastened.
- Allow no riders.

RAISED IMPLEMENT CAN DROP AND CRUSH.







3 - 55121



WARNING

HIGH-PRESSURE HYDRAULIC OIL LEAKS CAN PENETRATE SKIN RESULTING IN SERIOUS INJURY, GANGRENE OR DEATH.

- Check for leaks with cardboard; never use hand.
- Before loosening fittings: lower load, release pressure, and be sure oil is cool.
- Consult physician immediately if skin penetration occurs.

5 - 19924



WARNING

TO AVOID PERSONAL INJURY:

- Keep clear of box scraper and operating area.
- Operate from tractor seat only.

10 Safety

- Do not allow riders on box scraper or tractor at any time.
- Before leaving operator's seat, lower box scraper to the ground, stop engine, set parking brake, operate valve levers to release any hydraulic pressure, and remove the key.
- When traveling on public roads or highways make sure the view of rear lights and SMV sign are not obstructed by box scraper.

6 - 1036

OPERATION

The operator is responsible for the safe operation of this equipment. The operator must be properly trained. Operators should be familiar with the equipment, the tractor, and all safety practices before starting operation. Read the safety rules and safety decals on page 6 through page 10.

The box blades are designed for a wide range of applications: scarifying, scraping, leveling, grading, and backfilling.

M WARNING

- It is recommended that power unit be equipped with ROPS or ROPS cab and seat belt. Keep seat belt securely fastened. Falling off power unit can result in death from being run over or crushed. Keep foldable ROPS systems in "locked up" position at all times.
- Never allow children or untrained persons to operate equipment.
- **■** Keep bystanders away from equipment.
- 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.
- Keep hands, feet, hair, and clothing away from equipment while engine is running. Stay clear of all moving parts.

A CAUTION

- Stop power unit and equipment immediately upon striking an obstruction. Turn off engine, remove key, inspect, and repair any damage before resuming operation.
- 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.

CONNECTING BOX BLADE TO TRACTOR

The box blade is compatible with Category I and Category II, 3-point tractors equipped with side swing-type lower lift arms.

- **1.** To avoid interference with the box blade, adjust tractor drawbar to the shortest and highest position.
- 2. Attach the tractor's lower lift arms to the box blade and secure in place with Category I mounting pin (1) and klik pin (2).
- 3. Attach the tractor's top link to the top of the box blade's mast and secure with the heavy-duty top link pin (3) and Klik pin.
- 4. Connect cylinder hoses to tractor auxiliary valve.

To use box blade with Category II tractors

 Remove the top link pin (3) and top link bushings (4). Category II top link pin is required. Do not use Category I pin on a Category II tractor.

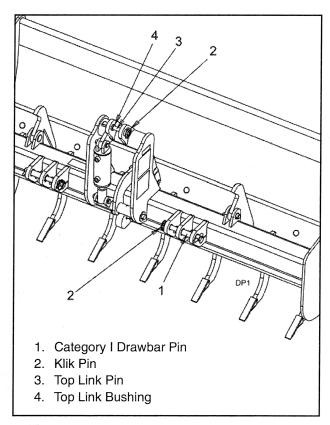


Figure 1. Connecting Box Blade to Tractor

ADJUSTING TOP LINK

The box blade is leveled by adjusting the length of the tractor's top link.

- Shortening the top link will deepen the scarifier tooth penetration.
- Lengthening the top link will provide better scraping and leveling action.

Experience will allow the operator to determine the best setting for the application being done.

SCARIFYING

- 1. Place the scarifier shanks in position with the points facing toward the tractor.
- **2.** Lock shanks into position with the lock keys provided. The lower shank position provides the greatest ground penetration.
- 3. Lock the scarifier bar into the lowered position.
- **4.** Lower the box blade and drive the tractor ahead to begin the scarifying operation.
- **5.** Adjust the depth of the scarifier by tilting the unit with the tractor top link. Shortening the top link will provide deeper and more aggressive operation.

SCRAPING

- **1.** Raise the scarifier bar. Lower the box blade and drive forward to move material.
- 2. Adjust the depth of the blade by tilting the unit with the tractor top link.

Shortening the top link when scraping will transfer more weight on the front of the blade and will raise the cutting blade to provide a more shallow cut.

NOTE: When the top link is adjusted properly, the bowl of the blade should fill easily and material can be pulled to a desired location.

- To change the level of the blade, shorten or lengthen the tractor lift arm tilt link to provide the correct slope.
- Spread material by gradually raising the box blade as the tractor moves forward.

NOTE: Top link adjustment for loose or previously scarified material will differ from adjustment for hard or compacted material.

BACKFILLING

- 1. Raise the scarifier bar.
- **2.** Lower the blade to the ground and back up into the fill material.
- **3.** Shorten the top link to raise the cutting blade and control how much the blade digs in.

