

Farm King

OPERATOR AND PARTS MANUAL

Finishing Mower

Heavy-Duty Series
Models 555, 655, 755

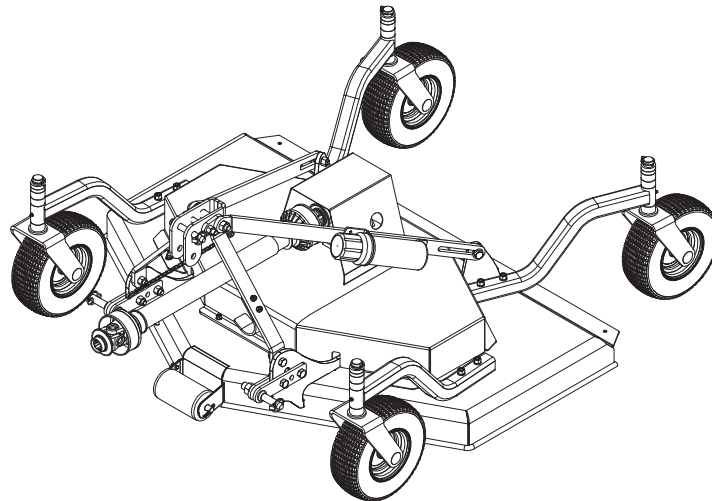


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Manufacturer's Statement: For technical reasons, Buhler Industries Inc. reserves the right to modify machinery design and specifications provided herein without any preliminary notice. Information provided herein is of descriptive nature. Performance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

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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:
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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

☐	Pulleys Turn Freely
☐	Check Belt Tension
☐	Check Gear Box Oil Level
☐	Blades Oriented Properly
☐	Fasteners Tight
☐	Lubricate Machine

Safety

☐	Safety Chain On Hitch
☐	All Decals Installed
☐	Guards And Shields Installed And Secure
☐	Review Operating And Safety Instructions
☐	Check Gear Box For Leaks

Date:	Dealer Rep. Signature:
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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:
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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.

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Owner's Information

Thank you for your decision to purchase a Farm King Finishing 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.

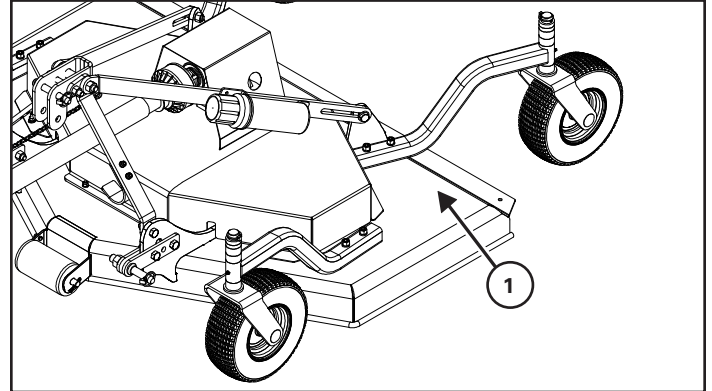
Keep this manual available for frequent reference. All new operators or owners must review the manual before using the equipment and annually thereafter. Contact your Farm King Dealer if you need assistance, information, or additional copies of the manual. Visit our website at www.farm-king.com for a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

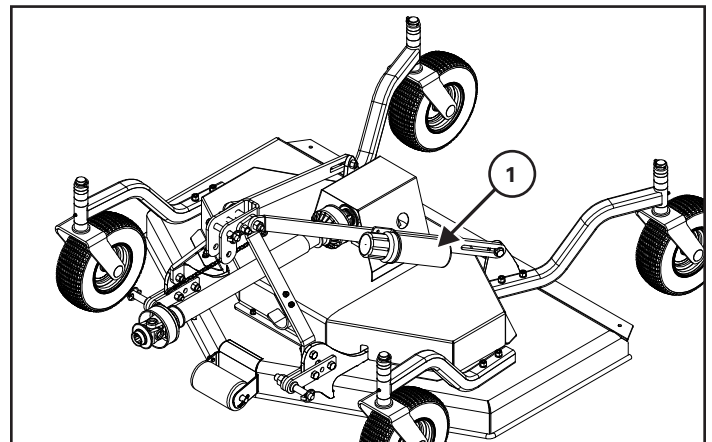
Serial Number: _____

The serial number plate (Item 1) is located on the LH mower deck [Figure 1].

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

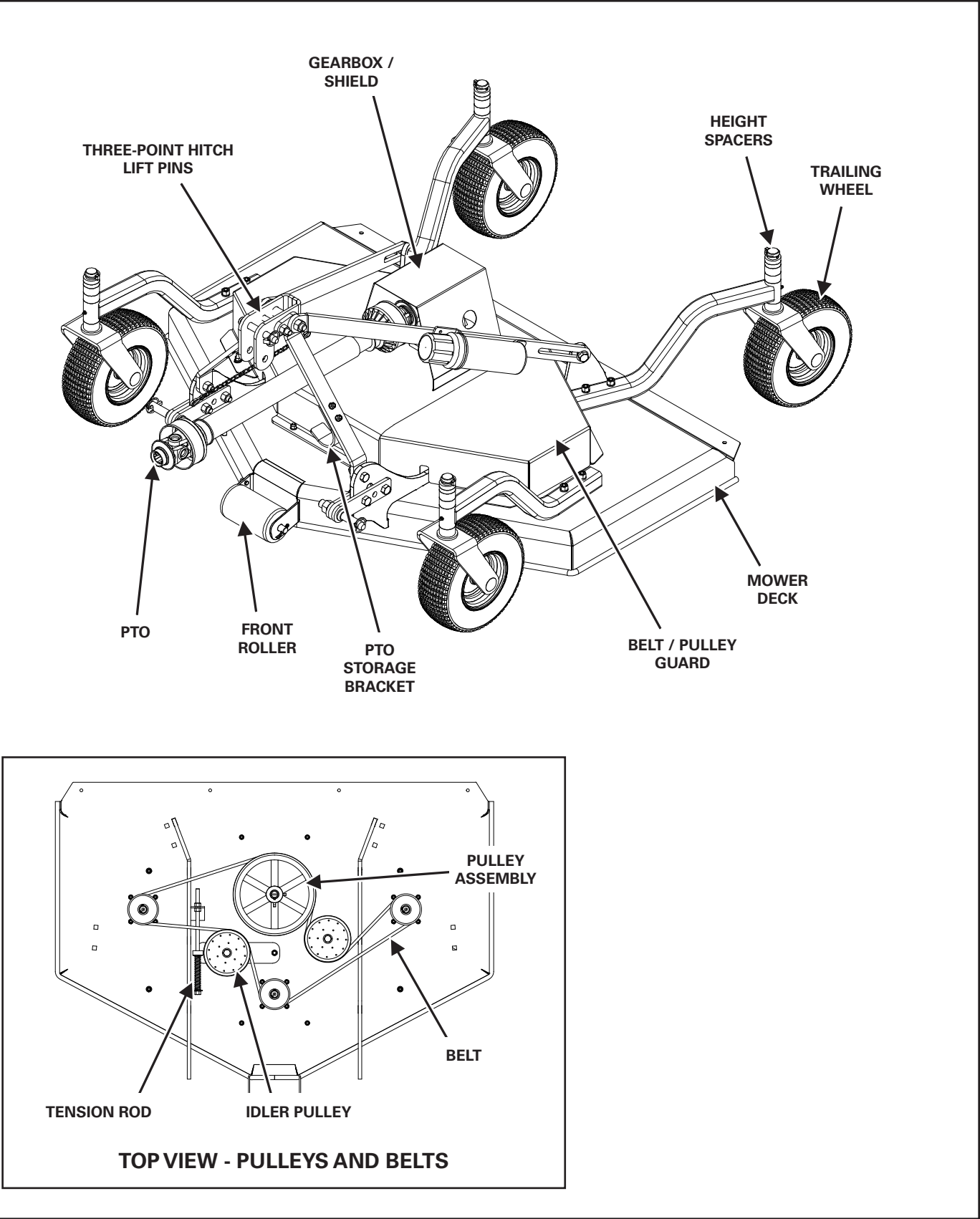
Manual Storage

Figure 2



The operator and parts manual and other documents can be stored in the canister (Item 1) [Figure 2].

Equipment Identification



Safety

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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


WARNING

Operators must have instructions before operating the machine. Untrained operators can cause injury or death.

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 Operators Manual before operating.
- Under no circumstances should young children be allowed to work with this equipment.
- 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 so 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.
- Stop tractor engine, place all controls in neutral, set park brake, remove ignition key and wait for all moving parts to stop before servicing, adjusting, repairing, unplugging or filling.
- DO NOT make any adjustments or repairs on the equipment while the machine is running.
- Keep shields and guards in place. Replace if damaged.
- Keep hands, feet, hair and clothing away from all moving parts.

Power Take-Off (PTO) Driven Equipment Safety

- Keep PTO shields and all guards in place. Replace damaged or missing shields and guards before operating.
- DO NOT use spline adapters, extensions, or other unguarded PTO attachments. Use may limit telescoping, cause improper RPM, or cause other damage to the driveline.
- Make sure shear pins are installed correctly.
- Follow all warnings and instructions on safety or equipment signs. Replace any damaged or missing signs.
- DO NOT wear loose or bulky clothing around the PTO or other moving parts.
- DO NOT operate PTO during poor visibility or without illumination.
- Keep bystanders away from PTO driven equipment, and never allow children near machines.
- Read and understand the manuals for the PTO driven equipment and be aware of safe operating procedures and hazards that may not be readily apparent.
- Never operate over 540 rpm.
- Always walk around equipment to avoid entanglement. DO NOT step over, lean across, or crawl under a turning PTO.
- Position the machine and equipment hitch correctly to prevent driveline stress and separation.
- Make sure there is NO interference between the PTO and tractor hitch or drawbar.
- Make sure there is NO interference between the PTO and hydraulic hoses, electrical cords, ropes, or other loose components.
- Use caution when raising or lowering PTO driven equipment.
- PTO components may be hot after use. Allow components to cool before touching.
- Always use caution when operating PTO driven equipment. Be extra cautious and attentive when operating stationary equipment.

Machine Requirements And Capabilities

- Fasten seat belt securely. If equipped with a folding Roll-Over Protective Structure (ROPS), only fasten seat belt when ROPS is up and locked. DO NOT wear seat belt if ROPS is down.
- 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.
- Keep bystanders clear of moving parts and the work area. Keep children away.
- 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

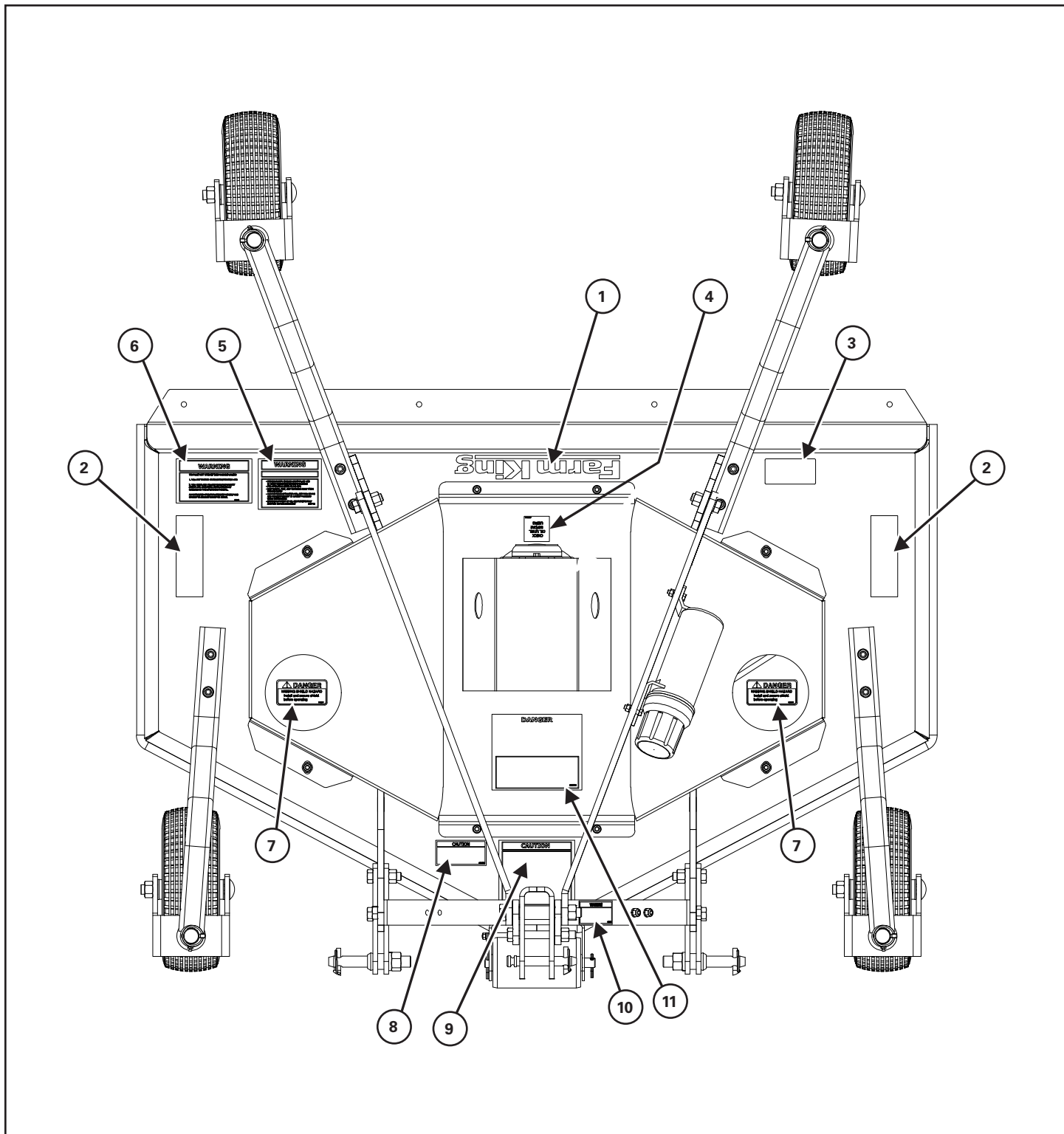


- Know where fire extinguishers and first aid kits are located and how to use them. Inspect the fire extinguisher and service the fire extinguisher regularly. Obey the recommendations on the instructions plate.

