

Farm King

OPERATOR AND PARTS MANUAL

Disc Mower

Model MDN4, MDN5, MDN6, MDN7

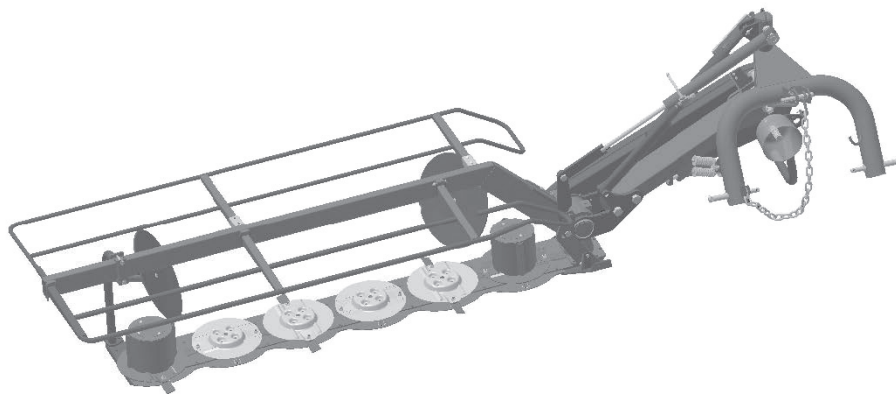


Table Of Contents

Manufacturer's Statement: For technical reasons, Buhler Industries Inc. reserves the right to modify machinery design and specifications provided herein without any preliminary notice. Information provided herein is of descriptive nature. Performance quality may depend on soil fertility, applied agricultural techniques, weather conditions, and other factors.

Warranty Registration Form.....	1
Introduction.....	3
Owner's Information.....	5
Equipment Identification.....	6
Safety.....	7
Safety Instructions.....	9
Fire Prevention.....	12
Safety And Equipment Signs.....	14
Safety Sign-Off Form.....	17
Operation.....	19
Pre-Operation Checklist.....	21
Tractor Requirements.....	21
Entering The Operator's Position.....	22
Leaving The Operator's Position.....	22
Connecting To Tractor.....	22
Connecting The PTO Driveline.....	24
Connecting Hydraulic Lines.....	28
Adjustments.....	29
Working Position.....	31
Operation.....	32
Transporting.....	34
Maintenance.....	37
Service Schedule Chart.....	39
Troubleshooting.....	40
Recommendations.....	41
Lubrication.....	42
Cutting Bar Oil.....	43
Gearbox Oil.....	43
Cutting Blades.....	44
Storage.....	46
Parts Identification.....	47
General Parts Information.....	49

Hitch	49
Safety Chain Kit.....	52
Cutting Bar.....	54
Belt / PTO.....	58
Guards.....	62
Grass Buffers.....	64
Gearbox.....	66
Specifications And Shipping Kit Numbers.....	71
Specifications.....	73
Dimensions.....	73
Shipping Kit And Bundle Numbers.....	74
Hardware Torque Values.....	75
Warranty.....	77
Farm King Base Limited Warranty.....	79

Warranty Registration Form

This form must be filled out by the dealer and signed by both the dealer and the customer at the time of delivery.

Customer Name:		Dealer Name:	
Customer Address:		Dealer Address:	
City:	Prov / State:	City:	Prov / State:
Postal / Zip Code:	Phone:	Postal / Zip Code:	Phone:

Equipment Model:	Serial Number:	Delivery Date:
------------------	----------------	----------------

I have thoroughly instructed the buyer on the above described equipment which review included the Operator and Parts Manual content, equipment care, adjustments, safe operation and applicable warranty policy.

Dealer Inspection Report

☐	Bearing Seals Checked
☐	Hydraulics Checked For Leaks
☐	Fasteners Tight
☐	Machine Lubricated
☐	Oil Reservoirs Level Checked

Safety

☐	Safety Chain On Hitch
☐	All Decals Installed
☐	Guards And Shields Installed And Secure
☐	Operating And Safety Instructions Reviewed

Date:	Dealer Rep. Signature:
-------	------------------------

The above equipment and Operator And Parts Manual have been received by me and I have been thoroughly instructed as to care, adjustments, safe operation and applicable warranty policy.

Date:	Customer / Owner Signature:
-------	-----------------------------

Remove this Warranty Registration Form from the Operator And Parts Manual. Make two copies of the form. Send original Warranty Registration Form to Farm King. Give one copy to the customer and the dealer will keep one copy.

Farm King



Introduction

This Operator And Parts Manual was written to give the owner / operator instructions on the safe operation, maintenance and part identification of the Farm King equipment. READ AND UNDERSTAND THIS OPERATOR AND PARTS MANUAL BEFORE OPERATING YOUR FARM KING EQUIPMENT. If you have any questions, see your Farm King dealer. This manual may illustrate options and accessories not installed on your Farm King equipment.

Owner’s Information.....	5
Serial Number Location.....	5
Manual Storage.....	5
Equipment Identification.....	6

Farm King



Owner's Information

Thank you for your decision to purchase a Farm King Disc Mower. To ensure maximum performance of your equipment, it is mandatory that you thoroughly study the Operator and Parts Manual and follow the recommendations. Proper operation and maintenance are essential to maximize equipment life and prevent personal injury.

Operate and maintain this equipment in a safe manner and in accordance with all applicable local, state, and federal codes, regulations and / or laws. Follow all on-product labeling and instructions.

Make sure that all personnel have read this Operator and Parts Manual and thoroughly understand safe and correct operating, installation and maintenance procedures.

Farm King is continually working to improve its products. Farm King reserves the right to make any improvements or changes as deemed practical and possible without incurring any responsibility or obligation to make any changes or additions to equipment sold previously.

Although great care has been taken to ensure the accuracy of this publication, Farm King, makes no warranty or guarantee of any kind, written or expressed, implied or otherwise with regard to the information contained within this manual. Farm King assumes no responsibility for any errors that may appear in this manual and shall not be liable under any circumstances for incidental, consequential or punitive damages in connection with, or arising from the use of this manual.

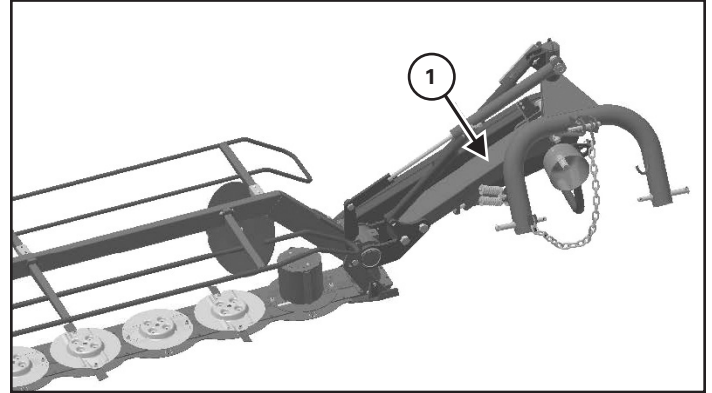
Keep this manual available for frequent reference. All new operators or owners must review the manual before using the equipment and annually thereafter. Contact your Farm King Dealer if you need assistance, information, or additional copies of the manual. Visit our website at www.farm-king.com for a complete list of dealers in your area.

The directions left, right, front and rear, as mentioned throughout this manual, are as viewed from the rear of the equipment.

Serial Number Location

Please enter the model and serial number in the space provided for easy reference.

Figure 1



Model Number: _____

Serial Number: _____

The serial number plate (Item 1) is located on the frame by the three-point hitch **[Figure 1]**.

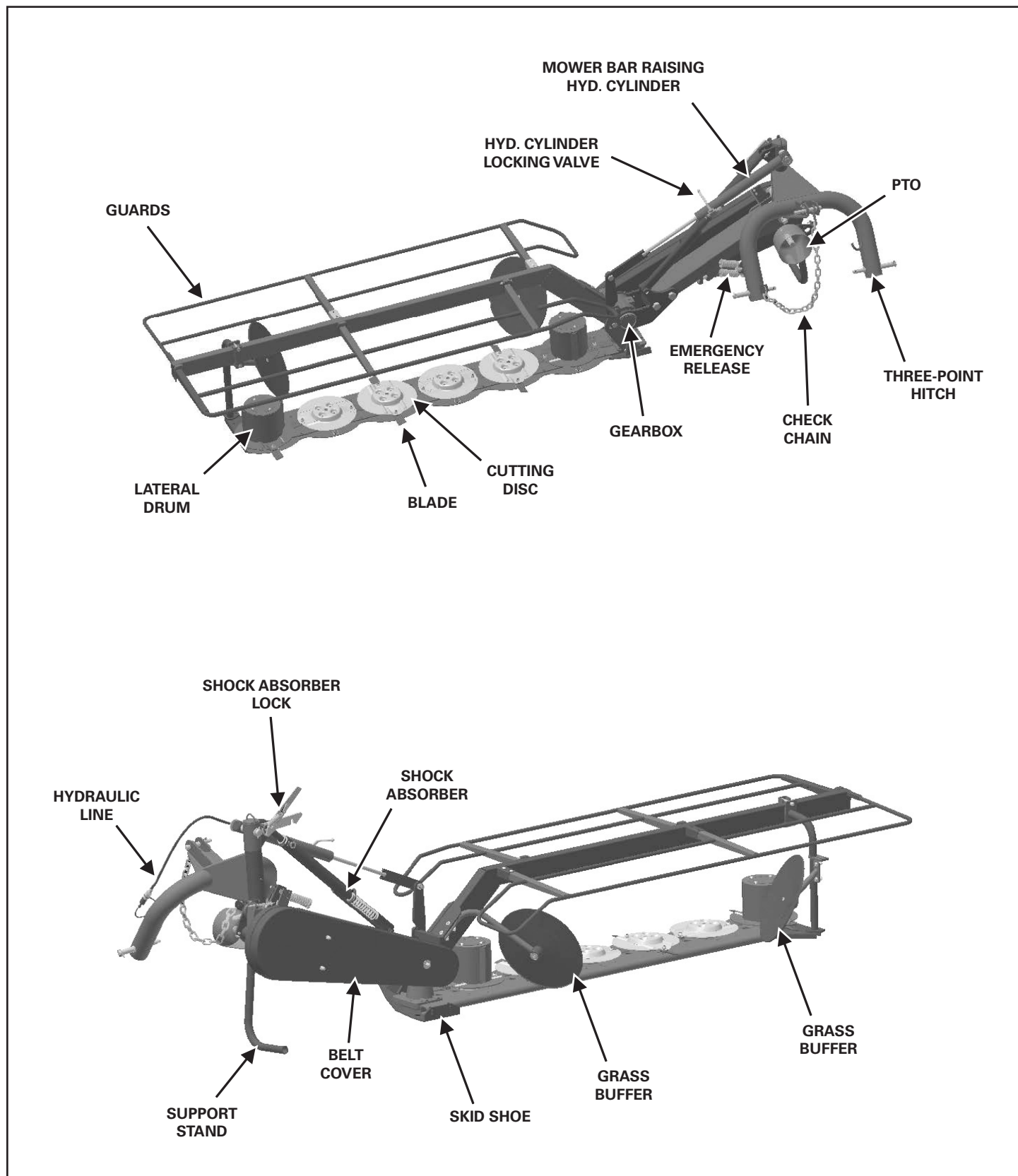
Always use your serial number when requesting information or when ordering parts.

Manual Storage

The operator and parts manual and other documents can be stored in the canister.

Equipment Identification

Figure 2



Safety

Safety Instructions.....	9
Safety Symbols.....	9
Operator Safety.....	9
Safety Rules.....	10
Machine Requirements And Capabilities.....	10
Transport Safety.....	11
Fire Prevention.....	12
Maintenance.....	12
Operation.....	12
Starting.....	12
Electrical.....	12
Hydraulic System.....	12
Fueling.....	12
Welding And Grinding.....	13
Fire Extinguishers.....	13
Safety And Equipment Signs.....	14
Safety Sign-Off Form.....	17

Farm King



Safety Instructions

Safety Symbols

	Safety Alert Symbol
This symbol with a warning statement means your safety is involved. Carefully read the message that follows.	



CAUTION

The signal word CAUTION on the machine and in the manuals indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.



DANGER

The signal word DANGER on the machine and in the manuals indicates a hazardous situation which, if not avoided, will result in death or serious injury.



WARNING

The signal word WARNING on the machine and in the manuals indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.



IMPORTANT

This notice identifies procedures which must be followed to avoid damage to the machine.

Operator Safety

For an operator to be qualified, he or she must not use drugs or alcohol which impair alertness or coordination while working. An operator who is taking prescription drugs must get medical advice to determine if he or she can safely operate a machine and the equipment.

Understand the written instructions, rules and regulations:

- The written instructions from Farm King include the Warranty Registration, Dealer Inspection Report, Operator And Parts Manual and machine signs (decals).
- Check the rules and regulations at your location. The rules may include an employer's work safety requirements. Regulations may apply to local driving requirements or use of a Slow Moving Vehicle (SMV) emblem. Regulations may identify a hazard such as a utility line.

Have Training with Actual Operation:

- Operator training must consist of a demonstration and verbal instruction. This training is given by the machine owner prior to operation.
- The new operator must start in an area without bystanders and use all the controls until he or she can operate the machine safely under all conditions of the work area. Always fasten seat belt before operating.

Know the Work Conditions:

- Clear working area of all bystanders, especially small children and all obstacles that might be hooked or snagged, causing injury or damage.
- Know the location of any overhead or underground power lines. Call local utilities and have all underground power lines marked prior to operation.
- Wear tight fitting clothing. Always wear safety glasses when doing maintenance or service.

Safety Rules

- Read and follow instructions in this manual and the tractor's Operators Manual before operating.
- Under no circumstances should young children be allowed to work with this equipment.
- This equipment is dangerous to children and persons unfamiliar with its operation.
- Stay clear of overhead power lines. Electrocuting can occur without direct contact.
- Check for overhead and / or underground lines before operating equipment (if applicable).
- In addition to the design and configuration of equipment, hazard control and accident prevention are dependent upon the awareness, concern, prudence and proper training of personnel involved in the operation, transport, maintenance and storage of equipment.
- Check that the equipment is securely fastened to the tractor / towing vehicle.
- Make sure all the machine controls are in the NEUTRAL position before starting the machine.
- Operate the equipment only from the operator's position.
- When learning to operate the equipment, do it at a slow rate in an area clear of bystanders, especially small children.
- DO NOT permit personnel to be in the work area when operating the equipment.
- The equipment must be used ONLY on approved tractors / transport vehicles.
- DO NOT modify the equipment in any way. Unauthorized modification may impair the function and / or safety and could affect the life of the equipment.
- DO NOT make any adjustments or repairs on the equipment while the machine is running.
- Keep shields and guards in place. Replace if damaged.

Machine Requirements And Capabilities

- Stop the machine and engage the parking brake. Install blocks in front of and behind the rear tires of the machine. Install blocks underneath and support the equipment securely before working under raised equipment.
- Use increased caution on slopes and near banks and ditches to prevent overturn.
- Make certain that the Slow Moving Vehicle (SMV) emblem is installed so that it is visible and legible.
- When transporting the equipment, use the flashing warning lights (if equipped) and follow all local regulations.
- Operate this equipment with a machine equipped with an approved Roll-Over Protective Structure (ROPS).
- Always wear seat belt when the ROPS is up. Serious injury or death could result from falling off the machine.
- Before leaving the operator's position:
 1. Always park on a flat level surface.
 2. Place all controls in neutral.
 3. Engage the parking brake.
 4. Stop engine.
 5. Wait for all moving parts to stop.
- Carry passengers only in designated seating areas.
- Never allow riders on the machine or equipment.
- Falling off can result in serious injury or death.
- Start the equipment only when properly seated in the operator's seat. Starting a machine in gear can result in serious injury or death.
- Operate the machine and equipment from the operator's position only.
- The parking brake must be engaged before leaving the operator's seat. Roll away can occur because the transmission may not prevent machine movement.

Transport Safety

- Do not exceed 20 mph (32 kph). Reduce speed on rough roads and surfaces.
- Comply with state and local laws governing highway safety and movement of machinery on public roads.
- The use of flashing amber lights is acceptable in most localities. However, some localities prohibit their use.
- Local laws should be checked for all highway lighting and marking requirements.
- Always yield to oncoming traffic in all situations and move to the side of the road so any following traffic may pass.
- Always enter curves or drive up or down hills at a low speed and at a gradual steering angle.
- Never allow riders on either tractor or equipment.
- Keep tractor / towing vehicle in a lower gear at all times when traveling down steep grades.
- Maintain proper brake settings at all times (if equipped).

Fire Prevention



Maintenance

- The machine and some equipment have components that are at high temperatures under normal operating conditions. The primary source of high temperatures is the engine and exhaust system. The electrical system, if damaged or incorrectly maintained, can be a source of arcs or sparks.
- Flammable debris (leaves, straw, etc.) must be removed regularly. If flammable debris is allowed to accumulate, it can cause a fire hazard. Clean often to avoid this accumulation. Flammable debris in the engine compartment is a potential fire hazard. The operator's area, engine compartment and engine cooling system must be inspected every day and cleaned if necessary to prevent fire hazards and overheating.
- All fuels, most lubricants and some coolant mixtures are flammable. Flammable fluids that are leaking or spilled onto hot surfaces or onto electrical components can cause a fire.

Operation

- The Farm King machine must be in good operating condition before use.
- Check all of the items listed on the service schedule under the 8 hour column before operation. (See Maintenance section)
- Do not use the machine where exhaust, arcs, sparks or hot components can contact flammable material, explosive dust or gases.

Starting

- Do not use ether or starting fluids on any engine that has glow plugs. These starting aids can cause explosion and injure you or bystanders.
- Use the procedure in the tractor's operator's manual for connecting the battery and for jump starting.

Electrical



- Check all electrical wiring and connections for damage. Keep the battery terminals clean and tight. Repair or replace any damaged part or wires that are loose or frayed.
- Battery gas can explode and cause serious injury. Do not jump start or charge a frozen or damaged battery. Keep any open flames or sparks away from batteries. Do not smoke in battery charging area.

Hydraulic System

- Check hydraulic tubes, hoses and fittings for damage and leakage. Never use open flame or bare skin to check for leaks. Hydraulic tubes and hoses must be properly routed and have adequate support and secure clamps. Tighten or replace any parts that show leakage.
- Always clean fluid spills. Do not use gasoline or diesel fuel for cleaning parts. Use commercial nonflammable solvents.

Fueling



- Stop the engine and let it cool before adding fuel. No smoking. Do not refuel a machine near open flames or sparks. Fill the fuel tank outdoors.

Welding And Grinding

- Always clean the machine and equipment, disconnect the battery, and disconnect the wiring from the machine controls before welding. Cover rubber hoses, battery and all other flammable parts. Keep a fire extinguisher near the machine when welding.
- Have good ventilation when grinding or welding painted parts. Wear dust mask when grinding painted parts. Toxic dust or gas can be produced.
- Dust generated from repairing nonmetallic parts such as hoods, fenders or covers can be flammable or explosive. Repair such components in a well ventilated area away from open flames or sparks.

