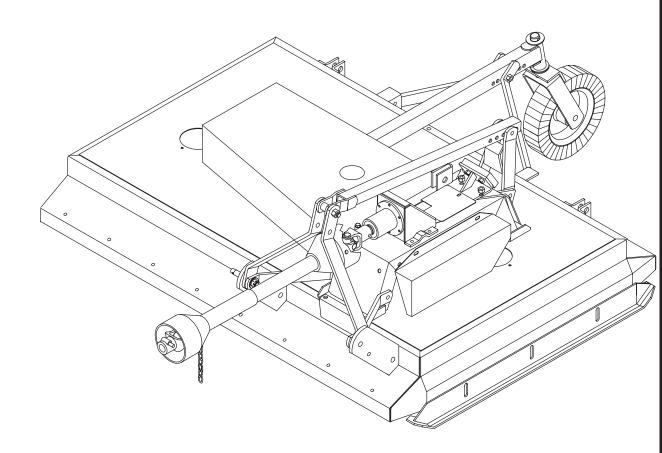
WOODS ROTARY CUTTER D080-2 MD080-2







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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 Product Registration included with the Operator's Manual. The customer must sign the registration which certifies that all Dealer Check List items have been completed. The dealer is to return the prepaid postage portion to Woods, give one copy to the customer, and retain one copy. **Failure to complete and return this card 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 **IMPORTANT** 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 Safety-Alert Symbol indicates a hazard and means ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!



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

Indicates a potentially hazardous situation that, if not avoided, could result in death or serious injury, and includes hazards that are exposed when guards are removed.



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



Indicates that failure to observe can cause damage to equipment.

Indicates helpful information.

NOTE

BMP® CENTRAL FABRICATORS® GANNON® GILL® WAIN-ROY® WOODS®



2 Introduction

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Gen'l (Rev. 2/5/2007)

ALITEC [™]

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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.

15916 (Rev. 3/30/2007)

Introduction **3**

SPECIFICATIONS

	<u>D080-2 (Towed)</u>	MD080-2 (Mounted)
Cutting Width	80"	80"
Cutting Height	2" - 14"	2" (Limited by tractor lift)
Overall Width	83"	83"
Offset to Right of Hitch	63"	63"
Overall Length	127"	95"
Cutter Blade Spindles	2	2
Blade Tip Speed (feet per minute)	14,400	14,400
V-Belts	4	4
Framework Channel	5/16"	5/16"
Spindle Shafts	1-3/8"	1-3/8"
Gearbox	60 HP	60 HP

TRACTOR REQUIREMENTS

	<u>DO80-2 (Towed)</u>	MDO80-2 (Mounted)
Tractor PTO RPM	540	540
3-Point Hitch	N/A	Category 1 (Category 2 Optional)

GENERAL INFORMATION

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

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

■ Some illustrations in this manual show the equipment with safety shields removed to provide a better view. The equipment should never be operated with any safety shielding removed.



BE SAFE! BE ALERT! BE ALIVE! BE TRAINED Before Operating Mowers!



MANUFACTURERS

Safety Training Does Make a Difference.

Free Mower Safety Video

Fill out and return the order form and we will send you a FREE VHS or DVD video outlining *Industrial and Agricultural Mower Safety Practices*. The 22 minute video, developed in cooperation with AEM (Association of Equipment Manufacturers), reinforces the proper procedures to follow while operating your mowing equipment. The video does not replace the information contained in the Operator's Manual, so please review this manual thoroughly before operating your new mowing equipment.

Safety Video Order Form (8/2/2005)

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Safety 5

Also, available from the Association of Equipment Manufacturers:

A large variety of training materials (ideal for groups) are available for a nominal charge from AEM. Following is a partial list:

Training Package for Rotary Mowers/Cutters-English
 Contains: DVD & VHS (English)
 Guidebook for Rotary Mowers/Cutters (English)
 AEM Industrial/Agricultural Mower Safety Manual (English)
 AEM Agricultural Tractor Safety Manual (English)

• Training Package for Rotary Mowers/Cutters-English/Spanish

Contains: DVD & VHS (English/Spanish)

Guidebook for Rotary Mowers/Cutters (English/Spanish) AEM Industrial/Agricultural Mower Safety Manual (English/Spanish) AEM Agricultural Tractor Safety Manual (English/Spanish)

AEM training packages are available through:

AEM at: www.aem.org or Hubbard Publishing 800-369-2310 tel 608-846-3398 fax



Free Mower/Cutter Safety Video Order Form

	Please send me	 ✔ (Select one) ♥ VHS Format - ♥ VHS01052 Safety Video ■ ♥ DVD Format - ♥ VD01052 Safety Video
Name:		Phone:
Address:		
Mower/Cut	tter Model:	Serial #:
Send to:	ATTENTION: DEALER S WOODS EQUIPMENT O PO BOX 1000 OREGON IL 61061-1000	OMPANY

6 Safety

Safety Video Order Form (Rev. 2/6/2006)



ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!



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

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

It has been said "The best safety device is an informed, careful operator." We ask you to be that kind of operator.

TRAINING

■ Safety instructions are important! Read all attachment and power unit manuals; follow all safety rules and safety decal information. (Replacement manuals and safety decals are available from your dealer. To locate your nearest dealer, check the Dealer Locator at www.WoodsEquipment.com, or in the United States and Canada call 1-800-319-6637.) Failure to follow instructions or safety rules can result in serious injury or death.

■ If you do not understand any part of this manual and need assistance, see your dealer.

■ Know your controls and how to stop engine and attachment quickly in an emergency.

• Operators must be instructed in and be capable of the safe operation of the equipment, its attachments, and all controls. Do not allow anyone to operate this equipment without proper instructions.

■ 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. CON-TACT 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.

■ Always wear relatively tight and belted clothing to avoid entanglement in moving parts. Wear sturdy, rough-soled work shoes and protective equipment for eyes, hair, hands, hearing, and head; and respirator or filter mask where appropriate.

■ Make sure attachment is properly secured, adjusted, and in good operating condition.

■ Make sure spring-activated locking pin or collar slides freely and is seated firmly in tractor PTO spline groove.

■ Make sure driveline guard tether chains are attached to the tractor and equipment as shown in the pamphlet that accompanies the driveline. Replace if damaged or broken. Check that driveline guards rotate freely on driveline before putting equipment into service.

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

■ Remove accumulated debris from this equipment, power unit, and engine to avoid fire hazard.

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

■ Make sure shields and guards are properly installed and in good condition. Replace if damaged.

■ A minimum 20% of tractor and equipment weight must be on the tractor front wheels when attachments are in transport position. Without this weight, tractor could tip over, causing personal injury or death. The weight may be attained with a loader, front wheel weights, ballast in tires or front tractor weights. Weigh the tractor and equipment. Do not estimate.

■ Inspect and clear area of stones, branches, or other hard objects that might be thrown, causing injury or damage.

(Safety Rules continued on next page)

Safety 7

D80 Safety Rules (Rev. 3/23/2007)

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

(Safety Rules continued from previous page)

■ 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.

OPERATION

- Keep bystanders away from equipment.
- Operate only in daylight or good artificial light.

■ Never direct discharge toward people, animals, or property.

■ Full chain shielding, designed to reduce the possibility of thrown objects, must be installed when operating in populated areas or other areas where thrown objects could injure people or damage property. If this machine is not equipped with full chain shielding, operation must be stopped when anyone comes within 300 feet.

■ Do not operate or transport equipment while under the influence of alcohol or drugs.

■ Keep hands, feet, hair, and clothing away from equipment while engine is running. Stay clear of all moving parts.

Always comply with all state and local lighting and marking requirements.

■ 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 systems 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.

■ Operate tractor PTO at 540 RPM. Do not exceed.

■ Look down and to the rear and make sure area is clear before operating in reverse.

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.

TRANSPORTATION

■ 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.

■ The maximum transport speed for towed and semi-mounted machines is 20 mph (32 km/h). Regardless of the maximum speed capability of the towing tractor, do not exceed the implement's maximum transport speed. Doing so could result in:

- · Loss of control of the implement and tractor
- Reduced or no ability to stop during braking
- Implement tire failure
- Damage to the implement or its components.

■ Always comply with all state and local lighting and marking requirements.

- Never allow riders on power unit or attachment.
- Do not operate PTO during transport.
- Do not operate or transport on steep slopes.

■ Do not operate or transport equipment while under the influence of alcohol or drugs.

• Never tow this implement with a motor vehicle.

MAINTENANCE

■ Before performing any service or maintenance, lower equipment to ground or block securely, turn off engine, remove key, and disconnect driveline from tractor PTO.

■ Do not modify or alter or permit anyone else to modify or alter the equipment or any of its components in any way.

■ 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.

■ 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

SAFETY RULES

ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!



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. Follow Operator's Manual instructions for working underneath and blocking requirements or have work done by a qualified dealer.

■ Make sure attachment is properly secured, adjusted, and in good operating condition.

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

■ Make certain all movement of equipment components has stopped before approaching for service.

■ Frequently check blades. They should be sharp, free of nicks and cracks, and securely fastened.

■ Your dealer can supply genuine replacement blades. Substitute blades may not meet original equipment specifications and may be dangerous.

■ Make sure shields and guards are properly installed and in good condition. Replace if damaged.

■ 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.)

■ Do not handle blades with bare hands. Careless or improper handling may result in serious injury.

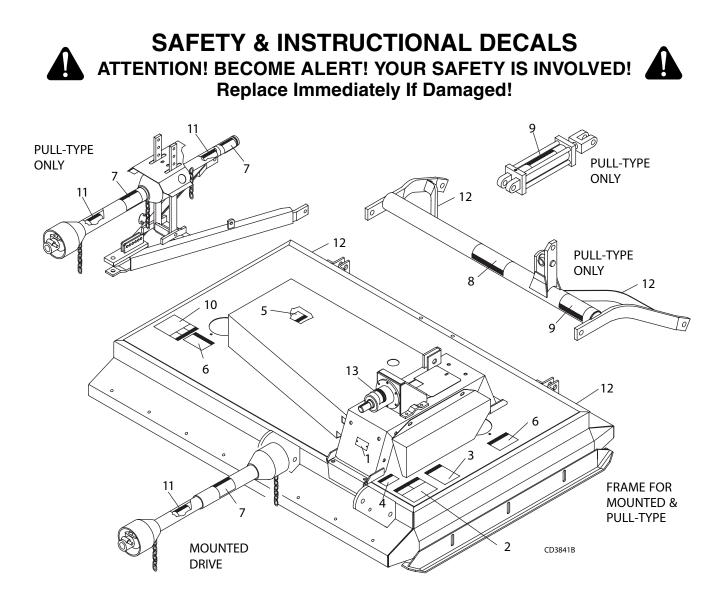
■ Explosive separation of tire and rim parts can cause serious injury or death. Release all air pressure before loosening bolts.

STORAGE

■ Raise cutter and block securely. Block wheels and raise tongue with jack. Disconnect hydraulic lines to optional cylinder. Disconnect driveline and secure up off the ground.

■ Keep children and bystanders away from storage area.

- Store on level, solid ground.
- Follow manual instructions for storage.



1 - SERIAL NUMBER PLATE





10 SAFETY

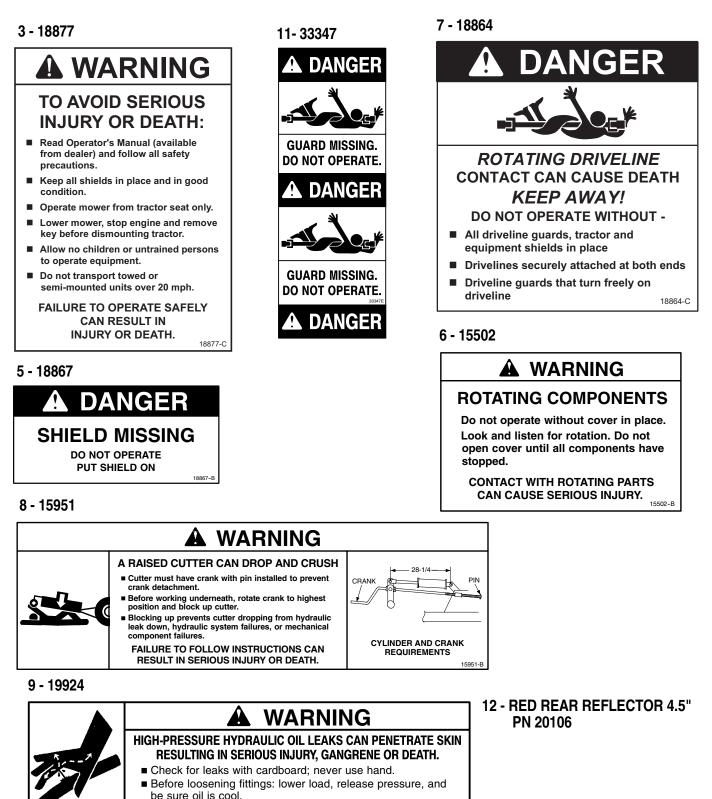
2 - 18865



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



SAFETY 11



Consult physician immediately if skin penetration occurs.

15916 (Rev. 3/30/2007)

19924-B

SAFETY & INSTRUCTIONAL DECALS

ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!

Replace Immediately If Damaged!





- Before mowing, clear area of objects that may be thrown by blade.
- Keep bystanders away.
- Keep guards in place and in good condition.

BLADE CONTACT OR THROWN OBJECTS CAN CAUSE SERIOUS INJURY OR DEATH.

15503-C

PN 1006348

A WARNING	EXPLOSION HAZARD
RELEASE ALL AIR PRESSURE BEFORE LOOSENING BOLT FAILURE TO DO SO COULD RESULT IN SERIOUS INJURY. MAX. SPEED: 20 MPH, MAX. WEIGHT: 4000 LBS., MAX AIR PRESSURE: 40 F	

13 - 18869



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.



OPERATION

The designed and tested safety of this machine depends on it being operated within the limitations as explained in this manual. Be familiar with and follow all safety rules in the manual, on the cutter and on the tractor.

The safe operation of this cutter is the responsibility of the operator, who must be properly trained. The operator should be familiar with the equipment and all safety practices before starting operation. Read the Safety Rules on page 7 through page 12.

Information specific to attaching or operating the mounted or towed unit will be identified in the text. Information applicable to either unit will not be segregated.

This cutter is designed for shredding heavy brush, such as prunings in orchards, groves and vineyards. Other applications include topping onion sets and potatoes before harvesting. It may also be used to shred green manure crops, straw and stubble, asparagus residue etc. prior to plowing. Recommended tractor ground speed for most mowing conditions is from 1 to 5 mph. Always operate tractor PTO at 540 rpm.