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



Safety Signs And Equipment Decals [Figure 3]

555 FARM KING (1.85" X 12") - 910625 (Item 1)



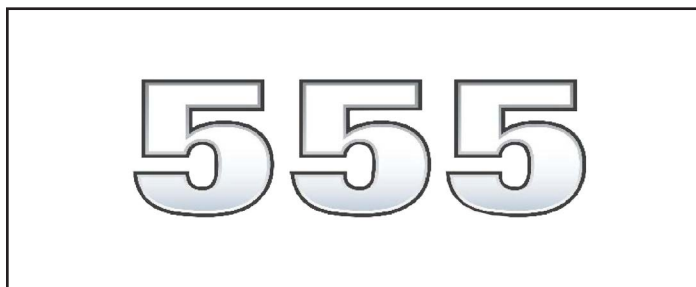
655 FARM KING (2.875 X 19.45") - 910626 (Item 1)



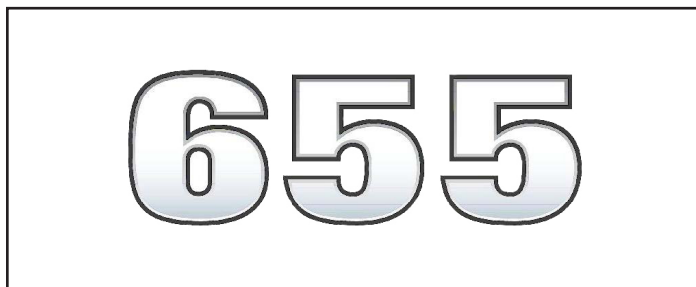
755 FARM KING (2.875 X 19.45") - 910626 (Item 1)



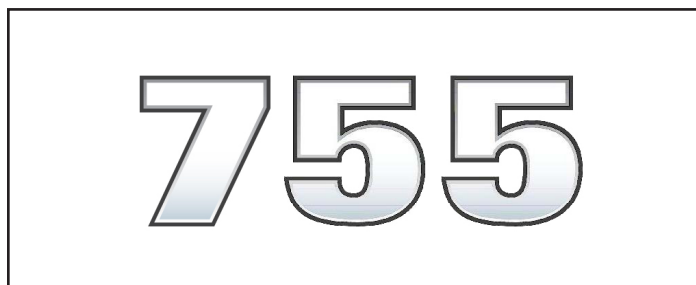
555 MODEL NUMBER - 914236 (Item 2)



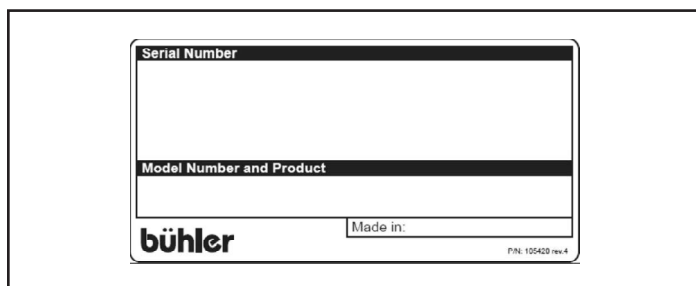
655 MODEL NUMBER - 914012 (Item 2)



755 MODEL NUMBER - 913250 (Item 2)



SERIAL NUMBER PLATE - 105420 (Item 3)



CHECK OIL - 967388 (Item 4)



WARNING SAFETY - 966701 (Item 5)



WARNING FINISHING MOWER - 966702 (Item 6)



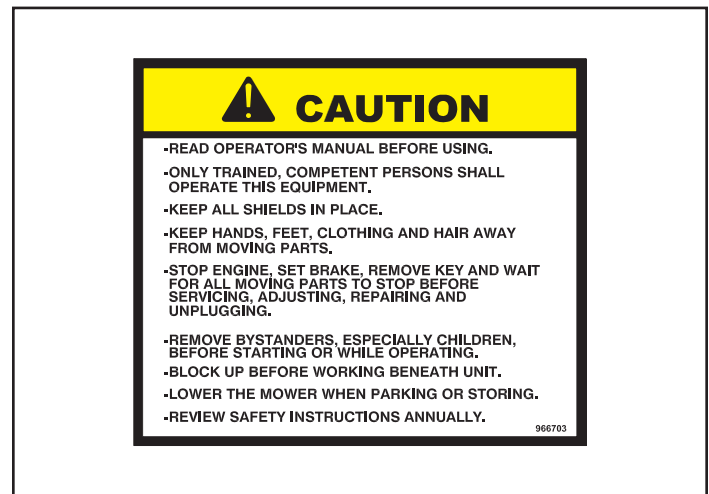
MISSING SHIELD HAZARD - 915861 (Item 7)



CAUTION NO RIDERS - 966700 (Item 8)



CAUTION FINISHING MOWER - 966703 (Item 9)



WARNING CHECK PTO - 108431 (Item 10)



DANGER FINISHING MOWER - 966704 (Item 11)



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

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Pre-Operation Checklist

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



WARNING

AVOID INJURY OR DEATH

- Disengage the PTO, engage the machine's parking brake, stop the engine and make sure all rotating components are completely stopped before connecting, disconnecting, adjusting or cleaning any PTO driven equipment.
- Always keep PTO shields and all guards in place when using PTO driven equipment.
- Disengage PTO for road travel.
- Keep hands, feet and clothing away.



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.

1. Lubricate the equipment per the schedule outline in the Maintenance Section.
2. Check the equipment hitch for damaged, loose or missing parts. Repair as needed before operation.
3. Check tires, axles, and yokes for damage.
4. Fully clean the equipment.
5. Inspect all safety reflective decals, slow moving vehicle decals and lights where applicable.

Tractor Requirements

Tractors must satisfy the following requirements.

555 Models:

- 15—55 HP with 540 RPM PTO
- Three-point hitch Cat.1
- 6 Spline 1-3/8" PTO shaft

655 Models:

- 20—55 HP with 540 RPM PTO
- Three-point hitch Cat.1
- 6 Spline 1-3/8" PTO shaft

755 Models:

- 25—55 HP with 540 RPM PTO
- Three-point hitch Cat.1
- 6 Spline 1-3/8" PTO shaft



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.

Three-Point Hitch

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



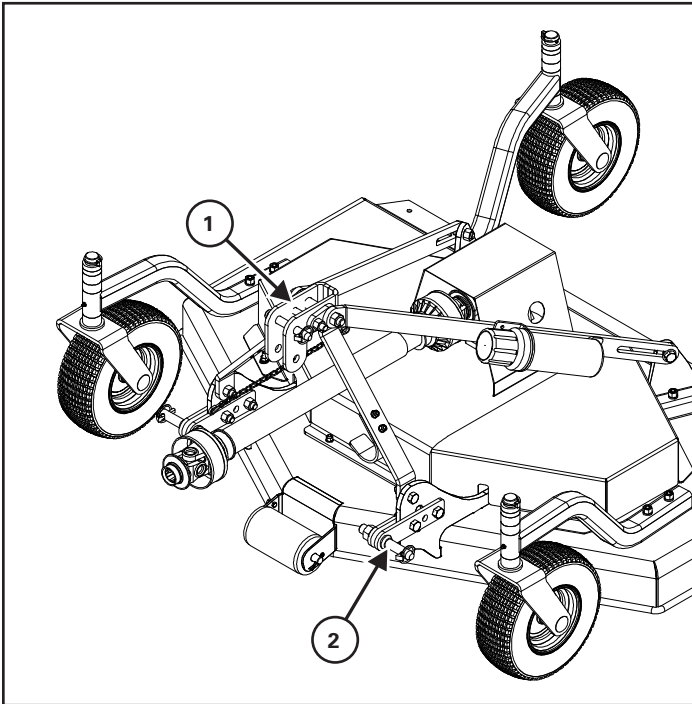
AVOID INJURY OR DEATH

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

Figure 4



Remove the top implement lift pin (Item 1) and 7/16" retaining pin from the equipment [Figure 4].

Remove the 7/16" retaining pins from the left and right lower lift pins (Item 2) [Figure 4].

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

Leave the operator's position. Install the tractor left and right lower three-point mounts to the implement left and right lower lift pins.

Reinstall the 7/16" retaining pins.

Lower the top link of the tractor three-point hitch until it aligns with the implement upper mount.

Reinstall the lift pin and 7/16" retaining pin.

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

The equipment can be leveled front to back by adjusting the top link (see the tractor 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.

PTO Driveline

Connecting To Tractor

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.

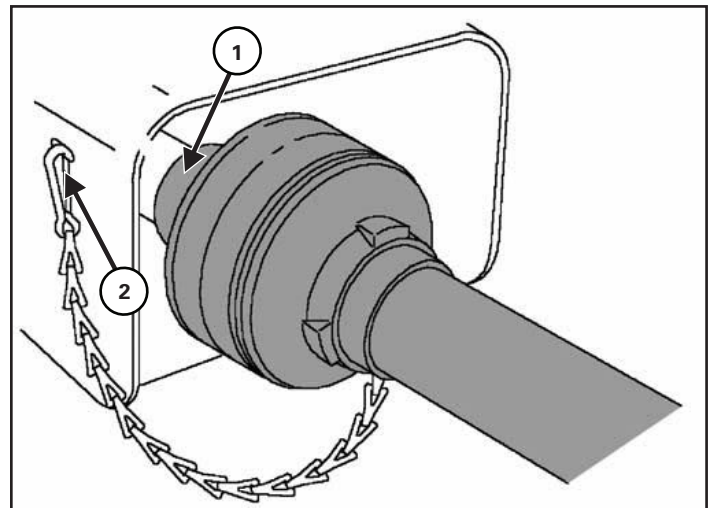
Do not modify the three point hitch.

Make sure the PTO driveline is of adequate length and that u-joints are in the correct phase.

Make sure there is NO interference between PTO and three-point hitch or tractor drawbar.

Make sure all PTO guards and shields are in place. Make sure any shear pins are installed correctly.

Figure 5



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 5].

Install PTO driveline safety chain (Item 2) [Figure 5].

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



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.

PTO Driveline Length Check

Due to variations in distances between tractor PTO shafts and implement input shafts, drivelines 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

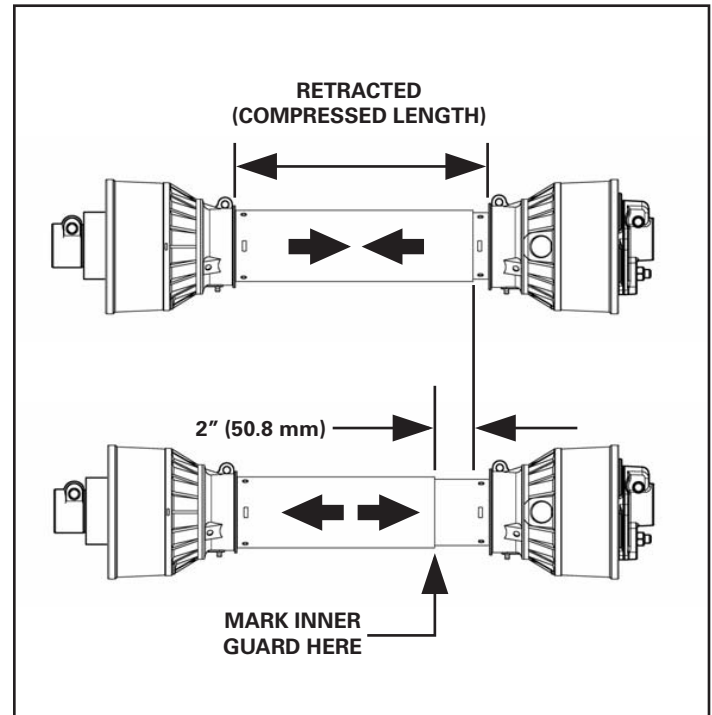
AVOID INJURY OR DEATH

- 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 6



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 6].
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 6].
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.



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.

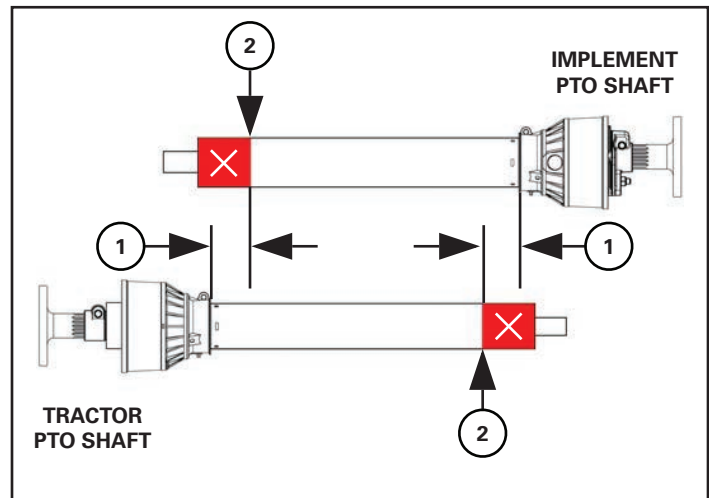
Remove the PTO driveline from the tractor and place in storage position (if equipped).

