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. 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 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.

![Danger Symbol](image)

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.

![Warning Symbol](image)

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

![Caution Symbol](image)

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

IMPORTANT or NOTICE

![Note Symbol](image)

Indicates helpful information.
### TABLE OF CONTENTS

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---

**¡LEA EL INSTRUCTIVO!**

Si no lee Inglés, pida ayuda a alguien que sí 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.
**SPECIFICATIONS**

<table>
<thead>
<tr>
<th></th>
<th>DHM5</th>
<th>DHM6</th>
<th>DHM7</th>
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<td>1&quot; Square High Carbon Steel</td>
<td>1&quot; Square High Carbon Steel</td>
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<td>Cat 1</td>
<td>Cat 1</td>
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<td>Horsepower</td>
<td>28 - 70</td>
<td>32 - 70</td>
<td>36 - 70</td>
</tr>
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<td>Blade Type</td>
<td>Notched or Smooth</td>
<td>Notched or Smooth</td>
<td>Notched or Smooth</td>
</tr>
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<td>Frame Tube</td>
<td>3&quot; Square</td>
<td>3&quot; Square</td>
<td>3&quot; Square</td>
</tr>
<tr>
<td>Blade Spacing</td>
<td>7-1/2 inches</td>
<td>7-1/2 inches</td>
<td>7-1/2 inches</td>
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<tr>
<td>Bearing Hanger</td>
<td>1/2&quot; Plate, 3/4&quot; Bolt (2)</td>
<td>1/2&quot; Plate, 3/4&quot; Bolt (2)</td>
<td>1/2&quot; Plate, 3/4&quot; Bolt (2)</td>
</tr>
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<td>3&quot; Square</td>
<td>3&quot; Square</td>
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<td>Front &amp; Rear: 0, 7, 14 &amp; 21 degrees</td>
<td>Front &amp; Rear: 0, 7, 14 &amp; 21 degrees</td>
<td>Front &amp; Rear: 0, 7, 14 &amp; 21 degrees</td>
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<tr>
<td>Quick Hitch</td>
<td>Yes</td>
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<td>Yes</td>
</tr>
</tbody>
</table>

**GENERAL INFORMATION**

The purpose of this manual is to assist you in operating and maintaining your Disc Harrow. 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 direction. These are determined by standing behind the tractor facing the direction of forward travel.
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.
- 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

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

## SAFETY RULES

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

- 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.
- Consult local utilities before working. Know location of all underground cables, pipelines, overhead wires, and other hazards in working area and avoid contact.

### 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

- 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.
- Never allow riders on power unit or attachment.
- Power unit must be equipped with ROPS or ROPS cab and seat belt. Keep seat belt securely fastened. Falling off power unit can result in death from being run over or crushed. Keep foldable ROPS system in “locked up” position at all times.
- 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 hillside.

(Safety Rules continued on next page)
(Safety Rules continued from previous page)

- 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.
- Stop power unit and equipment immediately upon striking an obstruction. Turn off engine, remove key, inspect, and repair any damage before resuming operation.
- Watch for hidden hazards on the terrain during operation.

**MAINTENANCE**

- Before performing any service or maintenance, lower attachment to ground, turn off engine, set parking brake, and remove key.
- 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 (lowered to the ground or raised) unless it is properly blocked and secured. 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.
- Make sure attachment is properly secured, adjusted, and in good operating condition.
- Never perform service or maintenance with engine running.
- 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.

**STORAGE**

- To help prevent injury caused by a falling implement, always detach on a hard level surface.
- Block equipment securely for storage.
- Keep children and bystanders away from storage area.
- Follow manual instructions for storage.
SAFETY & INSTRUCTIONAL DECALS

ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!

Replace Immediately If Damaged!

1 - Serial Number Plate

Model #
Serial #
(BAR CODE)

WOODS Equipment Company
Oregon, Illinois 61067 USA

4 - PN 20106 - (DHM5 & DHM6)
PN 57123 - (DHM7)
RED REFLECTOR
Located on back of rear gang tube.
Refer to Figure 3 on page 9 for location.