■ Full chain shielding, designed to reduce the possibility of thrown objects, must be installed when operating in populated areas or other areas where thrown objects could injure people or damage property. If this machine is not equipped with full chain shielding, operation must be stopped when anyone comes within 300 feet.

■ Never allow children or untrained persons to operate equipment.

■ Keep bystanders away from equipment.

■ Before performing any service or maintenance, lower equipment to ground or block securely, turn off engine, remove key, and disconnect driveline from tractor PTO.

■ On pull-type units, a pin is installed to prevent the height adjustment crank from detaching. Do not operate or service unit unless pin is installed.

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

■ Make sure spring-activated locking pin or collar slides freely and is seated firmly in tractor PTO spline groove.

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

TRACTOR STABILITY



■ A minimum 20% of tractor and equipment weight must be on the tractor front wheels when attachments are in transport position. Without this weight, tractor could tip over, causing personal injury or death. The weight may be attained with a loader, front wheel weights, ballast in tires or front tractor weights. Weigh the tractor and equipment. Do not estimate.

ATTACHING CUTTER TO TRACTOR (3-POINT MODELS)



Make sure spring-activated locking pin or collar slides freely and is seated firmly in tractor PTO spline groove.

MD80 Mounting

Standard Category 1 mounting pins are used when attaching cutter to tractor. Also available for mounting are optional Category 2 pins and a bushing kit.

Check to be sure mounting pins are properly torqued -Category 1: 300 lbs-ft.; Category 2: 450 lbs-ft.

Install tractor lower lift arms over the cutter mounting pins. Attach tractor top link in top hole of cutter Aframe. Use bushing over top link clevis pin when mounting on a Category 2 tractor.

Driveline Attachment

Attach the cutter to the tractor 3-point hitch (or quick hitch if available). Do not attach driveline. Raise and lower cutter to determine maximum and minimum distance between the tractor PTO shaft and the gearbox input shaft. If the distance is too large, the driveline will be too short for proper engagement. If distance is too small, the driveline may bottom out in operation and damage the cutter or tractor.

Driveline length must be sufficient to provide at least 1/3 driveline length of engagement during operation. There must be at least 4 inches of engagement at the cutters lowest possible point of operation. The drive-line must not bottom out when raised to the maximum height possible.

If driveline is too short please call your Woods dealer for a longer driveline.

If driveline is too long please follow the instructions for shortening the driveline.

Shorten Driveline

- **1.** Move cutter up and down to get the shortest possible distance between tractor PTO shaft and gearbox input shaft.
- **2.** Separate driveline into two halves and connect them to the tractor PTO and gearbox.
- **3.** Place driveline halves parallel to one another to determine how much to shorten the driveline.

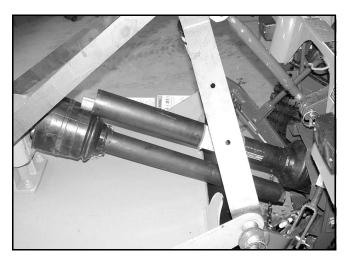


Figure 1. Drive Halves Placed Parallel

 Measure from end of the upper shield to the base of the bell on the lower shield (A). Add 1-9/16" to dimension (A). See Figure 2.

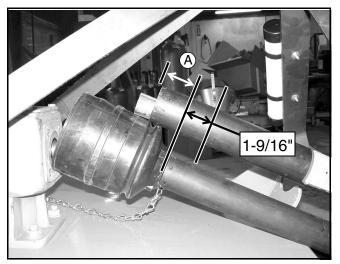


Figure 2. Determine Shield Length

5. Cut the shield to the overall dimension.

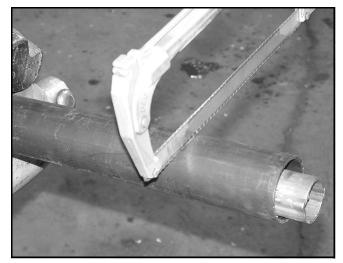


Figure 3. Cut Shield

6. Place the cutoff portion of the shield against the end of the shaft and use as a guide. Mark and cut the shaft.



Figure 4. Cut Shaft to Length

14 Operation

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- 7. Repeat step 6 for the other half of the drive.
- 8. File and clean cut ends of both drive halves.

Do not use tractor if proper driveline engagement cannot be obtained through these methods.

Connect driveline to tractor PTO shaft, making sure the spring-activated locking collar slides freely and locks driveline to PTO shaft.

NOTICE

■ If attaching with quick hitch the distance between the tractor PTO and gearbox input shaft will increase. Please follow the steps as you would for a 3-point hitch to insure proper engagement.

Cutting Height Adjustment for MD80 Mounted Cutter (Figure 5)

Place tractor and cutter on a level surface.

The adjustments given here are to provide you with a starting point. Adjustments are approximate and may vary due to slight differences in blade shimming and machine wear. You may desire to fine tune them for your situation.



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

■ Avoid very low cutting heights. Striking the ground with blades produces one of the most damaging shock loads a cutter can encounter. Allowing blades to contact ground repeatedly, will cause damage to cutter and drive.

Cutting height may be controlled by several methods. Without the optional check chains and tailwheel it is controlled with the tractor 3-point lift and top link adjustment.

Measure from front edge of cutter frame (on each side) to ground to be sure cutter is level. Use adjustment on 3-point arms, if necessary, for fine adjustment side to side.

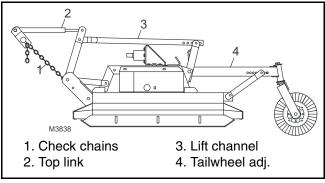


Figure 5. Cutting Height Adjustment - MD80 (Mounted Model)

When using optional check chains, install them in keyhole brackets. Count the links between the cutter and brackets to be sure you have the same number of links on each side. You may twist check chain for fine adjustment side to side.

Cutting Height Adjustment Without Tailwheel or Check Chains

The blade is approximately 9-1/4" below the top of the cutter deck.

Select a cutting height, EXAMPLE 3".

Use tractor 3-point lift to set front blade 3" above level surface (measure 12-1/4" from top of deck to ground). At the rear, measure from top of deck to ground; adjust top link until this distance is from 12-3/4" to 13". Adjust lower stop of the tractor 3-point lift control. When adjustment is set, this will enable you to return to the preset cutting height.

Maintain distance from blade tip to level surface from 1/2" to 3/4" higher at rear for best cutting results and lowest power consumption.

When using cutter for shredding, it is better to set blade tip lower at the rear. How much lower depends on the material to be shredded. You will need to experiment to determine the best setting for your situation.

Cutting Height Adjustment With Tailwheel or Check Chains

The blade is approximately 9-1/4" below the top of the cutter deck.

Select a cutting height, EXAMPLE 3".

Use check chains and tractor 3-point lift and raise top front of cutter deck 12-1/4" above the level surface. At the rear, measure from top of deck to ground; adjust tailwheel until this distance is from 12-3/4" to 13".

Shorten the check chains to raise front of cutter. Move tailwheel adjustment to the rear to raise rear of cutter.

ATTACHING CUTTER TO TRACTOR (PULL-TYPE MODELS)

The cutter is shipped with a 1-3/8" PTO spline. The horizontal distance between the end of the tractor PTO shaft and the drawbar hitch point should be 14". This distance must not vary more than plus or minus one inch (\pm 1") or the drive may be damaged when turning. Adjust tractor drawbar to obtain the desired drawbar to hitch point distance. On some tractors, a drawbar kit must be used to obtain the required dimension. Check with your tractor dealer if you encounter problems.

Raise cutter tongue to tractor drawbar height with jack provided and attach with a 3/4" or larger high-strength drawbar pin. Retain pin to keep it in place.

Connect cutter driveline to tractor PTO shaft, making sure the spring-activated locking pin slides freely and is seated firmly in tractor PTO spline groove.

Adjust H-frame bearing height to ensure front driveline is parallel to ground.

Remove parking jack from tongue. Attach to frame rail storage with top forward. Always attach jack to tongue to hold it up when disconnecting it from tractor.

Adjust drive shaft carrier bearing (2), Figure 6, vertically in H-frame until driveline is as straight as possible between tractor PTO and cutter gearbox.

Cutting Height Adjustment for D80 Pull-Type Cutter (Figure 6)

Place tractor and cutter on a level surface.

Cutting height is raised and lowered with height adjustment crank (3) or optional hydraulic cylinder. Front to rear attitude is set with the compression link (1). The blade is approximately 9-1/4" below cutter deck. Select a cutting height, EXAMPLE 3".

Raise front end of deck with a jack to take the compression member (1) out of compression and remove the bolt connecting it to the tongue.

Raise front end of deck until both sides are 12-1/4" above the ground and block underneath to maintain this distance.

Raise rear end of deck until it is from 13-3/4" to 14" above the ground.

Connect compression member (1) to tongue. It may be necessary to raise or lower rear of deck to align hole.

Remove the blocks from under the deck and position each side skid 1/2" above the ground.

This complete procedure must be followed to properly set a new cutting height. Raising rear of deck with crank without changing the compression link position will result in an incorrect front-to-rear attitude setting.

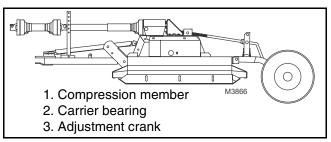


Figure 6. Cutting Height Adjustment - D80 (Pull-Type Model)

PRE-OPERATION CHECK LIST

(Owner's Responsibility)

- Check that cutter is properly and securely attached to tractor.
- Make sure driveline spring-activated locking pin slides freely and is seated firmly in tractor PTO spline groove.
- On pull-type cutter, make sure the pin to prevent crank detachment is installed.
- ____ Set tractor PTO at 540 rpm.
- ____ Make sure gearbox is full to fill plug with SAE 90W gear lube.
- Lubricate all grease fitting locations.
- Check that all hardware is properly installed and secured.
- ____ Check to ensure blades are sharp and secure and cutting edge is positioned to lead in a counter-clockwise rotation.
- ____ Check that all shields and guards are properly installed and in good condition.
- ____ Check cutting height and attitude adjustment.
- Place tractor PTO and transmission in neutral before attempting to start engine.
- Inspect area to be cut and remove stones, branches or other hard objects that might be thrown, causing injury or damage.
- Inspect chain shielding and replace any damaged or missing links.

STARTING AND STOPPING CUTTER

Cutter operating power is supplied from tractor PTO. Refer to your tractor manual for PTO engagement and disengagement instructions. Always operate PTO at 540 rpm. Know how to stop tractor and cutter quickly in case of an emergency.

When engaging PTO, the engine rpm should always be low. Once engaged and ready to start cutting, raise PTO speed to 540 rpm and maintain throughout cutting operation.

16 Operation

OPERATING TECHNIQUE

Proper ground speed will depend upon the height, type and density of material to be cut.

Normally, ground speed will range from 2 to 5 mph. Tall dense material should be cut at a low speed, while thin medium-height material can be cut at a higher ground speed. Always operate PTO at 540 rpm; this is necessary to maintain proper blade speed and produce a clean cut.

Under certain conditions, tractor tires may roll some material down and prevent it from being cut at the same height as the surrounding area. When this occurs, reduce tractor ground speed but maintain 540 rpm PTO speed. The lower speed will permit material to at least partially rebound.

Under some conditions, material will not rebound enough to be cut evenly, resulting in an uneven appearance. In general, lower cutting heights give a more even cut with less tendency to leave tire tracks.

The cutter is equipped with general purpose suction blades as standard equipment. These blades are intended for most conditions. Optional flat blades for light brush cutting and optional high fin blades for stalk shredding are available from your dealer.

Tips

Extremely tall material should be cut twice. Cut material higher the first pass. Then cut at desired height, at 90° to first pass. Remember, sharp blades produce cleaner cuts and require less power.

Analyze area to be cut to determine best procedure. Consider height and type of material and terrain type: hilly, level or rough. Plan your pattern to travel straight forward whenever possible.



■ Inspect and clear area of stones, branches, or other hard objects that might be thrown, causing injury or damage.

Uneven Terrain

- 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.

Pass diagonally through sharp dips and avoid sharp drops to prevent hanging up tractor and cutter.

Practice will improve your skills in maneuvering rough terrain.

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 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.

STORAGE

Follow these steps when storing your cutter:

- 1. Store on level, solid ground.
- 2. Disconnect driveline and secure up off the ground.
- **3.** On pull-type model, attach parking jack and raise tongue weight off tractor drawbar.
- **4.** Securely block all four corners of deck with jack stands.
- **5.** Remove hydraulic hoses after tractor is turned off and all system pressure is released by operating valve levers several times.
- 6. Remove retainer pin and high strength drawbar pin.
- 7. Keep children and bystanders away from storage area.

OWNERS SERVICE

■ On pull-type units, a pin is installed to prevent the height adjustment crank from detaching. Do not operate or service unit unless pin is installed.

■ Before performing any service or maintenance, lower equipment to ground or block securely, turn off engine, remove key, and disconnect driveline from tractor PTO.

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

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

LUBRICATION INFORMATION (FIGURE 7)

The accompanying chart gives the frequency of lubrication in operating hours, based on normal conditions. Severe or unusual conditions may require more frequent lubrication.

Do not let excess grease collect on or around parts, particularly when operating in sandy areas.

Use an SAE 90W gear lube in gearbox.

Use a lithium grease of No. 2 consistency with a MOLY (molybdenum disulfide) additive for all locations. Be

sure to clean fittings thoroughly before attaching grease gun. When applied according to the lubrication chart, one good pump of most guns is sufficient. Do not overgrease.

Daily lubrication of the PTO slip joint is necessary. Failure to maintain proper lubrication can result in damage to U-joints, gearbox, tractor PTO and/or cutter driveline.