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.

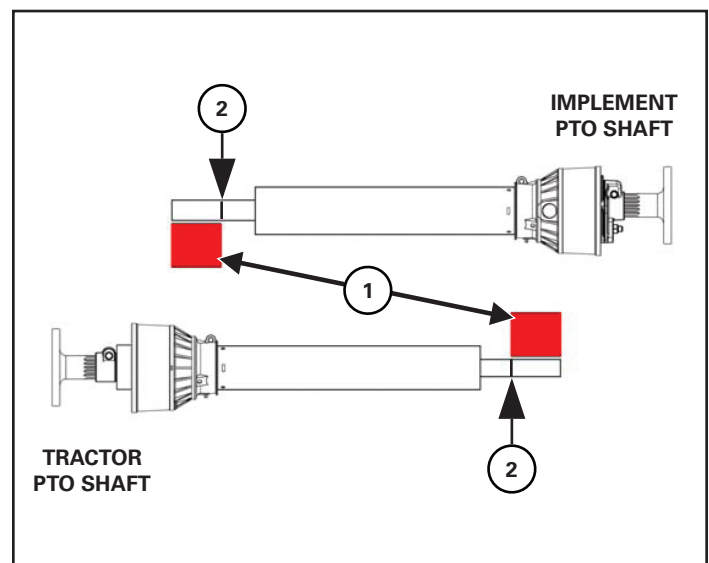
Pull the PTO driveline apart and reinstall each individual section; one half to the tractor PTO shaft and one half to the implement gearbox PTO shaft.

Figure 7



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 7].

Figure 8



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 8].
3. Round off all sharp edges.
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.

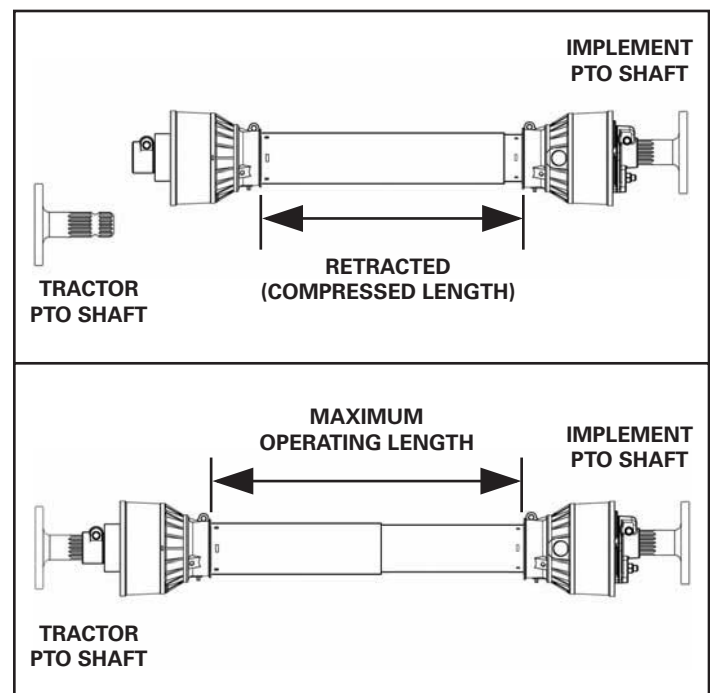
1. Disconnect the PTO driveline from the tractor and fully slide the driveline sections together (retracted).
2. Measure the retracted (compressed) length of the PTO driveline between the bases of the plastic guards [Figure 9].
3. Multiply the retracted driveline length by 1.667 to determine the PTO 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. (See "Entering The Operator's Position" in the Operation section)
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 9].

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 drivelines.

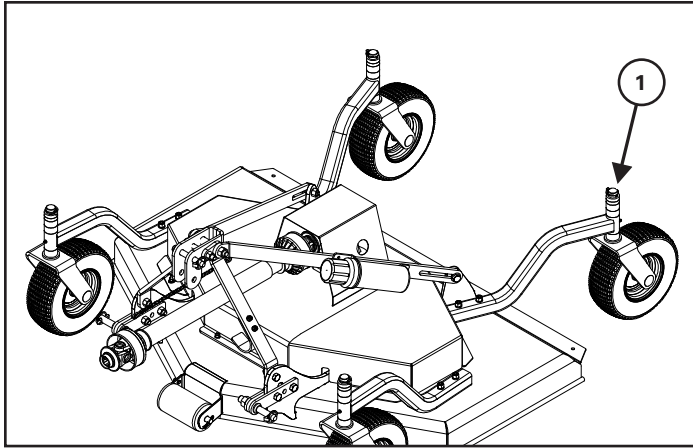
Figure 9



Operation

Pre-Operation

Figure 10



Park the unit on hard level ground with the mower slightly raised.

Adjust the sway blocks or chains on the tractor so the mower is centered between the rear wheels.

Adjust the three-point hitch arms to level the mower side to side. Adjust the turnbuckle on the top three-point hitch arm to level the mower front and back.

Adjust the cutting height using the wheel spacers (Item 1) on the wheel yokes. The spacers should be set at the same height on all four wheels **[Figure 10]**.

Cutting height may be adjusted from 1-1/2" to 5-1/2".



- Read operator and parts manual before operating the implement.
- Do not permit riders.
- Remove bystanders, especially children, before starting or while operating.
- Clear the working area of obstacles.
- Review safety instructions annually.

Start-up

Move the tractor and finishing mower to work area.

Start the tractor with the mower resting on the ground on all four wheels.

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.

Cutting Process

Start driving forward at the desired speed. Avoid obstructions that may cause damage to the mower.

The PTO must run at full 540 RPM for optimal cutting.

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

Use a higher deck setting for rough areas to prevent scalping of the surface.

Always cut counter-clockwise so grass clippings are thrown on the grass already cut. This saves power and wear on the blades.

Sharpen blades if grass tears instead of cutting cleanly.

Slow down when cutting corners. Turning sharply on corners can leave a small strip of grass uncut.



Recommended operating ground speed is 5 mph (8 km/h).

Use slower speeds when operating around inclines, rough terrain, or obstacles.



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.



DANGER

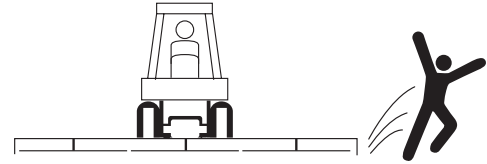


ROTATING BLADES CAN CAUSE SERIOUS INJURY OR DEATH

- Stay clear of rotating parts.
- Blades may rotate for several minutes after power shut off.
- Do not place hands or feet under or into the cutting area.
- Disengage power, stop engine, set park brake, remove ignition key and make sure blades have stopped turning before leaving cab.



DANGER



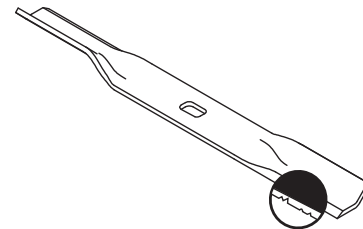
THROWN OBJECT HAZARD

To prevent serious injury or death from thrown objects:

- Stay clear and watch out for bystanders. Stop if bystanders come close to work area. Keep all shields in place. Use protective shields on all discharge openings at front and rear of deck whenever possible.
- Before working on mower: Disengage power, shut off engine, remove key and make sure all blades have stopped turning.

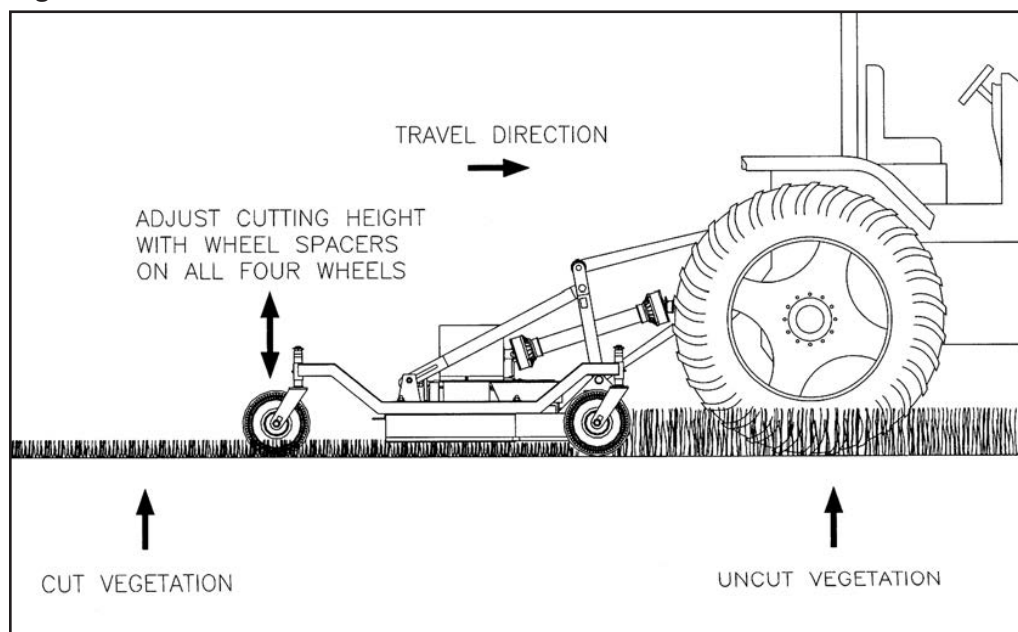


DANGER

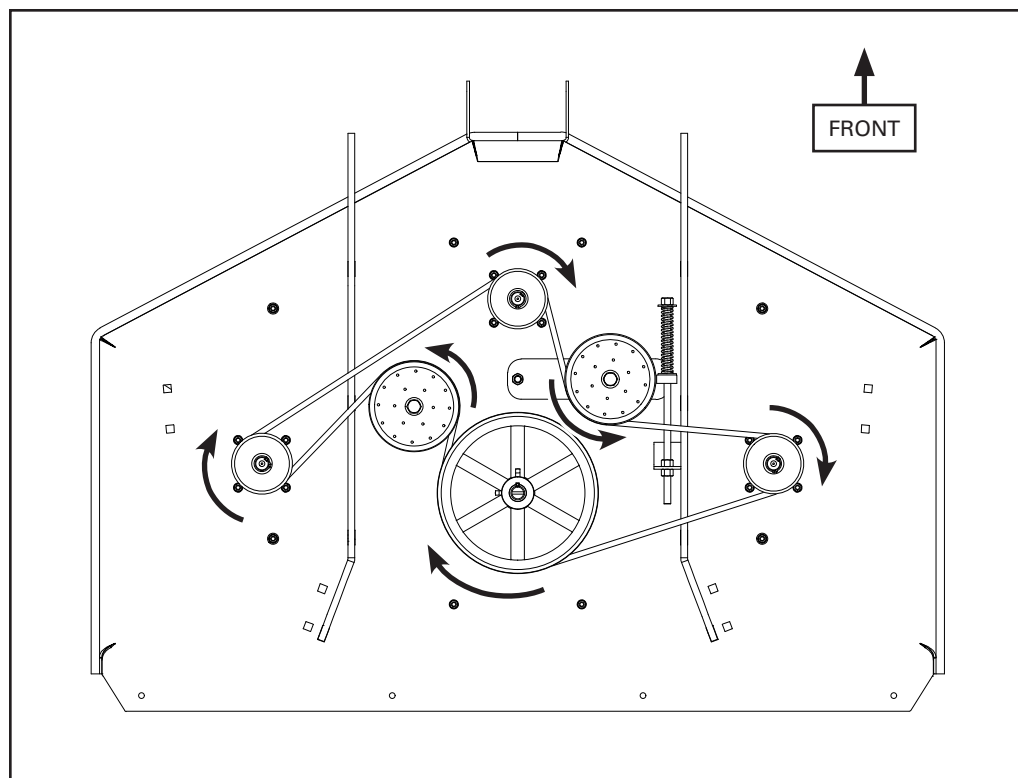


DAMAGED BLADES CAN CAUSE SERIOUS INJURY OR DEATH

- Inspect blades daily for chips, cracks, wear and abnormal bends.
- Unbalanced blades are dangerous.
- Replace blades with genuine Farm King blades only.

Figure 11

Theory of operation is as shown [Figure 11].

Figure 12

Direction of blade rotation is as shown, viewed from the top. View contains only the deck, pulleys, and belt [Figure 12].

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
- Disconnect the hitch arms and the PTO shaft
- Cover the mower for storage to prevent rust

Transportation

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

**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) during transport.

**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.

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

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.

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

Maintenance

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Farm King



Troubleshooting



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.

If a problem is encountered that is difficult to solve, even after having read through this troubleshooting section, please call your local distributor or dealer. Before you call, please have this Operator And Parts Manual and the serial number of your machine at hand.

PROBLEM	CAUSE	CORRECTION
PTO driveline failure.	Shock load.	Avoid contacting solid objects with blades.
	PTO driveline dry.	Lubricate PTO driveline.
Bent PTO driveline shaft.	PTO driveline contacting tractor draw bar.	Reposition draw bar.
	PTO driveline bottoming out.	Shorten driveline.
	PTO driveline binding.	Lubricate PTO driveline.
PTO driveline telescoping tube failure.	Shock load.	Avoid contacting solid objects with blades.
PTO driveline telescoping tube wearing.	PTO driveline dry.	Lubricate PTO driveline.