Fire Extinguishers

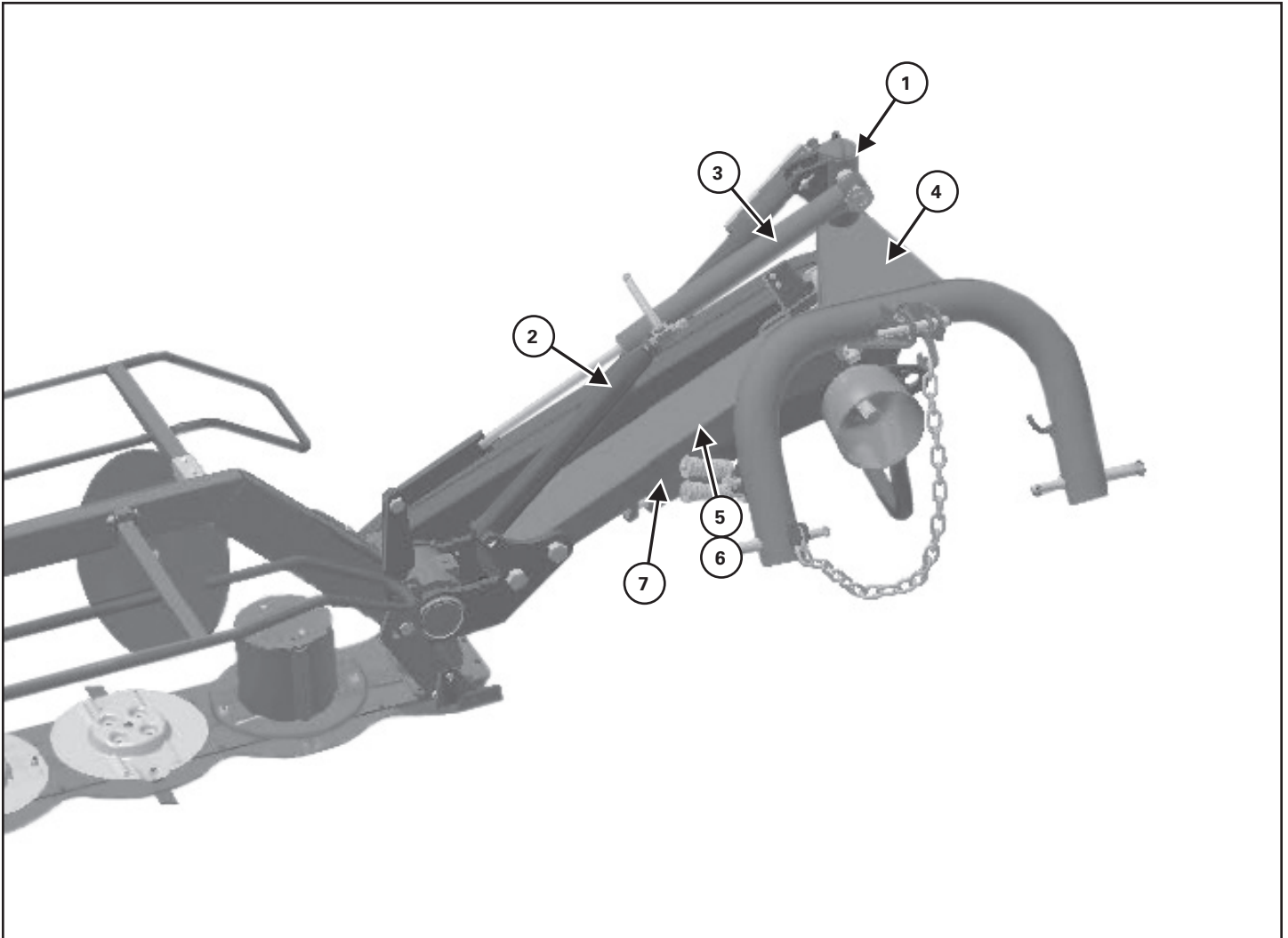


- Know where fire extinguishers and first aid kits are located and how to use them. Inspect the fire extinguisher and service the fire extinguisher regularly. Obey the recommendations on the instructions plate.

Safety And Equipment Signs

Follow the instructions on all the signs (decals) that are on the equipment. Replace any damaged signs and be sure they are in the correct locations. Equipment and safety signs are available from your Farm King equipment dealer.

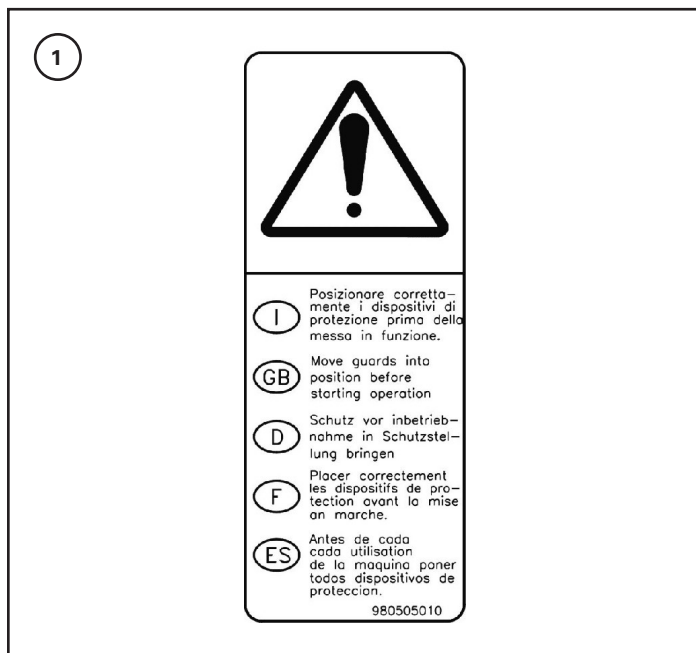
Figure 3



Identification [Figure 3]:

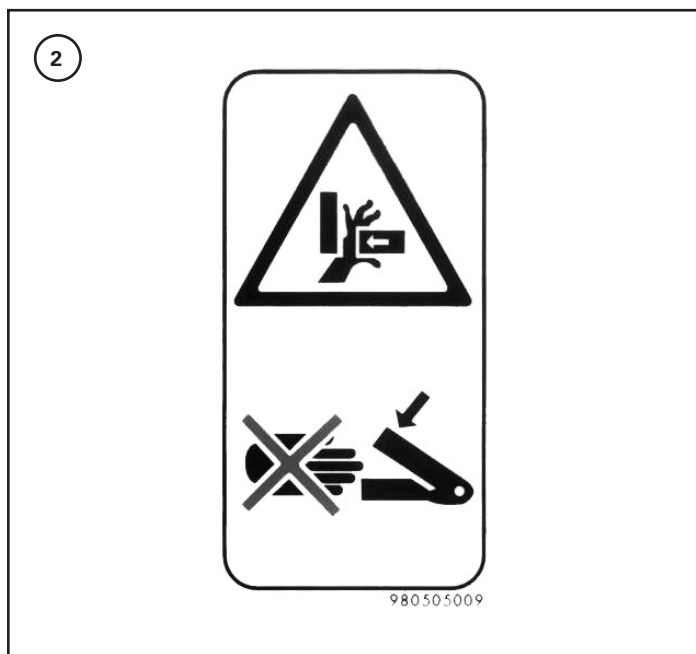
Vertical axis (Item 1). PN: 980505010.

- Move guards into position before starting operation.



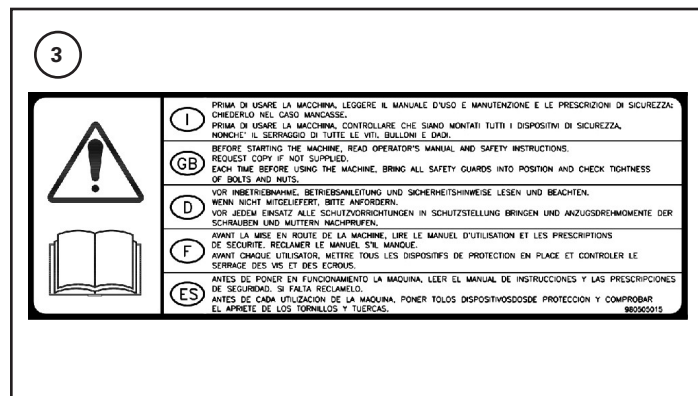
Shock absorber (Item 2). PN: 980505009.

- Pinching hazard.



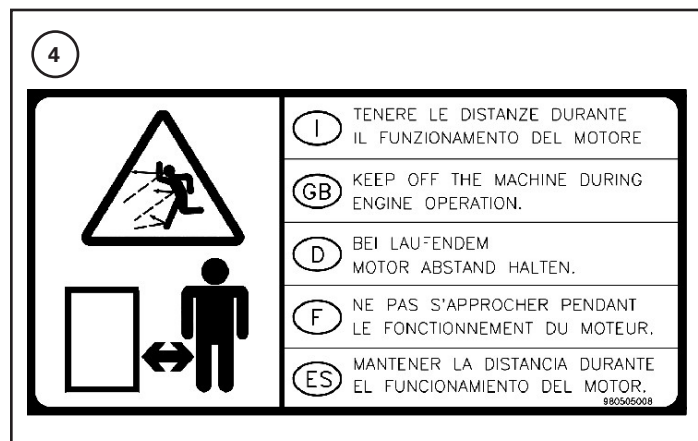
Hydraulic cylinder (Item 3). PN: 980505015.

- Read operator's manual.



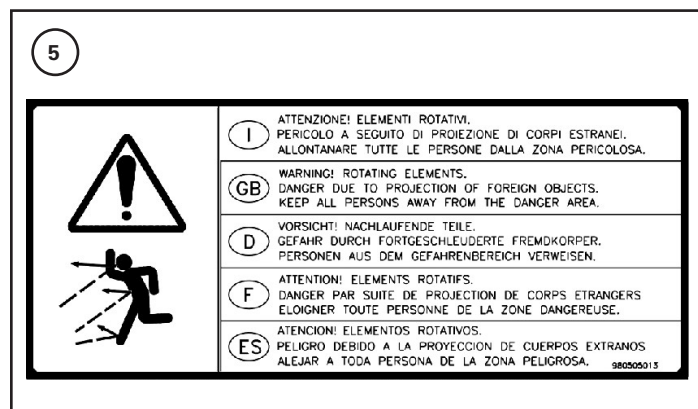
Three-point hitch frame (Item 4). PN: 980505008.

- Keep off machine during operation.



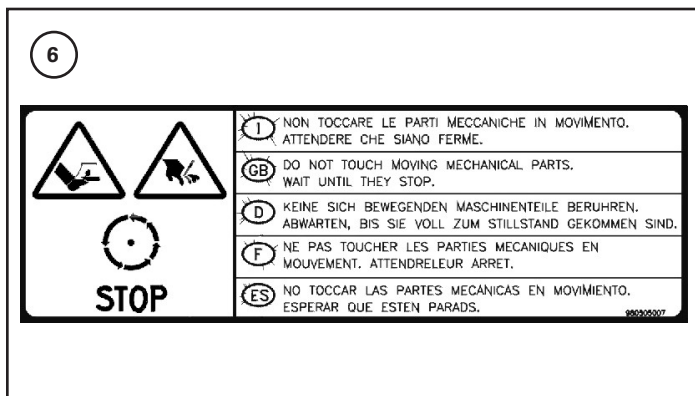
Lift frame top (Item 5). PN: 980505013.

- Warning! Rotating elements.



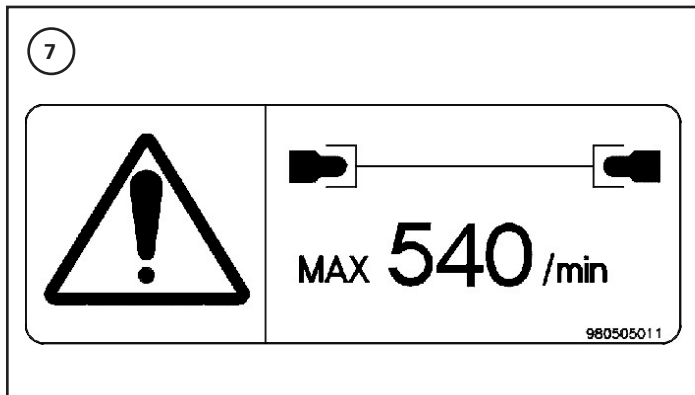
Lift frame top (Item 6). PN: 980505007.

- Do not touch moving mechanical parts.



Lift frame side (Item 7). PN: 980505011.

- PTO max 540 rpm.



Safety Sign-Off Form



WARNING

Instructions are necessary before operating or servicing equipment. Read and understand the Operator And Parts Manual and safety signs (decals) on equipment. Follow warnings and instructions in the manuals when making repairs, adjustments or servicing. Check for correct function after adjustments, repairs or service. Untrained operators and failure to follow instructions can cause injury or death.

Farm King follows the general Safety Standards specified by the American Society of Agricultural and Biological Engineers (ASABE) and the Occupational Safety and Health Administration (OSHA). Anyone who will be operating and / or maintaining the equipment must read and clearly understand ALL Safety, Operating and Maintenance information presented in this manual.

Annually review this information before the season start-up and make these periodic reviews of SAFETY and OPERATION a standard practice for all of your equipment. An untrained operator is unqualified to operate this machine.

The following sign-off sheet is provided for your record and to show that all personnel who will be working with the equipment have read and understand the information in this Operator And Parts Manual and have been instructed in the operation of the equipment.

SIGN-OFF SHEET		
Date	Employee's Signature	Employer's Signature

Farm King



Operation

Pre-Operation Checklist.....	21
Tractor Requirements.....	21
Entering The Operator's Position.....	22
Leaving The Operator's Position.....	22
Connecting To Tractor.....	22
Connecting The PTO Driveline.....	24
PTO Driveline Length Check.....	25
PTO Driveline Bottoming Out Check.....	25
Reducing The PTO Driveline Length.....	26
PTO Driveline Engagement Check.....	27
Connecting Hydraulic Lines.....	28
Adjustments.....	29
Skid Shoe Height.....	29
Shock Absorber.....	30
Overload Safety Bar.....	30
Belt Tightness.....	31
Working Position.....	31
Operation.....	32
Start-up.....	32
Cutting Process.....	32
Field Precautions.....	32
Finishing Operation.....	33
Transporting.....	34
Guidelines.....	34
Transport Position.....	35

Farm King



Pre-Operation Checklist

Before operating the equipment for the first time and each time thereafter, check the following items:

1. Lubricate the equipment per the Maintenance Section schedule.
2. Check the oil level reservoir per the Maintenance Section. Fill as needed.
3. Check condition of all hydraulic components for leaks. Repair as needed.
4. Check fasteners for tightness.
5. Check the equipment hitch for damaged, loose or missing parts. Repair as needed before operation.
6. Inspect all safety reflective decals, slow moving vehicle decals and lights where applicable.
7. Verify that the safety lock is in the unlocked position.
8. Verify the equipment three-point hitch is properly connected to the tractor with safety chain.



WARNING

AVOID INJURY OR DEATH

Wear safety glasses to prevent eye injury when any of the following conditions exist:

- When fluids are under pressure.
- Flying debris or loose material is present.
- Engine is running.
- Tools are being used.

Wear hearing protection to prevent hearing loss when operating.

Tractor Requirements

Tractors must satisfy the following requirements.

MDN4 Models:

- Cat. I / II three-point hitch
- 35 HP

MDN5 Models:

- Cat. I / II three-point hitch
- 40 HP

MDN6 Models:

- Cat. I / II three-point hitch
- 45 HP

MDN7 Models:

- Cat. I / II three-point hitch
- 50 HP



WARNING

AVOID INJURY OR DEATH

- Do NOT exceed 540 RPM PTO.
- Keep PTO shields and all guards in place.
- Keep away from moving parts.
- Keep bystanders away.



IMPORTANT

Transport vehicle / tractor must have adequate braking capacity to safely control trailing load during road travel. Do not exceed 20 mph (32 km/h) during transport.

Entering The Operator's Position

Enter the operator's position, start the engine, and release the parking brake.



IMPORTANT

Follow the instructions in your tractor's operation manual for the correct procedure.

Leaving The Operator's Position

Always perform the following steps when leaving the operator's position:



WARNING

AVOID INJURY OR DEATH

Before you leave the operator's position:

- Always park on a flat level surface.
- Place all controls in NEUTRAL.
- Engage the park brake.
- Stop the engine and remove the key.
- Wait for all moving parts to stop.

Connecting To Tractor

Always inspect the tractor hitch and implement hitch before connecting. See the tractor owner's manual.

Move the tractor into position in front of the equipment.



WARNING



AVOID INJURY OR DEATH

Keep fingers and hands out of pinch points when connecting and disconnecting equipment.



WARNING



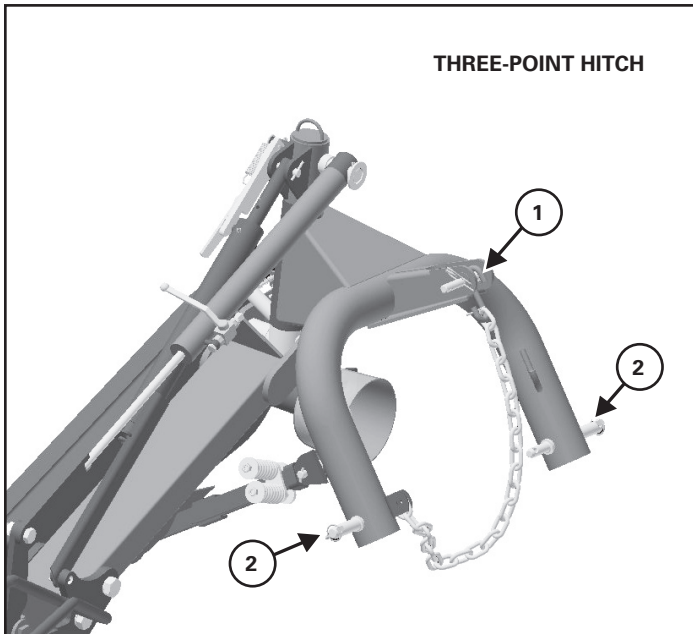
AVOID INJURY OR DEATH

Before moving the tractor, look in all directions and make sure no bystanders, especially small children are in the work area.

Do not allow anyone between the tractor and the equipment when backing up to the equipment for connecting.

Move the tractor draw bar into the storage position or remove (if necessary) to prevent interference with operation (see the tractor's operator's manual for the correct procedure).

Figure 4



Remove the top implement mounting pin (Item 1) and lynch pin from the equipment [Figure 4].

Remove the lynch pins from the left and right lower mounts (Item 2) [Figure 4].

Enter the operator's position. Move the tractor backwards, aligning the tractor's three-point hitch and equipment's three-point mounts. Leave the operator's position.

Install the left and right lower three-point mounts of the tractor to the equipment's left and right lower mounting pins (Cat. I or Cat. II).

Reinstall the lynch pins.

Lower the top link of the three-point hitch until it aligns with the equipment's upper mount.

Reinstall the mounting pin and lynch pin.

Note: It may be necessary to lengthen or shorten the top link to align it with the equipment's mounting hole (see the tractor's operator's manual for the correct procedure).

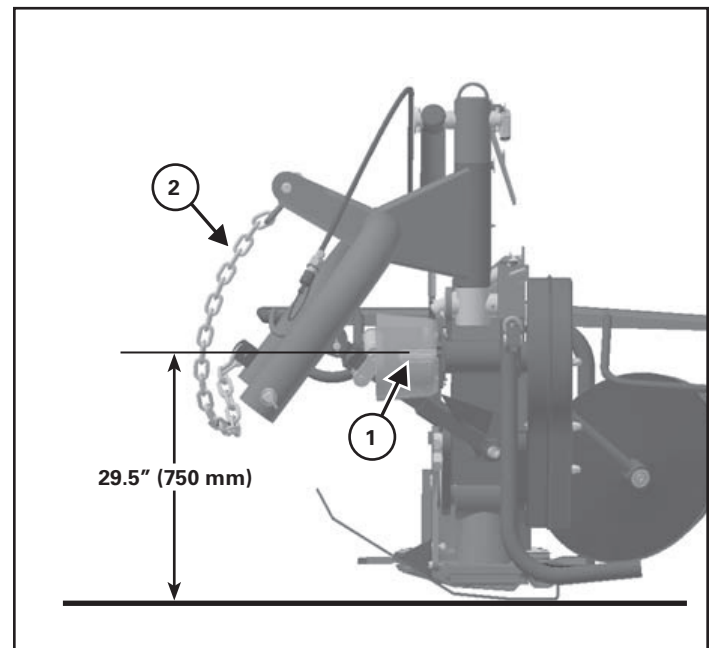
Adjust the lower link sway chains or blocks on the tractor to restrict side movement of the equipment when operating.