Ref

Rei		
No	Description	Frequency
1	Tailwheel Hub (Towed Model)	10 hrs
2	Tailwheel Pivot Arm	8 hrs
3	Tailwheel (Mounted Model)	8 hrs
4	Blade Spindle - Access through hole in end of belt shield (right); Remove left belt shield (left)	10 hrs
5	Belt Idler - Access through hole in top of belt shield (right); Remove left belt shield (left)	50 hrs
6	Gearbox: Fill with EP90 gear lube	Check Daily
7	Rear U-Joint	8 hrs
8	Slip Joint (Mounted Model) - Apply grease to all four sides of shaft	8 hrs
9	Front U-Joint	8 hrs
10	Center U-Joint (Towed Model)	10 hrs
11	Driveline Carrier Bearing (Towed Model)	10 hrs
12	Slip Joint (Towed Model) - Apply grease to all four sides of shaft	10 hrs
13	Height Adjustment Pivot Block	Occasionally
14	Height Adjustment Crank	Occasionally

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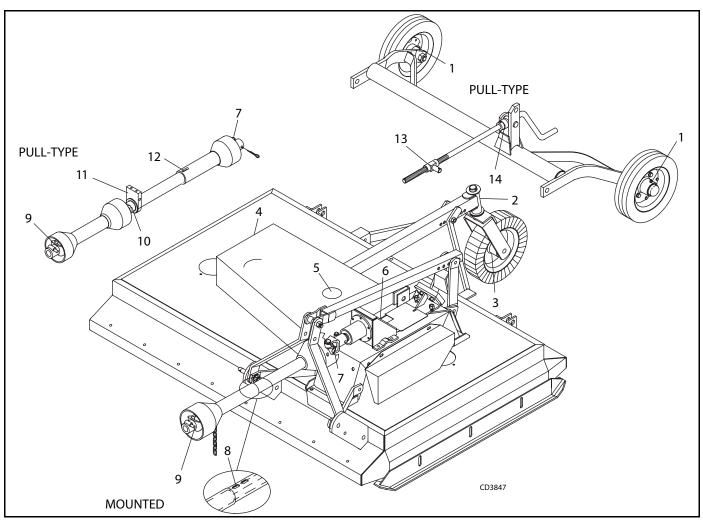


Figure 7. Lubrication Points

BLADE SERVICING (FIGURE 8)



■ On pull-type units, a pin is installed to prevent the height adjustment crank from detaching. Do not operate or service unit unless pin is installed.

Blocking the cutter before working underneath provides additional safety. If a mechanical or hydraulic failure occurs, the blocks will support the cutter and prevent anyone under it from being crushed.

Inspect blades, each time before operating cutter, for condition and proper installation. Check to be sure blades are snug but still swivel on blade pin (see Blade Installation, page 20). Replace any blade that is bent, excessively nicked, worn or has any other damage. Small nicks can be ground out when sharpening.

Blade Removal (Figure 8)

Rotate crossbar until blade pin assembly is directly below access hole in rear of cutter frame. Remove bolt (1) and blade pin lock clip (2). Slide keyhole plate (3) out of blade pin groove and remove. Remove spacers and drive pin out of crossbar.

NOTICE

■ If blade pin is seized in crossbar and extreme force will be required to remove it, support crossbar from below to prevent damage to spindle.



■ Your dealer can supply genuine replacement blades. Substitute blades may not meet original equipment specifications and may be dangerous.

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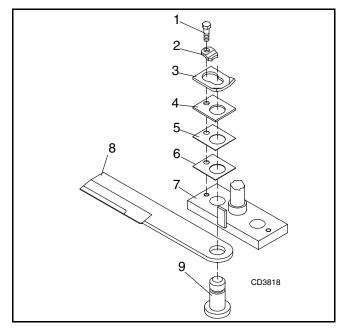


Figure 8. Blade Removal & Installation

Blade Installation

Always replace both blades at the same time to maintain balance.

Liberally coat blade pin and crossbar hole with Never-Seez® or equivalent. Make sure blade is offset away from deck and cutting edge is positioned for counter-clockwise rotation.

Install blade pin (9) up through blade (8) then through hole in crossbar and push firmly against crossbar (7). Install as many spacers (4, 5 or 6) as possible and still be able to slide keyhole plate (3), with ears up as shown, into blade pin groove. Place blade pin clip (2) over keyhole plate and into blade pin groove. Secure with bolt (1). Repeat for opposite blade.

Blade should be snug but swivel on pin without excessive force. Retain any spacers not used in installation for use when blade wears or on future installations.

Blade Sharpening

Always sharpen both blades at the same time to maintain balance. Follow original sharpening pattern. Do not sharpen blade to a razor edge. Leave from a 1/16" to 1/8" blunt edge. Do not sharpen back side of blade.

Belt Installation (Figure 9)

One of the major causes of belt failure is improper installation.

Before new belts are installed, check pulley shafts and bearings for wear. Check pulley grooves for cleanliness

and wear. Be sure they turn freely and with only slight wobble. If grooves require cleaning, moisten a cloth with a non-flammable, non-toxic degreasing agent or commercial detergent and water.

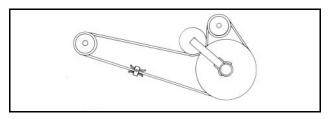


Figure 9. Belt Routing

Avoid excessive force during installation. Do not use tools to pry belt into pulley groove. Do not roll belt over pulleys to install. This can cause hidden damage and premature belt failure. Always loosen idlers when installing belts.

The drive on this cutter uses three belts. They are a matched set and must be replaced as such.

Remove belt shields.

Loosen nut on idler adjustment rod (located on right side of gearbox stand) as loose as possible.

Remove old belts and install new ones. Tighten nut on idler adjustment rod. Belts should be very tight.

NOTICE

■ Check tension on new belts every half hour the first four hours of operation and then every eight hours.

CHAIN SHIELDING

■ Full chain shielding, designed to reduce the possibility of thrown objects, must be installed when operating in populated areas or other areas where thrown objects could injure people or damage property. If this machine is not equipped with full chain shielding, operation must be stopped when anyone comes within 300 feet.

■ Inspect chain, rubber, or steel band shielding before each use. Replace if damaged.



SERVICING TIRES SAFELY

Used Aircraft Tires (Figure 10)

WARNING



■ Explosive separation of tire and rim parts can cause serious injury or death. Release all air pressure before loosening bolts.

Do not attempt to mount a tire unless you have the proper equipment and experience to perform the job.

Always maintain the correct tire pressure. Do not inflate tires above the recommended pressure. Never weld or heat a wheel and tire assembly. The heat can cause an increase in air pressure and result in a tire explosion. Welding can structurally weaken or deform the wheel.

When inflating tires, use a clip-on chuck and an extension hose long enough to allow you to stand to the side — not in front of or over the tire assembly. Use a safety cage if available.

Check wheels for low pressure, cuts, bubbles, damaged rims, or missing lug bolts and nuts.

Never remove split rim assembly hardware (A) with the tire inflated.



Figure 10. Split Rim Tire Servicing



DEALER SERVICE

A WARNING

■ On pull-type units, a pin is installed to prevent the height adjustment crank from detaching. Do not operate or service unit unless pin is installed.

■ Before performing any service or maintenance, lower equipment to ground or block securely, turn off engine, remove key, and disconnect driveline from tractor PTO.

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

The information in this section is written for dealer service personnel. The repair described herein requires special skills and tools. If your shop is not properly equipped or your mechanics are not properly trained in this type of repair, you may be time and money ahead to replace complete assemblies.

GEARBOX MAINTENANCE

Before beginning any gearbox repair, please read this entire section. Many steps are dependent on each other.

Always make sure proper vent plug is installed in top of gearbox. Proper gear lube level for gearbox is half full. Never operate cutter unless gearbox is half full of SAE 90W gear lube.

Troubleshooting is an important part of gearbox maintenance. Check for leakage and bad bearings.

Bearing Check

Bearing maladjustment or failure is indicated by excessive noise and noticeable side or end play in gear shafts.

Possible Leakage Causes

Leakage may be caused by an improperly operating vent plug. The plug has a check valve in it; remove and apply very low pressure air to the bottom to check for proper venting.

Check housing for visible signs of leakage.

Check for leaks at vertical and horizontal seals and gaskets.

Take necessary corrective action and clean area where leakage was evident. Place cutter in service and check to ensure leakage has stopped.

Leakage Repair

Permatex Aviation 3D Form-A-Gasket® or equivalent is the recommended sealant for gearbox repair.

Leakage at the horizontal seal or gasket can be corrected without removing gearbox from cutter.

Remove fill plug and siphon gear lube from gearbox. Remove and replace leaking seal or gasket. Refer to Seal Installation section, page 23.

Removing Gearbox from Cutter

Remove nut from belt tension idler adjustment rod.

Remove belt shields. Remove belts.

The front gear stand bolts are tack welded in place. Loosen the nuts to protect bolt threads and break tack welds by rapping them with a hammer. Remove nuts and bolts.

Remove nuts from the rear gear stand bolts. Tip rear of gear stand up over bolts and slide the stand rearward.

Cut the safety wire and remove bolt from drive pulley under gearbox.

Disassemble split taper bushing (located on bottom of drive pulley) by removing the three bolts and inserting two of them into the threaded holes. Tighten alternately to press bushing off.

Remove the four gearbox attaching bolts from the gear stand and remove gearbox from stand.

Gearbox Disassembly

(Refer to illustration on page 45.)

Remove the horizontal and vertical gear shaft housings from gearbox housing. Remove seals. Remove tack weld, holding sleeve to shaft, by grinding. Press gear and shaft from housing. Remove cups from housing.

Damage Inspection

Inspect gears for excessive wear. Some wear is normal. Gears will show more wear on loaded side. They are forged and surfaces will appear rough, even when new. The wear pattern should be smooth.

Do not replace gears unless deep gouges, chips, deep pitting or deep wear grooves are present.

Inspect gear shafts and sleeves. Pay specific attention to areas where seals seat. Check for cracks, grooves,



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nicks or bumps. If damage cannot be repaired by resurfacing with emery cloth, replace damaged part.

Inspect housings for damage, paying specific attention where seals seat. Replace housing if damaged area cannot be resurfaced with emery cloth.

Gearbox Assembly

(Refer to illustration on page 45.)

Bearing cups, cones and sleeves are a press fit. Press new bearing cups into vertical and horizontal housings. Press bearing cones onto vertical and horizontal shafts until they seat against machined surface next to gears.

Insert shafts into their respective housings and press bearing cones onto shaft until all free play is removed (similar to adjusting front wheel bearings on an automobile).

Check adjustment by spinning housing. It should turn freely. If bearings are too tight, hold housing and rap gear shaft with lead or brass hammer. Readjust bearings. Proper bearing adjustment is essential to good bearing life. Do not leave bearings adjusted too tight. Bearings should turn freely without any noticeable end play.

Place O-ring seal over shaft and seat against bearing.

Press sleeve on shaft and down against bearing, but do not move bearing. Check bearing adjustment again by spinning housing. Readjust if necessary.

Protect surfaces where seal seats and tack weld sleeve to shaft.

Seal Installation

An improperly installed seal will leak and could result in gearbox failure. Clean area in housing where outer diameter of seal seats and apply a thin coat of Permatex.

Lubricate seal lip, position spring toward housing, and carefully guide over sleeve and shaft, using a blunt tool such as a letter opener. Use care to prevent seal lip from rolling under. Do not use a knife blade as it will nick and ruin seal.

Select a piece of pipe or tubing with an OD that will set on outside edge of seal cage but will clear housing. A driver that is too small will bow cage and ruin seal.

Carefully press seal into housing, preventing distortion to metal seal cage. Seat seal firmly against housing.

Gearbox Adjustment

Place a 1/32" thick gasket between the vertical and horizontal housing and gearbox housing. Horizontal housing must be positioned so breather hole is at top when gearbox is on cutter. Snug bolts and check gear mesh by shining a flashlight into the oil fill hole. The small ends of the teeth on both gears should be flush with each other and there should be some backlash.

If the gear teeth are not aligned, add gaskets under one of the gear housings until they do.

Use a feeler gauge to check for .020 backlash between the teeth. Adjust by adding or subtracting even numbers of gaskets of the same thickness from each housing and the gearbox.

When all of the bolts are tightened, check the backlash again to ensure it did not change. If it is changed, add or subtract gaskets as necessary to obtain .020 backlash between the teeth.

BLADE SPINDLE REPAIR (FIGURE 11)

Remove blades from crossbar and belts from pulley. Remove split taper bushing from pulley and remove pulley from spindle. Remove spindle from cutter. Remove set screw and flanged nut (1) from spindle. Block under washer (9) and housing and press blade carrier and spindle shaft out of housing.

Assembly

Press new cups (6) into spindle housing, seating them against housing bore shoulder. Place bottom end of spindle housing (18) up. Set bearing cone and sleeve (5) on cup.

Coat area of spindle housing where seal seats with Permatex. Press seal (4) (with spring-loaded lip toward the center) into housing, using care to prevent seal cage distortion.

Place washer (9) on spindle crossbar and shaft. Remove bearing cones from housing. Lubricate bottom seal, turn housing right side up and press down onto spindle shaft. Fill housing cavity with a lithium grease of #2 consistency with a MOLY (molybdenum disulfide) additive.

Place washer (7) over shaft and seat. Seat bearing cone and sleeve (5) on bearing cup. Adjust bearings by pressing on shaft until all free play is removed (similar to adjusting front wheel bearings on an automobile).

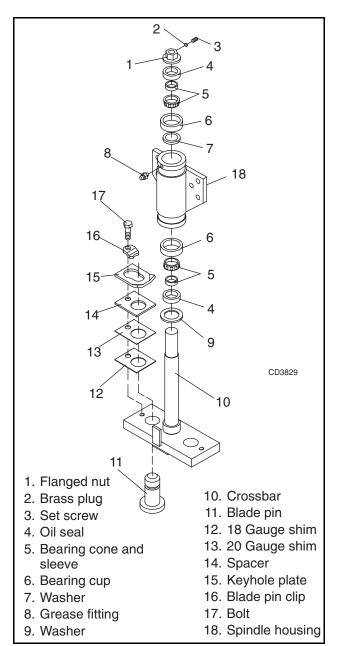
Check adjustment by spinning housing; it should turn freely. If bearings are too tight, hold housing and rap spindle shaft with a lead hammer. Readjust bearings. Proper bearing adjustment is essential to good bearing life. Do not leave bearing adjusted too tightly. Bearings should turn freely without any noticeable end play.

When the bearings are adjusted, coat area of spindle housing where seal seats with Permatex and press seal (4) (with spring-loaded lip up) into housing using care to prevent seal cage distortion.

When the bearings are adjusted, tighten nut against sleeve and bearing (5). Insert brass plug (2) into hole in nut then tighten set screw (3) against brass plug (2).

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Grease spindle through grease fitting (8) until a small amount of grease escapes seal. Install spindle on unit.





SHIELD BEARING SERVICE

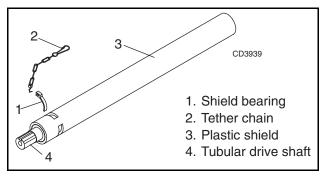


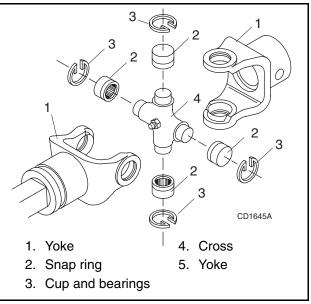
Figure 12. Shield Bearing Service

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Remove shield bearings (1) by lifting up and pulling them out of the driveline groove.