PROBLEM	CAUSE	CORRECTION
Gearbox seal leaking.	Gearbox over-filled.	Drain excess gear oil from gearbox.
	Damaged or worn seals.	Replace seals.
	Debris wrapped around shaft.	Remove debris and inspect seals. Replace as needed.
Blades do not rotate.	Tractor equipped with instant on PTO.	Engage PTO at low RPM, then slowly increase engine RPM to full PTO speed.
	Tractor equipped with instant off PTO.	Decrease engine RPM slowly to an idle before disengaging PTO.
Excessive blade wear.	Operating on sandy ground.	Adjust cutting height.
	Blades contacting the ground.	Adjust cutting height.
Blades loosening.	PTO operating RPM too high.	Lower RPM speed to correct operating speed.
	Blade bolts not torqued properly.	Tighten blade bolts to proper torque.
	Cutting in very wet conditions.	Allow work area to dry.
	Cutting too low, scalping ground.	Raise cutting height.
	Cutting too low in rocky conditions.	Raise cutting height.

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 8 HOURS OF USE)						
1	WHEELYOKE BOLTS	✓				
2	BLADES	✓				
3	BELTS	✓				
4	PTO CROSS AND BEARINGS			✓		
5	WHEEL SPINDLES			✓		
BI-WEEKLY (OR EVERY 20 HOURS OF USE)						
6	PTOTELESCOPINGTUBES			✓		
7	PTO QUICK DISCONNECT			✓		
8	PTO GUARD BUSHINGS			✓		
WEEKLY (EVERY 50 HOURS OF USE OF USE)						
9	THREE-POINT HITCH	✓				
10	GEARBOX	✓				
ANNUALLY (EVERY 200 HOURS OF USE)						
11	GEARBOX (OIL)				✓	✓

Lubrication

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.

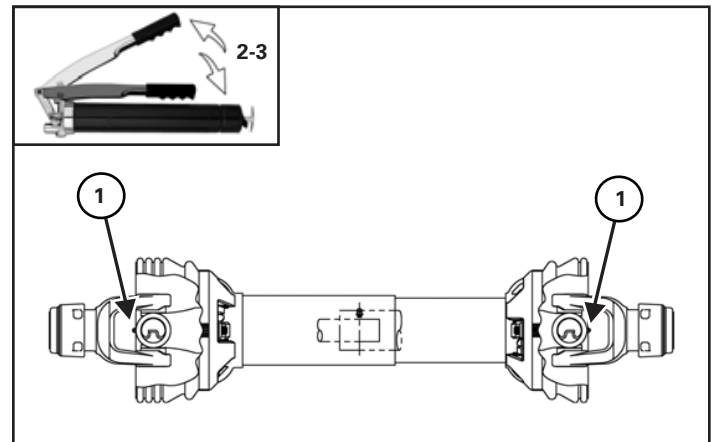
PTO Driveline Grease Locations



IMPORTANT

Fluid such as engine oil, hydraulic fluid, coolants, grease, etc. must be disposed of in an environmentally safe manner. Some regulations require that certain spills and leaks on the ground must be cleaned in a specific manner. See local, state and federal regulations for the correct disposal.

Figure 13

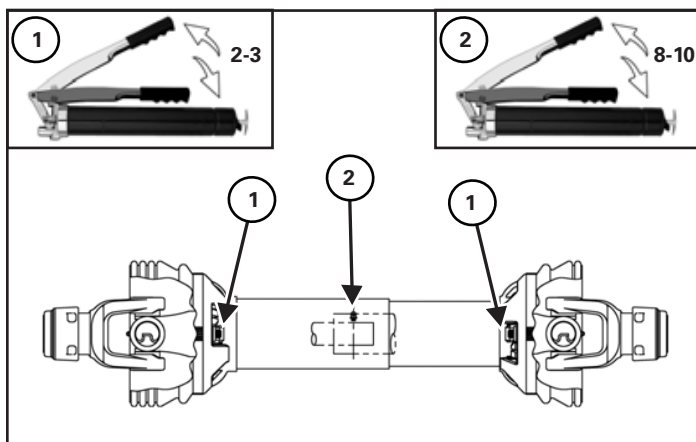


Apply two to three pumps of grease to the cross and bearings (Item 1) on the PTO driveline **[Figure 13]**.

Grease every **8 hours**.

Note: Images may not show your exact PTO driveline but the procedure is correct.

Figure 14

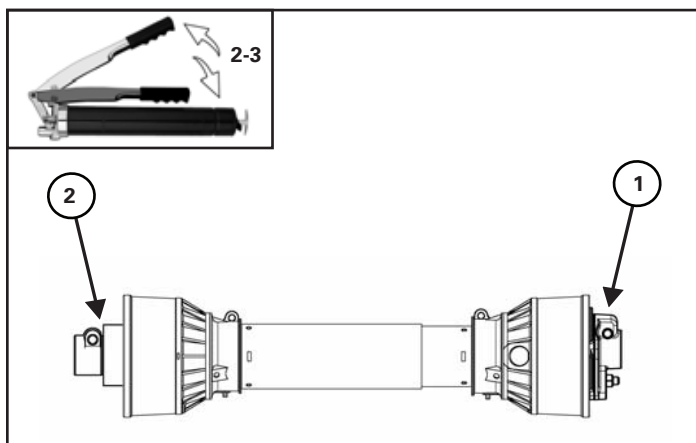


Apply two to three pumps of grease to the guard bushings (Item 1) **[Figure 14]**.

Apply eight to ten pumps of grease to the telescoping member (Item 2) **[Figure 14]**.

Grease every **20 hours**.

Figure 15

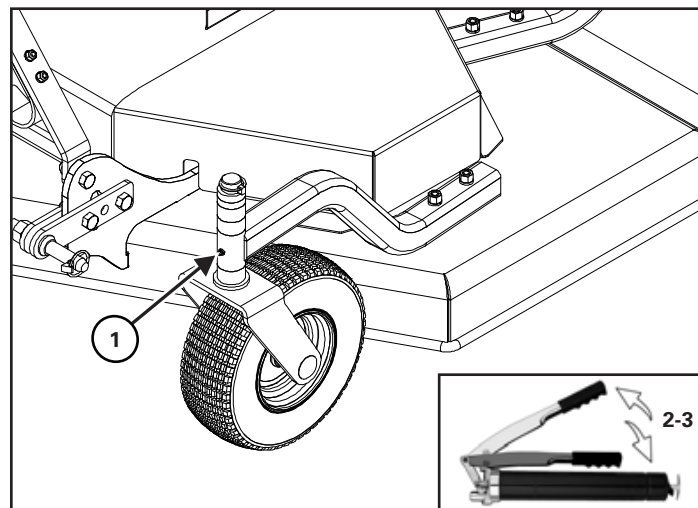


Apply two to three pumps of grease to the shear pin (Item 1) and PTO quick disconnect (Item 2) **[Figure 15]**.

Grease every **20 hours**.

Wheel Spindle Grease Locations

Figure 16



Apply two to three pumps of grease to the wheel spindles (Item 1) **[Figure 16]**.

Grease every **8 hours** of use.

Gearbox

Checking Gear Oil Level

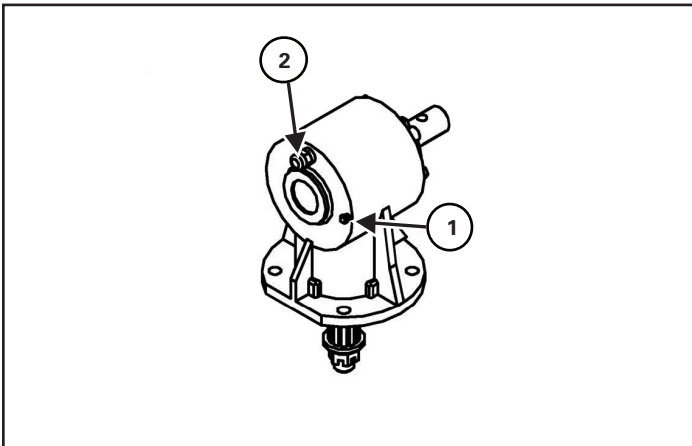
Park the tractor and equipment on a flat level surface.



IMPORTANT

Allow gear oil to settle into the bottom cavity of the gearbox for approximately 15-20 min. before checking level.

Figure 17



Remove check plug (Item 1). Oil level should be at the bottom edge of the plug [Figure 17].

Check every **50 hours** of use.

Changing Oil

Remove fill plug (Item 2). Add SAE 80W-90 gear oil and check oil level [Figure 17].

Change oil every **200 hours** of use.

Blades

Inspection

Inspect blades for chips, cracks, wear, or abnormal bends.

Check every **8 hours** of use.

Replacement

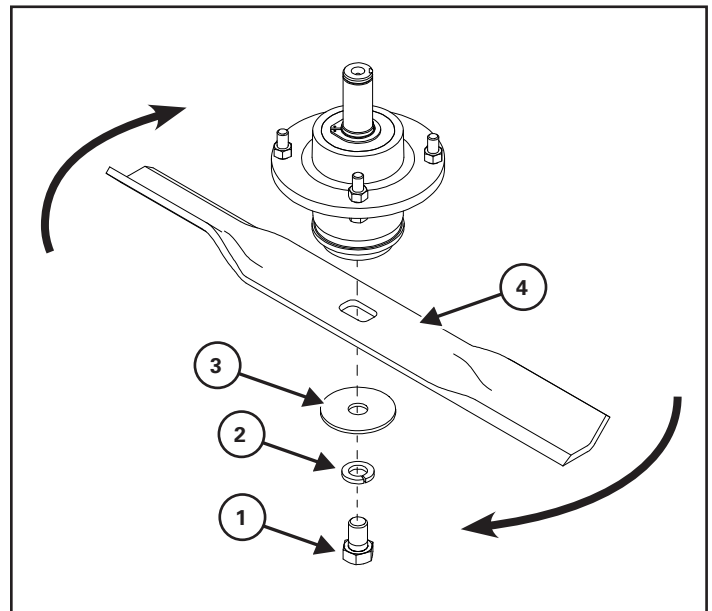
Fully raise the equipment and position blocking under frame, allowing access to blades.



IMPORTANT

Always use lifting devices, vehicles, chains, or straps of adequate size and strength when unloading and assembling components.

Figure 18

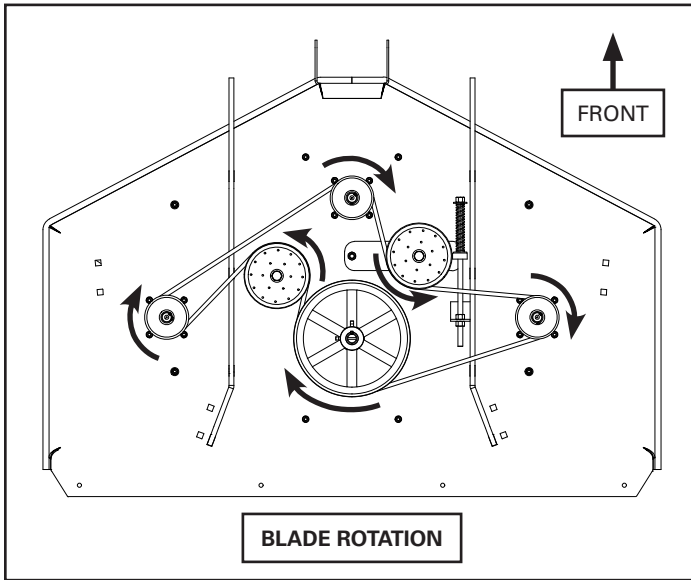


Remove the 5/8" x 1" Gr.8 hex bolt (Item 1), 5/8" lock washer (Item 2), and 2-1/2" OD x 21/32" ID washer (Item 3) [Figure 18].

Replace blade (Item 4). Attach the new blade with the cutting edge facing down and in the same direction of rotation [Figure 18].

Reinstall hardware. Torque blade bolts (Item 1) to 180 ft-lbs [Figure 18].

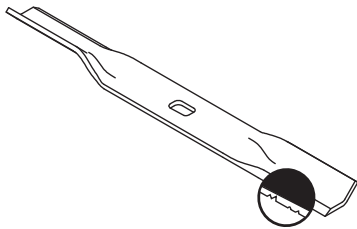
Figure 19



Direction of blade rotation is as shown, viewed from the top. View contains only the deck, pulleys, and belt [Figure 19].



DANGER



DAMAGED BLADES CAN CAUSE SERIOUS INJURY OR DEATH

- Inspect blades daily for chips, cracks, wear and abnormal bends.
- Do Not modify blades in any way such as sharpening, straightening or welding.
- Replace blades with genuine Farm King blades only.
- Unbalanced blades are dangerous.