LEVELING

- 1. Raise the scarifier bar.
- Shorten the top link so the cutting edge clears the ground.
- **3.** Drive forward with the box blade in this position and loose material will be leveled.

TAILGATE USE

- 1.
- 2.
- 3.
- 4.
- 5.

PRE-OPERATION CHECK LIST

(OWNER'S RESPONSIBILITY)

- ____ Review and follow all safety rules and safety decal instructions on page 6 through page 8.
- Check that equipment is properly and securely attached to tractor.
- Check that all safety decals are installed and in good condition. Replace if damaged.
- Check that all hardware is properly installed and secured.
- ___ Do not allow riders.
- Make sure tractor ROPS or ROPS cab and seat belt are in good condition. Keep seat belt securely fastened during operation.

12 Operation

MAN0856 (08/31/2010)

STORAGE

Refer to Figure 2 and block up box blade securely.

WARNING

- Block equipment securely for storage.
- Keep children and bystanders away from storage area.

■ Lock scarifier bar in lowered position for stor-

A CAUTION

age.

■ Plug the cylinder ports for storage to prevent water from contaminating the hydraulic system.

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.

M WARNING

- NEVER GO UNDERNEATH EQUIPMENT. Never place any part of the body underneath equipment or between moveable parts even when the engine has been turned off. Hydraulic system leak down, hydraulic system failures, mechanical failures, or movement of control levers can cause equipment to drop or rotate unexpectedly and cause severe injury or death.
 - Service work does not require going underneath.
 - Read Operator's Manual for service instructions or have service performed by a qualified dealer
- Keep all persons away from operator control area while performing adjustments, service, or maintenance.
- Before dismounting tractor or performing any service or maintenance, lower attachment to ground, turn off engine, set parking brake, operate valve levers to release any hydraulic pressure, and remove key.

A CAUTION

■ 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.

BLOCKING BOX BLADE

NOTE: To service the box blade when attached to the tractor, it must be blocked up off the ground.

- 1. Place two 4" x 4" (10 cm x 10 cm) blocks under each side frame of the box blade as shown in Figure 2.
- 2. Lock the scarifier bar in the lowered position.
- 3. Lower the box blade to rest securely on the blocks.

NOTE: Do not block the machine any higher than necessary to remove the shanks or cutting edge.

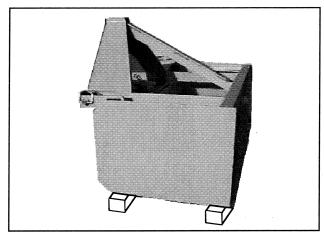


Figure 2. Box Blade Blocked Up

REMOVING SCARIFIER SHANKS (FIGURE 3)

Scarifier shanks have two operating positions in the blade. They may be removed if scarifying action is not needed.

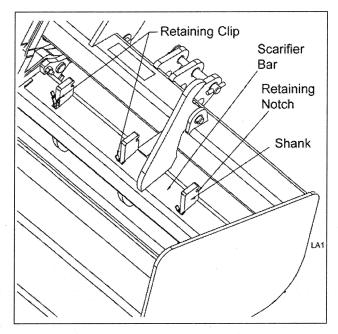


Figure 3. Scarifier Shanks

- 1. Block up machine (see Figure 2).
- 2. Lock scarifier bar into the lowered position.
- **3.** Remove retainer clip by using channel locks or vice grips to unlock shank.
- 4. Engage shank retaining notch on scarifier tube.
- **5.** Re-insert retainer clip to lock shank into position.

14 Owner Service

REPLACING SCARIFIER TOOTH (FIGURE 4)

WARNING

- Eye protection must be used when removing or installing scarifier shank clips.
- 1. Remove scarifier shank from the scarifier bar.
- 2. Remove the worn tooth by driving a chisel between the shank (1) and tooth (2).
- Install replacement tooth and use a punch (3) to peen the locking tab (4) into the retaining hole on both sides of the shank.
- 4. Re-install the shank in the scarifier bar.

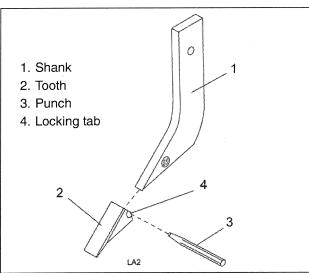


Figure 4. Scarifier Point Replacement

REPLACING CUTTING EDGE

All box blade models use two $1/2" \times 6" (12.7 \times 152 \text{ mm})$ cutting edges. They are interchangeable and reversible.

To service the box blade when attached to the tractor, it must be blocked up off the ground (see Figure 2).

- 1. Lock scarifier bar into the lowered position.
- 2. Refer to parts drawing, page 18. Remove the lock nuts (17) and plow bolts (16) from blade. Turn cutting edge over and use new edge, or replace it if both edges have been used.
- **3.** Attach cutting edge to box blade and secure with plow bolts and hex nuts previously removed.
- **4.** Torque plow bolts to specifications given in Bolt Torque Chart, page 24.