IMPORTANT

Always use a hitch pins of adequate size and strength and a retaining pin with a locking device.

Figure 5



If the tractor is equipped with a limiting device for the hydraulic lift:

- Adjust low position of the three-point hitch so the PTO connection (Item 1) is 29.5" (750 mm) from the ground [Figure 5].

If the tractor is NOT equipped with a limiting device perform the following:

- Lower the machine so the PTO connection is slightly over 29.5" (750 mm) from the ground.
- Hook the supplied check chain (Item 2) to the three-point hitch [Figure 5].

Connecting The PTO Driveline

Stop the engine and leave the operator's position.

Remove the PTO driveline from the storage position (if applicable).

Note: Clean and grease tractor's PTO shaft and PTO driveline coupling each time driveline is connected.



WARNING

AVOID INJURY OR DEATH

Warnings on the machine and in the manuals are for your safety. Failure to obey warnings can cause serious injury or death.

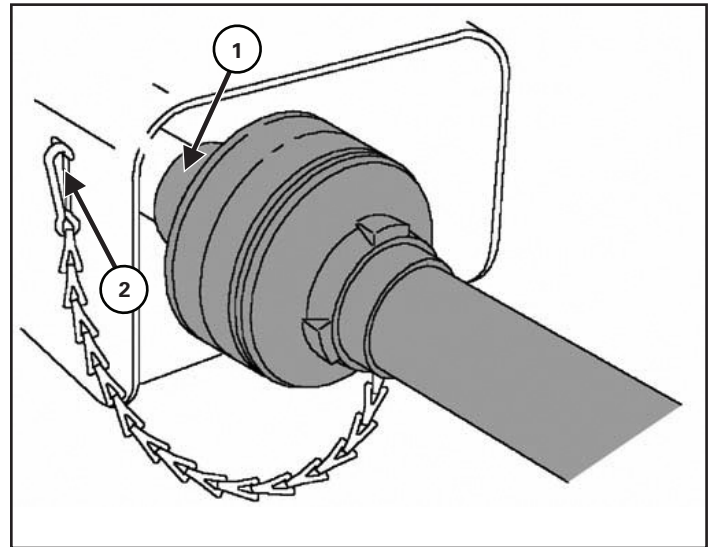


IMPORTANT

Improper hitch installation can cause PTO driveline damage.

- Do not modify the three point hitch.
- Make sure the PTO driveline is of adequate length and that u-joints are in the correct phase.

Figure 6



Retract the collar (Item 1) and slide the PTO driveline onto the tractor PTO shaft. Release the collar and the driveline will lock onto the shaft. Push and pull the PTO driveline back and forth several times and make sure it is securely attached to the PTO shaft [Figure 6].

Install PTO driveline safety chain (Item 2) [Figure 6].

Note: The PTO driveline must have a means to retain it to the PTO shaft on the tractor.



WARNING



- Do NOT exceed 540 RPM PTO.
- Keep PTO shields and all guards in place.
- Keep away from moving parts.
- Keep bystanders away.

PTO Driveline Length Check

Due to variations in distances between tractor PTO shafts and implement input shafts, drive lines may need to be shortened or a longer shaft may be required.

When fitting the implement to the tractor, the PTO driveline, with telescoping sections, must be inspected. When the sections are at the most compressed operating position, the sections must not "bottom out".

At its shortest length, there must be at least 2 in. (50.8 mm) of clearance between each section end and opposite section end at the most compressed operating position.

When the sections are at the most extended position, there must be sufficient engagement between the sections.

At its farthest operating extension, a minimum section engagement of 33% of shaft length must be maintained.



WARNING

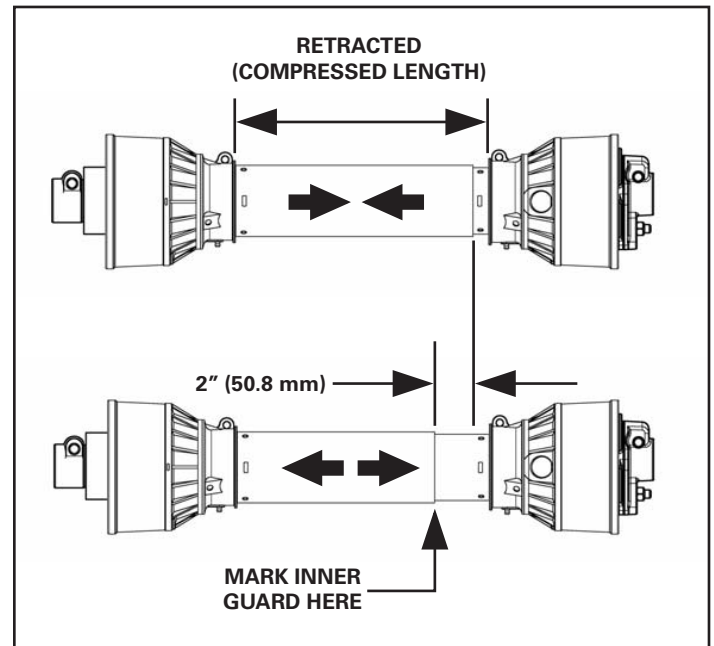
AVOID INJURY OR DEATH

- Do NOT exceed the rated implement PTO speed.
- Stay clear of rotating driveline.
- Keep bystanders away. Keep hands, feet, clothing and long hair away.
- Keep PTO shields and all guards in place.
- Disengage PTO, move the tractor controls to the Neutral position, stop the engine and make sure all rotating components are stopped before leaving the operator's position.
- Do NOT service the tractor or implement with the PTO engaged.
- Do NOT service the implement in a raised position unless properly blocked and with all rotating components stopped.
- Disengage PTO for road travel.

PTO Driveline Bottoming Out Check

Stop the engine and leave the operator's position. Make sure the PTO driveline and all rotating components have come to a complete stop before leaving the operator's position.

Figure 7



1. Disconnect the PTO driveline from the tractor and slide the PTO driveline together until fully retracted (compressed).
2. Measure the retracted (compressed) length of PTO driveline [Figure 7].
3. Extend the PTO driveline 2 in. (50.8 mm) from the retracted length and place a mark on the inner guard at the end of the outer guard [Figure 7].
4. Reattach the PTO driveline to the tractor PTO shaft.
5. Enter the operator's position. Start the engine.
6. With the rear PTO DISENGAGED, raise and lower the implement and watch the PTO driveline extend and retract.
7. If the outer PTO driveline guard slides in (retracts) over the mark at any point of travel, the PTO driveline needs to be shortened.

Reducing The PTO Driveline Length

Stop the engine and leave the operator's position. Make sure the PTO driveline and all rotating components have come to a complete stop before leaving the operator's position.



AVOID INJURY OR DEATH

- Do NOT exceed the rated implement PTO speed.
- Stay clear of rotating driveline.
- Keep bystanders away.
- Keep hands, feet, clothing and long hair away.
- Keep PTO shields and all guards in place.
- Disengage PTO, move the tractor controls to the Neutral position, stop the engine and make sure all rotating components are stopped before leaving the operator's position.
- Do NOT service the tractor or implement with the PTO engaged.
- Do NOT service the implement in a raised position unless properly blocked and with all rotating components stopped.
- Disengage PTO for road travel.

Remove the PTO driveline from the tractor and place in storage position (if equipped).

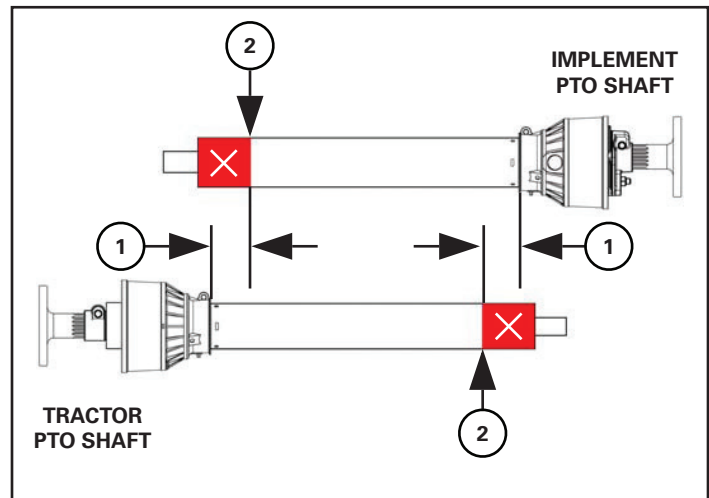
Enter the operator's position.

Start the engine.

Raise or lower the three-point implement to get the shortest distance between the tractor PTO shaft and three-point implement gearbox PTO shaft. Stop the engine and leave the operator's position.

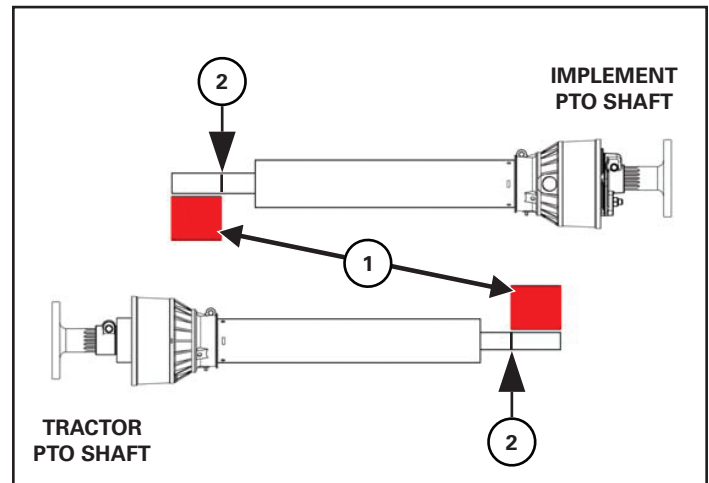
Pull the PTO driveline apart and reinstall each individual section; one half to the tractor PTO shaft and one half to the implement gearbox PTO shaft.

Figure 8



1. Hold PTO driveline sections parallel to one another and measure back 2 in. (50.8 mm) (Item 1) from the yoke of each section and place mark on opposite section. Cut the plastic shield at this length (Item 2) [Figure 8].

Figure 9



2. Using the plastic guard lengths that were cut off in, align the cut off lengths (Item 1) with the end of the inner & outer shafts. Place a mark (Item 2) on the inner & outer shafts and cut the inner & outer shafts off at this length [Figure 9].
3. Round off all sharp edges and debur.
4. Thoroughly grease and install the PTO driveline halves together.
5. Recheck for proper operation.

PTO Driveline Engagement Check

Stop the engine and leave the operator's position. Make sure the PTO driveline and all rotating components have come to a complete stop before exiting the tractor.



WARNING

AVOID INJURY OR DEATH

- Do NOT exceed the rated implement PTO speed.
- Stay clear of rotating driveline.
- Keep bystanders away.
- Keep hands, feet, clothing and long hair away.
- Keep PTO shields and all guards in place.
- Disengage PTO, move the tractor controls to the Neutral position, stop the engine and make sure all rotating components are stopped before leaving the operator's position.
- Do NOT service the tractor or implement with the PTO engaged.
- Do NOT service the implement in a raised position unless properly blocked and with all rotating components stopped.
- Disengage PTO for road travel.

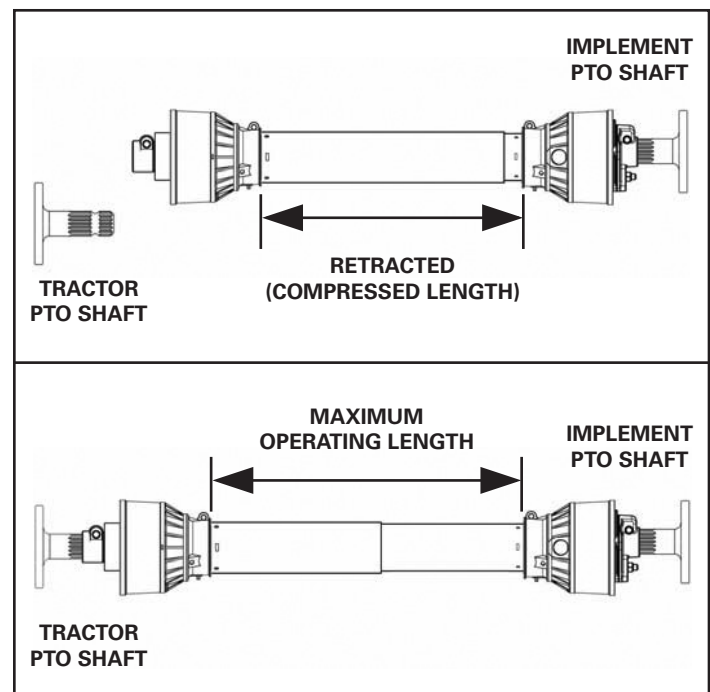
1. Disconnect the PTO driveline from the tractor and fully slide the driveline sections together (retracted).
2. Measure the retracted (compressed) length of the PTO driveline between the bases of the plastic guards [Figure 10].
3. Multiply the retracted driveline length by 1.667 to determine the PTO driveline Maximum Operating Length. (i.e.: 25.5 in. (647.7 mm) x 1.667= 42.5 in. (1079.7 mm) Maximum Operating Length).
4. Attach the PTO driveline to the tractor PTO output shaft.
5. Enter the operator's position.

6. With the PTO driveline attached, position the three-point implement to where the telescoping PTO driveline is at its maximum operating extension.
7. Stop the engine and leave the operator's position. Make sure the PTO driveline and all rotating components have come to a complete stop before leaving the operator's position.
8. Measure the length of the PTO driveline between the bases of the plastic shields to determine the maximum operating length [Figure 10].

If the measured maximum operating length is less than the Maximum Operating Length calculation (from Step 3), the PTO driveline has adequate engagement

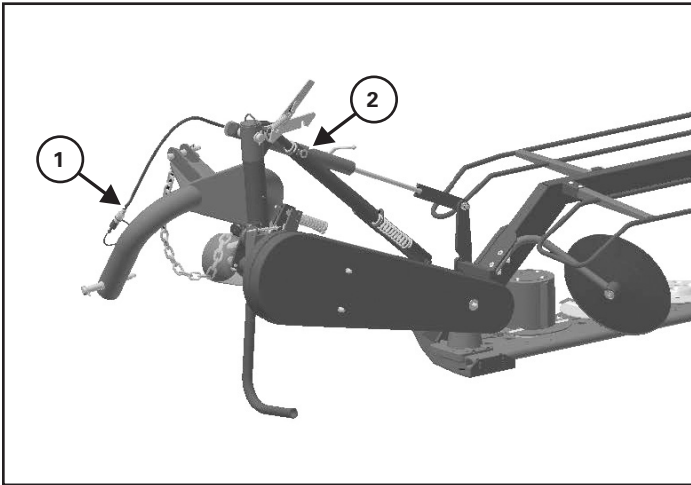
If the measured maximum operating length is equal to or more than the Maximum Operating Length calculation (from Step 3), the PTO driveline does not have adequate engagement and should be replaced with a longer driveline. See your Farm King dealer for available PTO drive lines.

Figure 10



Connecting Hydraulic Lines

Figure 11



Connect the hydraulic line (Item 1) from the cutting bar lift cylinder (Item 2) [Figure 11].

Make sure the quick couplers are fully engaged. If the quick couplers do not fully engage, check to see that the couplers are the same size and type.



WARNING

HIGH PRESSURE FLUID HAZARD

To prevent serious injury or death from high pressure fluid:

- Relieve pressure on system before repairing or adjusting.
- Wear proper hand and eye protection when searching for leaks. Use wood or cardboard instead of hands.
- Keep all components in good repair.



IMPORTANT

Contain and dispose of any oil leakage in an environmentally safe manner.

Thoroughly clean the quick couplers before making connections. Dirt can quickly damage the system.



WARNING

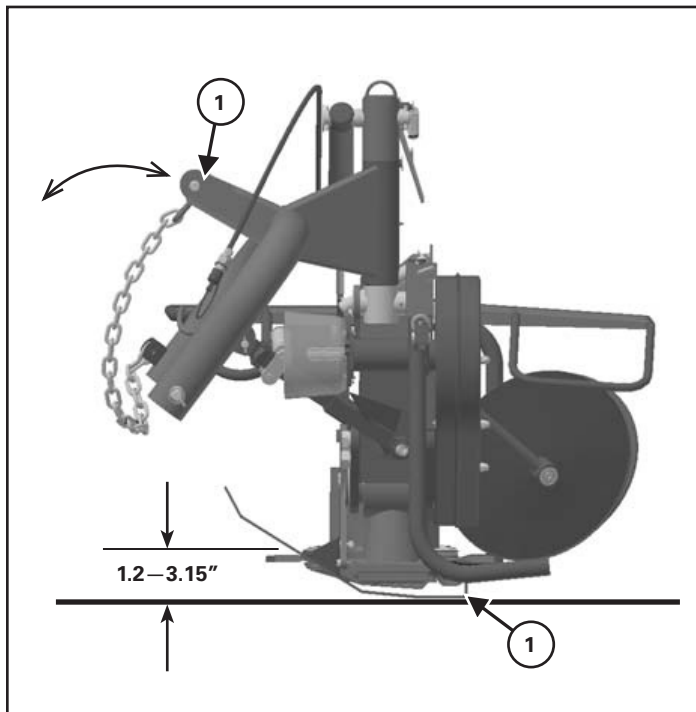
AVOID BURNS

Hydraulic fluid, tubes, fittings and quick couplers can get hot when running equipment. Be careful when connecting and disconnecting quick couplers.

Adjustments

Skid Shoe Height

Figure 12



Adjust the cutting height by moving the skid shoes (Item 1) to one of three mounting positions. The three positions allow cutting at 1.2–3.15" (3–8 cm) [Figure 12].

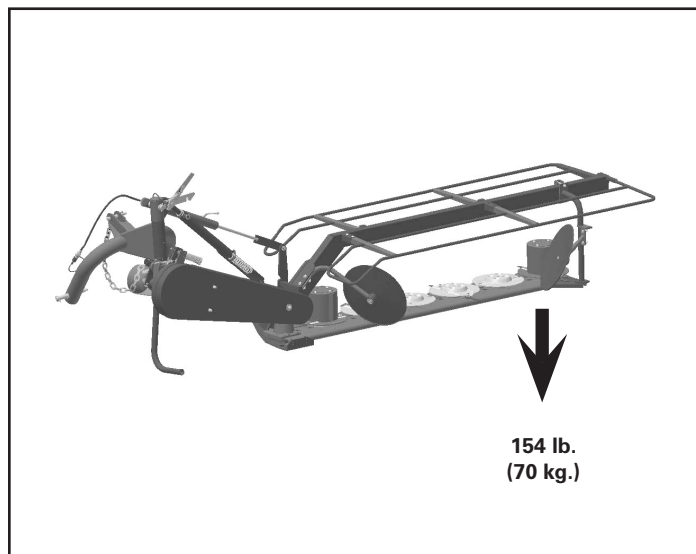
Adjust the link at the upper three-point connection (Item 2) to change the inclination of the mower front to back [Figure 12].