When installing them, smear grease in the driveline groove and install all four bearings into the groove clockwise as shown, Figure 12.

UNIVERSAL JOINT REPAIR





U-Joint Disassembly

1. Remove snap rings from inside of yokes in four locations as shown in Figure 14.

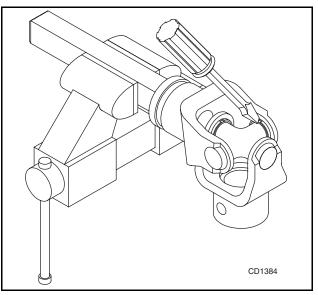


Figure 14

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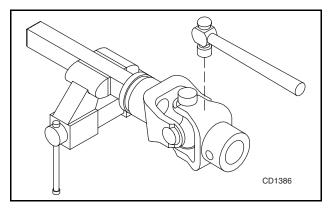


Figure 15

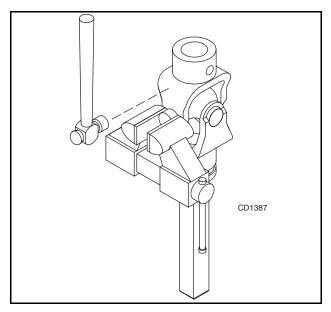


Figure 16

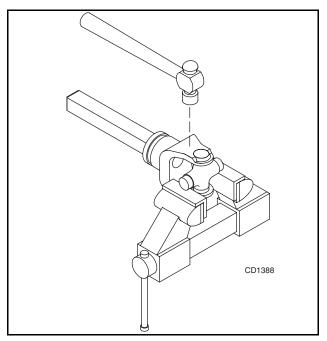


Figure 17

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- 2. With snap rings removed, support drive in vise, hold yoke in hand and tap on yoke to drive cup up out of yoke. See Figure 15.
- **3.** Clamp cup in vise as shown in Figure 16 and tap on yoke to completely remove cup from yoke. Repeat steps two and three for opposite cup.
- **4.** Place universal cross in vise as shown in Figure 17 and tap on yoke to remove cup. Repeat step three for final removal. Drive remaining cup out with a drift and hammer.

U-Joint Assembly

1. Place seals securely on bearing cups. Insert cup into yoke from outside and press in with hand pressure as far as possible. Insert journal cross into bearing cup with grease fitting away from shaft. Be careful not to disturb needle bearings. Insert another bearing cup directly across from first cup and press in as far as possible with hand pressure.

Trap cups in vise and apply pressure. Be sure journal cross is started into bearings and continue pressure with vise, squeezing in as far as possible. Tap yoke to aid in process.

- 2. Seat cups by placing a drift or socket (slightly smaller than the cup) on cup and rapping with a hammer. See Figure 18. Install snap ring and repeat on opposite cup.
- **3.** Repeat steps one and two to install remaining cups in remaining yoke.

Move both yokes in all directions to check for free movement. Should movement be restricted, rap on yokes sharply with a hammer to relieve any tension. Repeat until both yokes move in all directions without restriction.

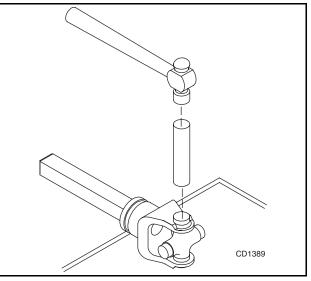


Figure 18



SERVICING TIRES SAFELY

Used Aircraft Tires (Figure 19)

A WARNING



■ Explosive separation of tire and rim parts can cause serious injury or death. Release all air pressure before loosening bolts.

Do not attempt to mount a tire unless you have the proper equipment and experience to perform the job.

Always maintain the correct tire pressure. Do not inflate tires above the recommended pressure. Never weld or heat a wheel and tire assembly. The heat can cause an increase in air pressure and result in a tire explosion. Welding can structurally weaken or deform the wheel.

When inflating tires, use a clip-on chuck and an extension hose long enough to allow you to stand to the side — not in front of or over the tire assembly. Use a safety cage if available.

Check wheels for low pressure, cuts, bubbles, damaged rims, or missing lug bolts and nuts. Never remove split rim assembly hardware (A) with the tire inflated.



Figure 19. Split Rim Tire Servicing

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TROUBLE SHOOTING

PROBLEM	POSSIBLE CAUSE	SOLUTION
Does not cut	Dull blades	Sharpen blades.
	Worn or broken blades	Replace blades. (Replace in pairs only.)
	Ground speed too fast	Reduce ground speed.
	Drive not functioning (blades do not turn when PTO is running	Check drive shaft connection. Check belts. Check gearbox.
	Belt off pulleys	Replace belts. Belts are supplied in matched sets only.
	Broken belt; belts not in groove	Replace belts. Check belts for uneven stretch.*
	Belts will not stay in groove	Check belt tension. Check belt alignment. Ensure idler bearings and spindle bearings are in good condition and turn freely. Make sure spindles are tight and sitting straight and secure. Shock loading could cause a worn belt to jump off grooves. Eliminate shock loading my raising cutting height.
	Belt tension too loose	Tighten idlers. Belts must be very tight.
	Gearbox malfunction	Repair gearbox.
Streaks or gives ragged cut	Broken or worn blades	Replace or sharpen blades.
	Ground speed too fast	Reduce ground speed.
	Excessive cutting height	Lower cutting height. (Note: Set height so unit does not freqently hit ground.)
	Excessive lush and tall vegetation	Recut at 90-degree to first pass.
Thrown objects	No shielding	Use chain shielding.
Excessive side skid wear	Running with skids continuously on ground	Use check chains and tail wheels. Set skids above ground.

* Check belt for damage by laying it flat on floor. If belt does not lie flat (has humps or twists) this indicates broken or stretched cords. Replace belt.

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ASSEMBLY

DEALER SET-UP INSTRUCTIONS

These instructions are for the assembly of the MD80 and D80. Many of the procedures apply to both units. When an instruction applies to a specific unit, the section heading will indicate which unit.

Assembly of this cutter is the responsibility of the WOODS dealer. It should be delivered to the owner completely assembled, lubricated and adjusted for normal cutting conditions. Complete check lists when assembly is complete.

The cutter is shipped partially assembled. Assembly will be easier if components are aligned and loosely assembled before tightening hardware. Recommended torque values for hardware are located on page 58.

Select a suitable working area. Open parts boxes and lay out parts and hardware to make location easy. Refer to illustrations, accompanying text, parts lists and exploded view drawings.



■ Make sure spring-activated locking pin or collar slides freely and is seated firmly in tractor PTO spline groove.



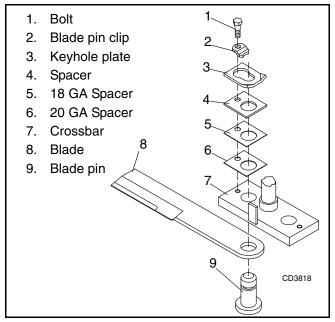
■ Always wear relatively tight and belted clothing to avoid getting caught in moving parts. Wear sturdy, rough-soled work shoes and protective equipment for eyes, hair, hands, hearing, and head; and respirator or filter mask where appropriate.

Blade Installation (Figure 20)

Either place cutter on stands or hang to permit access to both top and bottom. Make sure cutter is secured to prevent it from falling.

Liberally coat blade pin and crossbar hole with Never-Seez® or equivalent. Make sure blade is offset away from deck and cutting edge is positioned for counter-clockwise rotation as viewed from top of deck.

Install blade pin (9) up through blade (8) then through hole in crossbar and push firmly against crossbar (7). Install as many spacers (4, 5 or 6) as possible and still be able to slide keyhole plate (3), with ears up as shown, into blade pin groove. Place blade pin clip (2) over keyhole plate and into blade pin groove. Secure with bolt (1). Repeat for opposite blade. Blade should be snug but swivel on pin without excessive force. Retain any spacers not used in installation for use when blade wears or on future installations.





Distribution Baffle Installation (Figure 21)

A distribution baffle is supplied. It is recommended when mowing grass and weeds. It should not be used when operating cutter in heavy brush. Remove the two rear carriage bolts from the left side skid. Place baffle (1) under cutter frame and attach as shown.

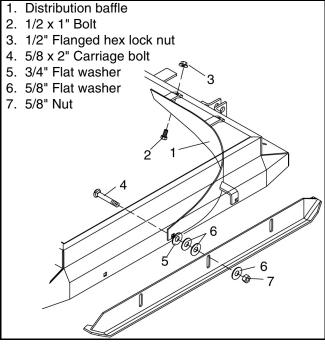


Figure 21. Distribution Baffle Installation

28 Assembly

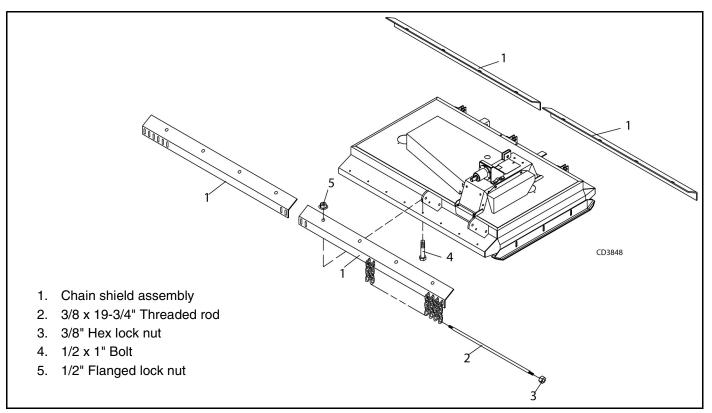


Figure 22. Chain Shielding Assembly

Gearbox Lubrication

NOTICE

■ The gearbox was not filled at the factory. It must be serviced before operating cutter. Failure to service will result in damage to the gearbox.

Chain Shielding Installation (Figure 22)

■ Full chain shielding, designed to reduce the possibility of thrown objects, must be installed when operating in populated areas or other areas where thrown objects could injure people or damage property. If this machine is not equipped with full chain shielding, operation must be stopped when anyone comes within 300 feet.

All four chain assemblies (1) are interchangeable. Place each assembly on the cutter and attach by inserting bolt (4) up through the cutter and chain shield assembly, then install flange lock nut (5) on each bolt.

The drag rods (2) are sold separately. To install, place a lock nut (3) on one end and thread rod (2) through bot-

tom of 16 chain links, then secure with another lock nut (3). Two rods (2) are used on each chain shield assembly (1).

Wheel Yoke Installation for DO80-2 Pull-Type Cutter (Figure 23)

The wheel yoke for use with pneumatic tires is illustrated. The spring-loaded wheel yoke installs the same.

Attach wheel yoke (6) to rear of cutter frame with clevis pins (15) and cotter pins (3) at two points.

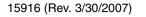
Insert crank (5) through pivot block (10). Slide sleeve (7) onto crank, align hole in sleeve and hole in crank, and drive the spirol pin (8) into the assembly to attach.

Thread pivot nut (2) onto crank (5) until it will install into pivot lug (1), then attach with cotter pin (3). Install spirol pin (4) into crank (5) to prevent crank detachment.

Attach axle with rim (12) and tire (not supplied) to wheel yoke using lock washer (13) and nut (14).

NOTICE

■ You must use the pneumatic tire with this wheel yoke. The solid tire may be used with the spring-loaded wheel yoke.



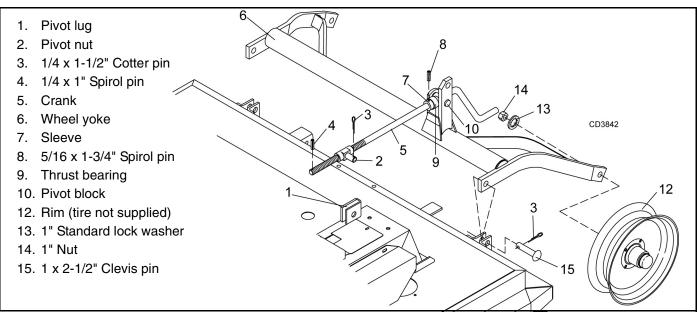


Figure 23. Wheel Yoke Installation

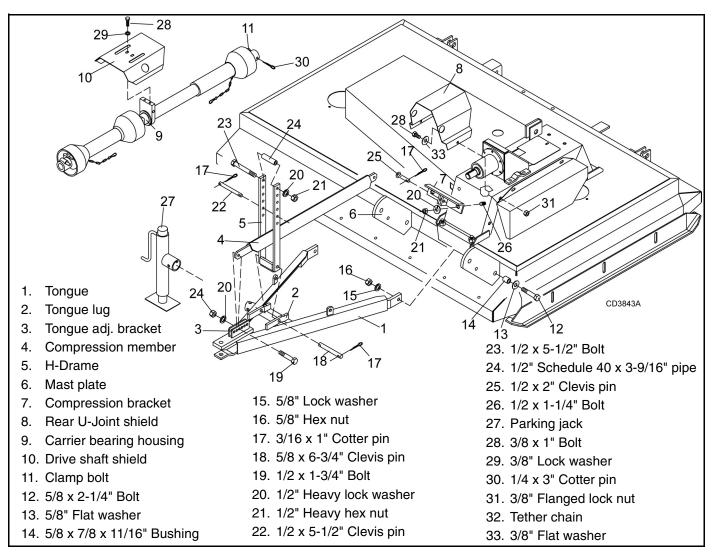


Figure 24. Tongue and H-Frame Assembly

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Tongue Installation for DO80-2 Pull-Type Cutter (Figure 24)

Attach compression bracket (7) to front of gearbox stand with lock washers (20) and nuts (21).

Align holes in tongue (1) to bottom hole of mast plate (6) and insert bushing (14) through the holes, then place washer (13) on bolt (12) and insert through mast plate, bushing and tongue. Install lock washer (15) over bolt and attach with nut (16).

Support tongue by attaching jack (27).

Attach compression member (4) to compression bracket (7) with clevis pin (25) and cotter pin (17), then attach front end to tongue with bolt (19), lock washer (20) and nut (21). The compression member setting must be adjusted when the cutting height is set.

Align H-frame (5) to tongue (1) and attach with clevis pin (18) and two cotter pins (17).

Place key in gearbox input shaft, loosen clamp bolt (11) on rear of driveline, and slide driveline onto gearbox input shaft. Tighten clamp bolt and install cotter pin (30) through driveline and input shaft. Snap rear tether chain (32) around the compression link to prevent driveline shield rotation.

Align driveline in H-frame and insert clevis pin (22) through H-frame and carrier bearing (9). Attach by inserting two cotter pins (17) in clevis pin (22). Snap middle tether chain (32) around H-frame to prevent driveline shield rotation.