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 (purchase from your dealer).
- Replace any safety decals that are missing or not readable (supplied free by your dealer). See Safety Decals section for location drawing.



DEALER CHECK LISTS

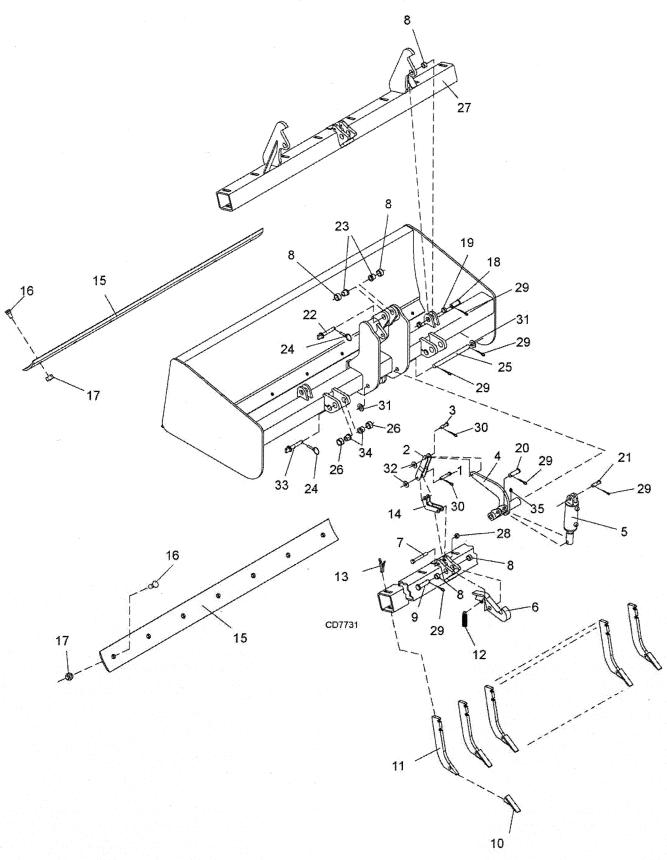
PRE-DELIVERY CHECK LIST equipment gross weight must be on front tractor wheels. When adding weight to attain 20% of (DEALER'S RESPONSIBILITY) tractor and equipment weight on front tractor The following check lists are a reminder of points to wheels, you must not exceed the ROPS weight inspect. Check off each item as it is found satisfactory certification. Weigh the tractor and equipment. Do or after proper adjustment is made. not estimate! Check that all safety decals are installed and in Show customer how to make adjustments. good condition. Replace if damaged. Present operator's manual and request that cus-Check all bolts to be sure they are tight. tomer and all operators read it before operating Check that all cotter pins and safety pins are equipment. Point out the manual safety rules, properly installed. Replace if damaged. explain their meanings, and emphasize the increased safety hazards that exist when safety rules are not followed. **DELIVERY CHECK LIST** (DEALER'S RESPONSIBILITY) Point out the safety decals. Explain their meaning and the need to keep them in place and in good Instruct customer how to lubricate and explain condition. Emphasize the increased safety hazthe importance of lubrication. ards when instructions are not followed. Show customer the safe, proper procedures for mounting, dismounting, and storing equipment. Explain to customer the potential crushing haz-For mounted units, add wheel weights, ballast in ards of going underneath raised equipment. front tires, and/or front tractor weight to enhance Instruct customer that service work does not

require going underneath unit and never to do so.