Belts

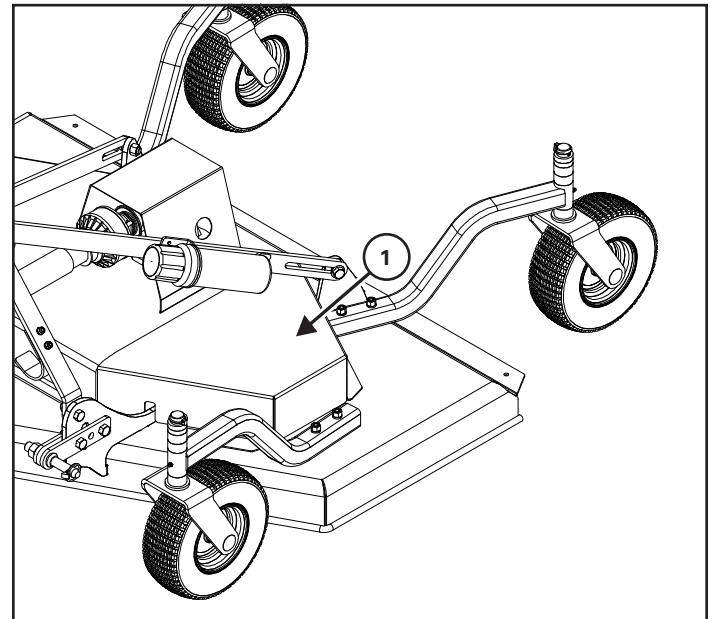
Inspection

Check belts for proper tension and alignment. Check for any wear or damage.

Check every **8 hours** of use.

Replacement

Figure 20



Remove the guards (Item 1) allowing access to the belts [Figure 20].

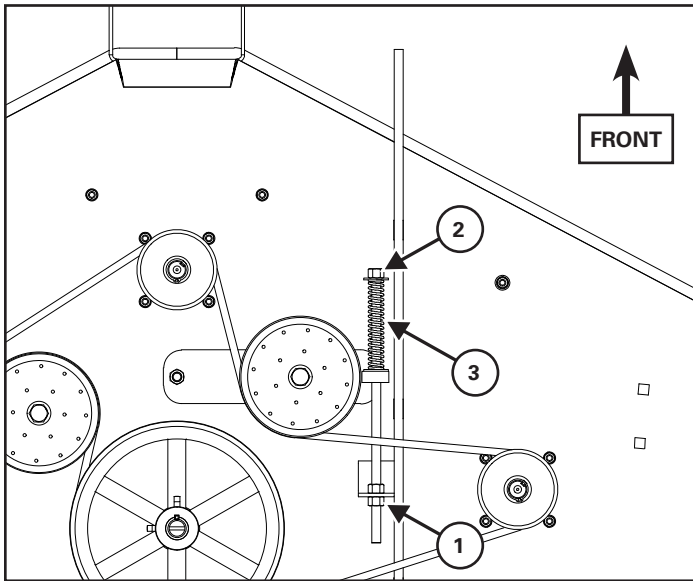


WARNING

AVOID INJURY OR DEATH

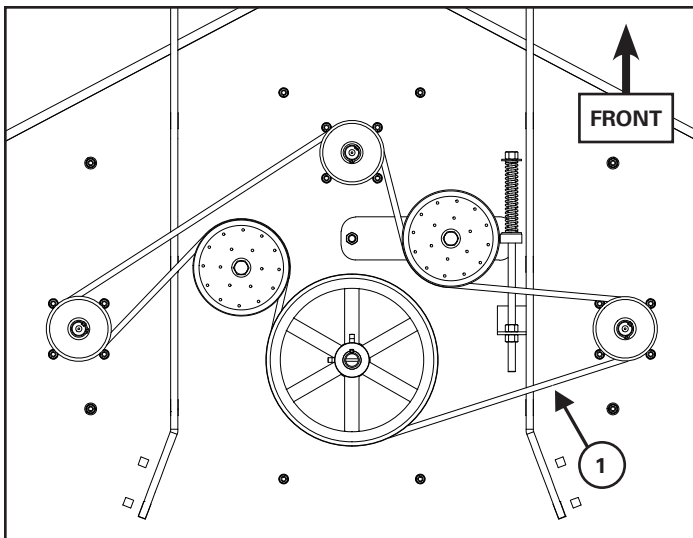
Stop engine, set brake, remove ignition key, and wait for all moving parts to stop before servicing, adjusting, repairing, or unplugging.

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

Figure 21

Loosen the 1/2" jam nuts (Item 1) on the tension rod. Loosen the tension rod (Item 2) to relieve tension in the belts **[Figure 21]**.

Remove the belt from the sheaves.

Figure 22

Place the new belt (Item 1) around the sheaves as shown, viewed from the top. Ensure the belt is fitted within the sheave grooves **[Figure 22]**.

One belt is fitted to the top grooves of the double sheave pulleys. One belt is fitted to the bottom grooves of the double sheave pulleys **[Figure 22]**.

Arrange the belts so that both the top and bottom belt spans have about the same amount of sag.

Apply tension to the belt by tightening the tension rod (Item 2) **[Figure 21]**.

Operate the finishing mower a few minutes to seat the belt in the sheave grooves. Observe the operation of the drive under its highest load condition (usually starting).

Belts are tensioned properly when the center of the longest belt span deflects 1/2". If the slack side remains taut during the peak load, the belts are too tight.

The spring (Item 3) should be compressed to 3" in length for proper belt tension **[Figure 21]**.

Reinstall guards and tighten jam nuts (Item 1) on the tension rod **[Figure 21]**.

Periodically check the belt tension during the first twenty-four hours of operation.

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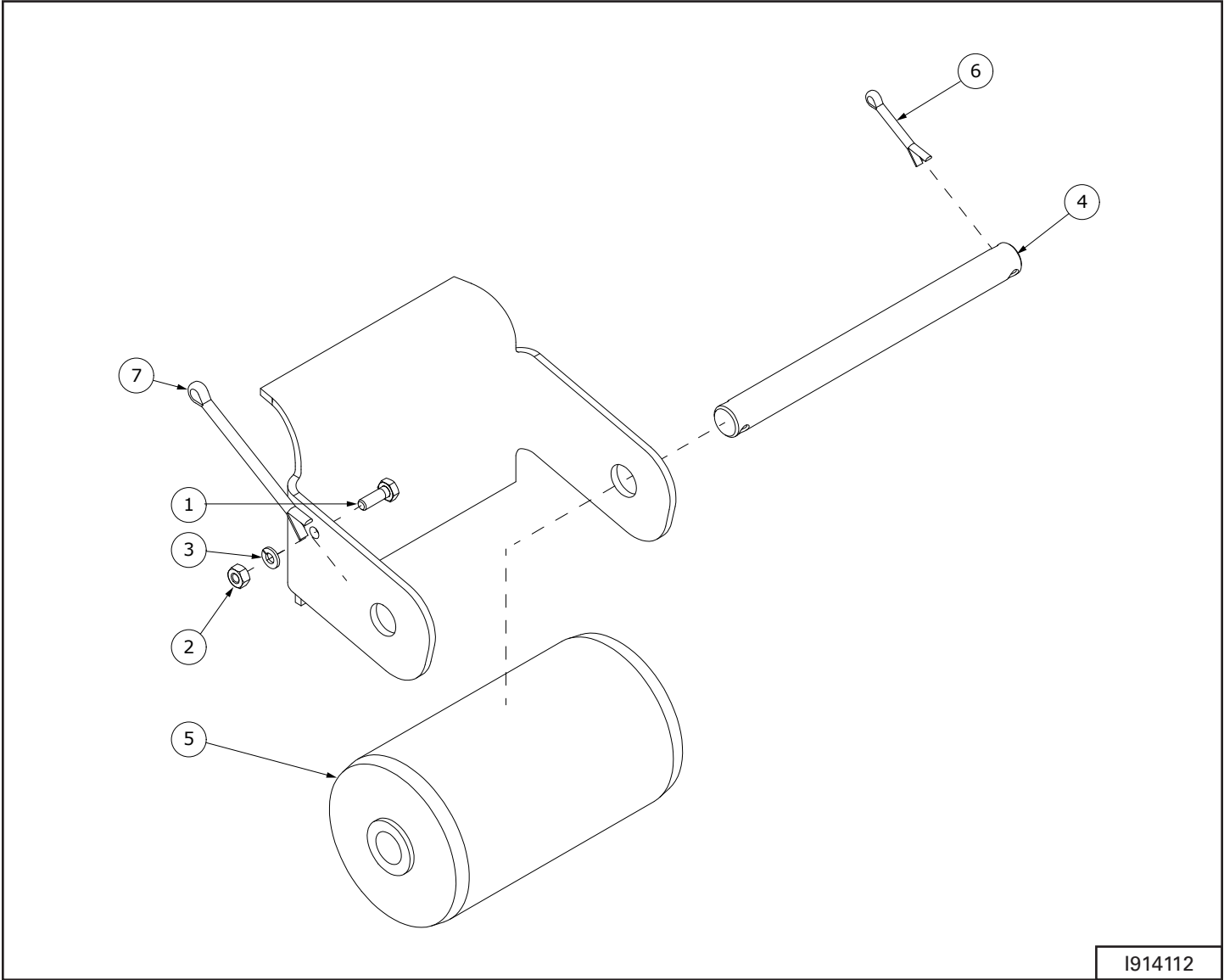
Farm King



General Parts Information

The parts identification section lists the descriptions, part numbers, and quantities for all North American base model 555, 655, 755 Finishing Mowers. Contact your Farm King dealer for additional parts information.

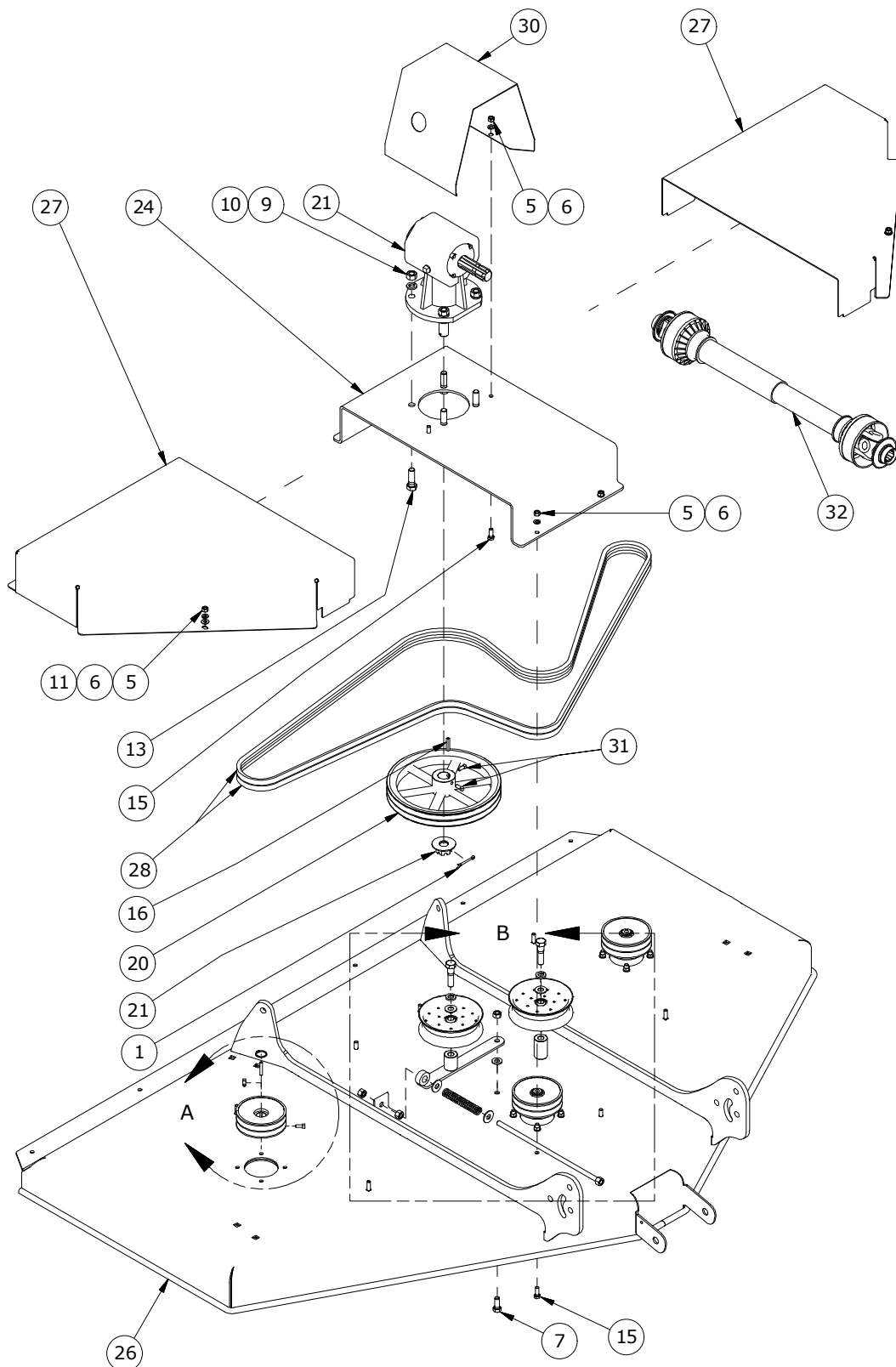
Front Roller



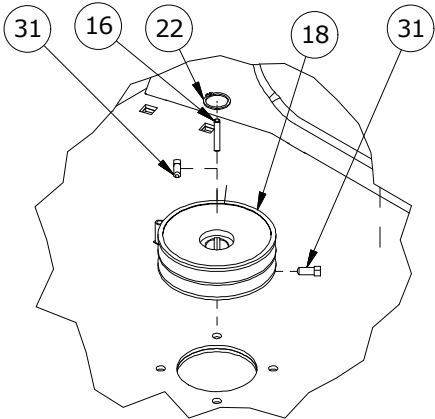
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ITEM	PART NUMBER	DESCRIPTION	QTY.
1	81525	1/4" X 3/4" HEX BOLT (PL)	1
2	81544	1/4" HEX NUT (PL)	1
3	81545	1/4" LOCK WASHER (PL)	1
4	903104	ROLLER PIN 0.750" DIA	1
5	903113	ROLLER ASSY	1
6	9812433	3/16" X 1 1/2" COTTER PIN	1
7	9812436	1/4" X 2 1/2" COTTER PIN (PL)	1