2 - 1021069

CRUSHING AND PINCHING HAZARD

- Handle machine parts carefully. 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 can result in injury or death.

WARNING

RAISED IMPLEMENT CAN DROP AND CRUSH

- Never go underneath raised implement which can drop from equipment or tractor 3-point hitch hydraulic leak down, hydraulic system failures, movement of control levers, or mechanical linkage failures.
- Service work does not require going underneath implement. Read manual instructions.

Going underneath implement can result in serious injury or death.

3 - 1021070

CRUSHING AND PINCHING HAZARD

- Handle machine parts carefully. 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 can result in injury or death.

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 dealer or call 1-800-319-6637.
- Lower equipment to ground, stop engine, remove key, and set brake before dismounting tractor.
- Never allow children or untrained persons to operate equipment.
- Never allow riders.
- Keep bystanders away from equipment during operation.
- Keep all shields in place and in good condition.

Failure to follow these instructions can result in serious injury or death.

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.

Failure to follow these instructions can result in serious injury or death.

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.
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, page 5 through page 7.

The disc harrow is designed for a wide range of applications: leveling, grading, and discing.

**WARNING**

- 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.

- Power unit must be equipped with ROPS or ROPS cab and seat belt. Keep seat belt securely fastened. Falling off power unit can result in death from being run over or crushed. Keep foldable ROPS system 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 implement.
  - 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.

**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.

**PRE-OPERATION CHECK LIST**

Owner’s Responsibility

- Review and follow all safety rules and safety decal instructions, page 5 through page 7.
- 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.

**CONNECT DISC HARROW TO TRACTOR**

This disc harrow should be mounted on tractors with a maximum engine rating of 70 hp.

This disc harrow is compatible with Category 1 3-point tractors equipped with side swing type lower lift arms. Adjust or remove tractor drawbar to eliminate interference with disc harrow.

**NOTICE**

- The 3/4” bolt and sleeve in the lower hole provide the attachment point for a Category 1 quick coupler. Do not remove this bolt and sleeve when operating the disc harrow.

1. Place tractor 3-point lower lift arms between mounting lugs.
2. Secure with category 1 mounting pin and klik pin (provided) shown in Figure 1.
3. Attach the tractor’s top link to the top of the disc harrow’s A-frame bars.
4. Secure with the heavy-duty top link pin and retaining pin supplied with tractor top link.

**NOTE:** Check torque on each gang axle nut after the first five hours of use. Torque to 250 lbs-ft.

**Quick Hitch**

The disc harrow will attach to a Category 1 quick hitch.

**Adjusting Top Link**

The disc harrow is leveled by adjusting the length of the tractor’s top link.

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

**Angling Blades**

1. Using the 3-point lift; raise disc harrow off the ground.
2. Remove hitch pin (6) and safety pin.
3. Grasp handle and move carriage to the desired position (Figure 3).
4. Insert hitch pin (6) in new hole location and secure with safety pin.

**NOTE:** The greater the disc angle; the greater the material turn over.

**STORAGE**

- To help prevent injury caused by a falling implement, always detach on a hard level surface.
- Block equipment securely for storage.
- Do not climb or lean on stored equipment.
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**

- **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.

**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.

**DISC REPLACEMENT**

1. Remove nuts (12), lock washers (19), cap screws (13), and bearing top plate (14) from both bearing mounts (15) that secure the disc harrow gang to the frame (Figure 4).

2. Remove jam nut (11), axle nut (10), and small end cap washer (9) on the end of the disc gang shown in Figure 5.

3. Slide discs, spacers and bearing mounts off axle as needed to replace desired disc(s) and bearing(s).

**NOTE:** Maintain proper order of discs, spacers, and bearing mounts for reassembly. See Figure 6 or Parts page 16.
REPLACE BEARING

1. Remove bearing mount following steps in Disc Replacement, page 10.

2. Remove carriage bolts (16), lock washers (17), hex nuts (18), and bearing (6) from bearing mount (15).

3. Install new bearing using hardware previously removed.

4. Assemble Gang


   NOTE: Maintain proper order of discs, spacers, and bearing mounts for reassembly.