front end stability. A minimum 20% of tractor and

NOTES

4 X 4 HXD BOX BLADE ASSEMBLY

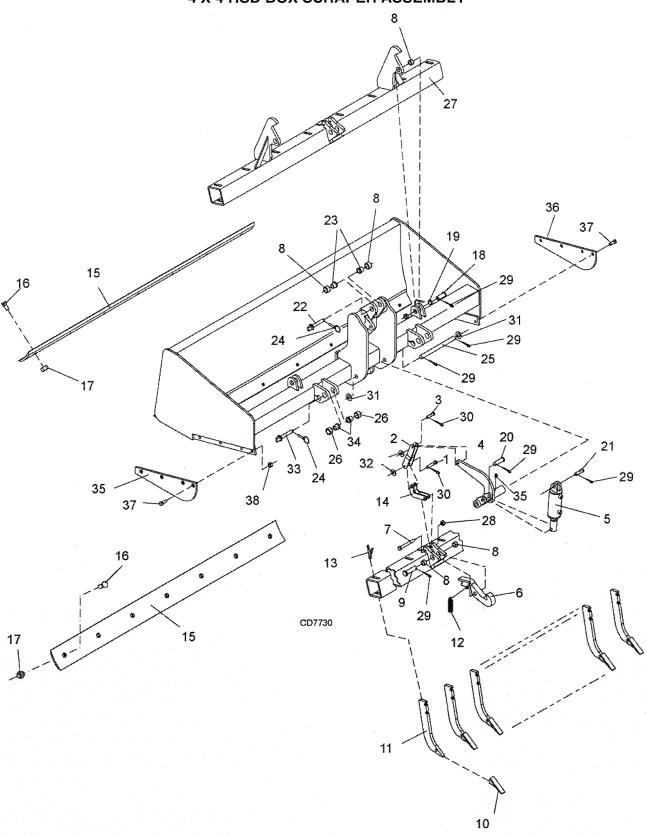


4 X 4 HXD BOX SCRAPER PARTS LIST

REF	PART	QTY	DESCRIPTION	REF	PART	QTY	DESCRIPTION
1	H04810	1	Pin, Clevis 1/2 x 2-1/2	18	H793	2	Pin, 1 x 2-11/16
2	H628	1	Link Assembly	19	H806	4	Bushing
3	H04807	1	Pin, Clevis 1/2 x 1-3/4	20	H376	1	Pin, 3/4 x 3-3/8
4	H896	1	Bell Crank	21	H397	1	Pin, 3/4 x 2-3/8
5	13534-1	1	Cylinder, Hydraulic	22	E152	1	Pin, CAT1 - Top -or-
	134531	1	Seal Kit, Hydraulic Cylinder (not shown)	22	E153	1	Pin, CAT2 - Top
6	H585	1	Hook	23	H872	2	Sleeve
7	21167	1	1/2 NC x 4 HHCS GR2	24	E056	3	Klik Pin
8	H805	6	Bushing	25	H351	1	Pin, 1 x 12-1/2
9	H174	1	Pin, 1 x 3-5/8	26	H899	4	Bushing
10	28765	8	Point	27	H88402	1	Scarifier Bar Assembly (Includes 6, 8, 9, 12 & 29), HD24480HXD
11	E155	8	Shank	27	H88403	1	Scarifier Bar Assembly (Includes 6, 8, 9,
12	E013	1	Spring				12 & 29), HD24484HXD
13	E039	8	Lock Key	27.	H88404	1	Scarifier Bar Assembly (Includes 6, 8, 9, 12 & 29), HD24488HXD
14	H623	1	Link Assembly	27	H88405	1	Scarifier Bar Assembly (Includes 6, 8, 9,
15	E04021	2	Cutting Edge, HD24480HXD		- +		12 & 29), HD24492HXD
15 15	E10021 H894	2 2	Cutting Edge, HD24488HXD Cutting Edge, HD24488HXD	27	H88408	1	Scarifier Bar Assembly (Includes 6, 8, 9, 12 & 29), HD24496HXD
15	H895	2	Cutting Edge, HD24492HXD	28	21323	1	1/2 NC Hex Lock Nut
15	H934	2	Cutting Edge, HD24496HXD	29	1266	7	3/16 x 1-1/2 Cotter Pin
16	21157	14	5/8 NC X 1-3/4 Plow Bolt GR8,	30	21138	2	1/8 x 1-1/2 Cotter Pin
			HD24480HXD & HD2448HXD	31	1863	2	1 Flat Washer
16	21157	16	5/8 NC X 1-3/4 Plow Bolt GR8,	32	854	2	1/2 Flat Washer
			HD24488HSD,HD24492HXD & HD24496HXD	33	E009	2	Pin - CAT1 Lower -or-
17	21288	14	5/8 NC Lock Nut, HD24480HXD &	33	E04009	2	Pin - CAT2 Lower
			HD2448HXD	34	H915	4	Sleeve
17	21288		5/8 NC Lock Nut, HD24488HSD,HD24492HXD &	35	1972	1	1/4-28 Tappered Grease Zerk
			HD24496HXD				

MAN0856 (08/31/2010)