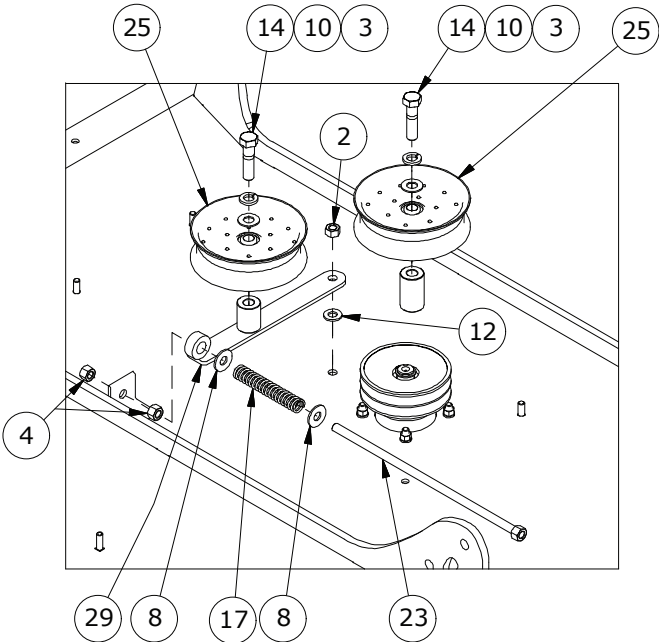
Deck



Y555, Y655, Y755



DETAIL A



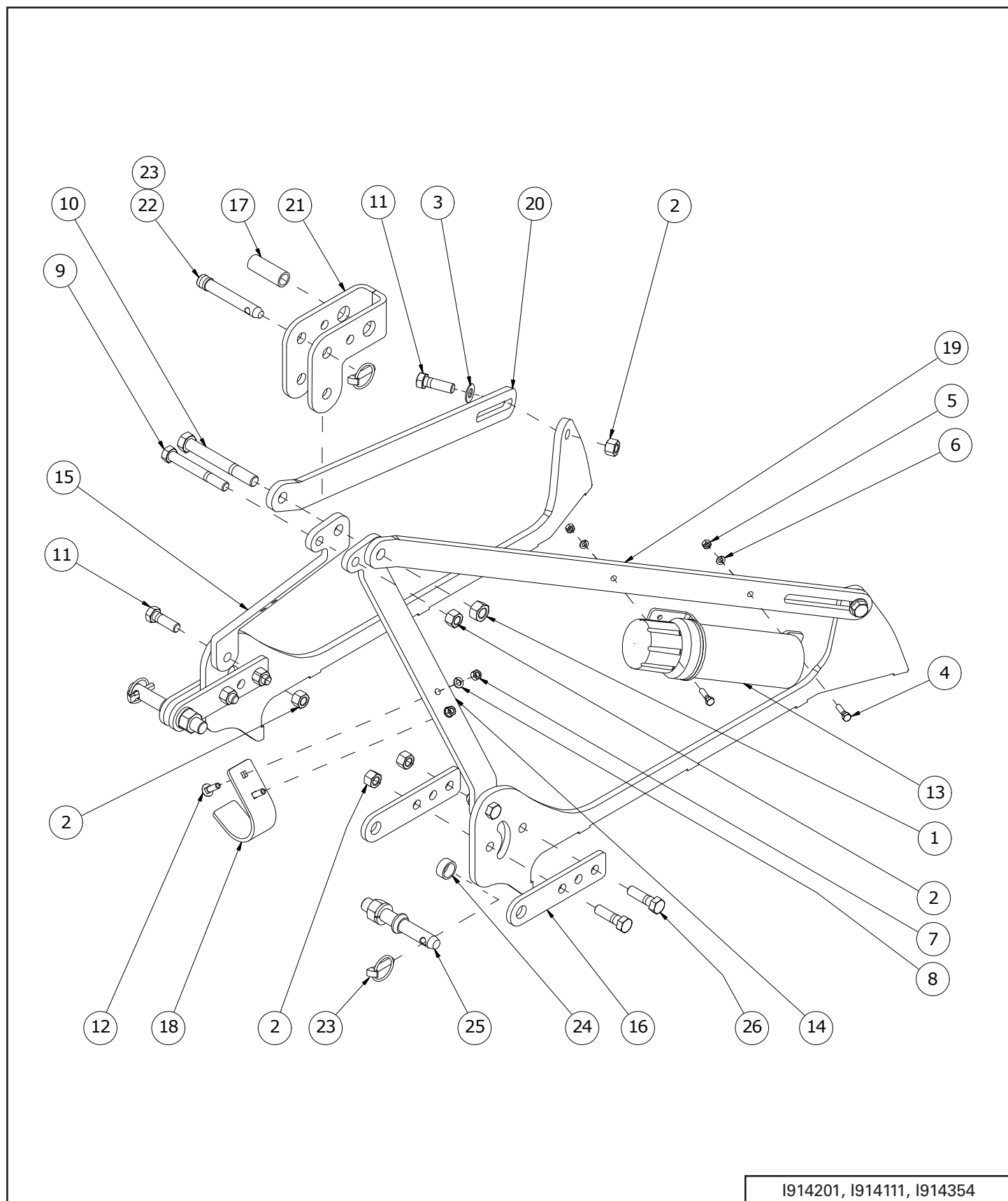
DETAIL B

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	81207	3/16" X 2" COTTER PIN (BR)	1
2	812364	1/2" LOCK NUT (PL)	1
3	812639	5/8" SAE FLAT WASHER (PL)	4
4	813508	1/2" HEX NUT GR5 (PL)	10
5	81592	3/8" HEX NUT (PL)	24
6	81593	3/8" LOCK WASHER (PL)	24
7	81620	1/2" X 1-1/4" HEX BOLT (PL)	1
8	81638	1/2" BS FLAT WASHER (PL)	2
9	81676	5/8" HEX NUT (PL)	4
10	81677	5/8" LOCK WASHER (PL)	6
11	84039	3/8" FLAT WASHER (PL)	4
12	84048	1/2" SAE FLAT WASHER (PL)	1
13	84299	5/8" X 2" HEX BOLT GR5 (PL)	8
14	84335	5/8 X 2-1/2" HEX BOLT (PL)	2
15	86170	3/8" X 1" HEX BOLT GR5 (PL)	6
16	900929	1/4" X 1/4" X 1-5/8" KEY	4
17	913194	COMPRESSION SPRING 7/8" OD X 5" LG	1
18	906554	DOUBLE SHEAVE Ø 4-1/2" X 2.3" (555, 655)	3
	906556	DOUBLE SHEAVE Ø 5-1/4" X 2.3" (755)	3
20	906582	SHEAVE-DOUBLE 12"	1
21	911377	GEARBOX (WITHOUT OIL, INCLUDES SLOTTED HEX NUT)	1
22	912301558	SNAP RING	3
23	913198	TENSION ROD WELDT	1
24	912367	GEARBOX MOUNT PLATE	1
25	912383	IDLER PULLEY	2
26	914191	WELDMENT - DECK (555)	1
	912385	WELDMENT - DECK (655)	1
	912322	WELDMENT - DECK (755)	1
27	914199	PLATE - SHIELD (555)	2
	912389	PLATE - SHIELD (655)	2
	912902	PLATE - SHIELD LEFT (755)	1
	912903	PLATE - SHIELD RIGHT (755)	1
28	915912	V-BELT-HI POWER II-B117 (555)	2
	915910	V-BELT-HI POWER II-B133 (655)	2
	915908	V-BELT-HI POWER II-B149 (755)	2
29	916465	TENSIONING WELDT	1
30	966748	PTO GUARD	1
31	9810943	5/16" X 3/4" SQ HD SET SCREW (BR)	8
32	F0400	PTO SHAFT (555)	1
	F0403	PTO SHAFT (655, 755)	1

Farm King

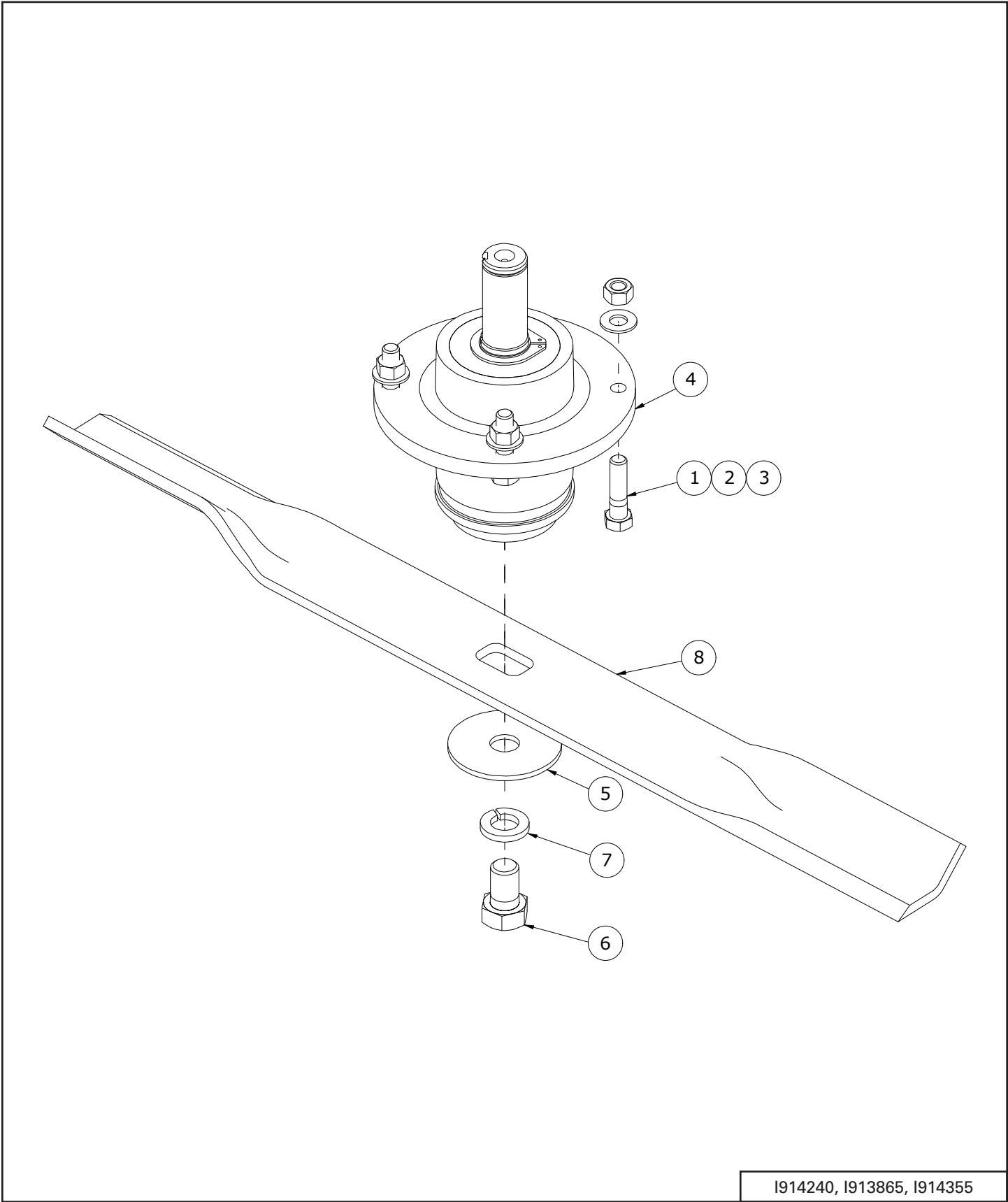


Three-Point Hitch



ITEM	PART NUMBER	DESCRIPTION	QTY.
1	812365	3/4" LOCK NUT (PL)	1
2	812482	5/8" LOCK NUT (PL)	9
3	812639	5/8" SAE FLAT WASHER (PL)	2
4	81552	5/16" X 1 1/4" HEX BOLT (PL)	2
5	81568	5/16" HEX NUT (PL)	2
6	81569	5/16" LOCK WASHER PL	2
7	81592	3/8" HEX NUT (PL)	2
8	81593	3/8" LOCK WASHER (PL)	2
9	81673	5/8" X 5" HEX BOLT GR.5 (PL)	1
10	84215	3/4" X 6" HEX BOLT GR.5 (PL)	1
11	84299	5/8" X 2" HEX BOLT GR.5 (PL)	4
12	86182	3/8 X 1 1/4 CARRIAGE BOLT (PL)	2
13	909277	MANUAL HOLDER 3 1/2" X 12"	1
14	912342	A FRAME PLATE L	1
15	912343	A FRAME PLATE R	1
16	912344L	LOWER HITCH PLATE	4
17	912346	HITCH SPACERTUBE	1
18	914184	BRKT-PTO HOLDER	1
19	914202	PLATE-REAR BRACE LEFT-5' HD (555)	1
	912387	PLATE-REAR BRACE LEFT-6' HD (655)	1
	912351	PLATE-REAR BRACE LEFT-7' HD (755)	1
20	914203	PLATE-REAR BRACE RIGHT-5' HD (555)	1
	912388	PLATE-REAR BRACE RIGHT-6' HD (655)	1
	912352	PLATE-REAR BRACE RIGHT-7' HD (755)	1
21	914336	WELDMENT-UPPER HITCH	1
22	965807	CAT. 1 TOP LINK PIN	1
23	965911	7/16" LINCH PIN	3
24	966601	LIFT PIN BUSHING	2
25	966823	LIFT PIN C/W NUT & WASHER (XL) (CAT.1)	2
26	981664	5/8 X 2 1/4" HEX BOLT GR.5 (PL)	4