2. Secure gang assembly to the frame using the nuts (12), lock washers (19), cap screws (13), and bearing top plate (14) previously removed.

   Figure 7. Bearing Assembly

   Figure 8. Left Rear Disc Gang Assembled

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 missing paint and coat with Woods spray paint of matching color (purchase from your Woods dealer).
- Replace any safety decals that are missing or not readable (supplied free by your Woods dealer). See Safety Decals section for location drawing.
ASSEMBLY INSTRUCTIONS

DEALER SET-UP INSTRUCTIONS

Assembly of this Disc Harrow is the responsibility of the WOODS dealer. The Disc Harrow is shipped completely assembled but may require gang assembly adjustment.

Gang assemblies should be adjusted to the dimensions shown in Figure 7 and Table 1. Torque values for hardware are located on page 18.

Disc Harrow should be delivered to the owner completely assembled, lubricated and adjusted for normal conditions.

Complete the Dealer Checklist on page 13 when set-up is complete and Disc Harrow is delivered to the owner.

<table>
<thead>
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<th>Model</th>
<th>Offset (Inches)</th>
<th>“A” Front</th>
<th>“B” Rear</th>
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<td>3.5</td>
<td>3.0</td>
</tr>
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<td>DHM6</td>
<td></td>
<td>3.0</td>
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</tr>
<tr>
<td>DHM7</td>
<td></td>
<td>2.5</td>
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</table>

Table 1: Gang Offset Dimensions

Figure 7. Gang Assembly Adjustment

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 implement.
  - 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.

CAUTION

- 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.

(Rev. 2/15/2015)
MAN0562 (9/1/2006)
DEALER CHECK LISTS

PRE-DELIVERY CHECK LIST
(DEALER’S RESPONSIBILITY)

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

The following check lists 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 gang assembly offset and adjust as necessary.
___ Properly attach implement to tractor and make all necessary adjustments.
___ 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 CHECK LIST
(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.
___ For mounted units, add wheel weights, ballast in front tires, and/or front tractor weight to enhance front end stability. A minimum 20% of tractor and equipment gross weight must be on front tractor wheels. When adding weight to attain 20% of tractor and equipment weight on front tractor wheels, you must not exceed the ROPS weight certification. Weigh the tractor and equipment. Do not estimate!
___ Make customer aware of optional equipment available so that customer can make proper choices as required.
### FRAME ASSEMBLY

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<th>REF</th>
<th>PART</th>
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<th>DESCRIPTION</th>
<th>REF</th>
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<th>QTY</th>
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<td>1</td>
<td>Frame (DHM5 &amp; DHM6) -or-</td>
<td>9</td>
<td>2376</td>
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<td>3/4 NC x 5 HHCS GR5</td>
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<td>1</td>
<td>1022252</td>
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<td>Frame (DHM7)</td>
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<td>3/4 NC Lock nut</td>
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<td>4</td>
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<td>Complete decal set, DHM</td>
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<td>Cap, 3&quot; x 3&quot; Black plastic</td>
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<td>1022043†</td>
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<td>Quick hitch bushing kit (optional)</td>
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<td>Left A-Frame bar</td>
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<td>includes decal 1021070 -or-</td>
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<td>6</td>
<td>1022514</td>
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<td>7</td>
<td>SU105</td>
<td>2</td>
<td>Category 1 drawbar pin w/lynch</td>
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<td></td>
<td></td>
<td>HHCS Hex Head Cap Screw</td>
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<tr>
<td>8</td>
<td>2377</td>
<td>1</td>
<td>3/4 NC x 6 HHCS GR5</td>
<td></td>
<td></td>
<td></td>
<td>* Standard hardware, obtain locally</td>
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</tbody>
</table>