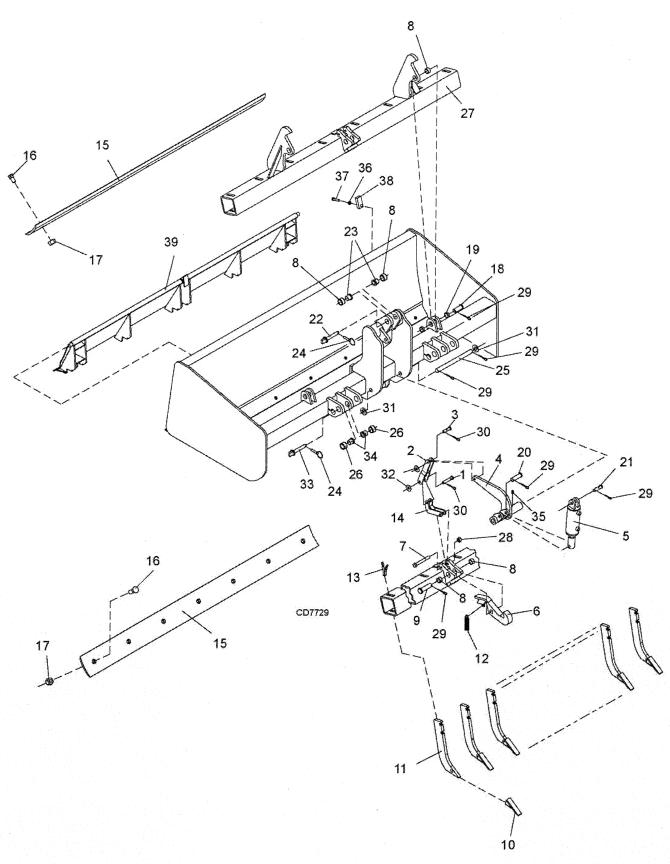
4 X 4 HSD BOX SCRAPER ASSEMBLY



4 X 4 HSD BOX SCRAPER PARTS LIST

REF	PART	QTY	DESCRIPTION	REF	PART	QTY	DESCRIPTION
1	H04810	1	Pin, Clevis 1/2 x 2-1/2	18	H793	2	Pin, 1 x 2-11/16
2	H628	1	Link Assembly	19	H806	4	Bushing
3	H04807	1	Pin, Clevis 1/2 x 1-3/4	20	H376	1	Pin, 3/4 x 3-3/8
4	H896	1	Bell Crank	21	H397	1	Pin, 3/4 x 2-3/8
5	13534-1	1	Cylinder, Hydraulic	22	E152	1	Pin, CAT1 - Top -or-
	134531	1	Seal Kit, Hydraulic Cylinder	22	E153	1	Pin, CAT2 - Top
6	H585	1	Hook	23	H872	2	Sleeve
7	21167	1	1/2 NC x 4 HHCS GR2	24	E056	3	Klik Pin
8 -	H805	6	Bushing	25	H351	1	Pin, 1 x 12-1/2
9	H174	1	Pin, 1 x 3-5/8	26	H899	4	Bushing
10 11	28765 E155	8° 8	Point Shank	27	H88406	1	Scarifier Bar Assembly (Includes 6, 8, 9, 12 & 29), HD24472HSD
12	E013	1	Spring	27	H88401	1	Scarifier Bar Assembly (Includes 6, 8, 9, 12 & 29), HD24476HSD
13	E039	8	Lock Key	27	H88402	1	Scarifier Bar Assembly (Includes 6, 8, 9,
14	H623	1	Link Assembly				12 & 29), HD24480HSD
15	E2021	2	Cutting Edge, HD24472HSD	27	H88403	1	Scarifier Bar Assembly (Includes 6, 8, 9,
15	H491	2	Cutting Edge, HD24476HSD				12 & 29), HD24484HSD
15	E04021	2	Cutting Edge, HD24480HSD	27	H88404	1	Scarifier Bar Assembly (Includes 6, 8, 9, 12 & 29), HD24488HSD
15	E10021	2	Cutting Edge, HD24484HSD	27	H88405	1	Scarifier Bar Assembly (Includes 6, 8, 9,
15	H894	2	Cutting Edge, HD24488HSD				12 & 29), HD24492HSD
15	H895	2	Cutting Edge, HD24492HSD	28	21323	1	1/2 NC Hex Lock Nut
16	21157	12	5/8 NC X 1-3/4 Plow Bolt GR8, HD24472HSD	29	1266	7	3/16 x 1-1/2 Cotter Pin
16	21157	14	5/8 NC X 1-3/4 Plow Bolt GR8,	30	21138	2	1/8 x 1-1/2 Cotter Pin
			HD24476HSD,HD24480HSD,	31	1863	2	1 Flat Washer
			HD24484HSD	32	854	2	1/2 Flat Washer
16	21157	16	5/8 NC X 1-3/4 Plow Bolt GR8, HSD24488HSD, HSD24492HSD	33	E009	2	Pin - CAT1 Lower -or-
17	21288	12	5/8 NC Lock Nut, HD24472HSD	33	E04009	2	Pin - CAT2 Lower
17			5/8 NC Lock Nut,	34	H915	4	Sleeve
17	21200	14	HD24476HSD,HD24480HSD,	35	H981	1	Right Wear Bar
			HD24484HSD	36	H98101	1	Left Wear Bar
17	21288	16	5/8 NC Lock Nut, HSD24488HSD,	37	21261	8	5/8 NC x 2 Plow Bolt
			HSD24492HSD	38	6239	8	5/8 NC Lock Nut
				39	1972	1 1	1/4-28 Tappered Grease Zerk