IMPORTANT

Always check the down pressure of the cutter bar on the ground. Pressure must not exceed 154 lb (70 kg) for best results.

Adjust the height of the suspension as needed to avoid excessive wear.

Figure 13

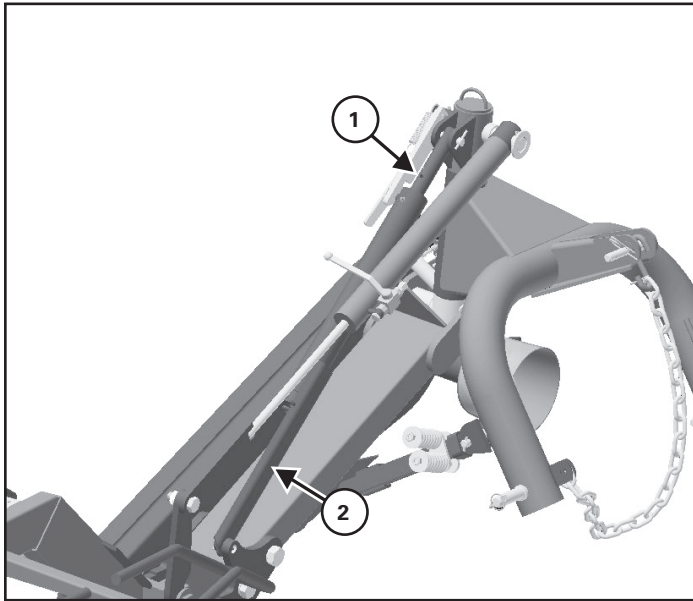


The weight of the cutting bar on the ground must not exceed 154 lb. (70 kg.) [Figure 13].

NOTE: Adjust the suspension according to characteristics of the soil and working speed.

Shock Absorber

Figure 14



The shock absorber is located beneath the hydraulic lift cylinder. The shock absorber features enable the mower bar to react in different ways according to the terrain type.

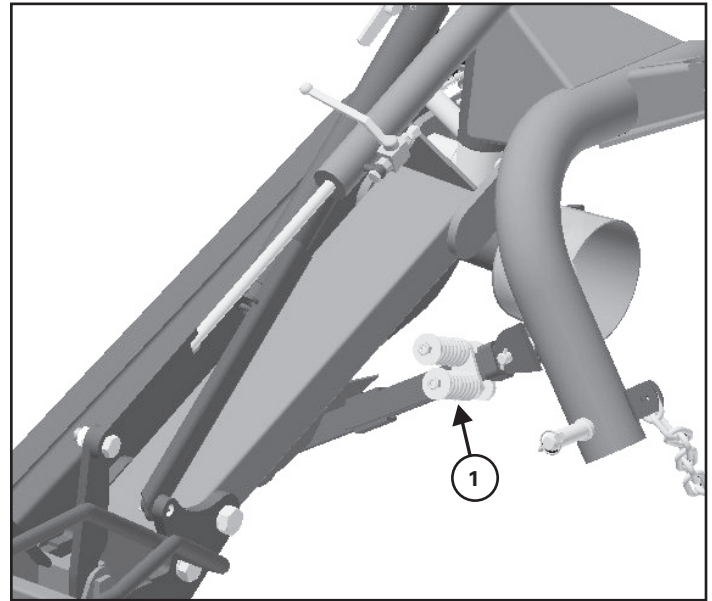
Disengage the locking device (Item 1) to adjust the shock absorber and when entering working position **[Figure 14]**.

The shock absorber is equipped with a spring fitted with an index (Item 2). The index displays the adjustment position **[Figure 14]**.

In general, the index should be set to the green position following the characteristics of the soil and speed.

Overload Safety Bar

Figure 15

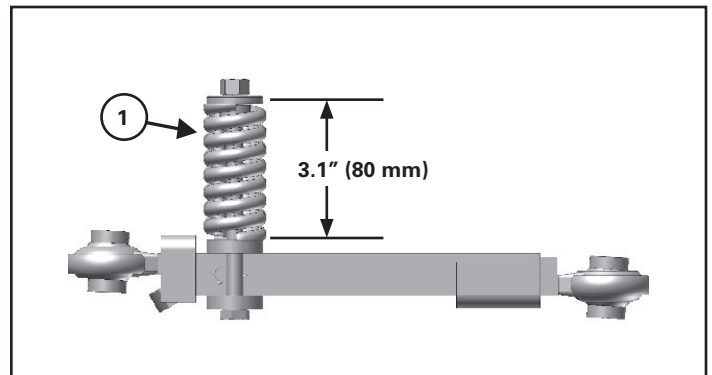


The overload safety bar (Item 1) has been designed to permit the bar to snap back 45° whenever an obstacle is encountered **[Figure 15]**.

When this happens, the operator must disengage the PTO and immediately stop the tractor. Backup slightly in order to make the safety device retract back into its normal position.

Always keep the device in good condition. Only adjust the pre-loading of the safety device spring when absolutely necessary. This system has been adjusted to a standard setting by the Manufacturer.

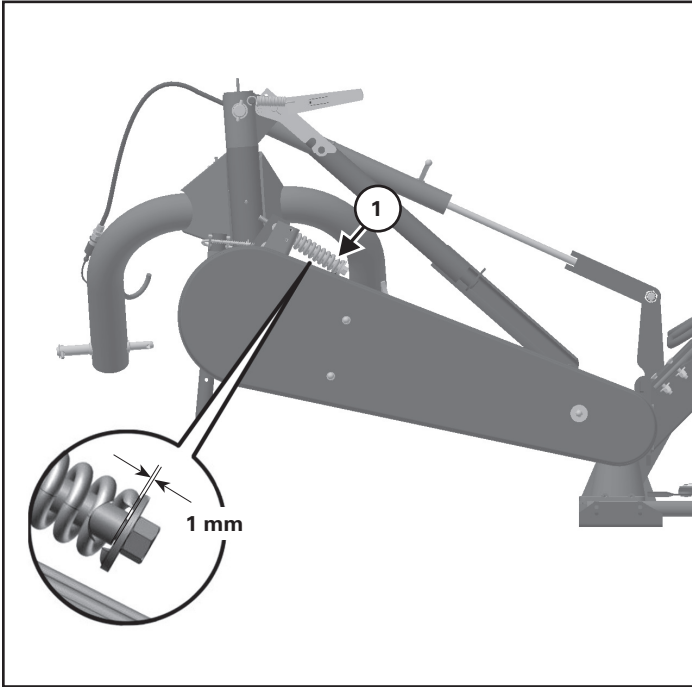
Figure 16



The compression of the spring (Item 1) must be 3.1" (80 mm) **[Figure 16]**.

Belt Tightness

Figure 17



The tightness of the v-belts must be checked frequently, especially when new.

Whenever one v-belt is observed to be defective, the entire set must be replaced.

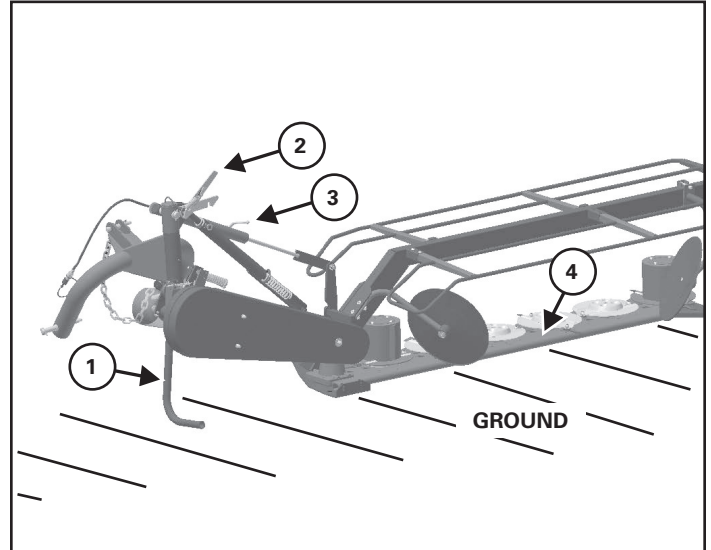
Tighten the v-belts using the adjustment spring and bolt (Item 1) **[Figure 17]**.

The spring must be compressed so there is 1 mm of space between the inner cylinder of the spring and the end spacer.

This system has been adjusted to a standard setting by the Manufacturer.

Working Position

Figure 18



Hitch the mower to the tractor. Slightly raise the mower off the ground.

Raise the support stand (Item 1) and secure in the highest position (work position) **[Figure 18]**.

Disengage the shock absorber lock (Item 2). Open the valve (Item 3) of the hydraulic lift cylinder **[Figure 18]**.

Act on the hydraulic cylinder to lower the mower bar (Item 4) to the ground **[Figure 18]**.

Operation

Start-up

Move the tractor and equipment to work area. Lower the mower to working position.

Adjust engine speed to low idle. Slowly engage the tractor PTO to start blade rotation.

Slowly increase engine speed to 540 RPM. Do not exceed 540 RPM.



WARNING

AVOID INJURY OR DEATH

- **Do NOT exceed 540 RPM PTO speed.**
- **Keep PTO shields and all guards in place.**
- **Keep away from moving parts. Keep bystanders away.**
- **Verify that the PTO driveline does not contact the equipment when raising and lowering or when cornering.**

Cutting Process

Start driving forward at the desired speed. Watch for and avoid obstructions that may cause damage to the mower.

The mower works best on dry grass. Slower cutting speed and occasional cleaning may be required on damp or wet grass.

NOTE: Loss of power / PTO speed will result in uneven cutting. Adjust travel speed as required for material being cut, while maintaining the rated operating PTO speed (540 rpm PTO speed).



IMPORTANT

Recommended operating ground speed is 5 mph (8 km/h). Use slower speeds when operating around inclines, rough terrain, or obstacles.

Field Precautions

- Inspect the ground on which you will do the job and remove, if possible, any obstacles.
- Make sure the soil and crop conditions and keep in mind that you cannot operate when wet.
- Be aware that on sloping ground, it is preferable to work in an upwards direction.
- Before starting the engine of the tractor, make sure the transmission is in neutral.
- Use care when traveling, especially when operating on rough terrain.
- If during the work you hear shots, or abnormal vibration of the machine immediately turn off the engine of the tractor and make sure of the causes.
- Ensure that around the machine there are not other people, and special attention should be paid to children and pets.
- Before starting the engine make sure that all guards are fixed in their position.
- For work choose a speed that is compatible with the soil conditions.
- The dust created by the use of the machine can cause respiratory problems. Keep doors and windows of the cabin closed during operation.
- In the absence of the cabin it is advisable to use protective masks and clothing to cover up the body to avoid skin irritation.
- During the work, especially with crops which reach a considerable height, pay attention to the possible presence of people and animals.
- Avoid going into corners with a high speed. Pay attention to problems of stability of the machine in raising the bar when operating on sloping ground.

Finishing Operation

When the desired work has been completed, stop the tractor, lower the engine speed and disengage the tractor PTO.

Fully raise the mower into the transport position and move the tractor and equipment to next work site.



CAUTION

Do not fully raise the implement when the PTO is engaged. Damage to the tractor and implement may occur.

When disconnecting from the tractor:

- Park on a firm level area and clean the mower
- Lower the mower until the load is off the hitch arms
- Lower the support stand.
- Disconnect the hitch arms and the PTO shaft
- Cover the mower for storage to prevent rust

Transporting

Guidelines

Always comply with federal, state, local and provincial laws regarding the transport of farm equipment on public roadways.

Verify safety chain is installed and properly connected before transporting equipment.

Verify that the SMV (Slow Moving Vehicle) emblem, all lights and reflectors are clean and visible.

Verify that the tractor / tow vehicle is approved for transporting the equipment and that the equipment is securely attached to the tractor / tow vehicle.

Use caution. The equipment can alter the stability of the vehicle and cause difficulty in driving.



WARNING

AVOID INJURY OR DEATH

- Disengage PTO for road travel.
- Keep PTO shields and all guards in place
- Keep bystanders away.
- Do not allow riders.
- Always use hazard flashers on the tractor when transporting unless prohibited by law.
- Always follow local regulations when transporting on public roadways. Check with your local authorities.



IMPORTANT

Never exceed 20 mph (32 kph).



WARNING

Use of an unapproved hitch or tractor / tow vehicle can result in loss of control, leading to serious injury or death.

Tractor / tow vehicle and hitch must have the rated capacity to tow equipment.

The ratio of the tractor / tow vehicle weight to the loaded equipment weight plays an important role in defining acceptable travel speed.

TRAVEL SPEED - Acceptable travel speed.

WEIGHT RATIO - Weight of fully equipped or loaded implement(s) relative to weight of tractor / tow vehicle.

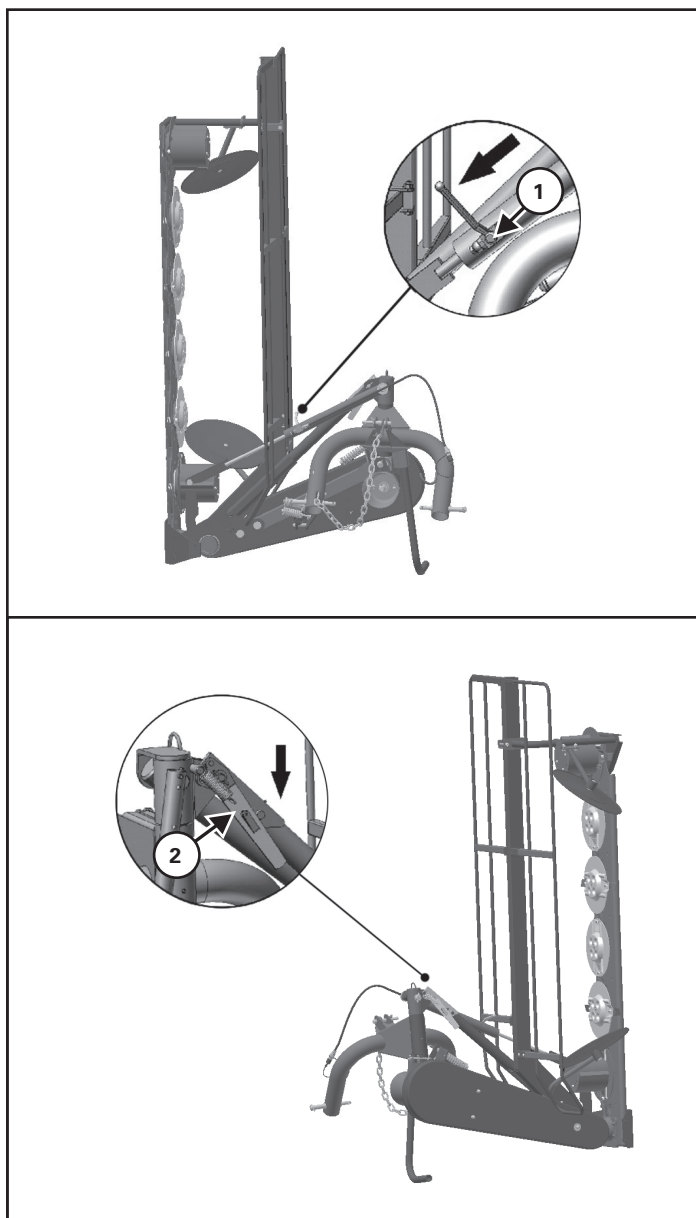
Travel Speed	Weight Ratio
20 mph (32 kph)	Less than 1 to 1
10 mph (16 kph)	Less than 2 to 1
DO NOT TOW	More than 2 to 1

Transport Position

Before entering transport position:

- Remove any persons from the working area.
- Disengage PTO.
- Wait for all rotating components to fully stop.

Figure 19



To configure the machine into transport position, perform the following **[Figure 19]**:

- Pull the rope to release the working position latch.
- Lift the machine into the up-right position with the hydraulic lift of the tractor.
- Close the valve (Item 1) of the hydraulic cylinder.
- Close the lock (Item 2) of the shock absorber.



CAUTION

Do not fully raise the implement when the PTO is engaged. Damage to the tractor and implement may occur.

Farm King



Maintenance

Service Schedule Chart.....	39
Troubleshooting.....	40
Recommendations.....	41
Lubrication.....	42
Cutting Bar Oil.....	43
Gearbox Oil.....	43
Cutting Blades.....	44
Storage.....	46
Beginning Season Service.....	46
End Season Service.....	46

Farm King



Service Schedule Chart

Maintenance work must be done at regular intervals. Failure to do so will result in excessive wear and early failures. The service schedule is a guide for correct maintenance of the equipment.

#	DESCRIPTION	SERVICE PROCEDURES				
		CHECK	CLEAN	LUBE	CHANGE	DRAIN
DAILY MAINTENANCE (EVERY 10 HOURS OF USE)						
1	FASTENER TIGHTNESS	✓				
2	CUTTING BLADES	✓				
3	UNIVERSAL JOINT SPIDER			✓		
4	VERTICAL CRANKSHAFT			✓		
5	AXIS BEAM			✓		
WEEKLY (EVERY 20 HOURS OF USE OF USE)						
6	UNIVERSAL JOINT EXTENSION TUBES			✓		
WEEKLY (EVERY 50 HOURS OF USE OF USE)						
7	CUTTING BAR OIL	✓				
8	GEAR BOX OIL	✓				
9	UNIVERSAL JOINT FORKS			✓		
10	SAFETY RELEASE BLADES			✓		
ANNUALLY (EVERY 200 HOURS OF USE)						
11	CUTTING BAR OIL				✓	✓
12	GEAR BOX OIL				✓	✓
13	ENTIRE MACHINE	✓	✓			

Troubleshooting

ISSUE	CAUSE	SOLUTION
The machine is not leveled sideways.	The spring placed above the arm is badly adjusted.	Adjust the setting of the spring.
The blade does not follow the ground at work.	The suspension is too hard.	Acting on the suspension as described in the paragraph.
Irregular cutting height.	Blades worn or missing.	Change or replace the blades.
	The rpm of the PTO are too low.	Make sure that the speed of the power takeoff is regular.
	Feed rate is too low (especially sensitive to the couplings dense).	Increase work speed.
Irregular cut.	Machine leans backwards.	Shorten the third point.
The belts slip.	The spring is not sufficiently compressed.	Compress the spring by tightening the turnbuckle screw.
Traces of cutting on wet and heavy material.	The rpm of the PTO are too low.	Make sure that the PTO does not lose power. This happens especially on sloping land.
Traces of cutting on thin grass.	Insufficient inclination of blades.	Shorten the third point.
The grass is rejected by the ventilation of the knives before being cut.	Thin grass.	Decrease the number of PTO revolutions and increase the forward speed.
	Blades worn or broken.	Change and replace the blades.
Heating of the cutting bar.	Oil unsuitable.	Remove and replace with prescribed oil.
	Excess oil in the cutter bar.	Check the oil level and remove excess.

Recommendations

Always use a good quality multi-purpose / lithium base grease when lubricating the equipment.



IMPORTANT

Do not over-grease bearings. Greasing too often can damage seals and lead to premature bearing failure.

- Always use a hand-held grease gun.
- Clean fitting before greasing, to avoid injecting dirt and grit.
- Replace and repair broken fittings immediately.
- If fittings will not take grease, remove and clean thoroughly. Replace fitting if necessary.