Attach rear universal joint shield (8) to gear stand as shown with bolts (28), washers (33) and nuts (31).

Place forward driveline shield, (10) over H-Frame and attach with lock washer (29) and bolt (28)

Attach pipe (24) to H-frame using bolt (28), lock washer (20) and nut (21). Attach front tether chain (32) securely to tractor.

Optional Hydraulic Installation for DO80-2 Pull-Type Cutter (Figure 25)

Remove the crank (7) from pivot link holder (6), insert pivot link (5) into pivot link holder (6), then install the crank and cotter pin (8).

Remove bolt (2) from H-frame, install hydraulic hose holder (3), and install bolt.

Install hydraulic cylinder (9) using clevis pins (11), then route hose through hose holder (3).

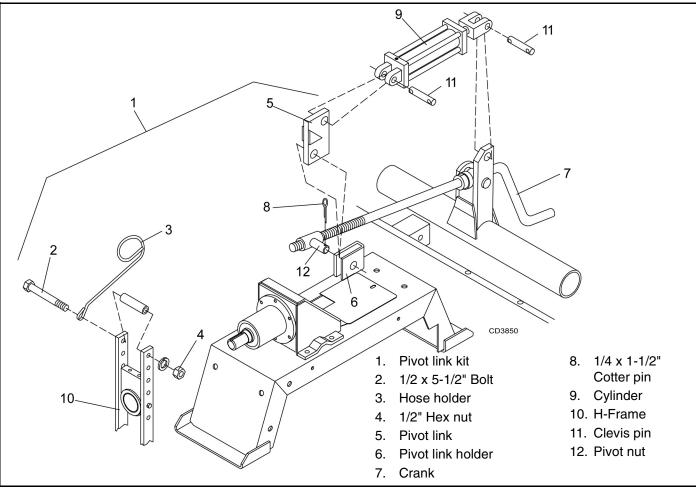


Figure 25. Optional Hydraulic Lift Assembly

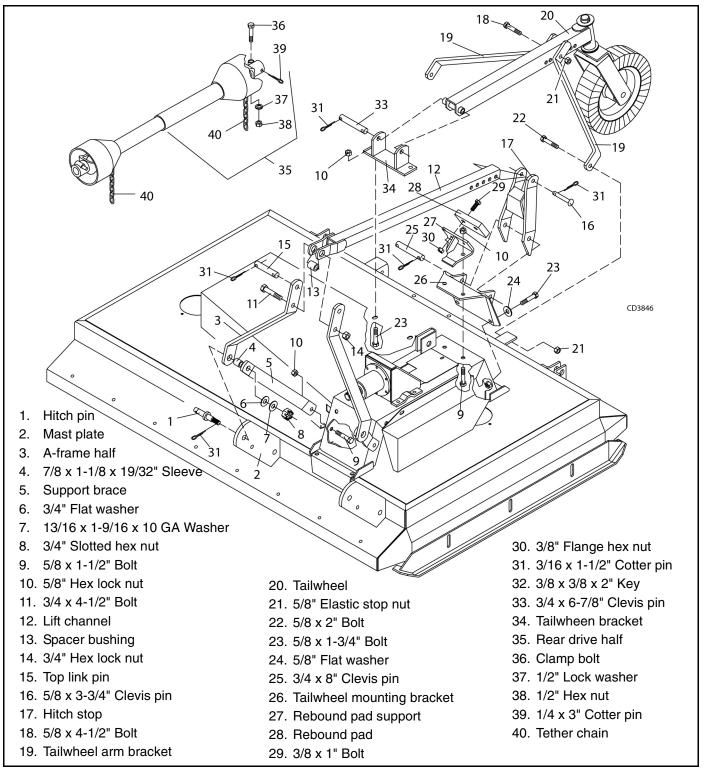


Figure 26. Assembly of MD80 (Mounted Model)

MD80 Assembly (Figure 26)

Driveline Installation

bolt. Snap tether chain (40) to gear stand to prevent driveline shield rotation.

Tailwheel Installation

Loosen clamp bolt (36) on rear half of drive. Install key (32) in gearbox keyway and slide drive onto gearbox input shaft. Install cotter key (39) and tighten clamp

Attach tailwheel bracket (34) to cutter frame with bolts (23) and lock nuts (10). Attach tailwheel arm brackets (19) to brackets on rear of cutter frame with bolts (22)

32 Assembly

and elastic stop nuts (21). Attach tailwheel assembly (20) to tailwheel bracket (34) with clevis pin (33) and secure with two cotter pins (31).

Attach tailwheel arm brackets (19) to tailwheel assembly (20) with bolt (18) and elastic stop nut (21).

A-Frame and Lift Installation

Place washers (24) on bolts (23), insert through bracket (26) and tighten bolts into nuts welded to gear stand.

Bolt rebound pad (28) to rebound pad support (27). Insert bolt (9) through gear stand and bracket (26), then place rebound pad assembly on top and secure with lock nuts (10). Use clevis pin (25) to attach hitch stop (17) to bracket (26), and secure with cotter pins (31).

Attach one end of each support brace (5) to the gear stand with bolts (9) and lock nuts (10). Insert hitch pins (1) through mast plates (2). Place A-frame arms (3) over hitch pins, then install sleeve (4) and brace (5) over pin and secure with slotted hex nut (8).

Place spacer (13) between brackets on lift channel (12) and mount between lower holes of A-frame halves with

bolt (11) and lock nut (14). Attach lift channel to hitch stop (17) with clevis pin (16) and cotter pin (31).

OPTIONAL LEAF MULCHER INSTALLATION (FIGURE 27)

Loosely assemble the leaf mulcher to the cutter before tightening any hardware.

The mulcher uses the chain shielding attachment holes. It is your option to remove or leave the chain shielding in place.

Place adapter (4) underneath the front edge of cutter and attach with bolts (6) and flange lock nuts (7).

Bolt front shield (3) to adapter using bolts (6) and flange lock nuts (7).

Place rear mulcher section (1) underneath the rear edge of cutter and attach with bolts (6) and flange lock nuts (7).

Attach right and left side frames (2 & 5) to the front and rear mulcher sections with bolts (6) and flange lock nuts (7). The slots are to the front and the U-section points outward as shown.

When all hardware is installed, you may tighten it.

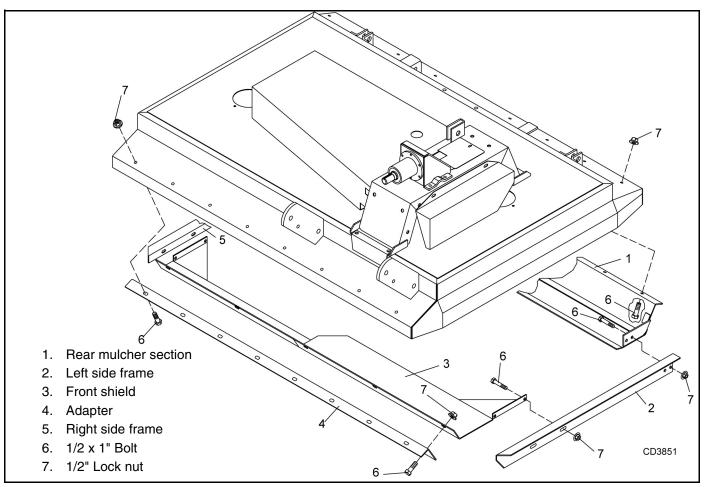


Figure 27. Optional Leaf Mulcher Installation

OPTIONAL CHECK CHAIN INSTALLATION (FIGURE 28)

Attach chain (9) to cutter mast plate (2) with bolt (1), washer (3) and nut (4) as shown. Repeat for opposite mast plate.

Attach one check chain bracket (7) to each side of the tractor top link bracket (2) with bolt (5) and nut (8) as shown.

The check chains may be adjusted to set the front cutting height of the cutter.

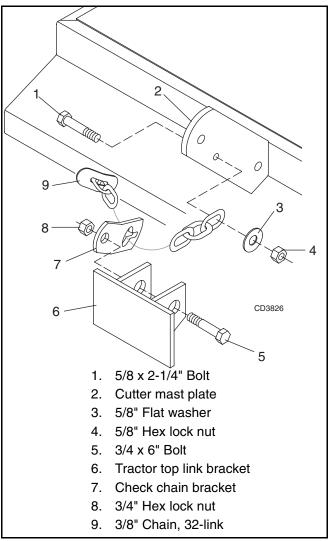


Figure 28. Optional Check Chain Installation

34 Assembly

DEALER CHECK LISTS

PRE-DELIVERY CHECK LIST

(DEALER'S RESPONSIBILITY)

Inspect cutter thoroughly after assembly to be certain it is set up properly before delivering it to customer. The following check list is a reminder of points to inspect. Check off each item as it is found satisfactory, corrections made or services performed.

- _ Check all bolts to be sure they are tight.
- ____ Check that all cotter pins are properly installed and secured.
- ____ On pull-type cutter, make sure pin to prevent crank detachment is installed.
- ____ Check that PTO shaft is properly installed.

NOTICE

■ Gearbox was not filled at factory. It must be serviced before operating cutter. (See page 18.) Failure to service will result in damage to gearbox.

- ____ Check that gearbox is properly serviced and seals are not leaking.
- ____ Lubricate cutter.
- ____ Check that blades have been properly installed.

DELIVERY CHECK LIST

(DEALER'S RESPONSIBILITY)

- ____ Show customer how to make adjustments.
- ____ Explain importance of lubrication to customer and point out lubrication points on cutter.
- ____ Point out safety features and options.
- 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!
- ____ Give Operator's Manual to customer and recommend that customer become familiar with all sections, especially the safety information.
- Explain to customer that when transporting cutter on road or highway, day or night, safety devices should be used to provide adequate warning to operators of other vehicle.

NOTES

36 Dealer Check Lists

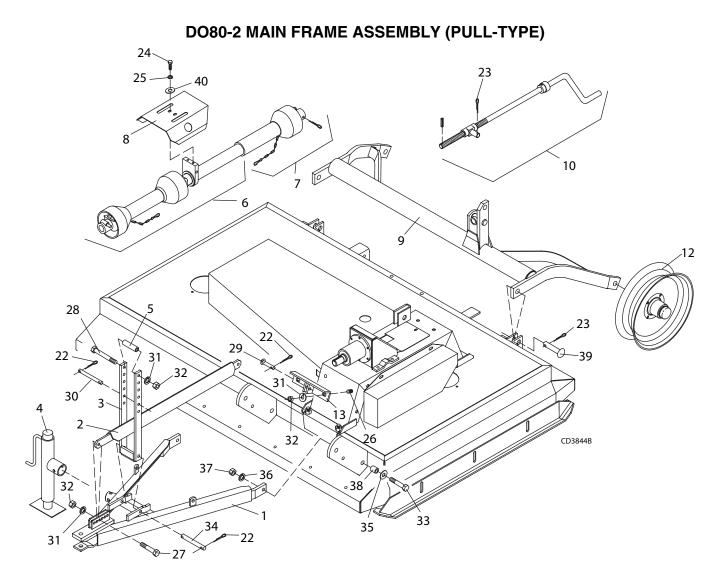
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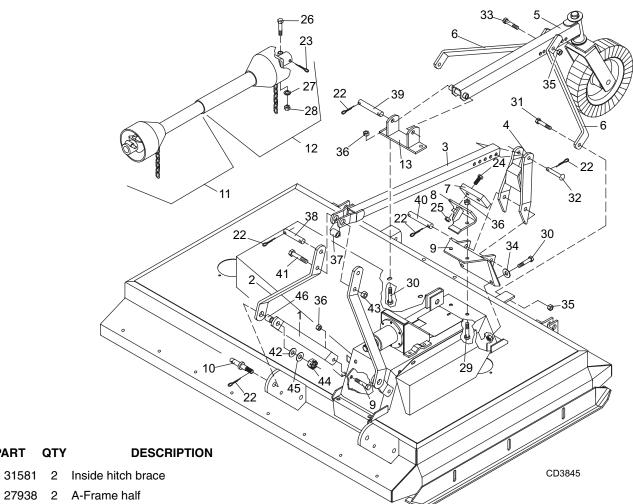
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Check Chain Assembly (Optional)page 55
Category 2 Hitch Pin Options
Category 2 Bushing Kit



REF	PART	QTY	DESCRIPTION	REF	PART	QTY	DESCRIPTION
1	7023	1	Tongue	26	6100	*	1/2 NC x 1-1/4 HHCS GR5
2	406		Compression member	27	24576		1/2 NC x 1-3/4 HHCS GR5
3	7030	1	H-Frame	28	12305	*	1/2 NC x 5-1/2 HHCS GR5
4		1	Parking jack	29	409		1/2 x 2 Clevis pin
5	7035	1	1/2 Schedule 40 x 3-9/16 pipe	30	404		1/2 x 5-3/4 Clevis pin HT
6		1	Front 2/3 of 3-joint drive	31	855	*	1/2 Extra-heavy lock washer
7		1	Rear section of universal drive	32	1093		1/2 NC Heavy hex nut
8	19012	1	Drive shaft shield	33	12274	*	5/8 NC x 2-1/4 HHCS GR5
9	9191	1	Wheel yoke	34	405		5/8 x 6-3/4 Clevis pin
10		1	Manual height adjustment crank	35	692	*	5/8 Standard flat washer
11		2	15" Wheel	36	1286	*	5/8 Heavy lock washer
12	7033	1	Compression member bracket	37	230	*	5/8 NC Hex nut
			HARDWARE	38	11081		5/8 x 7/8 x 11/16 Bushing HT
22	1256	*	3/16 x 1 Cotter pin	39	445		1 x 2-1/2 Clevis pin
23	1285	*	1/4 x 1-1/2 Cotter pin	40	565		3/8 Flat washer
24	839	*	3/8 NC x 1 HHCS GR5				
25	838	*	3/8 Standard lock washer			*	Obtain Locally - Standard Hardware

38 Parts

MDO80-2 MAIN FRAME ASSEMBLY (MOUNTED MODEL)