4 X 2 LB & HB BOX SCRAPER ASSEMBLY



4 X 2 LB & HB BOX SCRAPER PARTS LIST

REF	PART	QTY	DESCRIPTION	REF	PART	QTY	DESCRIPTION
1	H04810	1	Pin, Clevis 1/2 x 2-1/2	21	H397	. 1	Pin, 3/4 x 2-3/8
2	H628	1	Link Assembly	22	E152	1	Pin, CAT1 - Top -or-
3	H04807	1	Pin, Clevis 1/2 x 1-3/4	22	E153	1	Pin, CAT2 - Top
4	H896	1	Bell Crank	23	H872	2	Sleeve
5	13534-1	1	Cylinder, Hydraulic	24	E056	3	Klik Pin
	134531	1	Seal Kit, Hydraulic Cylinder (not	25	H351	1	Pin, 1 x 12-1/2
			shown)	26	H899	4	Bushing
6	H585	1	Hook	27	H88407	1	Scarifier Bar Assembly (Includes 6, 8, 9,
7	21167	1	1/2 NC x 4 HHCS GR2				12 & 29), HD24265LB & HB
8	H805	6	Bushing	27	H88406	1	Scarifier Bar Assembly (Includes 6, 8, 9, 12 & 29), HD24272LB & HB
9	H174	1	Pin, 1 x 3-5/8	27	H88401	1	Scarifier Bar Assembly (Includes 6, 8, 9,
10	28765	6	Point, HD24265LB & HB	21	1100-101	'	12 & 29), HD24276LB & HB
10	28765	8	Point	27	H88402	1	Scarifier Bar Assembly (Includes 6, 8, 9,
11	E155	6	Shank, HD24265LB & HB				12 & 29), HD24280LB & HB
11	E155	8	Shank	27	H88403	1	Scarifier Bar Assembly (Includes 6, 8, 9,
12	E013	1	Spring	00	01000	4	12 & 29), HD24284HB
13	E039	6	Lock Key, HD24265LB & HB	28	21323	1	1/2 NC Hex Lock Nut
13	E039	8	Lock Key	29	1266	7	3/16 x 1-1/2 Cotter Pin
14	H623	1	Link Assembly	30	21138	2	1/8 x 1-1/2 Cotter Pin
15	E021	2	Cutting Edge, HD24265LB & HB	31	1863	2	1 Flat Washer
15	E02021	2	Cutting Edge, HD24272LB & HB	32	854	2	1/2 Flat Washer
15	H491	2	Cutting Edge, HD24276LB & HB	33	E009	2	Pin - CAT1 Lower -or-
15	E04021	2	Cutting Edge, HD24280LB & HB	33	E04009	2	Pin - CAT2 Lower
15	E10021	2	Cutting Edge, HD24284HB	34	H915	4	Sleeve
16	21157	12	5/8 NC X 1-3/4 Plow Bolt GR8, HD24265LB & HB	35	1972	1	1/4-28 Tappered Grease Zerk
10	01157	11	5/8 NC X 1-3/4 Plow Bolt GR8	36	62580	2	9/16 Flat Washer
16				37	90001229	2	1/2 NC x 2 HHCS GR5 ZP
17	21288	12	5/8 NC Lock Nut, HD24265LB & HB	38	H822		Lock Bar
17	21288	14	5/8 NC Lock Nut	39	H768	1	Tailgate Assembly, HD24265LB & HB
18	H793	2	Pin, 1 x 2-11/16	39	H714	1	Tailgate Assembly, HD24272LB & HB
19	H806	4	Bushing	39	H706	1	Tailgate Assembly, HD24276LB & HB
20	H376	1	Pin, 3/4 x 3-3/8	39	H683	1	Tailgate Assembly, HD24280LB & HB
				39	H701	1	Tailgate Assembly, HD24284HB

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



SAE Grade 2

(No Dashes)

SAE Bolt Head Identification



SAE Grade 5 (3 Radial Dashes)



SAE Grade 8 (6 Radial Dashes)

(A)		MARKING ON HEAD							
Diameter	Wrench	SA	E 2	SA	\E 5	SA	λE 8		
(Inches)	Size	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		



METRIC SERIES CHART



Metric Bolt Head Identification Metric Grade 8.8



Metric **Grade 10.9**

			Coarse	Thread			Fine ⁻	Γhread		
A			Marking	on Head			Marking	on Head		(A)
Diameter & Thread Pitch	Wrench	Metr	ic 8.8	Metri	c 10.9	Metr	ic 8.8	Metri	c 10.9	Diameter & Thread Pitch
(Millimeters)	Size	N-m	lbs-ft	N-m	lbs-ft	N-m	lbs-ft	N-m	lbs-ft	(Millimeters)
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