* Standard hardware, obtain locally

† Not Shown
## ANGLE ADJUSTMENT ASSEMBLY
*(ONE SET SHOWN)*

<table>
<thead>
<tr>
<th>REF</th>
<th>PART</th>
<th>QTY</th>
<th>DESCRIPTION</th>
<th>REF</th>
<th>PART</th>
<th>QTY</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1022505</td>
<td>2</td>
<td>Top adjustment bracket</td>
<td>5</td>
<td>6239</td>
<td>4</td>
<td>5/8 NC Lock nut</td>
</tr>
<tr>
<td>2</td>
<td>1022506</td>
<td>2</td>
<td>Bottom adjustment bracket</td>
<td>6</td>
<td>SU105</td>
<td>2</td>
<td>Category 1 drawbar pin w/lynch</td>
</tr>
<tr>
<td>4</td>
<td>378 *</td>
<td>4</td>
<td>5/8 NC x 5 HHCS GR5</td>
<td></td>
<td></td>
<td></td>
<td>HHCS Hex Head Cap Screw</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>* Standard hardware, obtain locally</td>
</tr>
</tbody>
</table>

*HHCS Hex Head Cap Screw*
GANG ASSEMBLY
(ONE DHM7 SET SHOWN)

<table>
<thead>
<tr>
<th>REF</th>
<th>PART</th>
<th>QTY</th>
<th>DESCRIPTION</th>
<th>REF</th>
<th>PART</th>
<th>QTY</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1011299</td>
<td>4</td>
<td>Disc Harrow axle 1&quot; x 26&quot; (DHM5)</td>
<td>11</td>
<td>3132</td>
<td>4</td>
<td>1&quot; NC Hex nut (axle nut)</td>
</tr>
<tr>
<td>1</td>
<td>1011277</td>
<td>4</td>
<td>Disc Harrow axle 1&quot; x 34&quot; (DHM6)</td>
<td>12</td>
<td>FA446</td>
<td>16</td>
<td>3/4 NC Nylok nut</td>
</tr>
<tr>
<td>1</td>
<td>1011279</td>
<td>4</td>
<td>Disc Harrow axle 1&quot; x 41&quot; (DHM7)</td>
<td>13</td>
<td>2376</td>
<td>16</td>
<td>3/4 NC x 5 HHCS GR5</td>
</tr>
<tr>
<td>2</td>
<td>1011322</td>
<td>8</td>
<td>End cap/bumper washer, large</td>
<td>14</td>
<td>1022503</td>
<td>8</td>
<td>Bearing, top plate</td>
</tr>
<tr>
<td>3</td>
<td>1011258</td>
<td>AR 18&quot; Plain disc blade (not shown)</td>
<td>15</td>
<td>1022502</td>
<td>2</td>
<td>Bearing mount</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>1011274</td>
<td>AR 18&quot; Notched disc blade</td>
<td>16</td>
<td>29893</td>
<td>32</td>
<td>1/2 NC x 1-1/2 Carriage bolt</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>1011323</td>
<td>8</td>
<td>Spool spacer, 3-5/8&quot;</td>
<td>17</td>
<td>855</td>
<td>32</td>
<td>1/2 Lock washer</td>
</tr>
<tr>
<td>6</td>
<td>1022500</td>
<td>8</td>
<td>Square harrow bearing, 1&quot;</td>
<td>18</td>
<td>1093</td>
<td>32</td>
<td>1/2 NC Hex nut</td>
</tr>
<tr>
<td>7</td>
<td>1011324</td>
<td>8</td>
<td>Spool spacer, 2-3/8&quot;</td>
<td>19</td>
<td>1022544</td>
<td>AR</td>
<td>Washer, 3.5 x 1.41 x .31</td>
</tr>
<tr>
<td>8</td>
<td>1011349</td>
<td>8</td>
<td>Plain spool, 7-7/16&quot;</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>1022501</td>
<td>4</td>
<td>End cap washer, small</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>3689</td>
<td>* 4</td>
<td>1&quot; Lock washer</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

AR As required
HHCS Hex Head Cap Screw
* Standard hardware, obtain locally
# MUD SCRAPER ASSEMBLY (OPTIONAL)