WARNING

AVOID INJURY OR DEATH

Stop engine, set brake, remove ignition key, and wait for all moving parts to stop before servicing, adjusting, repairing, or unplugging.

Support the equipment with blocks or safety stands before working beneath it.

Follow good shop practices:

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

Use only tools, jacks, and hoists of sufficient capacity for the job. Replace and secure all shields removed during servicing before operating.

Use heavy leather gloves to handle sharp objects.



WARNING

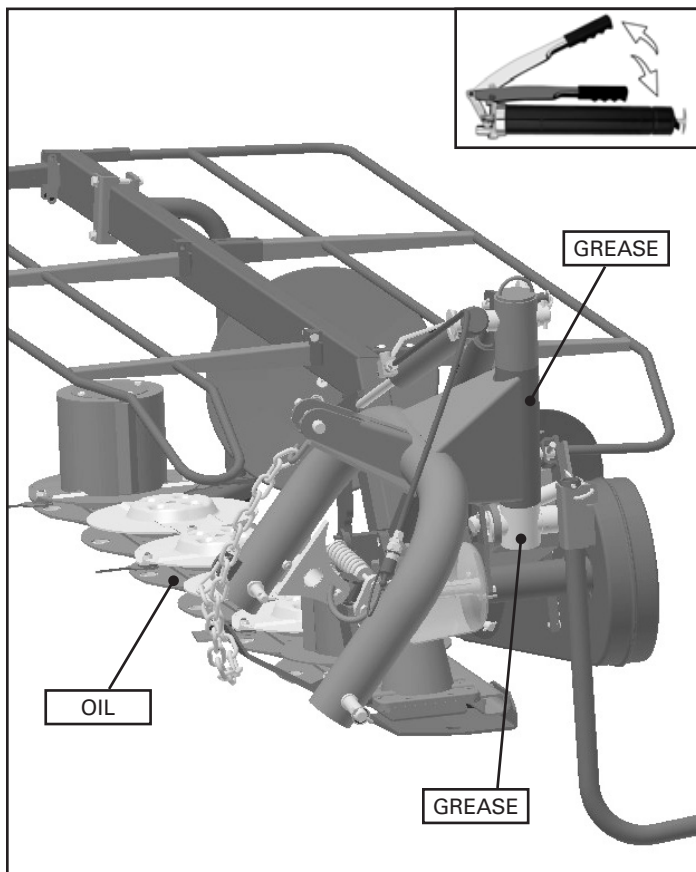
AVOID INJURY OR DEATH

Escaping hydraulic fluid under pressure can have sufficient force to penetrate the skin, causing serious personal injury. Before disconnecting lines, be sure to relieve all pressure. Before applying pressure to the system, be sure all connections are tight and that lines, pipes, and hoses are not worn or damaged.

Fluid escaping from a very small hole can be almost invisible. Use a piece of cardboard or wood, rather than hands, to search for suspected leaks. If injured by escaping fluid, see a doctor at once. Serious infection or reaction can develop if proper medical treatments is not administered immediately.

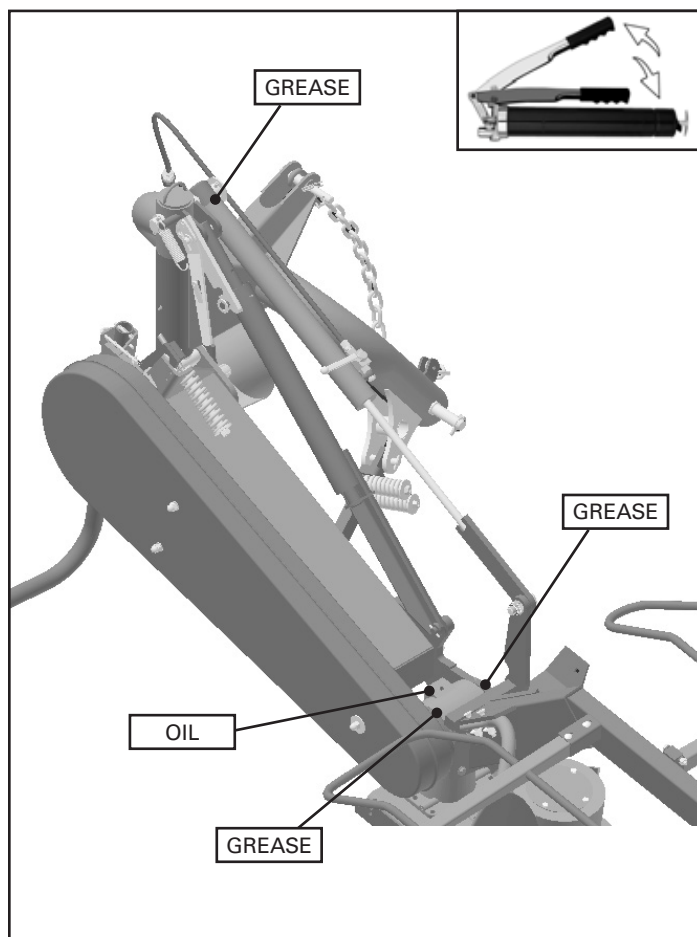
Lubrication

Figure 20



Apply grease to the grease fittings [Figure 20].
Grease every **10 hours**.

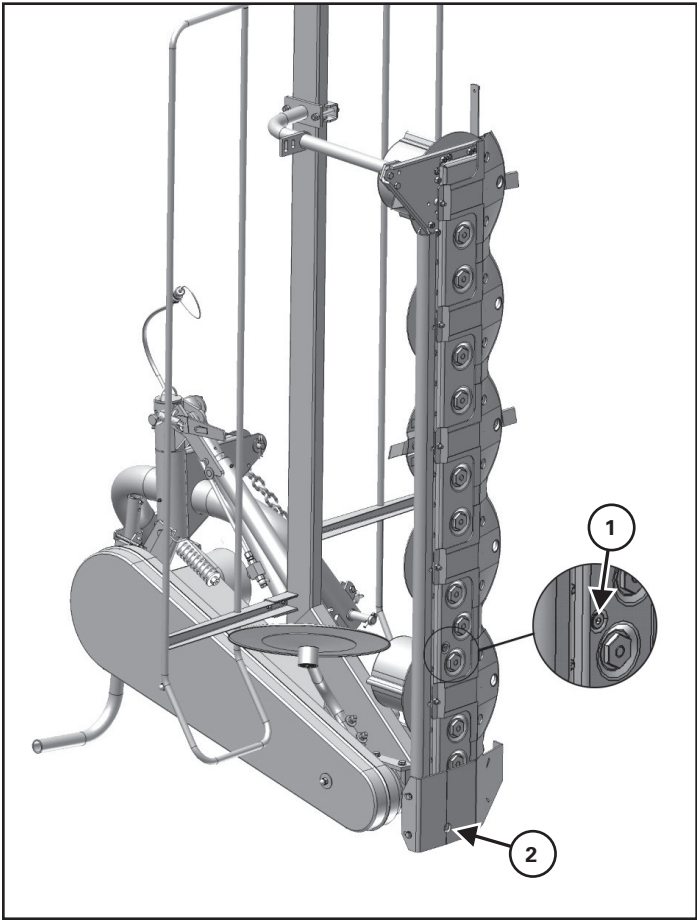
Figure 21



Apply grease to the grease fittings [Figure 21].
Grease every **10 hours**.

Cutting Bar Oil

Figure 22



Position the mower in the upright position. Unscrew the cap (Item 1) and check the oil level. Add oil as needed until oil is level with the opening [Figure 22].

The check must be done with cold oil temperature. Use oil type SAE 90 EP.

Check oil every **50 hours**.

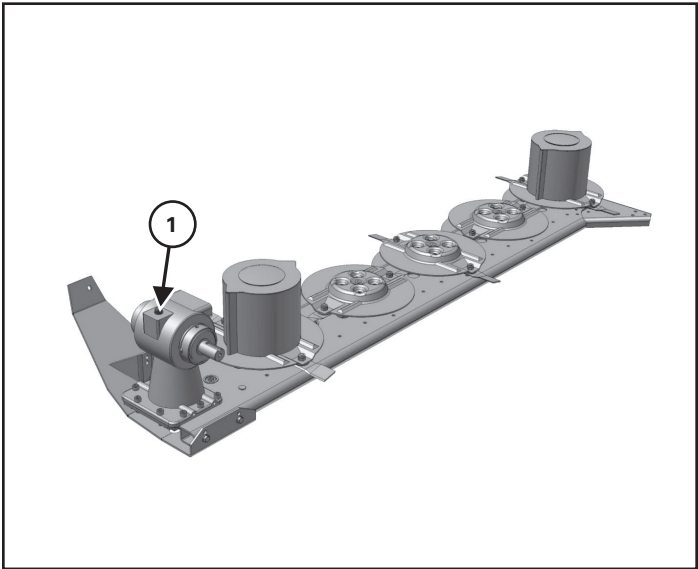
After the first oil change it should be changed every 200 hours, or at least before each season.

Replace the washer during every oil change. Drain the oil through the lower hole (Item 2) under the cutter bar. Fill oil through the upper oil (Item 1) [Figure 22].

Change oil every **200 hours**.

Gearbox Oil

Figure 23



Position the mower in the lowered position. Unscrew the cap (Item 1) and check the oil level, this should be partially up the case. [Figure 23].

The check must be done with cold oil temperature. Use oil type SAE 90 EP, **the oil capacity is 0.7 liters (all models)**.

Check oil every **50 hours**.

After the first oil change it should be changed every 200 hours, or at least before each season. To change this oil, simply place a drain pan under Item 1 with the cutter bar raised, drain, then lower bar and refill with specified amount.

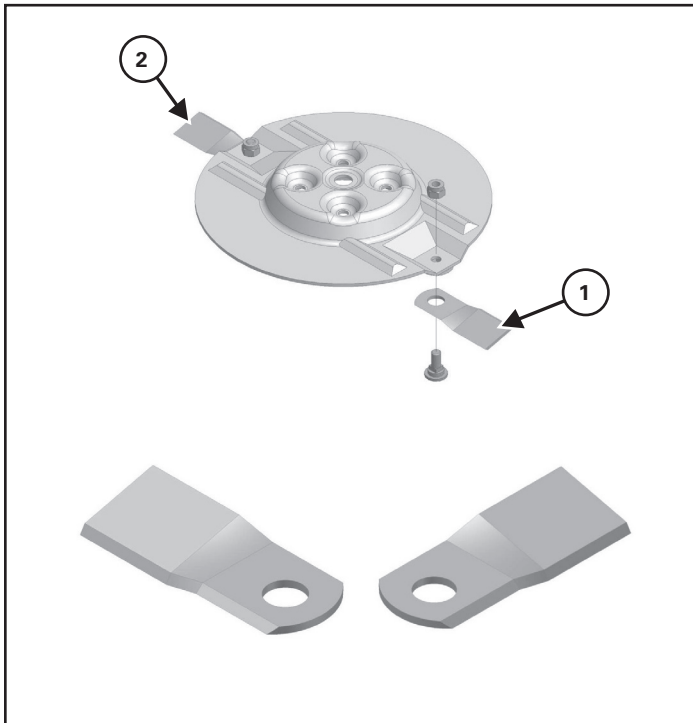
Replace the washer during every oil change. [Figure 23].

Change oil every **200 hours**.

MODEL	CUTTER BAR OIL CAPACITY
MDN4	1.6 LITERS
MDN5	2.3 LITERS
MDN6	2.8 LITERS
MDN7	3.6 LITERS

Cutting Blades

Figure 24



Worn-out, damaged, or deformed cutting blades must be immediately replaced with original blades only. See your Farm King dealer.

Make sure that the new cutting blades (Item 1) are all of the same length [Figure 24].



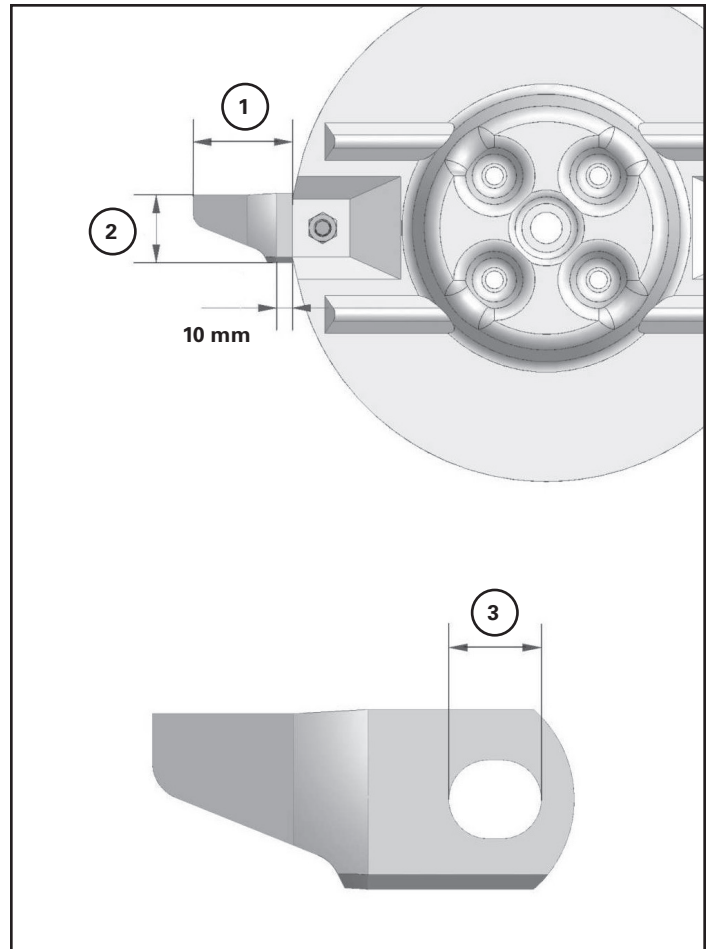
IMPORTANT

Cutting blades are either of “right” or “left” type. Pay attention to the disc rotation direction during installation.

Make sure that the cutting side is installed facing downwards.

Always replace both blades (Item 1, 2) per disc at the same time to avoid imbalances [Figure 24].

Figure 25



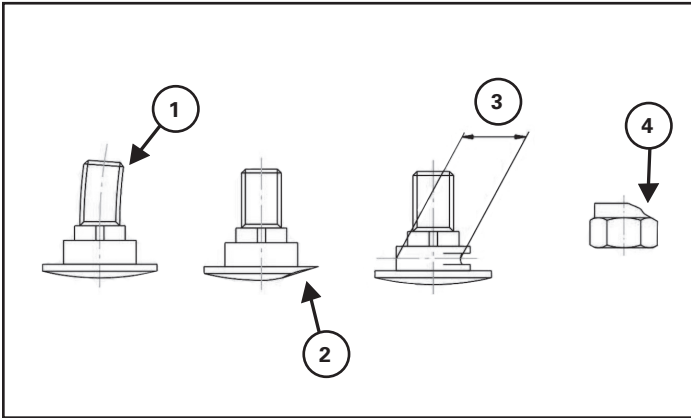
The length (Item 1) of a cutting blade has to be more than 70 mm [Figure 25].

The width (Item 2) of a cutting blade, measured at 10 mm from the disk, has to be more than 35 mm [Figure 25].

The pitch (Item 3) of the fixing screw has not to be ovalized more than 23 mm for a boring of 21 mm [Figure 25].

In order to replace worn-out or damaged cutting blades, the lock nuts on the top of the cutting disks must be unscrewed before the old blade can be replaced with a new one.

Figure 26



Replace the fixing screws when any of the following occur **[Figure 26]**:

- There is a clear deformation (Item 1).
- The head-wear (Item 2) reaches the bearing circumference of the cutting blades.
- The diameter (Item 3) of the screw body is less than 18 mm.

Replace the nuts when any of the following occur **[Figure 26]**:

- There is a clear deformation.
- The self-locking part (Item 4) of the nut is worn or inefficient.



IMPORTANT

Make sure nuts are tightened to proper torque when replacing blades.

Torque nuts to 51.6 ft-lbs (70 nm).

Recheck torque immediately after knocking an obstacle.

Storage

Perform the following when storing the equipment:

- Clean and lubricate all grease points when storing or extended period of time.
- Inspect for any missing, worn, or damaged parts. Replace parts as required.
- Check for any loose bolts and tighten if required.
- Be sure all pins have cotter pins or hair pin cotteners installed.
- Disconnect from the transport vehicle.

Beginning Season Service

Clean off any dirt or grease that may have accumulated on moving parts. This will prevent abrasive action that could cause excessive wear.

Thoroughly inspect for any loose or missing parts and adjust as necessary. Replace any worn or damaged parts.

Replace any safety decals that are damage or are illegible.

End Season Service

Coat all sliding parts with a layer of grease to prevent rust.

This should also be done if the machine is going to sit for long periods of time. Clean thoroughly to remove dirt and trash which hold moisture and cause rusting.

Replace worn or damaged parts. Replace any safety decals that are damaged or are illegible.

Parts Identification

General Parts Information.....49

Hitch49

Safety Chain Kit.....52

Cutting Bar.....54

Belt / PTO.....58

Guards.....62

Grass Buffers.....64

Gearbox.....66

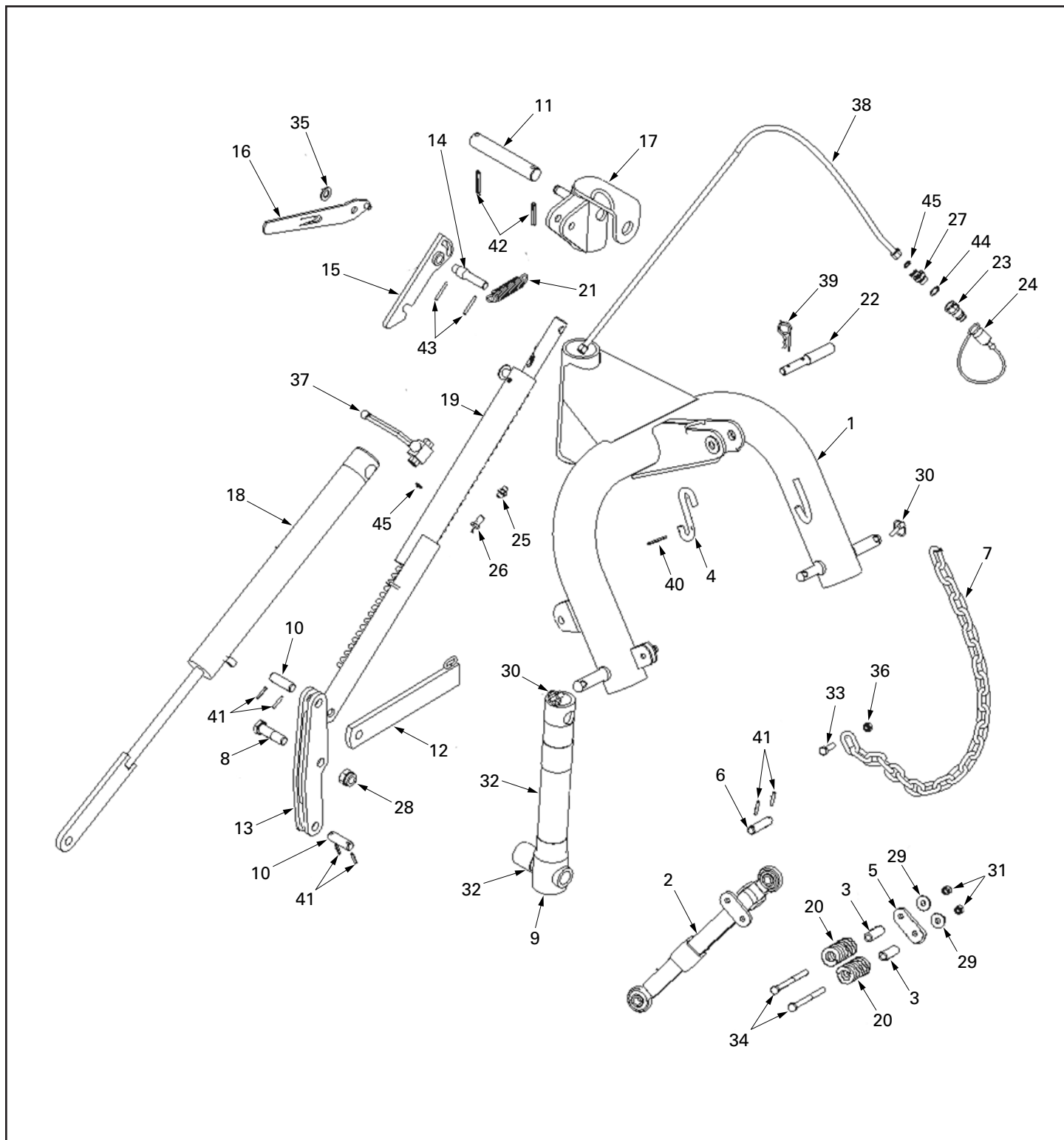
Farm King



General Parts Information

The parts identification section lists the descriptions, part numbers, and quantities for all North American base model MDN4, 5, 6, 7 Disc Mower. Contact your Farm King dealer for additional parts information.