Typical Washer Installations Bolt

Lock Washer

Flat Washer



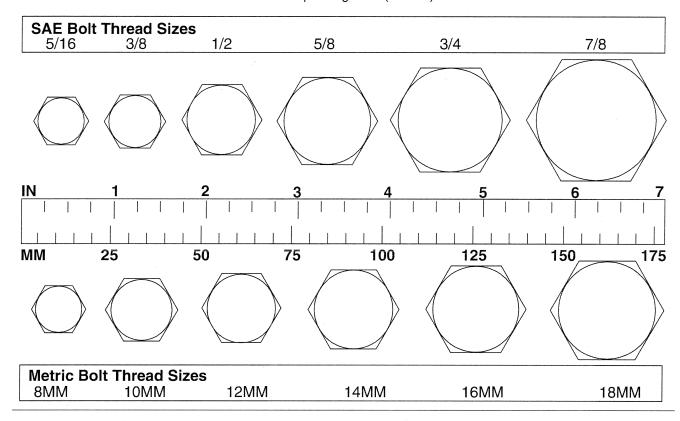
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24 Appendix

Bolt Torque & Size Charts (Rev. 3/28/2007)

BOLT SIZE CHART

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



ABBREVIATIONS

AG	Agriculture
ASABE	American Society of Agricultural &
	Biological Engineers (formerly ASAE)
ASAE A	merican Society of Agricultural Engineers
ATF	Automatic Transmission Fluid
BSPP	British Standard Pipe Parallel
BSPTM	British Standard Pipe Tapered Male
CV	Constant Velocity
CCW	Counter-Clockwise
CW	Clockwise
F	Female
FT	Full Thread
GA	Gauge
	Grade (5, etc.)
	Hex Head Cap Screw
HT	Heat-Treated
JIC	Joint Industry Council 37° Degree Flare
LH	Left Hand
LT	Left
m	Meter
mm	Millimeter
M	

MPa	Mega Pascal		
N	Newton		
NC	National Coarse		
NF	National Fine		
NPSM	National Pipe Straight Mechanical		
NPT	National Pipe Tapered		
NPT SWF National Pipe Tapered Swivel Female			
ORBM	O-Ring Boss - Male		
P	Pitch		
PBY	Power-Beyond		
psi	Pounds per Square Inch		
PTO	Power Take Off		
QD	Quick Disconnect		
RH	Right Hand		
ROPS	Roll-Over Protective Structure		
RPM	Revolutions Per Minute		
RT	Right		
SAE	Society of Automotive Engineers		
UNC	Unified Coarse		
UNF	Unified Fine		
UNS	Unified Special		



WARRANTY

All Models Except Mow'n Machine™ Zero-Turn Mowers

Please Enter Information Below and Save for Future Reference.	
Date Purchased:	From (Dealer):
Model Number:	Serial Number:
	o be free from defect in material and workmanship. Except as otherwise set forth 12) MONTHS COMMENCING ON THE DATE OF DELIVERY OF THE

All current model loaders and backhoes are warranted for two (2) years from the date of delivery to the original purchaser.

The warranty periods for specific parts or conditions are listed below:

Part or Condition Warranted	Model Number	Duration (from date of delivery to the original purchaser)
Gearbox Seals	All units listed below	2 years
Gearbox components	BW1260, BW1620, BW1800, BW2400	8 years
	BW240HD, BW180HD, BW180HB, BW126HB	7 years
	BB48X, BB60X, BB72X, BB84X, BB600X, BB720X, BB840X, BB6000X, BB7200X, BB8400X, DS1260, DS01260, DS1440, TS1680, BW126-3, BW180-3, BW240	6 years
	PHD25, PHD35, PHD65, PHD95, 2162, 3240, DS96, DS120, RCC42, RM550-2, RM660-2, RM990-3, PRD6000, PRD7200, PRD8400, S15CD, S20CD, S22CD, S25CD, S27CD, BW180LH, TC/R74, TC/R68, TC/R60, TBW144, TBW180, TBW204	5 years
	RDC54, RD60, RD72, TBW150C, TS/R60, TS/R52, TS/R44	3 years (1 year if used in rental or commercial applications)
Blade spindles	RM550-2, RM660-2, RM990-3, PRD6000, PRD7200, PRD8400, 7144RD-2, 9180RD-2, 9204RD-2	3 years
Rust-through	BB600, BB720, BB840, BB6000, BB7200, BB8400, BW126-3, BW126HB, BW180-3, BW180HB, BW180HD, BW1260, BW1800, BW240, BW240HD, 2162, 3240, DS1260, DS01260, DS1440, TS1680	10 years

Under no circumstances will this Warranty apply in the event that the product, in the good faith opinion of WOODS, has been subjected to improper operation, improper maintenance, misuse, or an accident. This Warranty does not apply in the event that the product has been materially modified or repaired by someone other than WOODS, a WOODS authorized dealer or distributor, and/or a WOODS authorized service center. This Warranty does not cover normal wear or tear, or normal maintenance items. This Warranty also does not cover repairs made with parts other than those obtainable through WOODS.

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

WOODS makes no warranty, express or implied, with respect to engines, batteries, tires or other parts or accessories not manufactured by WOODS. Warranties for these items, if any, are provided separately by their respective manufacturers.