3	28236	1	Lift arm channel assembly				
4	29071	1	Hitch stop assembly	REF	PART	QTY	DESCRIPTION
5		1	Tailwheel	30	7832	*	5/8 NC x 1-1/2 HHCS GR5
6	29080	2	Tailwheel adjustment bracket	31	902		5/8 NC x 2 HHCS GR5
7	29070	1	Rebound bumper pad	32	8099		5/8 x 3-3/4 Clevis pin HT
8	28241	1	Rebound bumper support	33	3097		5/8 NC x 4-1/2 HHCS HT
9	28238	1	Tailwheel attachment plate	34	692	*	5/8 Standard flat washer
10	7049	2	Cat. 1 mounting, 5-3/4L	35	12006		5/8 NC Electric stop nut
11		1	Front 1/2 universal drive	36	6239	*	5/8 NC Heck lock nut
12		1	Rear section universal drive	37	12587		3/4 x 1-1/4 x 2-1/4 Sleeve
13	15814	1	Tailwheel mounting bracket	38	8325		3/4 x 4-27/32 Clevis pin
			HARDWARE	39	7104		3/4 x 6-7/8 Clevis pin
22	1266	*	3/16 x 1-1/2 Cotter pin	40	29075		3/4 x 8 Clevis pin
23	1426	*	1/4 x 3 Cotter pin	41	12558		3/4 NC x 4-1/2 HHCS GR5
24	839	*	3/8 NC x 1 HHCS GR5	42	2864	*	3/4 SAE Flat washer
25	14350		3/8 NC Flanged hex lock nut	43	2371	*	3/4 NC Hex lock nut
26	1637	*	1/2 NC x 3-1/2 HHCS GR5	44	5849		3/4 NF Slotted hex nut
27	855	*	1/2 Extra-heavy lock washer	45	31392		13/16 x 1-9/16 x 10 GA Flat washer
28	1093	*	1/2 NC Heavy hex nut	46	29281		7/8 x 1-1/8 x 19/32 Sleeve HT
29	4548	*	5/8 NC x 1-3/4 HHCS GR5			*	Obtain Locally - Standard Hardware

Parts 39

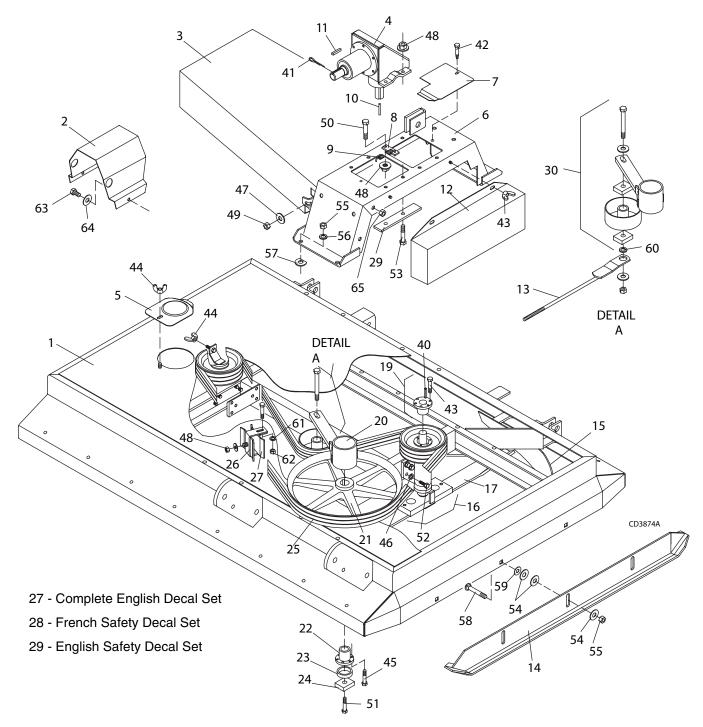
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REF PART QTY

1

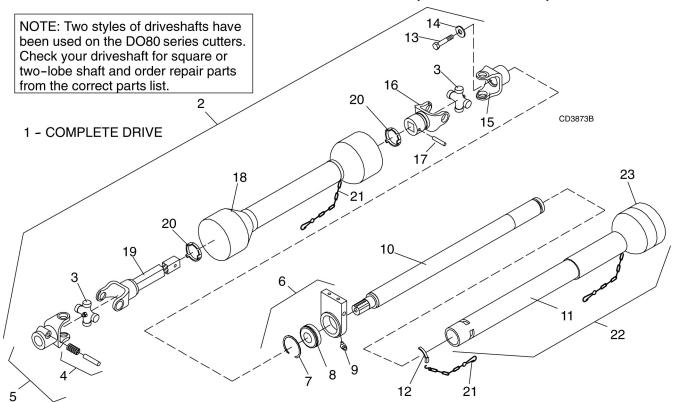
2

DO80-2 & MDO80-2 MAIN FRAME ASSEMBLY - COMMON PARTS



DO80-2 & MDO80-2 MAIN FRAME ASSEMBLY - COMMON PARTS

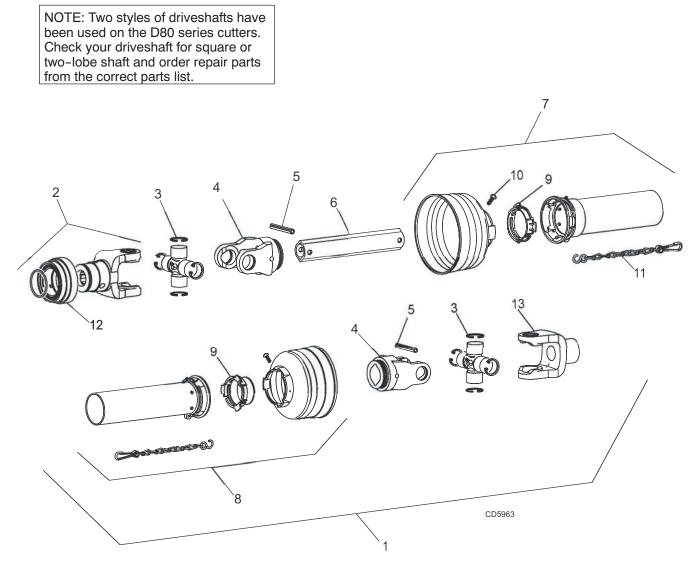
REF	PART	QTY	DESCRIPTION	REF	PART	QTY	DESCRIPTION
1		1	Deck (not sold separately)	31	55827	1	French safety decal set
2	19016	1	Rear drive shield	32	15827	1	English safety decal set
3	15904	1	Right v-belt shield				HARDWARE
4		1	Gearbox	40	7142		1/4 x 1/4 x 2 Key
5	3444	2	Access hole cover	41	1426*		1/4 x 3 Cotter pin
6	28225	1	Gearbox stand	42	27610		5/16 NC x 3/4 Sheet metal screw
7	28203	1	Tower access cover	43	14562*		5/16 NC x 1 HHCS GR5
8	1942	1	Gearbox angle bracket	44	1287*		3/8 NC Wing nut
9	419	1	Extension spring, 4-1/8 L	45	12169		3/8 NC x 1-1/4 HHCS GR5
10	607	1	3/8 x 3/8 x 2-3/8 Key	46	855*		1/2 Extra-heavy lock washer
11	608*	1	3/8 x 3/8 x 2 Key	47	854*		1/2 Standard flat washer
12	15950	1	Left belt shield	48	11900*		1/2 NC Flaged hex lock nut
13	31547	1	Idler take-up rod assembly	49	6241		1/2 NC Elastic stop nut
14	15779	2	Skid shoe 56.2	50	6100*		1/2 NC x 1-1/4 HHCS GR5
15	15817	1	Left rear baffle	51	1262		1/2 NC x 1-1/4 HHCS ,drilled head
16		2	Spindle	52	3452		1/2 NF x 1-1/2 HHCS GR5
17		4	Blades	53	24576		1/2 NC x 1-3/4 HHCS GR5
18	7111	2	4TB 68 Sheave	54	692*		5/8 Standard flat washer
19	1482	2	P1 1-1/4 Straight bore bushing	55	230*		5/8 NC Hex nut
20	10717	1	Idler arm assembly	56	1286*		5/8 Heavy lock washer
21	10550	1	4TB 17.0 Sheave	57	2323		5/8 Special sheared washer
22	10799	1	P1 1-1/2 Straight bore bushing	58	2855*		5/8 NC x 2 Carriage bolt
23	10715	1	1-1/2 Schedule 40 x 9/16 Pipe	59	2864*		3/4 SAE Flat washer
24	606	1	1/4 x 1-1/2 x 2 Lug	60	2241		41/64 x 1-3/16 x 5/16 Washer
25	4927	1	W114 Set of 4 V-belts	61	838*		3/8 Standard lock washer
26	2389	1	Outer slide and guide assembly	62	835*		3/8 NC Hex nut, plated
27	2390	1	Inner slide and guide assembly	63	839*		3/8 NC x 1 HHCS GR5
28	29038	2	Spindle support plate	64	565*		3/8 Flat washer
29	29280	2	3/8 x 1-3/4 x 9-1/4 Support plate	65	14350		3/8 NC Flanged hex lock nut
30	15828	1	Complete english decal set			*	Obtain Locally - Standard Hardware



DO80-2 FRONT 2/3 OF 3-JOINT DRIVE (SQUARE SHAFT)

REF	PART	QTY	DESCRIPTION	REF	PART	QTY	DESCRIPTION
1	19054	1	Front 2/3 of 3-joint drive 35N	13	1311	1	1/2 NF x 1 HHCS, drilled head
2	44919	1	Front 2 joints shielded 35N	14	*	1	1/2 x 1-1/2 x 1/8 Flat washer
3	110	2	U-Joint repair kit 35N	15	105	1	1-5/16 Bore universal joint yoke 35N
4	117	1	Lock pin and spring	16	19043	1	Yoke
5	115	1	1-3/8 Quick disconnect yoke 35N	17	4674	1	3/8 x 2 Spirol pin
6	1251	1	Bearing holder with bearing (includes 7, 8 & 9)	18	19045	1	Shield, decaled 2-joint 21.94 (includes items 20 & 21)
7	12128	1	.062 x 72mm ID Snap ring	19	4663	1	Square shaft & yoke 35N
8	3502	1	1.37 ID x 2.83 OD Ball bearing	20	15740	2	World shield bearing
9	2985 *	-	1/4 - 28 Threaded 90-degree grease	21	15739	3	World shield tether chain 27.5
			fitting	22	19609	1	Plastic shield kit (includes items 11 &
10	19036	1	Decaled tube, sleeve & stub, 24.38				23)
11	15952	1	Plastic shield 2.75 x 17.69 (includes items 12 & 21)	23	19038	1	Shield, decaled
12	15141	4	Bearing for tubular shaft			*	Obtain Locally - Standard Hardware

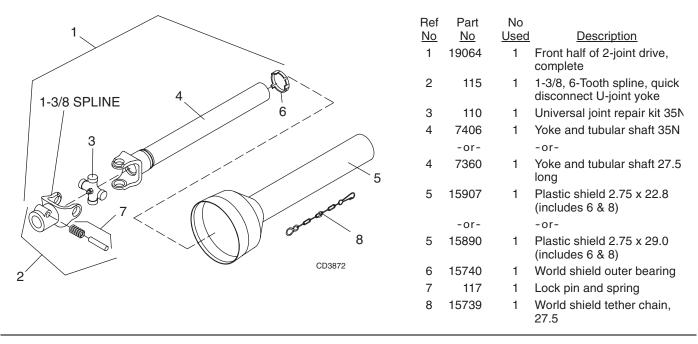
DO80-2 FRONT 2/3 OF 3-JOINT DRIVE (TWO-LOBE SHAFT)



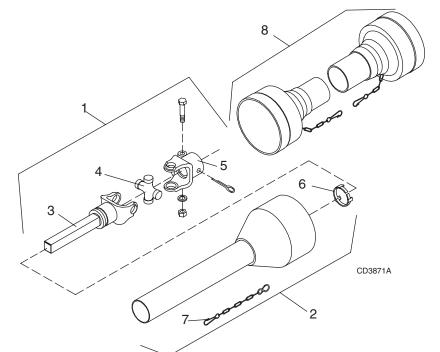
REF	PART	QTY	DESCRIPTION	REF	PART	QTY	DESCRIPTION
1	44919	1	Front 2 joints shielded 1340	7	40590	1	Guard, outer half (includes items 9, 10 & 11) (cut to length)
2	40574	1	Yoke, 1-3/8 -6SP (complete with lock collar)	8	40591	1	Guard, inner half (includes items 9, 10, & 11) (cut to length)
3	110	2	Cross & bearing kit	0	40766	0	
4	40576	2	Inboard voke	9	40766	2	Bearing ring (package of 2)
-			5	10	40778	2	Screw (package of 10)
5	40764	2	Spring pin 10 mm x 80 mm (packet of 10)	11	40777	2	Anti-rotation chain
6	40588	1	Outer profile (cut to length)	12	40589	1	Lock collar repair kit (without yoke)
C C				13	105	1	Yoke, 1.31 Bore



MDO80-2 FRONT 1/2 OF UNIVERSAL DRIVE

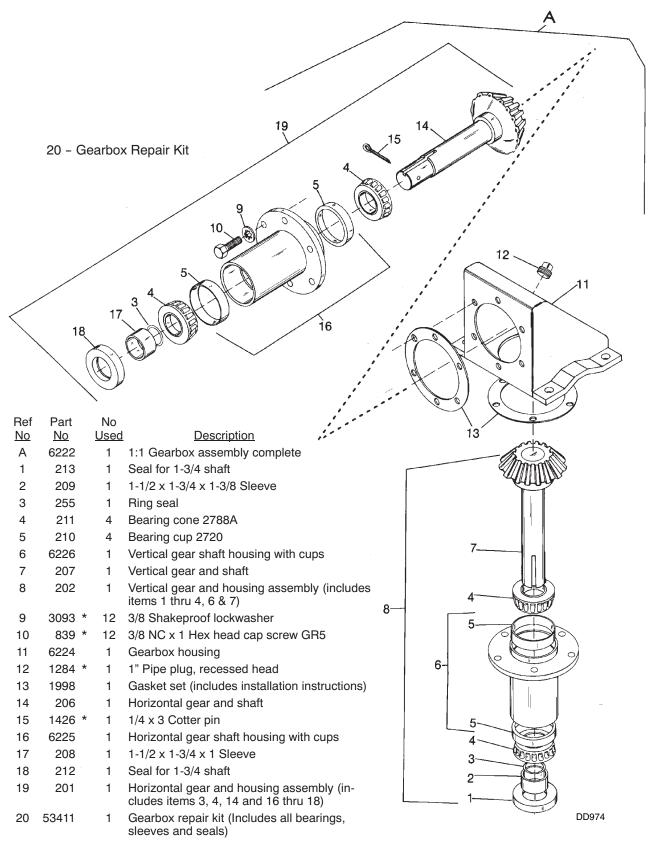


DO80-2 & MDO80-2 REAR SECTION OF UNIVERAL DRIVE



Def	Dort	No	\sim	Ref	Part	No	
Ref	Part	No		No	No	Used	Description
<u>No</u>	<u>No</u>	<u>Used</u>	<u>Description</u>	4	110	1	Universal joint repair kit 35N
1	19039	1	Universal joint yoke & square shaft	4	-	1	, ,
		23-7/8 L with shield	5	6216	1	Clamp yoke	
2	19038	1	Decaled shield 3 x 22 long (includes	6	15740	1	Shield bearing
	6 & 7)	6 & 7)	7	15739	1	Shield tether chain 27-1/2"	
3	7368	1	Square shaft & yoke, 35N	8	19604	1	Shield kit (contains 15890 & 19038)