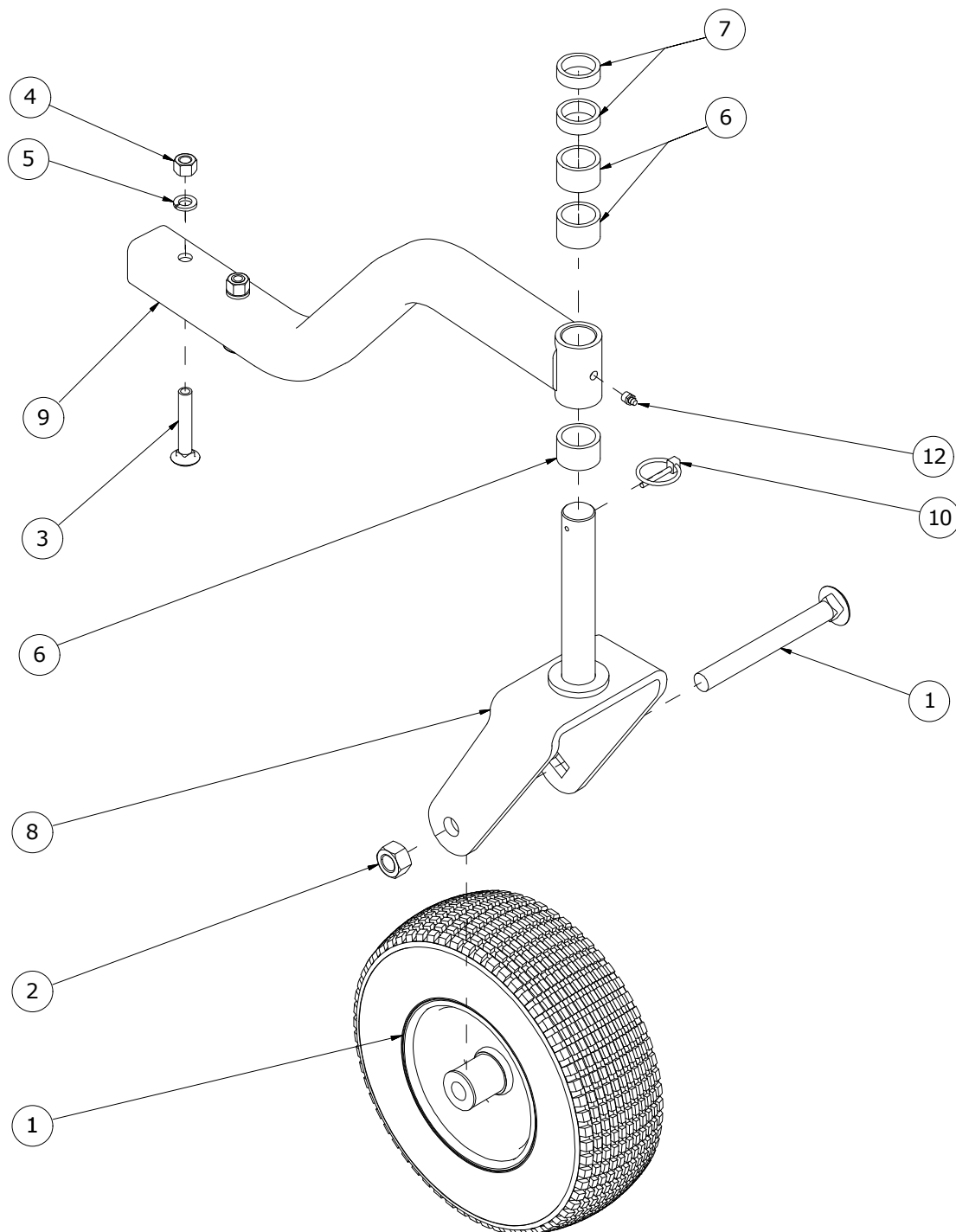
Spindle



I914240, I913865, I914355

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	811792	3/8" X 1 1/2" HEX BOLT GR.5 (PL)	4
2	812363	3/8" LOCK NUT (PL)	4
3	84039	WASHER - 3/8" SAE FLAT (PL)	4
4	930695	SPINDLE ASSEMBLY (WITHOUT HARDWARE)	1
5	966188	2 1/2"OD X 21/32"ID WASHER (PL)	1
6	966189	5/8" X 1" GR.8 HEX BOLT LOCK (PL)	1
7	966190	5/8" LOCK WASHER EXTRA HEAVY (PL)	1
8	966273	HARD SURFACE BLADE 1/4" X 2 1/2" X 21 3/4" (555)	1
	966274	HARD SURFACE BLADE 1/4" X 2 1/2" X 25 3/4" (655)	1
	966167	HARD SURFACE BLADE 1/4" X 3" X 29 3/4" (755)	1

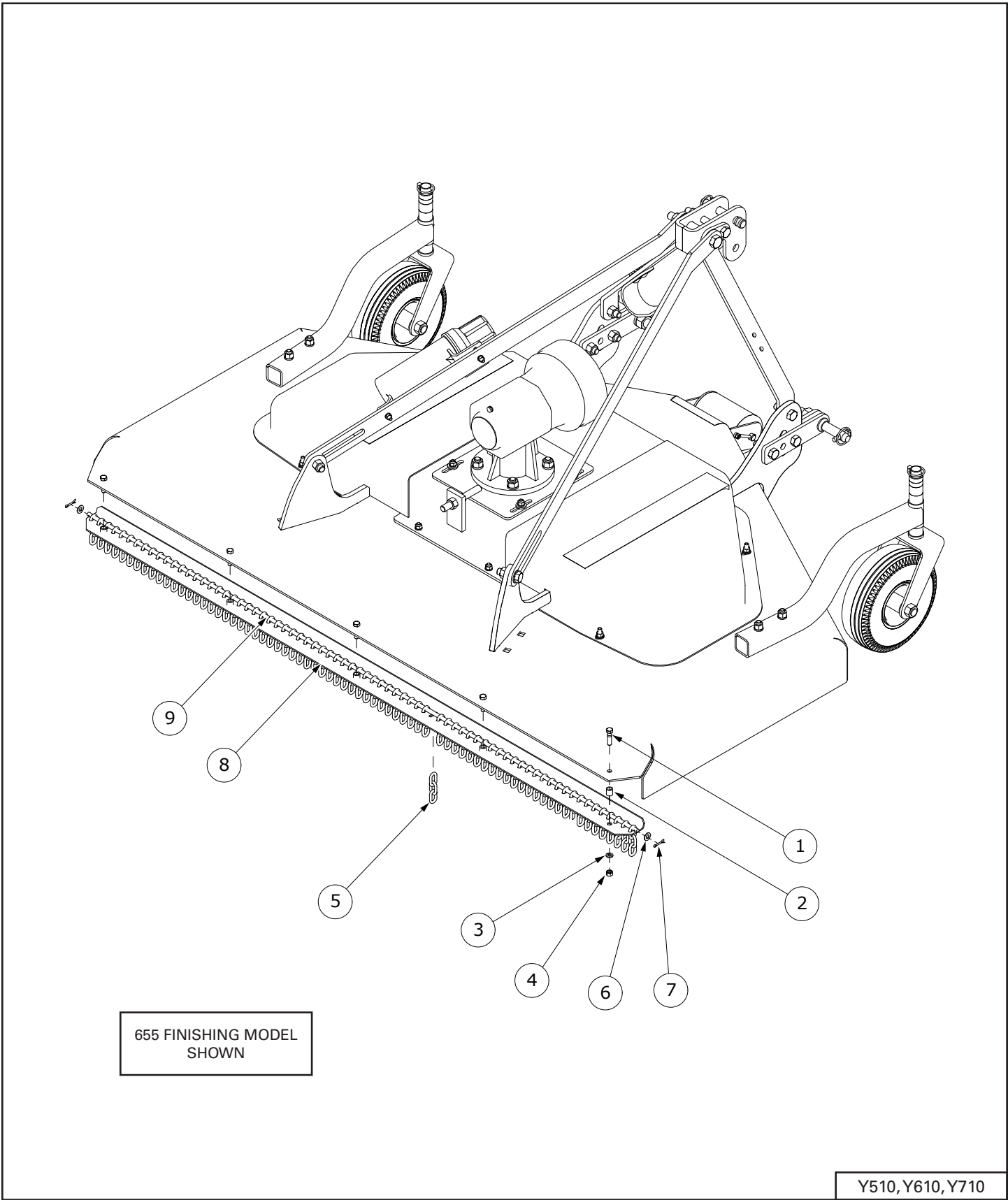
Axle & Wheel



916361

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	810008	3/4 X 7" CARRIAGE BOLT GR.5 (PL)	1
2	812365	3/4" LOCK NUT (PL)	1
3	813060	1/2 X 3" CARRIAGE BOLT GR.5 (PL)	2
4	813508	1/2" HEX NUT GR5 (PL)	2
5	81637	1/2" LOCK WASHER (PL)	2
6	902503	WHEEL HEIGHT SPACER 01 5/8"OD X 1"	3
7	902504	WHEEL HEIGHT SPACER 01 5/8" X 1/2"	2
8	916362	WHEEL YOKE WELDMENT	1
9	916365	WELDMENT-AXLE HD	1
10	966729	3/16" LINCH PIN (PL)	1
11	966851	TIRE W/WHEEL 13/500X6	1
12	967164	DRIVE-IN GREASE ZERK	1

Chain Kit



555 Finishing Mower Chain Kit

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	811792	3/8" X 1-1/2" HEX BOLT GR5 (PL)	4
2	902821	CHAIN GUARD SPACER Ø 5/8" OD X 5/8"	4
3	81593	3/8" LOCK WASHER (PL)	4
4	81592	3/8" HEX NUT (PL)	4
5	967907	CHAIN, 3 LINK RD	62
6	84039	3/8" FLAT WASHER (PL)	2
7	9812430	1/8" X 1" COTTER PIN (PL)	2
8	902820	CHAIN GUARD (PL) 3-1/2" X 62"	1
9	902827	CHAIN KIT ROD Ø 3/8" X 62-3/8"	1

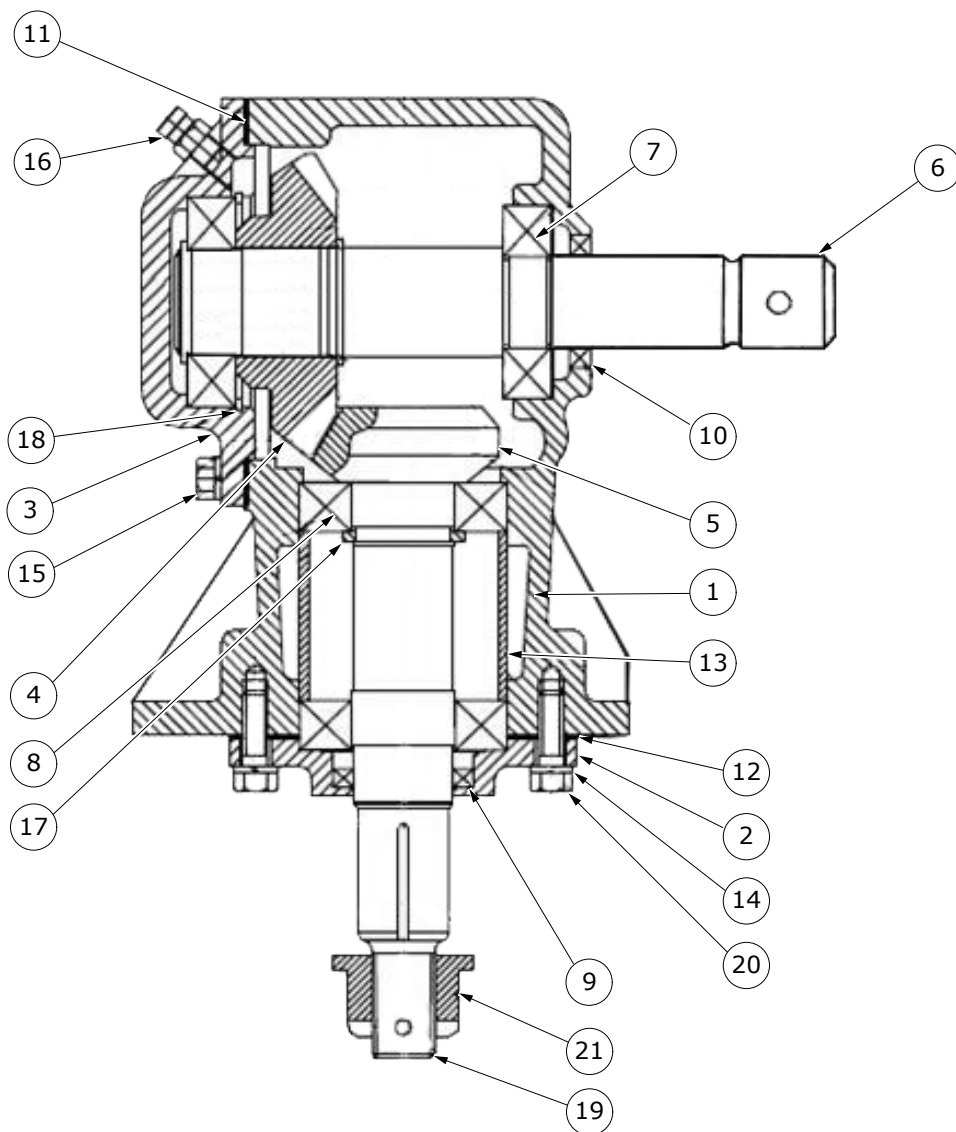
655 Finishing Mower Chain Kit

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	811792	3/8" X 1-1/2" HEX BOLT GR5 (PL)	5
2	902821	CHAIN GUARD SPACER Ø 5/8" OD X 5/8"	5
3	81593	3/8" LOCK WASHER (PL)	5
4	81592	3/8" HEX NUT (PL)	5
5	967907	CHAIN, 3 LINK RD	74
6	84039	3/8" FLAT WASHER (PL)	2
7	9812430	1/8" X 1" COTTER PIN (PL)	2
8	902823	CHAIN GUARD (PL) 3-1/2" X 74"	1
9	902828	CHAIN KIT ROD Ø 3/8" X 74-3/8"	1