(ONE DHM7 KIT SHOWN)

<table>
<thead>
<tr>
<th>REF</th>
<th>DHM5</th>
<th>PART</th>
<th>QTY</th>
<th>DHM6</th>
<th>PART</th>
<th>QTY</th>
<th>DHM7</th>
<th>PART</th>
<th>QTY</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1036473</td>
<td>1036474</td>
<td>1</td>
<td>1035662</td>
<td>8</td>
<td>1035662</td>
<td>8</td>
<td>Mud scraper kit</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>14350*</td>
<td>14350*</td>
<td>8</td>
<td>14350*</td>
<td>16</td>
<td>14350*</td>
<td>24</td>
<td>U-Bolt, 3/8 NC</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>1037494</td>
<td>1037494</td>
<td>4</td>
<td>1037494</td>
<td>4</td>
<td>1037494</td>
<td>4</td>
<td>3/8 NC Flanged lock nut</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>1037495</td>
<td>1037495</td>
<td>4</td>
<td>1037495</td>
<td>4</td>
<td>1037495</td>
<td>4</td>
<td>Scraper, bearing mount, RH</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>1037478</td>
<td>1037478</td>
<td>2</td>
<td>1037478</td>
<td>2</td>
<td>1037478</td>
<td>2</td>
<td>Scraper, channel, RH</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>1037479</td>
<td>1037479</td>
<td>2</td>
<td>1037479</td>
<td>2</td>
<td>1037479</td>
<td>2</td>
<td>Scraper, channel, LH</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>-------</td>
<td>1037486</td>
<td>2</td>
<td>1037486</td>
<td>4</td>
<td>Scraper, link, RH</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>-------</td>
<td>1037487</td>
<td>2</td>
<td>1037487</td>
<td>4</td>
<td>Scraper, link, LH</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* 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

<table>
<thead>
<tr>
<th>Diameter (Inches)</th>
<th>Wrench Size</th>
<th>MARKING ON HEAD</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>SAE 2 (lbs-ft  N-m)</td>
</tr>
<tr>
<td>1/4&quot;</td>
<td>7/16&quot;</td>
<td>6/8</td>
</tr>
<tr>
<td>5/16&quot;</td>
<td>1/2&quot;</td>
<td>12/17</td>
</tr>
<tr>
<td>3/8&quot;</td>
<td>9/16&quot;</td>
<td>23/31</td>
</tr>
<tr>
<td>7/16&quot;</td>
<td>5/8&quot;</td>
<td>36/48</td>
</tr>
<tr>
<td>1/2&quot;</td>
<td>3/4&quot;</td>
<td>55/75</td>
</tr>
<tr>
<td>9/16&quot;</td>
<td>13/16&quot;</td>
<td>78/106</td>
</tr>
<tr>
<td>5/8&quot;</td>
<td>15/16&quot;</td>
<td>110/149</td>
</tr>
<tr>
<td>3/4&quot;</td>
<td>1-1/8&quot;</td>
<td>192/261</td>
</tr>
<tr>
<td>7/8&quot;</td>
<td>1-5/16&quot;</td>
<td>306/416</td>
</tr>
<tr>
<td>1&quot;</td>
<td>1-1/2&quot;</td>
<td>467/634</td>
</tr>
</tbody>
</table>