WOODS' obligation under this Warranty is limited to, at WOODS' option, the repair or replacement, free of charge, of the product if WOODS, in its sole discretion, deems it to be defective or in noncompliance with this Warranty. The product must be returned to WOODS with proof of purchase within thirty (30) days after such defect or noncompliance is discovered or should have been discovered, routed through the dealer and distributor from whom the purchase was made, transportation charges prepaid. WOODS shall complete such repair or replacement within a reasonable time after WOODS receives the product. THERE ARE NO OTHER REMEDIES UNDER THIS WARRANTY. THE REMEDY OF REPAIR OR REPLACEMENT IS THE SOLE AND EXCLUSIVE REMEDY UNDER THIS WARRANTY.

THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE OF THIS WARRANTY. WOODS MAKES NO OTHER WARRANTY, EXPRESS OR IMPLIED, AND WOODS SPECIFICALLY DISCLAIMS ANY IMPLIED WARRANTY OF MERCHANTABILITY AND/OR ANY IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE.

WOODS shall not be liable for any incidental or consequential losses, damages or expenses, arising directly or indirectly from the product, whether such claim is based upon breach of contract, breach of warranty, negligence, strict liability in tort or any other legal theory. Without limiting the generality of the foregoing, Woods specifically disclaims any damages relating to (i) lost profits, business, revenues or goodwill; (ii) loss of crops; (iii) loss because of delay in harvesting; (iv) any expense or loss incurred for labor, supplies, substitute machinery or rental; or (v) any other type of damage to property or economic loss.

This Warranty is subject to any existing conditions of supply which may directly affect WOODS' ability to obtain materials or manufacture replacement parts.

No agent, representative, dealer, distributor, serviceperson, salesperson, or employee of any company, including without limitation, WOODS, its authorized lealers distributors and ervice enters authorized altermodify cenlarge his Warranty Answers any **ALITEC**™ questions regarding warranty service and locations may be obtained by contacting:

CENTRAL FABRICATORS®

GANNON®

GILL®

WAIN-ROY®

WOODS®

Woods Equipment Company

2606 South Illinois Route 2 Post Office Box 1000 Oregon, Illinois 61061 USA

800-319-6637 tel 800-399-6637 fax www.WoodsEquipment.com

WARRANTY

(Replacement Parts For All Models Except Mow'n Machine[™] Zero-Turn Mowers and Woods Boundary[™] Utility Vehicles)

Woods Equipment Company ("WOODS") warrants this product to be free from defect in material and workmanship for a period of ninety (90) days from the date of delivery of the product to the original purchaser with the exception of V-belts, which will be free of defect in material and workmanship for a period of 12 months.

Under no circumstances will this Warranty apply in the event that the product, in the good faith opinion of WOODS, has been subjected to improper operation, improper maintenance, misuse, or an accident. This Warranty does not cover normal wear or tear, or normal maintenance items.

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

WOODS' obligation under this Warranty is limited to, at WOODS' option, the repair or replacement, free of charge, of the product if WOODS, in its sole discretion, deems it to be defective or in noncompliance with this Warranty. The product must be returned to WOODS with proof of purchase within thirty (30) days after such defect or noncompliance is discovered or should have been discovered, routed through the dealer and distributor from whom the purchase was made, transportation charges prepaid. WOODS shall complete such repair or replacement within a reasonable time after WOODS receives the product. THERE ARE NO OTHER REMEDIES UNDER THIS WARRANTY. THE REMEDY OF REPAIR OR REPLACEMENT IS THE SOLE AND EXCLUSIVE REMEDY UNDER THIS WARRANTY.

THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE OF THIS WARRANTY. WOODS MAKES NO OTHER WARRANTY, EXPRESS OR IMPLIED, AND WOODS SPECIFICALLY DISCLAIMS ANY IMPLIED WARRANTY OF MERCHANTABILITY AND/OR ANY IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE.

WOODS shall not be liable for any incidental or consequential losses, damages or expenses, arising directly or indirectly from the product, whether such claim is based upon breach of contract, breach of warranty, negligence, strict liability in tort or any other legal theory. Without limiting the generality of the foregoing, Woods specifically disclaims any damages relating to (i) lost profits, business, revenues or goodwill; (ii) loss of crops; (iii) loss because of delay in harvesting; (iv) any expense or loss incurred for labor, supplies, substitute machinery or rental; or (v) any other type of damage to property or economic loss.

This Warranty is subject to any existing conditions of supply which may directly affect WOODS' ability to obtain materials or manufacture replacement parts.

No agent, representative, dealer, distributor, service person, salesperson, or employee of any company, including without limitation, WOODS, its authorized dealers, distributors, and service centers, is authorized to alter, modify, or enlarge this Warranty.

Answers to any questions regarding warranty service and locations may be obtained by contacting:

Woods Equipment Company

2606 South Illinois Route 2 Post Office Box 1000 Oregon IL 61061

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