Hitch



POS.	QTY.				PN	DESC.
	MDN4	MDN5	MDN6	MDN7		
1	1	1	1	1	M10001046	THREE POINT HITCH
2	2	2	2	2	M10001145	EMERGENCY RELEASE ***
3	1	1	1	1	M10013020	SPRING SPACER
4	1	1	1	1	M110010030	KIT CRICKET + HOOK
5	1	1	1	1	M110020010	CHECK PLATE
6	1	1	1	1	M110020028	BACK ANCHOR PIN
7	1	1	1	1	M113003950	CHAIN RINGS 10*
8	1	1	1	1	M113004250	SCREW M22X76 LOWERED HEAD
9	1	1	1	1	M123000550	RUDDER VERTICAL AXIS
10	2	2	2	2	M123000950	ELASTIC PIN LEVER LIFT
11	1	1	1	1	M123001150	UPPER WRIST PIN
12	1	1	1	1	M123001350	COMMAND BAR
13	1	1	1	1	M123001550	BAR RECOVERY LEVER BUILT-UP
14	1	1	1	1	M123001850	SHOCK-ABSORBER UPPER WRIST PIN
15	1	1	1	1	M123002050	SHOCK ABSORBER BLOCKING HOOK
16	1	1	1	1	M123002150	CONTROL LEVER BUILT-UP
17	1	1	1	1	M123002250	CAP OF RUDDER VERTICAL AXIS
18	1	1	1	1	M123003602	BAR RAISING JACK**
19			1	1	M133000100	SHOCK-ABSORBER MDN 6 / 7
	1	1			M113000400	SHOCK-ABSORBER MDN 4 / 5
20	2	2	2	2	M140020005	D45 SPRING THREAD 10 L=97
21	1	1	1	1	M160072008	D28 SPRING THREAD 4 L=125
22	1	1	1	1	M170010017	HINGE OF 3° POINT HITCH 1^ AND 2^ CAT
23	1	1	1	1	M980100617	FAST JOINT 1/2"
24	1	1	1	1	M980100618	JOINT COVER 1/2"
25	1	1	1	1	M980100626	NIPLES M/M 1/4"
26	1	1	1	1	M980100701	PIERCED SCREW 1/4 WITH HOLE 1,5
27	1	1	1	1	M980100710	NIPLES M/M 1/2"-1/4"
28	1	1	1	1	M980205425	SELFLOCKING NUT N. 6.8 PG 22 UNI7473
29	2	2	2	2	M980205724	WASHER M12 UNI6593 ZB
30	2	2	2	2	M980206005	CLICK EMERGENCY PIN Ø9
31	2	2	2	2	M980206023	NUT ES UNI5587 M12 ZB
32	2	2	2	2	M980206031	STRAIGHT GREASE CUP 8X1
33	1	1	1	1	M980206099	SCREW TE UNI 5739 8.8 12X45 ZINC*
34	2	2	2	2	M980206216	SCREW TE UNI 5737 8.8 12X160 ZB
35	1	1	1	1	M980206499	WASHER UNI6592 D 19X34X3 ZB
36	1	1	1	1	M980206613	METALBLOC NUT M 12 ZB*
37	1	1	1	1	M980600397	CLOSING VALVE 1/4 G
38	1	1	1	1	M981013440	HYDRAULIC PIPE 1/4" L=2000 FD/FD
39	1	1	1	1	M981106002	R SPLIT PIN Ø3.5 UNI8833-B
40	1	1	1	1	M981108022	ELASTIC PIN UNI8752 5X50 ZB

POS.	QTY.				PN	DESC.
	MDN4	MDN5	MDN6	MDN7		
41	6	6	6	6	M981108210	ELASTIC PIN UNI 6873 6X36 ZB
42	2	2	2	2	M981108604	ELASTIC PIN UNI 6873 10X60 ZB
43	1	1	1	1	M981108608	ELASTIC PIN UNI 6873 6X50 ZB
44	1	1	1	1	M981600619	COPPER WASHER 1/2"
45	4	4	4	4	M981600630	COPPER WASHER 1/4"

*PART OF OPTIONAL SAFETY CHAIN KIT, NOT INCLUDED IN 2022 AND UP UNITS, SEE M10062115 FOR KIT BREAKDOWN

**NOTE FOR OLDER MACHINES THERE ARE A FEW DIFFERENT SEAL KITS BASED ON THE MODEL SIZE.

CHECK CYLINDER DIMENSIONS BEFORE ORDERING PARTS

MDN4: M980900270

MDN5/6: M980900260 OLDER 1.136 ROD SEAL

M980900017 NEWER .773 ROD SEAL

MDN7: M980900275 OLDER (MAY REQUIRE 80158 AND 812181 SEALS FOR HEAD PLATE)

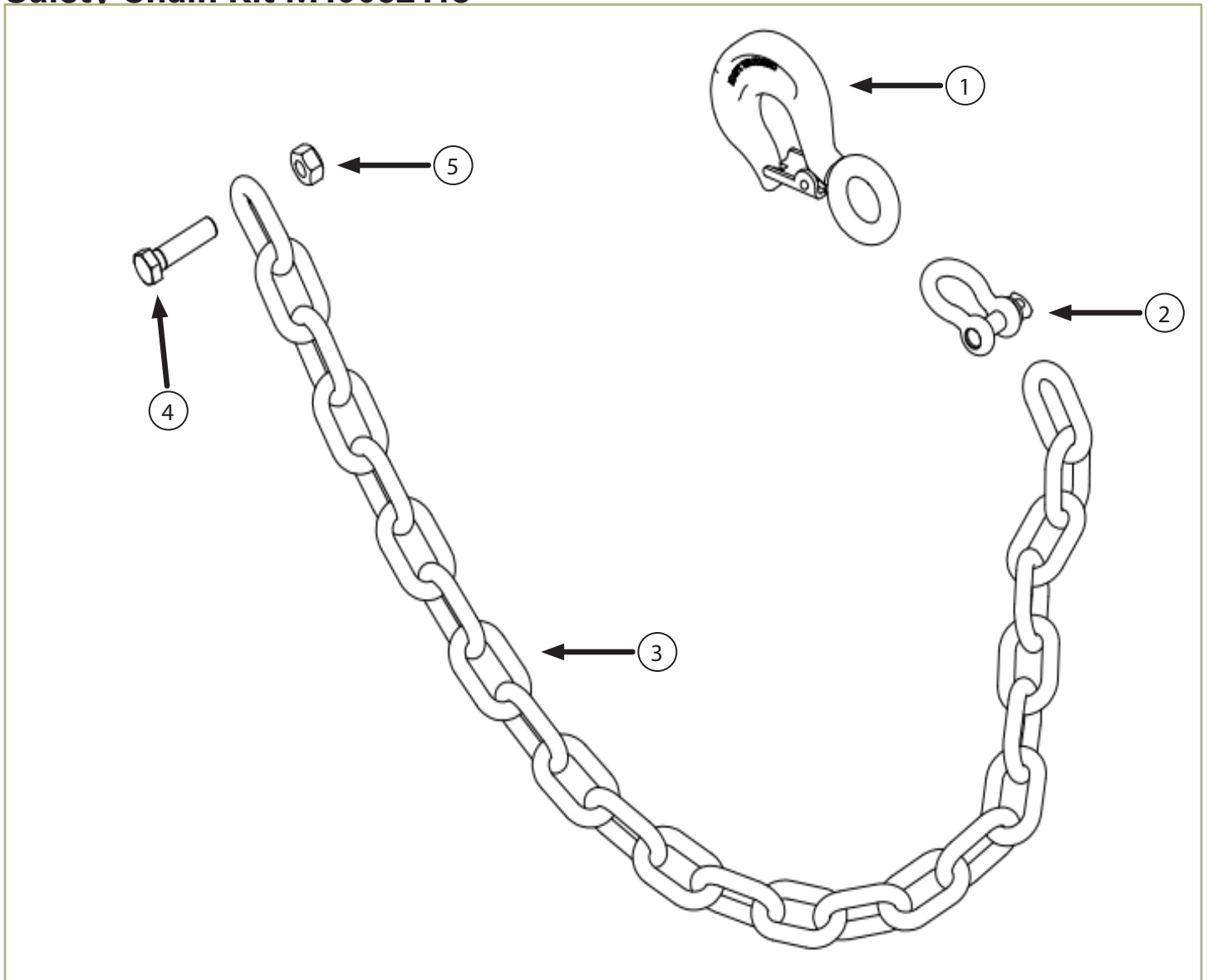
M980900004 NEWER .9875 ROD SEAL U-CUP STYLE

***THERE ARE TWO VERSIONS OF THIS PART SEE BELOW FOR DESCRIPTIONS

M10001145: 1' 7" CENTER TO CENTER ON HOLES (CURRENT)

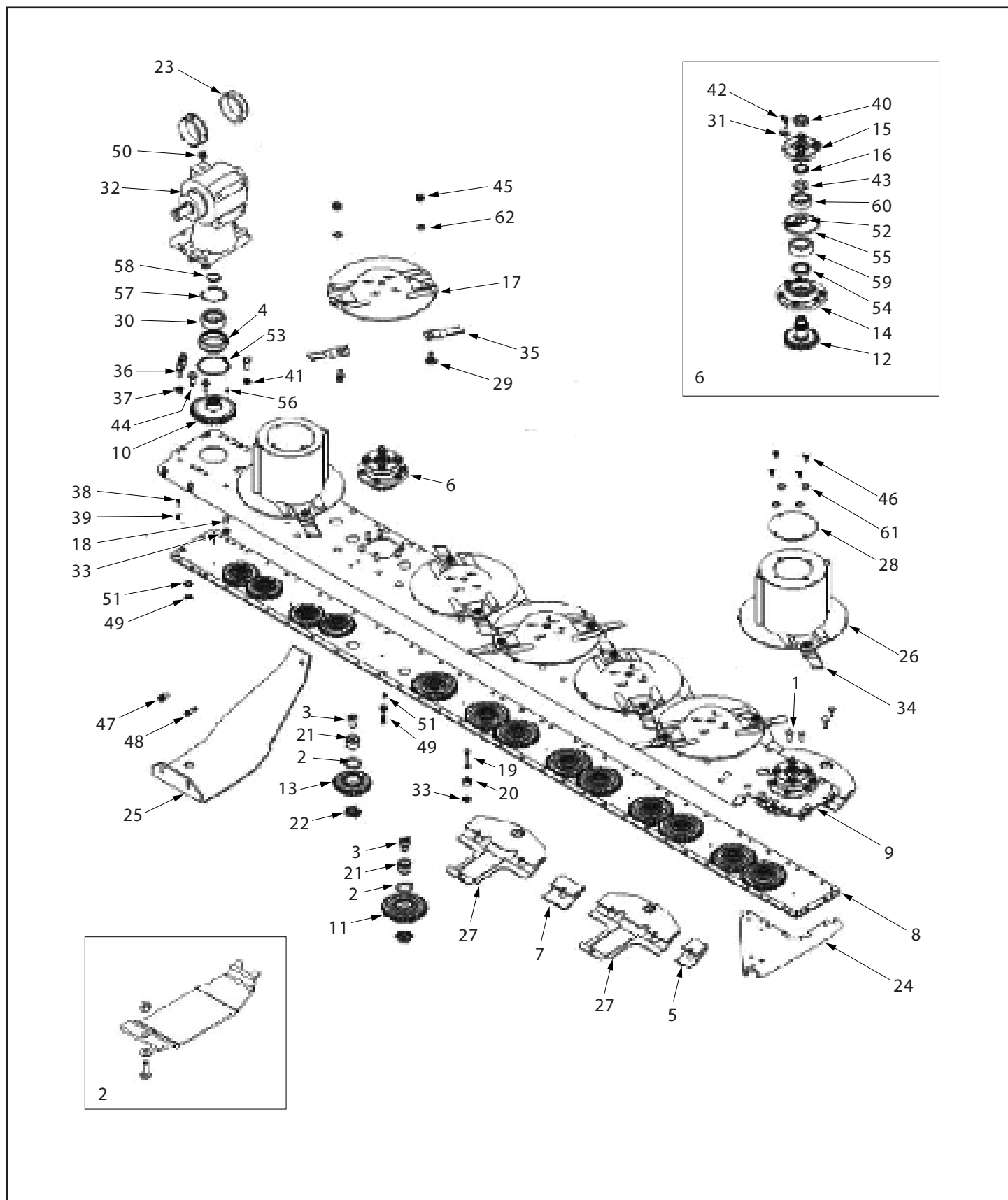
M11002002910: 1'3" CENTER TO CENTER ON HOLES (PAST/OBSO)

Safety Chain Kit M10062115



POS.	QTY. ALL MODELS	PN	DESC.
1	1	M980005010	HOOK 1500KG CAP.
2	1	M980306170	SHACKLE 1000KG CAP.
3	1	M11003950	CHAIN Ø10
4	1	M980206613	METAL LOCK NUT DIN 980 G8 M12 ZINC
5	1	M980206099	BOLT M12X45 UNI 5739 G8.8 ZINC

Cutting Bar



POS.	QTY.				PN	DESC.
	MDN4	MDN5	MDN6	MDN7		
1	4	6	8	10	M404710100	SPECIAL SCREW M10X30
2	4	5	6	7	M32021397	KIT BOTTOM RENFORCE SUPPORT
3	8	11	12	15	M404710700	SCREW SOCKET HEAD M20X30 VE7986
4	1	1	1	1	M404710800	BUSHING OF MOTION ENTRY BEARING
5	4	4	5	5	M10021021	CURVED NARROW SHOE
6	4	5	6	7	M32022110	DISC SUPPORT
7		1		1	M10021131	CURVED WIDE SHOE
8	1				M10021210	GEARTANK MDN 4
		1			M10021220	GEARTANK MDN 5
			1		M10021230	GEARTANK MDN 6
				1	M10021240	GEARTANK MDN 7
9	1				M10021111	TANK COVER MDN 4
		1			M10021121	TANK COVER MDN 5
			1		M10021134	TANK COVER MDN 6
				1	M10021141	TANK COVER MDN 7
10	1	1	1	1	M113000050	GEAR Z=45
11	6	6	10	10	M113000200	TOOTHED WHEEL Z=45
12	4	5	6	7	M113000250	GEAR Z=34
13	2	5	2	5	M113000300	TOOTHED WHEEL Z=36 GROUP
14	4	5	6	7	M113000450	HUB
15	4	5	6	7	M113000550	FLANGE
16	4	5	6	7	M113000650	BUSHING SEAL
17	2	3	4	5	M113000750	CUTTING DISC
18	42	48	54	60	M113001050	SPECIAL SCREW M10X24
19	4	5	6	7	M113001150	SPECIAL SCREW M10X54
20	4	5	6	7	M113001250	BUSH RISE STONE-BUFFER
21	8	11	12	15	M10021042	COUNTERWHEEL BEARING- 6208 NR/C3 *
22	8	11	12	15	M113002050	SPECIAL NUT M20
23	2	2	2	2	M113002750	JOINT BUSHING
24	1	1	1	1	M113003050	COLUMN ANCHOR PLATE
25	1	1	1	1	M10021474	BAR INNER SLIDE
26	2	2	2	2	M133000250	LATERAL DRUM
27	4	5	6	7	M10021000	STONE GUARD-SKID SHOE
28	2	2	2	2	M32022015	DRUM CAP
29	8	10	12	14	M505060	SCREW M12 FOR BLADES CONNECTION
30	1	1	1	1	M80101184	BEARING 6208 C3
31	16	20	24	28	M85501187	CUP SPRING 25X12,2X1,5
32	1	1	1	1	M914200500	TRANSMISSION BOX LF-142A **
33	94	100	106	112	M980200018	NUT ES M10 UNI5587
34	4	4	6	6	M980204183	LEFT BLADE MEL 129
35	4	6	6	8	M980204184	RIGHT BLADE MER 129

POS.	QTY.				PN	DESC.
	MDN4	MDN5	MDN6	MDN7		
36	8	8	8	8	M980205048	WASHER GROWER M12 RINF
37	5	5	5	5	M980205095	HEX NUT UNI 5587 8.8 M12
38	4	4	4	4	M980205144	SCREWTE UNI 5739 8.8 8X20
39	4	4	4	4	M980205206	NUT UNI 5587 6.8 PG 8 HIGH
40	4	5	6	7	M980205247	NUT ES UNI5589 M27X2
41	3	3	3	3	M980205333	NUT ES UNI5588 M12
42	16	20	24	28	M980205382	SCREWTE UNI 5739 10.9 P.G. 12X25 ZB
43	4	5	6	7	M980205529	CUP SPRING D27.5X52X2.5
44	8	8	8	8	M980205571	SCREW SOCKET HEAD UNI 5931 12.9 12X35
45	8	10	12	14	M980205699	SELFLOCKING NUT ES M12 UNI7473
46	8	8	8	8	M980206170	SCREWTE UNI 5739 8.8 8X16 ZB
47	2	2	2	2	M980206245	WASHER M10 UNI6592 ZB
48	2	2	2	2	M980206352	SCREWTE UNI 5739 8.8 10X30 ZINC
49	2	2	2	2	M980206519	STOPPERTCE2-3/8"C.S. HEXAGON SOCKET
50	1	1	1	1	M980206524	OIL STOPPER 3/8" GAS
51	2	2	2	2	M980600695	ALLUMINIUM WASHER 3/8"
52	4	5	6	7	M980900079	O-RING 4131 D=32.92 Th=3.53
53	1	1	1	1	M980900086	O-RING 4375
54	4	5	6	7	M980900139	OIL SEAL DIN 3760 45X60X8 NB
55	4	5	6	7	M980900691	O-RING 4437 DI=110.72 SP=3.53
56	2	2	2	2	M981108024	ELASTIC PIN UNI 6873 10X10
57	1	1	1	1	M981108100	STOPPER RING FOR HOLES UNI 7437 C70 80
58	1	1	1	1	M981108179	OUTER RING UNI 7435 C70 40X2,5
59	4	5	6	7	M981304154	BEARING 6307 2Z C3
60	4	5	6	7	M981304161	BEARING 6207 2RS C3
61	8	8	8	8	M980200144	WASHER UNI 6592 8X17X1,6 ZINC
62	8	10	12	14	M980206704	WASHER UNI 6592 13X24X2,5 ZINC