### METRIC SERIES TORQUE CHART

<table>
<thead>
<tr>
<th>Diameter &amp; Thread Pitch (Millimeters)</th>
<th>Wrench Size</th>
<th>MARKING THREAD</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>COARSE THREAD</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MARKING ON HEAD</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Metric 8.8 (N-m) lbs-ft</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Metric 8.8 (N-m) lbs-ft</td>
</tr>
<tr>
<td>6 x 1.0</td>
<td>10 mm</td>
<td>8/6</td>
</tr>
<tr>
<td>8 x 1.25</td>
<td>13 mm</td>
<td>20/15</td>
</tr>
<tr>
<td>10 x 1.5</td>
<td>16 mm</td>
<td>39/29</td>
</tr>
<tr>
<td>12 x 1.75</td>
<td>18 mm</td>
<td>68/50</td>
</tr>
<tr>
<td>14 x 2.0</td>
<td>21 mm</td>
<td>109/80</td>
</tr>
<tr>
<td>16 x 2.0</td>
<td>24 mm</td>
<td>169/125</td>
</tr>
<tr>
<td>18 x 2.5</td>
<td>27 mm</td>
<td>234/172</td>
</tr>
<tr>
<td>20 x 2.5</td>
<td>30 mm</td>
<td>330/244</td>
</tr>
<tr>
<td>22 x 2.5</td>
<td>34 mm</td>
<td>451/332</td>
</tr>
<tr>
<td>24 x 3.0</td>
<td>36 mm</td>
<td>571/421</td>
</tr>
<tr>
<td>30 x 3.0</td>
<td>46 mm</td>
<td>1175/867</td>
</tr>
</tbody>
</table>

### Typical Washer Installations

- Bolt
- Lock Washer
- Flat Washer

18 Appendix
# BOLT SIZE CHART

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

<table>
<thead>
<tr>
<th>SAE Bolt Thread Sizes</th>
<th>5/16</th>
<th>3/8</th>
<th>1/2</th>
<th>5/8</th>
<th>3/4</th>
<th>7/8</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>IN</strong></td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
</tr>
<tr>
<td><strong>MM</strong></td>
<td>25</td>
<td>50</td>
<td>75</td>
<td>100</td>
<td>125</td>
<td>150</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Metric Bolt Thread Sizes</strong></th>
<th>8MM</th>
<th>10MM</th>
<th>12MM</th>
<th>14MM</th>
<th>16MM</th>
<th>18MM</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>IN</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>MM</strong></td>
<td>25</td>
<td>50</td>
<td>75</td>
<td>100</td>
<td>125</td>
<td>150</td>
</tr>
</tbody>
</table>

**ABBREVIATIONS**

- AG: Agriculture
- ASABE: American Society of Agricultural & Biological Engineers (formerly ASAE)
- ASAE: American 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: Full Thread
- GA: Gauge
- GR (5, etc.): Grade (5, etc.)
- HHCS: Hex Head Cap Screw
- HT: Heat-Treated
- JIC: Joint Industry Council 37° Degree Flare
- LH: Left Hand
- LT: Left
- m: Meter
- mm: Millimeter
- M: Male
- 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
(Replacement Parts For All Models Except Mow’n Machine™
Zero-Turn Mowers)

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

Woods Equipment Company (“WOODS”) warrants this product to be free from defect in material and workmanship. Except as otherwise set forth below, the duration of this Warranty shall be for TWELVE (12) MONTHS COMMENCING ON THE DATE OF DELIVERY OF THE PRODUCT TO THE ORIGINAL PURCHASER.

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:

<table>
<thead>
<tr>
<th>Part or Condition Warranted</th>
<th>Model Number</th>
<th>Duration (from date of delivery to the original purchaser)</th>
</tr>
</thead>
<tbody>
<tr>
<td>All units invoiced after 4/30/2012</td>
<td>BW1260, BW1620, BW1800, BW1260X, BW1800X, BW2400</td>
<td></td>
</tr>
<tr>
<td>Gearbox components</td>
<td>BW240HD, BW180HD, BW180HB, BW126HB, BW126XHD, BW180XHD</td>
<td>6 years</td>
</tr>
<tr>
<td></td>
<td>RDC54, RD60, RD72, TB150C, TS/R60, TS/R52, TS/R44, HC48, HC54, HC60, HC72</td>
<td>3 years (1 year if used in rental or commercial applications)</td>
</tr>
<tr>
<td>Blade spindles</td>
<td>RD9900X, PRD6000, PRD7200, PRD8400, TB144, TB180, TB204</td>
<td>3 years</td>
</tr>
</tbody>
</table>

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.

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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 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, Illinois 61061 USA
800-319-6637 tel
800-399-6637 fax
www.WoodsEquipment.com