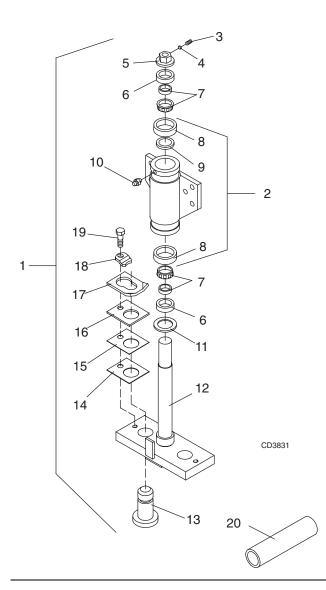
44 Parts



* Obtain Locally

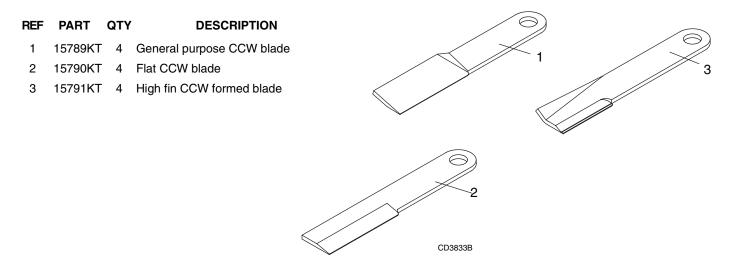
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DO80-2 & MDO80-2 BLADE SPINDLE ASSEMBLY

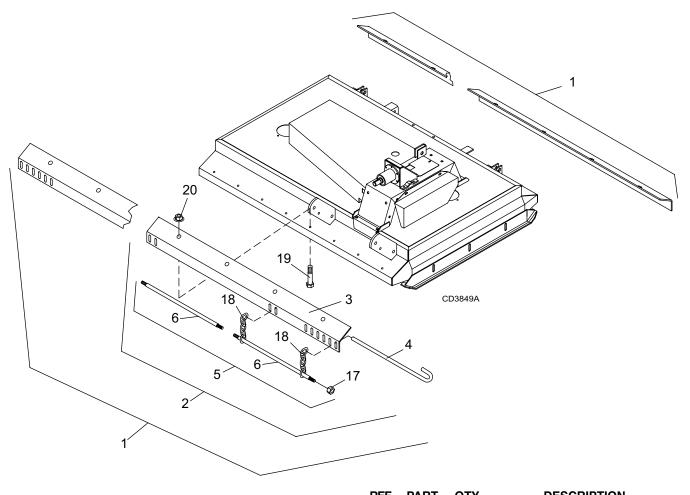


REF	PART	QTY	DESCRIPTION
1	15805	1	Spindle assembly
2	7143	1	Spindle housing with bearing cups and grease fitting
3	7269	1	3/8 NF x 3/8 Set screw
4	7127	1	5/16 x 5/32 Dowel plug
5	7115	1	1-3/8 Flanged spindle nut
6	5298	2	Seal for 1-3/4 shaft
7	7068	2	Bearing cone and sleeve
8	7069	2	Bearing cup
9	7129	1	1-3/8 x 2-1/8 x 18 GA Shim
10	195	1	Grease fitting
11	7138	1	1-3/8 x 2-3/4 x 1/4 Flat washer
12	15785	1	Crossbar
13	15803	2	1-1/2 Blade pin x 3.32 L
14	10520	2	18 GA Shim
15	13946	2	20 GA Shim
16	5523	2	Spacer
17	32603	2	Keyhole plate - special
18	32604	2	Blade lock clip - special
19	6100*	2	1/2 NC x 1-1/4 HHCS
20	7571	1	7/64 Wall x 1-5/8 x 11 Tube (Optional)

DO80-2 & MDO80-2 BLADES

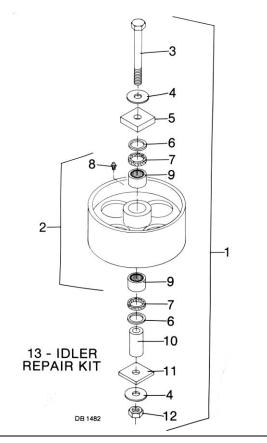


DO80-2 & MDO80-2 CHAIN SHIELDING ASSEMBLY



REF	PART	QTY	DESCRIPTION	REF	PARI	QIY	DESCRIPTION
1	29085	2	Chain shielding complete (does not include items 6 & 17)	6	12136	8	3/8 & 19-3/4 Threaded rod, 16-chain HARDWARE
2	29086	4	Chain plate assembly (does not	17	6698	*	3/8 NC Hex lock nut
			include items 6 & 17)	18	3994		5/16 Chain, 5-link
3	29087	4	Chain shield plate	19	25475		1/2 x 1 Cap screwGR5
4	1007850	4	Pin, 31 to 33 chains	20	11900	*	1/2 NC Flanged hex lock nut
5	8731	2	Drag-rod kit - Optional (includes items 6 & 17)			*	Obtain locally, standard hardware

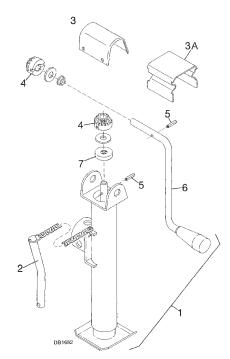
DO80-2 & MDO80-2 IDLER PULLEY ASSEMBLY



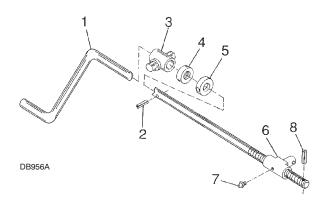
REF	PART	QTY	DESCRIPTION
1	1745	1	4-Belt idler assembly
2	1886	1	Idler with bearings and grease fittings
3	990	1	5/8 NC x 5-1/2 HHCS
4	692	2	5/8 Standard flat washer
5	843	1	1/2 x 2 x 2 Lug
6	844	2	1 x 1-1/4 x 13 GA Flat washer
7	845	2	Felt seal
8	195	1	Grease fitting
9	232	2	Needle bearing
10	377	1	Needle bearing sleeve
11	691	1	1/4 x 2 x 2 Lug
12	6239	1	5/8 NC Hex lock nut
13	231	1	Idler repair kit (contains items 5, 6, 7, 10 & 11)

DO80-2 PARKING JACK

Ref	Part	No	
No	No	Used	Description
1	23790	1	Swivel parking jack
2	25857	1	Jack hitch pin assembly
3	25858	1	Jack gearbox cover
4	25859	2	15-Tooth bevel gear
5	25860	2	5/32 x 1-1/4 Drive pin
6	25861	1	Jack crank handle
7	25862	1	Thrust bearing

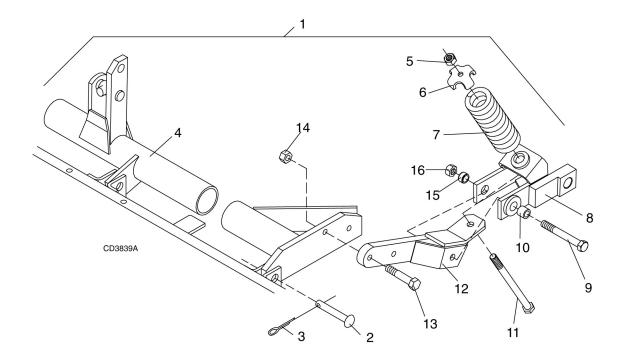


DO80-2 HEIGHT ADJUSTMENT CRANK



REF	PART	QTY	DESCRIPTION		
1	15804	1	Height adjustment crank		
2	11880	1	5/16 x 1-3/4 Spirol pin		
3	10417	1	Height adjustment pivot block		
4	1893	1	Thrust bearing		
5	1863	2	1" SAE Flat washer		
6	5895	1	Height adjustment pivot nut		
7	195*	1	Straight 1/8 pipe thread grease fitting		
8	15134	1	1/4 x 1 Spirol pin		
* Obtain Locally - Standard Hardware					

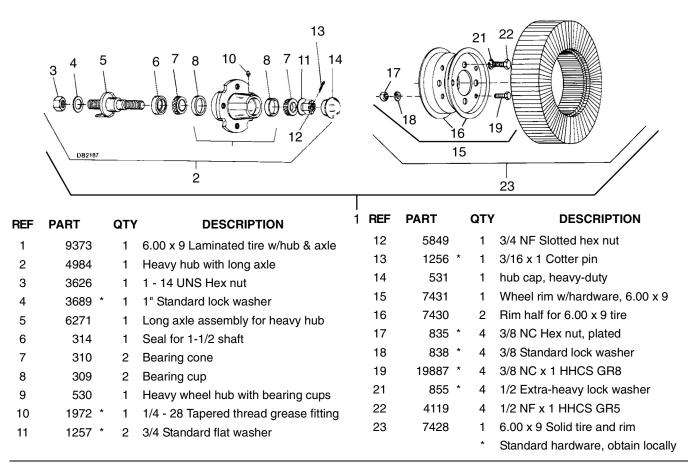
DO80-2 SPRING-LOADED WHEEL YOKE



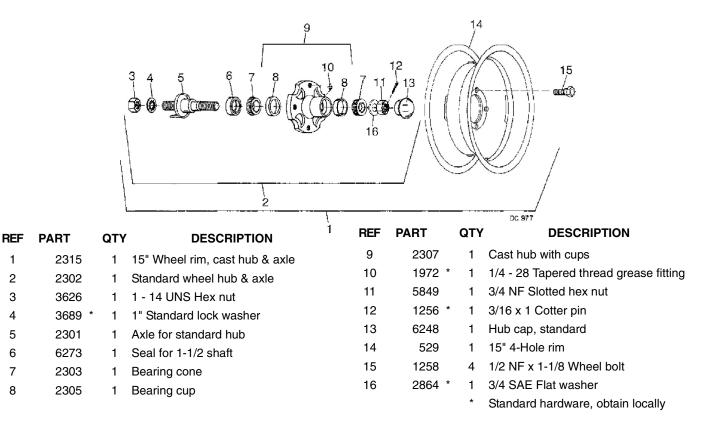
REF	PART	QTY	DESCRIPTION	REF	PART	QTY	DESCRIPTION
1	9310	1	Spring-loaded wheel voke complete	10	2377	2	3/4 NC x 6 HHCS GR5
2	445	2	1 x 2-1/2 Clevis pin	11	39160	2	3/4 NC x 8.00 HHCS GR5
3	1285 *	2	1/4 x 1-1/2 Cotter pin	12	20086	1	Right spring yoke inner arm asy -or-
4	13906	1	Spring wheel voke pipe assembly	12	20087	1	Left inner arm asy
5	2371 *	2	3/4 NC Hex lock nut	13	986 *	4	5/8 NC x 2-3/4 HHCS GR5
6	39097	2	.781 x .38 x 4.12 Square washer	14	6239 *	4	5/8 NC Hex lock nut
7	13316	2	1/2 x 6 Compression spring	15	10083	2	3/4 x 1-1/8 x 5/8 HT Bushing
8	16302	1	Right outer arm assembly -or-	16	2371 *	1	3/4 NC Hex lock nut
8	16303	1	Left outer arm assembly				
9	5560	2	3/4 x 1-1/8 x 31/32 HT Sleeve			*	Standard hardware, obtain locally