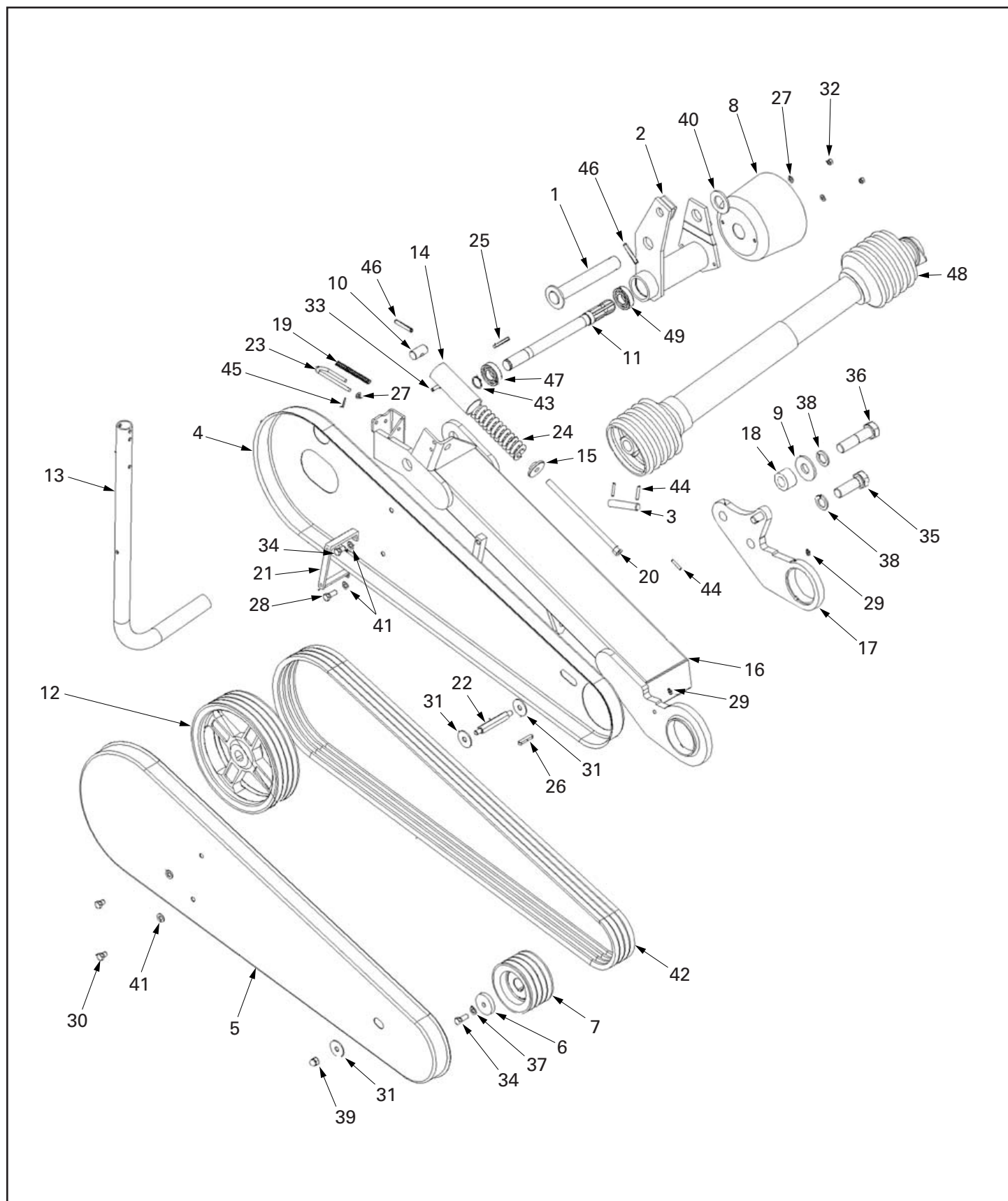
* SHOULD CONTAIN SNAP RING

** OIL CAPACITY IS 0.7 LITERS (ALL MODELS)

MODEL	CUTTER BAR OIL CAPACITY
MDN4	1.6 LITERS
MDN5	2.3 LITERS
MDN6	2.8 LITERS
MDN7	3.6 LITERS

Farm King



Belt / PTO

POS.	QTY. ALL MODELS	PN	DESC.
1	1	M10013010	LOWER PIN
2	1	M10031015	INPUT DRIVE SHAFT HOUSING
3	1	M110020028	BACK ANCHOR PIN
4	1	M110020030	BELTS INNER PROTECTION
5	1	M110020031	BELTS EXTERNAL PROTECTION
6	1	M110030005	SUPPORTING PULLEY WASHER
7	1	M113001350	PULLEY SPB 140 4 RACE
8	1	M113004350	CARDAN JOINT PROTECTION CAP
9	1	M113005350	WASHER 70-28-6
10	1	M123000650	THREADED RETAINER BUSHING
11	1	M123000750	POWERTAKE OFF SHAFT
12	1	M123001450	PULLEY SPB 315 4 RACE
13	1	M123002550	BAR SUPPORT LEG
14	1	M123002650	SPRING SPACER
15	1	M123002750	SUPPORT SPRING
16	1	M123003050	BAR-HOLDER BEAM WELDED GROUP BUILT-UP
17	1	M123003150	LOWER MOBILE ARMBUSH FOR CONTRAST ROW
18	1	M123003250	BUSH FOR CONTRAST ROW
19	1	M123003550	SPRING D12,5THREAD 1 L=120
20	1	M123003750	TIE-BEAM
21	1	M10041070	SUPPORT FORTHE CARTER
22	1	M144002850	HEXAGON CARTER SUPPORT L=97
23	1	M150020031	LEG BOLT
24	1	M170020014	BELT TIGHTENER SPRING
25	1	M980200030	KEY 6604 C 40 8X7X55
26	1	M980200117	KEY 6604 C 40 10X8X50
27	3	M980200144	WASHER UNI6592 D 8.4X17X1.6 ZB
28	1	M980206064	SCREWTE UNI 5737 8.8 12X35 ZINC
29	2	M980206031	STRAIGHT GREASE CUP 8X1
30	2	M980206349	SCREWTE UNI 5739 8.8 12X16 ZINC
31	3	M980206100	WASHER UNI6593 D 14X48X3 ZB
32	2	M980206142	NUT METALBLOC M 8 ZB
33	2	M980206437	SCREWTE UNI 5739 8.8 8X25 ZINC
34	2	M980206441	SCREWTE UNI 5739 8.8 12X30 ZINC
35	1	M980206447	SCREWTE UNI 5737 8.8 27X80 ZB
36	1	M980206452	SCREWTE UNI 5737 8.8 27X110 ZB
37	1	M980206552	WASHER GROWER M12 ZB
38	2	M980206559	WASHER GROWER D 27 RINF. ZB
39	1	M980206631	NUT UNI 5721 6.8 PG 12 ZB
40	1	M980206698	WASHER UNI6592 D 37X66X5 ZB
41	4	M980206704	WASHER UNI6592 D 13X24X2.5 ZB

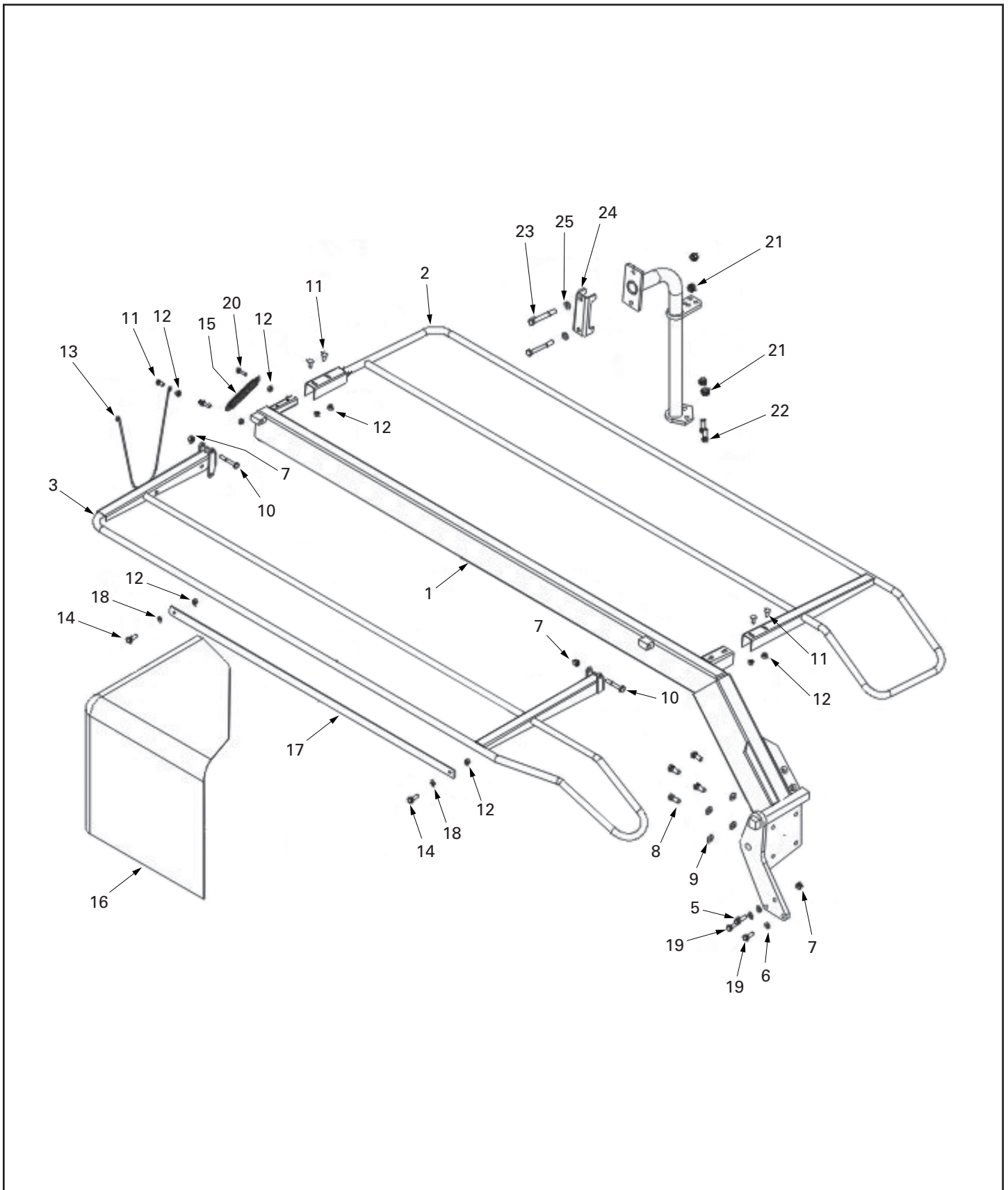
POS.	QTY. ALL MODELS	PN	DESC.
42	4	M980913660	BELT SBP 2840
43	1	M981108032	OUTER RING UNI 7435 C70 30
44	3	M981108210	ELASTIC PIN UNI 6873 6X36 ZB
45	1	M981108211	ELASTIC PIN UNI 6873 3,5X26 ZB
46	2	M981108604	ELASTIC PIN UNI 6873 10X60 ZINC
47	1	M981304028	BEARING 6206 2RS
48	1	M989931010	CARDAN 8C26034CE007002**
-	1	M989931055	PTO SHAFT WALTERSCHEID (TO END OF 2017)**
-	1	M989931134	PTO SHAFT BENZI B05081AAC10514 (2018 AND UP)**
49	1	M981304017	BEARING 3206 2RS

**IT IS RECOMMENDED HAVING YOUR SERIAL NUMBER AND SOME INFORMATION FROM THE PTO SHAFT BEFORE ORDERING PARTS

Farm King

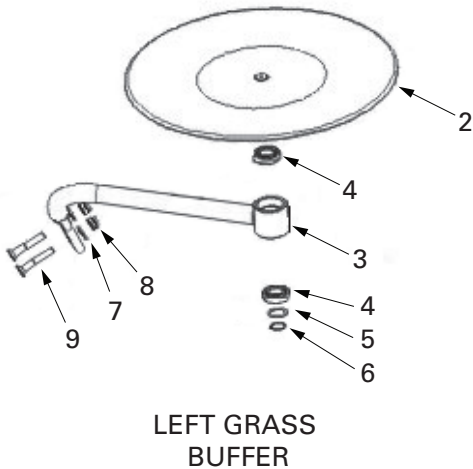
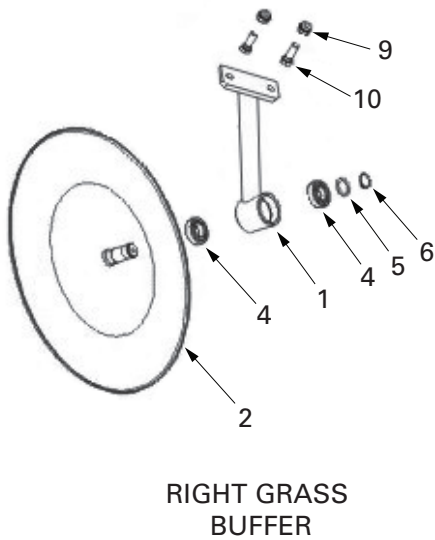
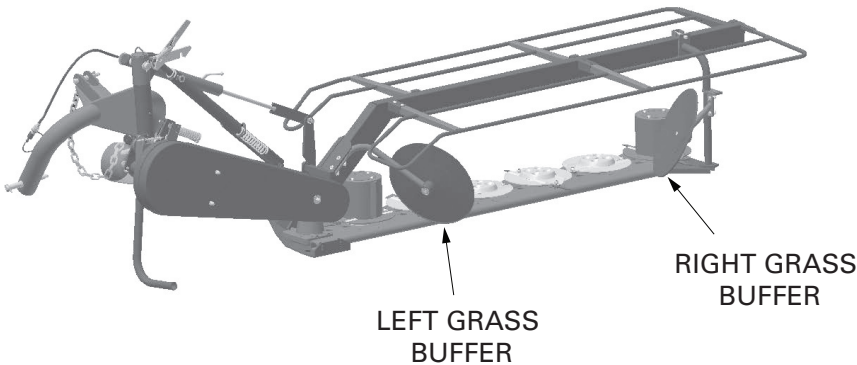


Guards



POS.	QTY.				PN	DESC.
	MDN4	MDN5	MDN6	MDN7		
1	1				M10011005	MAIN CHASSIS MDN 4
		1			M10011015	MAIN CHASSIS MDN 5
			1		M10011020	MAIN CHASSIS MDN 6
				1	M10011025	MAIN CHASSIS MDN 7
2	1				M10043135	PROTECTIONS BACK CHASSIS MDN 4
		1			M10043125	PROTECTIONS BACK CHASSIS MDN 5
			1		M10043115	PROTECTIONS BACK CHASSIS MDN 6
				1	M10043105	PROTECTIONS BACK CHASSIS MDN 7
3	1				M10043130	FRONT CHASSIS MDN 4
		1			M10043120	FRONT CHASSIS MDN 5
			1		M10043110	FRONT CHASSIS MDN 6
				1	M10043100	FRONT CHASSIS MDN 7
4	1	1	1	1	M113005460	CHASSIS SUPPORT COLUMN
5	1	1	1	1	M980206377	SCREWTE UNI 5739 8.8 10X35 ZB
6	3	3	3	3	M980206245	WASHER M10 UNI6592 ZB
7	3	3	3	3	M980205250	NUT METALBLOC M10 ZB
8	4	4	4	4	M980305125	SCREWTE UNI 5739 10.9 12X30
9	4	4	4	4	M85501187	CUP SPRING 25X12,2X1,5
10	2	2	3	3	M980206200	SCREWTE UNI 5737 8.8 10X65 ZB
11	5	5	7	7	M980206426	SCREWTE UNI 5739 8X20 ZINC
12	9	9	9	9	M980206142	NUT METALBLOC M8 ZINC
13	1	1	1	1	M981100300	FORK WITH D4THREAD
14	2	2	2	2	M980206220	SCREW/TB C/FLANGE TORX 8X20 ZINC
15	1	1	1	1	M150080005	TRACTION SPRING Ø21X152
16	1				/	PROTECTION BURLAP MDN 4
		1			M124000650	PROTECTION BURLAP MDN 5
			1		M134000650	PROTECTION BURLAP MDN 6
				1	M144002950	PROTECTION BURLAP MDN 7
17	1				M113004450	LINE FOR BURLAP STRENGTHENING MDN 4
		1			M123003950	LINE FOR BURLAP STRENGTHENING MDN 5
			1		M133001450	LINE FOR BURLAP STRENGTHENING MDN 6
				1	M143000650	LINE FOR BURLAP STRENGTHENING MDN 7
18	2	2	2	2	M980200144	WASHER UNI6592 D 8.4X17X1.6 ZB
19	2	2	2	2	M980206352	SCREWTE UNI 5739 8.8 10X30 ZB
20	2	2	2	2	M980206096	SCREWTE UNI 5739 8.8 8X30 ZB
21	4	4	4	4	M980206613	NUT METALBLOC M12 ZINC
22	2	2	2	2	M980206435	SCREWTE UNI 5739 8.8 12X35 ZB
23	2	2	2	2	M980205551	SCREWTE UNI 5737 8.8 12X100 ZB
24	1	1	1	1	M113005550	SUPPORT COLUMN ATTACHMENT PLATE
25	2	2	2	2	M980206704	WASHER UNI6592 D 13X24X2.5 ZB