755 Finishing Mower Chain Kit

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	811792	3/8" X 1-1/2" HEX BOLT GR5 (PL)	6
2	902821	CHAIN GUARD SPACER Ø 5/8" OD X 5/8"	6
3	81593	3/8" LOCK WASHER (PL)	6
4	81592	3/8" HEX NUT (PL)	6
5	967907	CHAIN, 3 LINK RD	86
6	84039	3/8" FLAT WASHER (PL)	2
7	9812430	1/8" X 1" COTTER PIN (PL)	2
8	902825	CHAIN GUARD (PL) 3-1/2" X 86"	1
9	902829	CHAIN KIT ROD Ø 3/8" X 86-3/8"	1

Gearbox



911377

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	930795	HOUSING	1
2	930796	CAP OUTPUT	1
3	930797	CAP INPUT	1
4	930798	GEAR INPUT, 29T	1
5	930799	GUARD REPAIR KIT	1
6	930800	SHAFT INPUT, 1 3/8"	1
7	930801	BEARING BALL 207K	3
8	930802	BEARING BALL 208K	1
9	930803	SEAL INPUT, 3 LIP	1
10	930804	SEAL OUTPUT, 3 LIP	1
11	930805	SHIM	3
12	930806	SHIM	3
13	930807	SPACER	1
14	81593	LOCKWASHER, 3/8" SPLITTYPE	10
15	930809	PIPE PLUG M1/8"-27 NPTE	1
16	930810	PLUG PRESSURE RELIEF, 3/8" -18 NPTE	1
17	930811	RETAINING RING	3
18	930812	RETAINING RING	1

PTO

ITEM	PART NUMBER	DESCRIPTION	QTY.
-	F0400	PTO SHAFT COMPLETE 555	1
-	F0403	PTO SHAFT COMPLETE 655	1
-	F0403	PTO SHAFT COMPLETE 755	1

Specifications And Shipping Kit Numbers

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Farm King



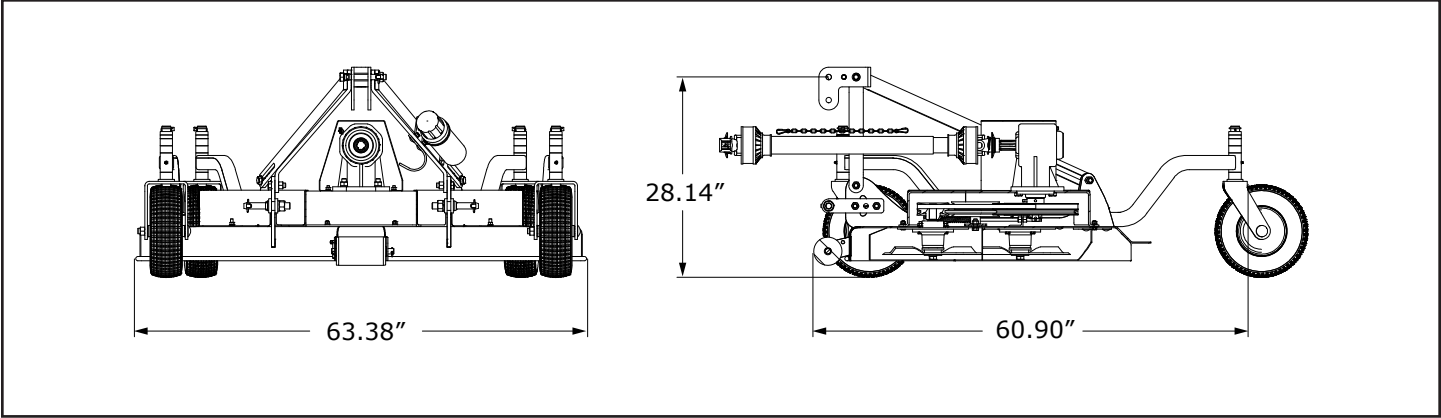
Specifications

MODEL	555	655	755
CUTTING WIDTH	5FT	6FT	7FT
CUTTING HEIGHT	1-1/2—5-1/2"	1-1/2—5-1/2"	1-1/2—5-1/2"
BLADE TIP SPEED	15,829 FT/MIN	18,737 FT/MIN	18,552 FT/MIN
BLADES	3	3	3
BLADE MATERIAL	1/4" X 2-1/2" X 21-3/4" HARD SURFACING	1/4" X 2-1/2" X 25-3/4" HARD SURFACING	1/4" X 3" X 29-3/4" HARD SURFACING
BLADE OVERLAP	2-5/8"	2-5/8"	2-5/8"
BLADE DRIVE	2-RUBBER	2-RUBBER	2-RUBBER
DECK MATERIAL	7 GAUGE	7 GAUGE	7 GAUGE
GEARBOX	CLOSED (540 RPM)	CLOSED (540 RPM)	CLOSED (540 RPM)
GEARBOX RATIO	1 : 1.93	1 : 1.93	1 : 1.93
TRACTOR REQUIREMENT	15—55 HP	20—55 HP	25—55 HP
THREE-POINT HITCH	CATEGORY I	CATEGORY I	CATEGORY I
TIRES	13 / 500 X 6 4-PLY	13 / 500 X 6 4-PLY	13 / 500 X 6 4-PLY
SPINDLES	CAST IRON, SEALED	CAST IRON, SEALED	CAST IRON, SEALED
FRONT ROLLER	4" X 6-15/16"	4" X 6-15/16"	4" X 6-15/16"
WEIGHT, APPROX.	627 LB	697 LB	780 LB

Dimensions

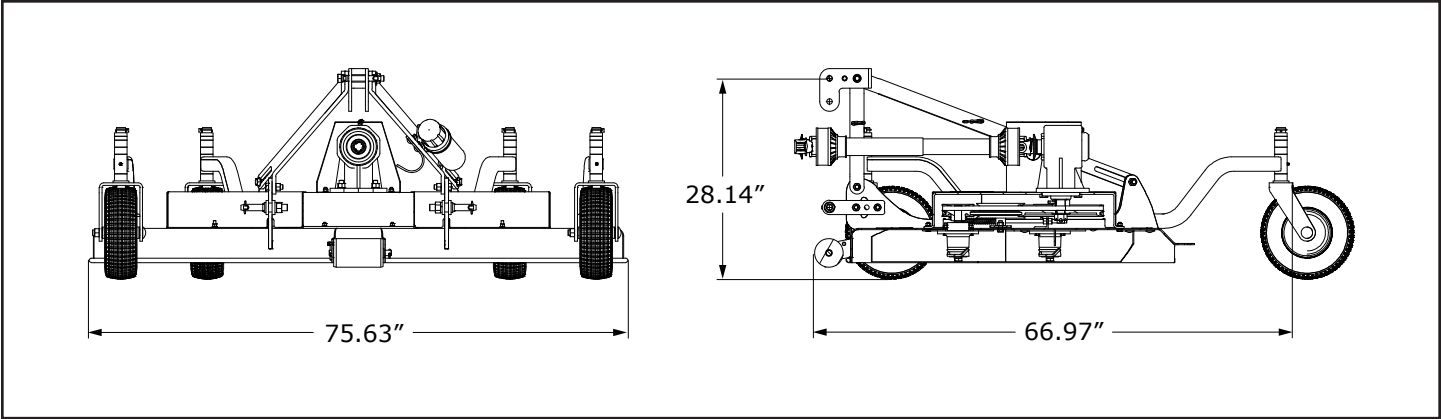
555 Finishing Mower Dimensions

Figure 23



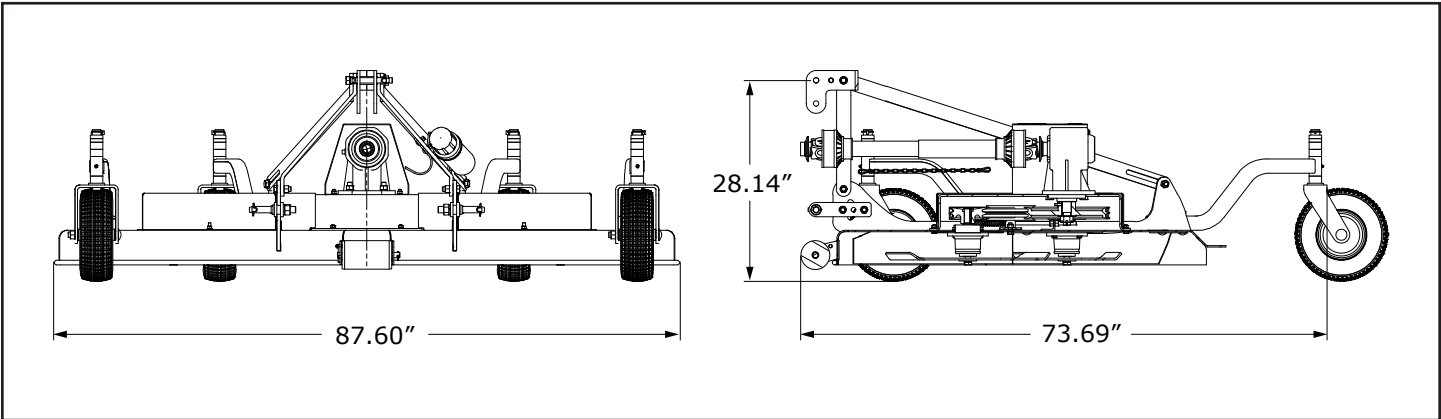
655 Finishing Mower Dimensions

Figure 24



755 Finishing Mower Dimensions

Figure 25



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
555 Finishing Mower - Heavy-Duty Series, 5FT, 3-Point Hitch, Hard Surfaced Blades, UHMW Solid Poly Roller		
1	Y555	555 Finishing Mower w/ PTO
655 Finishing Mower - Heavy-Duty Series, 6FT, 3-Point Hitch, Hard Surfaced Blades, UHMW Solid Poly Roller		
1	Y655	655 Finishing Mower w/ PTO
755 Finishing Mower - Heavy-Duty Series, 7FT, 3-Point Hitch, Hard Surfaced Blades, UHMW Solid Poly Roller		
1	Y755	755 Finishing Mower w/ PTO
OPTIONS		
1	Y510	5FT, Rear Discharge Chain Kit
1	Y610	6FT, Rear Discharge Chain Kit
1	Y710	7FT, Rear Discharge Chain Kit

Hardware Torque Values

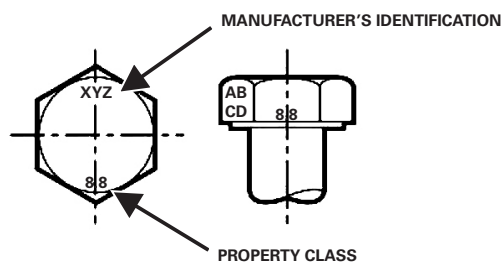
Metric Chart

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.

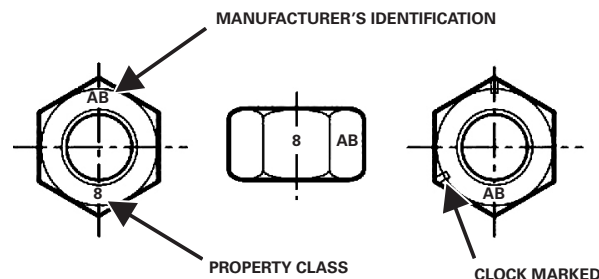
Use the following charts to determine the correct torque when checking, adjusting or replacing hardware. **Torque values are listed in newton-meters (inch* or foot pounds) for normal assembly applications.**

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

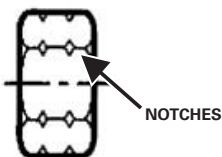


GRADE 5
SAE NUTS



GRADE 8
SAE NUTS

Identification of Hex Nuts and Lock Nuts

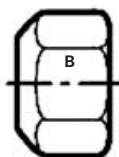


GRADE IDENTIFICATION

GRADE A: NO NOTCHES

GRADE B: ONE CIRCUMFERENTIAL NOTCH

GRADE C: TWO CIRCUMFERENTIAL NOTCHES

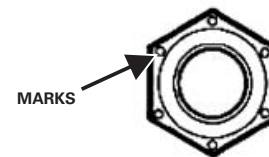


GRADE IDENTIFICATION

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

Farm King



Warranty

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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.

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