DO80-2 LAMINATED TIRE WITH HUB & AXLE

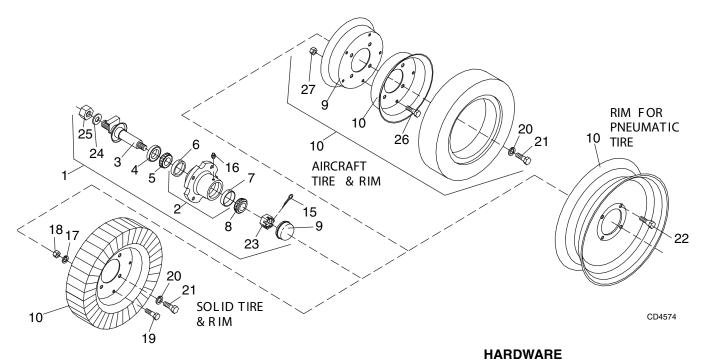


DO80-2 RIM & AXLE ASSEMBLY



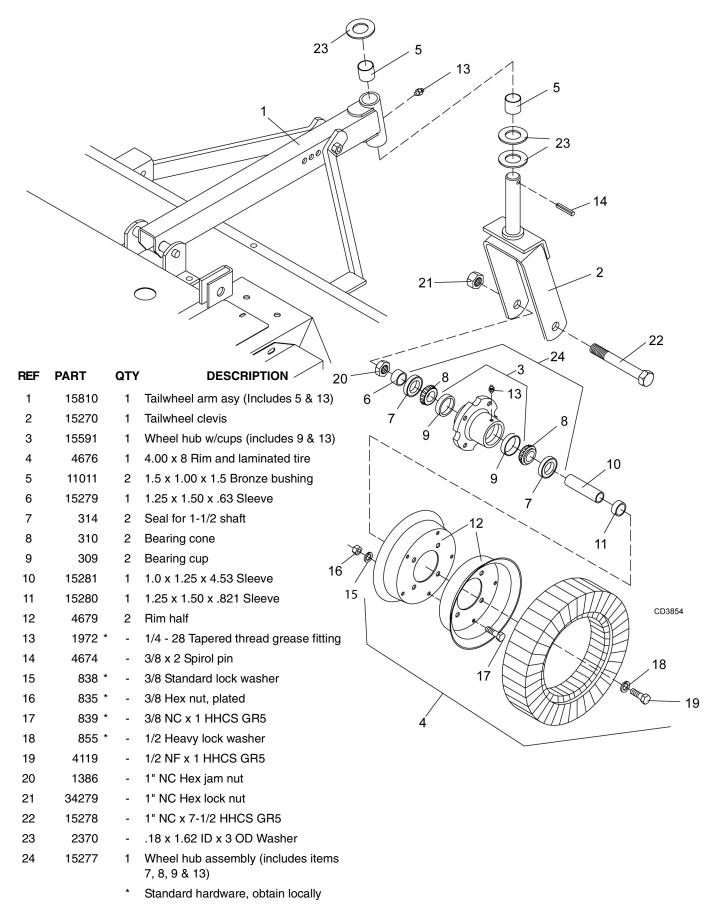
50 Parts

DO80-2 AIRCRAFT TIRE & HUB



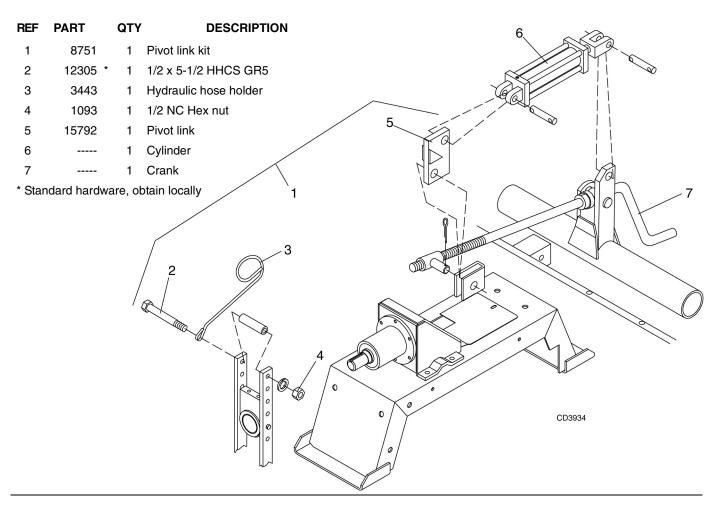
REF	PART	QTY	DESCRIPTION	REF	PART		DESCRIPTION
1	12080	1	Standard hub with long axle	17	838	*†	3/8 Standard lock washer
2	2307	1	Hub with cups	18	835	*†	3/8 NC Hex nut, plated
3	12081	1	Wing axle assembly	19	19887	†	3/8 NC x 1 HHCS GR8
4	6273	1	Seal for 1-1/2 shaft	20	855	*‡	1/2 Extra-heavy lockwasher
5	2303	1	Bearing cone	21	4358	‡	1/2 NF x 1-1/4 HHCS GR5 (solid tire
6	2305	1	Bearing cup				only)
7	2306	1	Bearing cup	22	1258		1/2 NF x 1-1/8 Wheel bolt (pneumatic
8	2304	1	Bearing cone	~~	50.40		rim only)
9	6248	1	Hub cap	23	5849		3/4 NF Slotted hex nut
10	529	1	15" 4-Hole rim for pneumatic tire -or-	24	3689		1" Standard lock washer
-				25	3626		1-14 UNS Hex nut
10	7428	1	6.00 x 9 Solid tire, rim & hardware -or-	26		*	9/16 NC x 1-1/4 HHCS (for aircraft wheel)
10	1003695	1	Wheel assembly 22 x 6.6 x 10.0	07		*	
10A	1015834	1	Inner tube for #1003695 wheel	27			9/16 NC Hex lock nut (for aircraft wheel)
11	1003694	1	Rim half, aircraft wheel			*	Obtain Locally - Standard Hardware
12	1003693	1	Rim half with valve hole, aircraft wheel			†	Used on Solid Wheel Only
15	1256	*	3/16 x 1 Cotter pin			‡	Used on Solid and Aircraft Wheels only
16	1972	*	1/4 - 28 Tapered thread grease fitting				

MDO80-2 TAILWHEEL ASSEMBLY

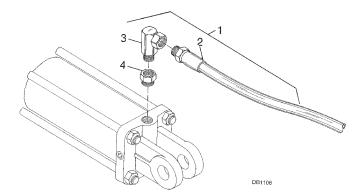


52 Parts

DO80-2 PIVOT LINK KIT (OPTIONAL)



DO80-2 HYDRAULIC HOSE KIT & FITTINGS (OPTIONAL)

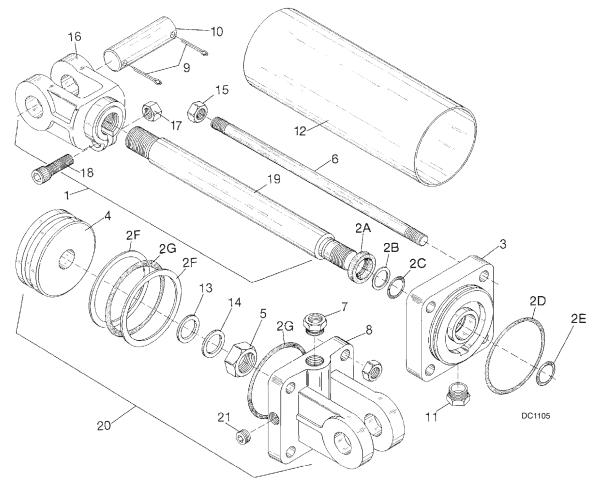


REF	PART	QTY	DESCRIPTION
1	17601	1	1/4 x 108 Hydraulic hose kit and fittings
2	17628	1	1/4 NPT x 108 Hydraulic hose assembly
3	10290	1	1/4 x 1/4 x 90-degree Elbox with 1/16 restrictor
4	11893*	1	1/4 x 1/2 Pipe reducer bushing

* Obtain Locally - Standard Hardware



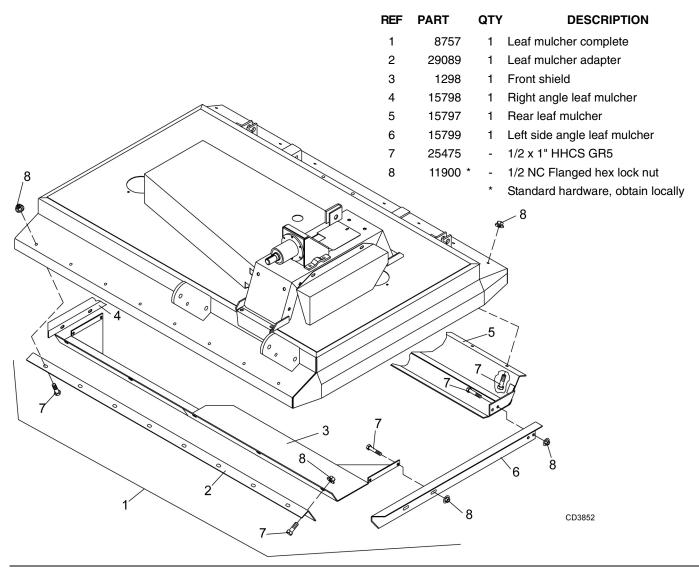
DO80-2 3-1/2 X 8" HYDRAULIC CYLINDER #10475 (OPTIONAL)



REF	PART	QTY	DESCRIPTION	REF	PART	QTY	DESCRIPTION
1		-	Not available	11	11975	1	1/2 NPT Vent plug -or-
2	23540	1	Seal kit (includes 2A thru 2G)	11	23547	1	1/4 NPT Vent plug
2A	+	1	1-1/4 ID Wiper seal	12	NS	1	Cylinder barrel
2B	+	1	Rod back-up ring	13		-	Not required
2C	+	2	1-1/4 ID O-ring	14		-	Not required
2D	+	2	3/16 x 3-1/2 OD O-ring	15	4391	8	1/2 NF Hex jam nut
2E	+	1	3/32 x 3/4 OD O-ring	16	25661	1	Cylinder rod clevis
2F	+	2	3-1/2 OD Back-up washer	17	6698*	1	3/8 NC Hex lock nut
2G	†	1	Piston seal o-ring	18	23550*	1	3/8 NC x 1-1/2 Socket head cap screw
3	NS	1	Rod end housing	19	26343	1	Cylinder rod
4	25497	1	Piston	20	10475	1	Hydraulic cylinder complete (single-
5	25496	1	1-14 UNS Jam nut	20	10170	•	acting)
6	NS	4	Tie rod	21	4510*	1	1/2 Pipe plug
7	11893*	1	1/2 x 1/4 Pipe reducer bushing			*	Obtain Locally - Standard Hardware
8	NS	1	Cylinder butt end			NS	Not Serviced
9	923*	4	1/4 x 1-3/4 Cotter pin			†	Included in Seal Kit
10	1631	2	1 x 3-5/8 Clevis pin			•	

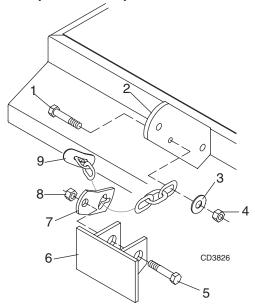
54 Parts

DO80-2 & MDO80-2 LEAF MULCHER ASSEMBLY (OPTIONAL)



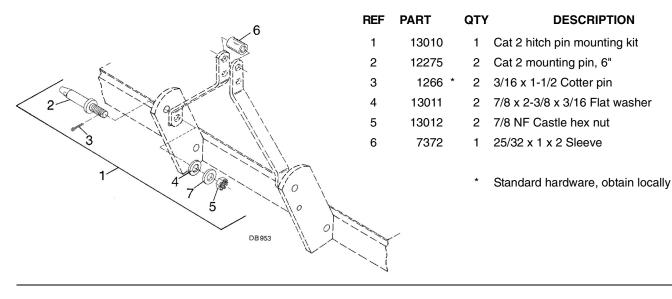
MDO80-2 CHECK CHAIN ASSEMBLY (OPTIONAL)

REF	PART	QTY	DESCRIPTION
-	10521	-	Check chain kit complete
1	12274	-	5/8 x 2-1/4 Bolt
2		-	Cutter mast plate
3	3632	-	5/8 Flat washer
4	6239	-	5/8 Hex lock nut
5	2377	-	3/4 x 6 Bolt
6		-	Tractor top link bracket
7	7906	2	Check chain bracket
8	2371	-	3/4 Hex lock nut
9	18048	2	3/8 Chain, 32-link
		*	Obtain Locally - Standard Hardware

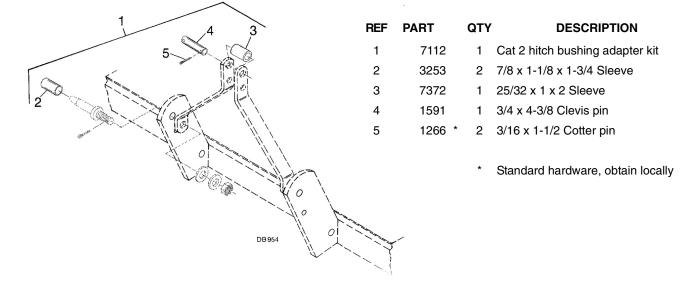




MDO80-2 CATEGORY 2 HITCH PIN OPTIONS



MDO80-2 CATEGORY 2 BUSHING KIT



NOTES



BOLT TORQUE CHART

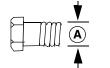
Always tighten hardware to these values unless a different torque value or tightening procedure is listed for a specific application.

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

Always use the proper tool for tightening hardware: SAE for SAE hardware and Metric for metric hardware.

Make sure fastener threads are clean and you start thread engagement properly.

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



SAE SERIES TORQUE CHART

SAE 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	SAE 5		E 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 TORQUE



Metric Bolt Head Identification



Grade 10.9

	•				Grade 10.5					
			COARSE	THREAD			FINE T	HREAD		
A			MARKING	ON HEAD			MARKING	ON HEAD		A
Diameter & Thread Pitch	Wrench	Metr	ic 8.8	Metri	c 10.9	Metri	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 Ð



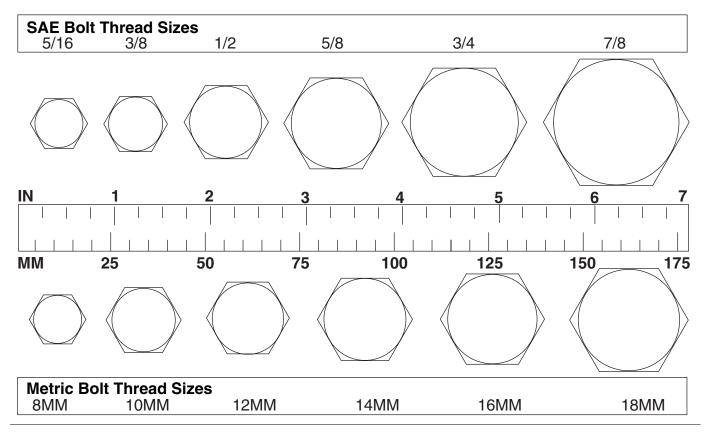
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58 Appendix

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
	American Society of Agricultural &
Biolo	ogical Engineers (formerly ASAE)
ASAE American	Society of Agricultural Engineers
	Automatic Transmission Fluid
BSPP	British Standard Pipe Parallel
BSPTMBr	itish Standard Pipe Tapered Male
CV	Constant Velocity
CCW	Counter-Clockwise
CW	Clockwise
F	Female
FT	Full Thread
GA	Gauge
GR (5, etc.)	Grade (5, etc.)
HHCS	Hex Head Cap Screw
HT	Heat-Treated
JICJoint Ir	ndustry Council 37° Degree Flare
LH	Left Hand
LT	Left
m	Meter
mm	Millimeter
M	Male

МРа	Mega Pascal
N	Newton
NC	National Coarse
NF	National Fine
NPSM	National Pipe Straight Mechanical
NPT	National Pipe Tapered
NPT SWF Natio	onal Pipe Tapered Swivel Female
ORBM	O-Ring Boss - Male
Ρ	Pitch
PBY	Power-Beyond
psi	Pounds per Square Inch
РТО	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

Appendix 59

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

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15916 (Rev. 5/11/2007)



(All Models Except Mow'n MachineTM Zero-Turn Mowers and Woods BoundaryTM Utility Vehicles)

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.

Woods backhoe models BH70-X, BH80-X, and BH90-X 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:

Model Number	Part or Condition Warranted	Duration (from date of delivery to the original purchaser)
PHD25, PHD35, PHD65, PHD95, 1260, 2162, 3240, BB48, BB60, BB72, BB84, BB600, BB720, BB840, BB6000, BB7200, BB8400, BW180-2, BW1800, DS96, DS120, DS1260, DS01260, DS1440, TS1680, RCC42, RM550-2, RM660-2, RM990-3, PRD6000, PRD7200, PRD8400, 7144RD-2, 9180RD-2, 9204RD-2, S15CD, S20CD, S22CD, S25CD, S27CD	Gearbox components	5 years
RDC54, RD60, RD72	Gearbox components	3 years (1 year if used in rental or commercial applications)
RM550-2, RM660-2, RM990-3, PRD6000, PRD7200, PRD8400, 7144RD-2, 9180RD-2, 9204RD-2	Blade spindles	3 years
BB600, BB720, BB840, BB6000, BB7200, BB8400, BW126, BW180, BW1260, BW1800, 1260, 2162, 3240	Rust-through	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.

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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.

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