Grass Buffers

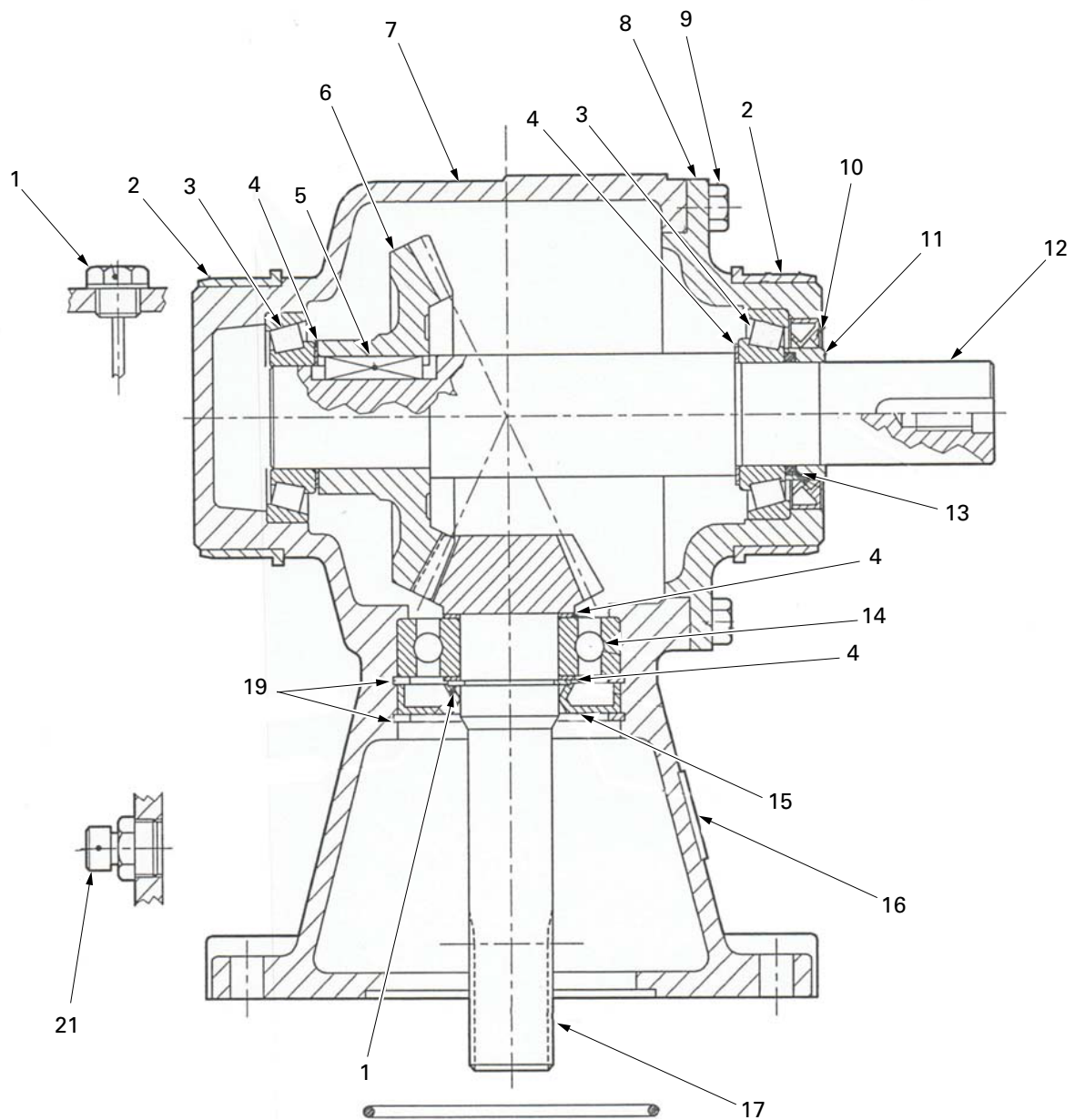


POS.	QTY. ALL MODELS	PN	DESC.
1	1	M10061042	OUTSIDE SUPPORT OF ROTARY GRASS-BUFFER
2	2	M110080018	GRASS-BUFFER DISC BUILT-UP
3	1	M133001050	INNER SUPPORT
4	4	M981304603	BEARING 6005 2RS
5	2	M980200041	RING DIN 988 25X35X1
6	2	M981108046	EXTERNAL RING UNI 7435 C70 D 25
7	2	M980206704	WASHER UNI 6592 D 13X24X2,5 ZB
8	4	M980206613	NUT METALBLOC M12 ZB
9	2	M980206041	SCREWTPSEI 5933 10.9 12X40 ZB
10	2	M980206016	SCREWTE M12X40 8,8 UNI5739 ZB

-	1	M10061010	COMPLETE LEFT GRASS-BUFFER DISC*
-	1	M10061040	COMPLETE RIGHT GRASS-BUFFER DISC

* THIS IS A OPTIONAL PIECE NOT INCLUDED AS STANDARD EQUIPMENT

Gearbox



POS.	QTY. ALL MODELS	PN	DESC.
1	1	0.142.7101.00	PLUG 3/8" GAS
2	2	113002750	BUSH
3	2	8.0.9.00026	BEARING 30207
4	4	0.259.7500.00	SHIM 35.3X48.0
5	1	8.4.1.01125	PARALLEL KEY B 10X8X35
6	1	0.142.5001.00	CROWN WHEEL Z33 M3.75
7	1	0.142.0301.00	CASING
8	1	0.142.1301.00	COVER
9	8	8.1.1.01540	BOLT M10X22 8.8 DCRT
10	1	8.7.1.00769	DOUBLE LIP SEAL 45X65X10
11	1	0.142.7100.00	BUSH
12	1	0.142.2001.00	SHAFT
13	1	8.7.6.00954	O-RING 39.83X34.59X2.62
14	1	8.0.1.00644	BEARING 6307
15	1	8.7.3.00081	OIL SEAL 35X80X10
16	1	0.259.7111.00	PLATE
17	1	0.142.6000.00	PINION SHAFT Z16 M3.75
18	1	8.5.1.00005	SNAP RING 35 UNI 7435
19	2	8.5.2.00030	SNAP RING 80 UNI 7437
20	1	8.7.6.01188	O-RING OR-4375
21	1	8.6.7.00161	OIL FILLER PLUG 3/8" GAS

OIL CAPACITY IS 0.7 LITERS (ALL MODELS)

Farm King



Specifications And Shipping Kit Numbers

Specifications.....	73
Dimensions.....	73
Shipping Kit And Bundle Numbers.....	74
Hardware Torque Values.....	75
Metric Chart.....	75
Imperial Chart.....	76

Farm King



Specifications

Model	MDN4	MDN5	MDN6	MDN7
Number of discs/ blades	4 / 8	5 / 10	6 / 12	7 / 14
Working width	5.4 ft (1.65 m)	6.9 ft (2.10 m)	8.0 ft (2.45 m)	9.4 ft (2.85 m)
Blade rotation speed	3000 RPM at 540 PTO	3000 RPM at 540 PTO	3000 RPM at 540 PTO	3000 RPM at 540 PTO
3-point hitch	Cat. I / II	Cat. I / II	Cat. I / II	Cat. I / II
PTO	540 RPM	540 RPM	540 RPM	540 RPM
Tractor requirements	35 hp (25 kW)	40 hp (30 kW)	45 hp (33 kW)	50 hp (37 kW)
Weight	903.9 lbs (410 kg)	992.1 lbs (450 kg)	1058.2 lbs (480 kg)	1124.4 lbs (510 kg)
Gearbox Oil Type	SAE 90 EP	SAE 90 EP	SAE 90 EP	SAE 90 EP

Dimensions

Model	MDN4	MDN5	MDN6	MDN7
Machine width	36.2 in (920 mm)	36.2 in (920 mm)	36.2 in (920 mm)	36.2 in (920 mm)
Machine length	129.9 in (3300 mm)	147.6 in (3750 mm)	161.4 in (4100 mm)	175.2 in (4450 mm)
Machine height	46.5 in (1180 mm)	46.5 in (1180 mm)	46.5 in (1180 mm)	46.5 in (1180 mm)

Shipping Kit And Bundle Numbers

The following is a list of Kit Numbers for this product and the Bundle Numbers, Descriptions, and Quantities for each Kit.

Qty.	Bundle	Description
MDN4, 4 DISC MOWER, 3PT MOUNT, 540 RPM		
1	MDN4FK	MAIN ASSEMBLY
MDN5, 5 DISC MOWER, 3PT MOUNT, 540 RPM		
1	MDN5FK	MAIN ASSEMBLY
MDN6, 6 DISC MOWER, 3PT MOUNT, 540 RPM		
1	MDN6FK	MAIN ASSEMBLY
MDN7, 7 DISC MOWER, 3PT MOUNT, 540 RPM		
1	MDN7FK	MAIN ASSEMBLY

The following is a list of optional equipment for the MDN mowers, **NOT INCLUDED** in the standard equipment bundle. Quantities listed are what's used per unit.

Qty	Kit Number	Description
1	M10061010	Left Side Grass Deflector
1	M10062115	Safety Chain Kit

Hardware Torque Values

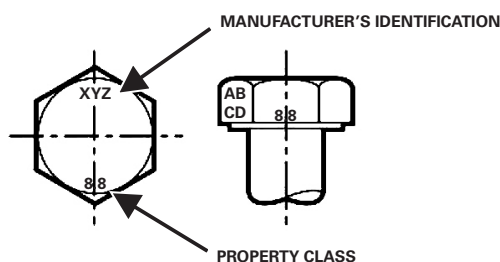
Metric Chart

NOTE: Do not use the values listed in the charts if a different torque value or tightening procedure is specified in this manual for a specific application. Torque values listed are for general use only.

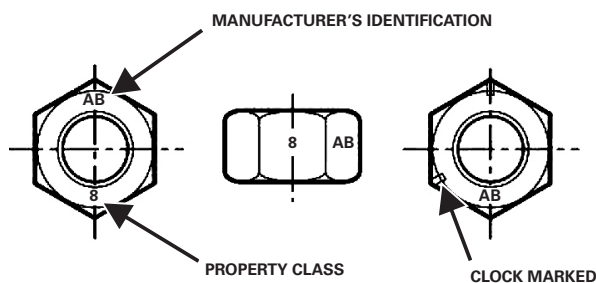
Use the following charts to determine the correct torque when checking, adjusting or replacing hardware. **Torque values are listed in newton-meters (inch* or foot pounds) for normal assembly applications.**

NOMINAL SIZE	CLASS 5.8		CLASS 8.8		CLASS 10.9		LOCK NUTS
	UNPLATED	PLATED W / ZNCR	UNPLATED	PLATED W / ZNCR	UNPLATED	PLATED W / ZNCR	CL.8 W/ CL. 8.8 BOLT
M4	1.7 (15*)	2.2 (19*)	2.6 (23*)	3.4 (30*)	3.7 (33*)	4.8 (42*)	1.8 (16*)
M6	5.8 (51*)	7.6 (67*)	8.9 (79*)	12 (102*)	13 (115*)	17 (150*)	6.3 (56*)
M8	14 (124*)	18 (159*)	22 (195*)	28 (248*)	31 (274*)	40 (354*)	15 (133*)
M10	28 (21)	36 (27)	43 (32)	56 (41)	61 (45)	79 (58)	30 (22)
M12	49 (36)	63 (46)	75 (55)	97 (72)	107 (79)	138 (102)	53 (39)
M16	121 (89)	158 (117)	186 (137)	240 (177)	266 (196)	344 (254)	131 (97)
M20	237 (175)	307 (226)	375 (277)	485 (358)	519 (383)	671 (495)	265 (195)
M24	411 (303)	531 (392)	648 (478)	839 (619)	897 (662)	1160 (855)	458 (338)
NOTE: TORQUE VALUES SHOWN WITH * ARE INCH POUNDS.							

Identification of Hex Cap Screws and Carriage Bolts - Classes 5 and up



Identification of Hex Nuts and Lock Nuts - Classes 5 and up



Hardware Torque Values (Cont'd)

Imperial Chart

NOTE: Do not use the values listed in the charts if a different torque value or tightening procedure is specified in this manual for a specific application. Torque values listed are for general use only.

Use the following charts to determine the correct torque when checking, adjusting or replacing hardware. Torque values are listed in newton-meters (inch* or foot pounds) for normal assembly applications.

Nominal Size	SAE Grade 5		SAE Grade 8		LOCK NUTS			
	Unplated or Plated Silver	Plated W / ZnCr Gold"	Unplated or Plated Silver	Plated W / ZnCr Gold"	Unplated or Plated Silver	Plated W / ZnCr Gold"	Grade W / Gr. 5 Bolt	Grade W / Gr. 8 Bolt
1/4	6.2 (55*)	8.1 (72*)	9.7 (86*)	12.6 (112*)	13.6 (121*)	17.7 (157*)	6.9 (61*)	9.8 (86*)
5/16	13 (115*)	17 (149*)	20 (178*)	26 (229*)	28 (250*)	37 (324*)	14 (125*)	20 (176*)
3/8	23 (17)	30 (22)	35 (26)	46 (34)	50 (37)	65 (48)	26 (19)	35 (26)
7/16	37 (27)	47 (35)	57 (42)	73 (54)	80 (59)	104 (77)	41 (30)	57 (42)
1/2	57 (42)	73 (54)	87 (64)	113 (83)	123 (91)	159 (117)	61 (45)	88 (64)
9/16	81 (60)	104 (77)	125 (92)	163 (120)	176 (130)	229 (169)	88 (65)	125 (92)
5/8	112 (83)	145 (107)	174 (128)	224 (165)	244 (180)	316 (233)	122 (90)	172 (127)
3/4	198 (146)	256 (189)	306 (226)	397 (293)	432 (319)	560 (413)	217 (160)	306 (226)
7/8	193 (142)	248 (183)	495 (365)	641 (473)	698 (515)	904 (667)	350 (258)	494 (364)
1	289 (213)	373 (275)	742 (547)	960 (708)	1048 (773)	1356 (1000)	523 (386)	739 (545)
NOTE: Torque values shown with * are inch pounds.								

Identification of Hex Cap Screws and Carriage Bolts



GRADE 2
SAE BOLT



GRADE 5
SAE BOLTS



GRADE 8
SAE BOLTS



GRADE 2
SAE NUTS

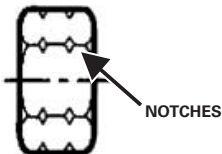


GRADE 5
SAE NUTS



GRADE 8
SAE NUTS

Identification of Hex Nuts and Lock Nuts

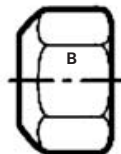


GRADE IDENTIFICATION

GRADE A: NO NOTCHES

GRADE B: ONE CIRCUMFERENTIAL NOTCH

GRADE C: TWO CIRCUMFERENTIAL NOTCHES

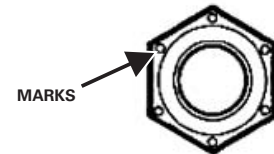


GRADE IDENTIFICATION

GRADE A: NO MARK

GRADE B: LETTER B

GRADE C: LETTER C



GRADE IDENTIFICATION

GRADE A: NO MARKS

GRADE B: THREE MARKS

GRADE C: SIX MARKS

MARKS NEED NOT BE
LOCATED AT CORNERS

Warranty

Farm King Base Limited Warranty.....	79
Repair Parts Limited Warranty.....	79
What Is Not Covered.....	79
Authorized Dealer And Labor Costs.....	79
Warranty Requirements.....	80
EXCLUSIVE EFFECT OF WARRANTY AND LIMITATION OF LIABILITY.....	80

Farm King



Farm King Base Limited Warranty

Farm King provides this warranty only to original retail purchasers of its products. Farm King warrants to such purchasers that all Farm King manufactured parts and components used and serviced as provided for in the Operator's Manual shall be free from defects in materials and workmanship for a period following delivery to the original retail purchaser of one (1) year. This limited warranty applies only to those parts and components manufactured by Farm King. Parts and components manufactured by others are subject to their manufacturer's warranties, if any.

Farm King will fulfill this limited warranty by, at its option, repairing or replacing any covered part that is defective or is the result of improper workmanship, provided that the part is returned to Farm King within thirty (30) days of the date that such defect or improper workmanship is, or should have been, discovered. Parts must be returned through the selling representative and the buyer must prepay transportation charges.

Farm King will not be responsible for repairs or replacements that are necessitated, in whole or part, by the use of parts not manufactured by or obtained from Farm King. Under no circumstances are component parts warranted against normal wear and tear. There is no warranty on product pump seals, product pump bearings, rubber product hoses, pressure gauges, or other components that require replacement as part of normal maintenance.

Repair Parts Limited Warranty

Farm King warrants genuine Farm King replacement parts purchased after the expiration of the Farm King Limited Warranty, and used and serviced as provided for in the Operator's Manual, to be free from defects in materials or workmanship for a period of thirty (30) days from the invoice date for the parts. Farm King will fulfill this limited warranty by, at its option, repairing or replacing any covered part that is defective or is the result of improper workmanship, provided that the part is returned to Farm King within thirty (30) days of the date that such defect or improper workmanship is, or should have been, discovered. Such parts must be shipped to the Farm King factory at the purchaser's expense.

What Is Not Covered

Under no circumstances does this limited warranty cover any components or parts that have been subject to the following: negligence; alteration or modification not approved by Farm King; misuse; improper storage; lack of reasonable and proper maintenance, service, or repair; normal wear; damage from failure to follow operating instructions; accident; and/or repairs that have been made with parts other than those manufactured, supplied, and or authorized by Farm King.

Authorized Dealer And Labor Costs

Repairs eligible for labor under this limited warranty must be made by Farm King or an authorized Farm King dealer. Farm King retains the exclusive discretion to determine whether it will pay labor costs for warranty repairs or replacements, and the amount of such costs that it will pay and the time in which the repairs will be made. If Farm King determines that it will pay labor costs for warranty work, it will do so by issuing a credit to the dealer's or distributor's account. Farm King will not approve or pay invoices sent for repairs that Farm King has not previously approved. Warranty service does not extend the original term of this limited warranty.

Warranty Requirements

To be covered by warranty, each new product must be registered with Farm King within thirty (30) days of delivery to original retail purchaser. If the customer decides to purchase replacement components before the warranty disposition of such components is determined, Farm King will bill the customer for such components and then credit the replacement invoice for those components later determined to be covered by this limited warranty. Any such replacement components that are determined not to be covered by this limited warranty will be subject to the terms of the invoice and shall be paid for by the purchaser.

EXCLUSIVE EFFECT OF WARRANTY AND LIMITATION OF LIABILITY

TO THE EXTENT PERMITTED BY LAW, FARM KING DISCLAIMS ANY WARRANTIES, REPRESENTATIONS, OR PROMISES, EXPRESS OR IMPLIED, AS TO THE QUALITY, PERFORMANCE, OR FREEDOM FROM DEFECT OF THE COMPONENTS AND PARTS COVERED BY THIS WARRANTY AND NOT SPECIFICALLY PROVIDED FOR HEREIN.

TO THE EXTENT PERMITTED BY LAW, FARM KING DISCLAIMS ANY IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ON ITS PRODUCTS COVERED HEREIN, AND DISCLAIMS ANY RELIANCE BY THE PURCHASER ON FARM KING'S SKILL OR JUDGMENT TO SELECT OR FURNISH GOODS FOR ANY PARTICULAR PURPOSE. THE PURCHASER'S ONLY AND EXCLUSIVE REMEDIES IN CONNECTION WITH THE BREACH OR PERFORMANCE OF ANY WARRANTY ON FARM KING'S PRODUCTS ARE THOSE SET FORTH HEREIN. IN NO EVENT SHALL FARM KING BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES (INCLUDING, BY WAY OF EXAMPLE ONLY AND NOT LIMITATION, LOSS OF CROPS, LOSS OF PROFITS OR REVENUE, OTHER COMMERCIAL LOSSES, INCONVENIENCE, OR COST OF REPLACEMENT OF RENTAL EQUIPMENT). IN NO EVENT SHALL FARM KING'S CONTRACT OR WARRANTY LIABILITY EXCEED THE PURCHASE PRICE OF THE PRODUCT. (Note that some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above limitations and exclusion may not apply to you.) This warranty gives you specific legal rights and you may also have other rights, which vary from state to state.

Farm King neither assumes nor authorizes any person or entity, including its selling representatives, to assume any other obligations or liability in connections with the sale of covered equipment, or to make any other warranties, representations, or promises, express or implied, as to the quality, performance, or freedom from defect of the components and parts covered herein. No one is authorized to alter, modify, or enlarge this limited warranty, or its exclusions, limitations and reservations.

Corrections of defects and improper workmanship in the manner, and for the applicable time periods, provided for herein shall constitute fulfillment of all responsibilities of Farm King to the purchaser, and Farm King shall not be liable in negligence, contract, or on any other basis with respect to the subject equipment.

This limited warranty is subject to any existing conditions of supply which may directly affect Farm King's ability to obtain materials or manufacturer replacement parts.

Buhler Industries Inc. reserves the right to make improvements in design or changes in specifications to its products at anytime, without incurring any obligation to owners of units previously sold.

www.farm-king.com

Farm King

301 Mountain Street South
Morden, MB R6M 1X7
Toll Free: 887.524.1004
E-mail: info@buhler.com
www.farm-king.com

Equipment shown is subject to change without notice.
©2025 Buhler Trading Inc. Printed in Canada AD TSX:BUI

bühler | a division of Buhler Industries Inc.