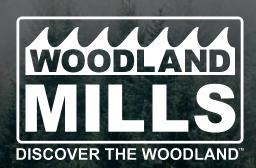
WC68 PTO WOOD CHIPPER



OPERATOR'S MANUAL



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INTRODUCTION

Congratulations on your purchase and welcome to Woodland Mills! This manual gives you the necessary information about your machine so you will be able to use it properly. The entire manual must be read and understood before you start using the machine. If any questions should arise that are not covered by this manual, please contact Woodland Mills Inc.

OWNER'S RECORD

Please take a moment to record the following information about your wood chipper. If you need to call for assistance, please be ready to provide your model and serial numbers. This information will allow us to help you more quickly when you call.

MODEL NUMBER

SERIAL NUMBER

DATE OF PURCHASE

This machine is designed for certain applications only. We strongly recommend that this machine is not modified and/or used for any application other than that for which it was designed. If you have any questions relative to a particular application, DO NOT use the machine until you have first contacted us to determine if it can or should be performed on the product.

For technical questions and replacement parts, please contact Woodland Mills Inc.

INTENDED USE

Woodland Mills wood chippers are designed for acreage owners to aid in chipping natural, untreated wood only. Materials that are processed may contain chemicals or by-products that could corrode the machine or damage it, resulting in safety concerns.



SAFETY GUIDELINES

****SAVE THESE INSTRUCTIONS****

- Do not operate this machine until this manual has been read and fully understood; serious injury or severe machine damage could occur if these safety warnings are ignored.
- Never allow more than one person to operate this machine at one time. If two people are working together it will increase the chance of your workmate engaging the machine or causing you to fall into the machine.
- If your hand is ever near the chipping or feeding area, serious injury could occur.
- Never place your hands or feet on or near the machine while it is engaged.
- Never place your hands or feet on or near the material while it is feeding.
- DO NOT wear loose clothing, jewelry, or anything that can catch a branch that is feeding into the wood chipper.
- DO NOT stand directly in front of the infeed chute when loading material into the hopper; always load from the side of the hopper. This will help prevent any part of your body from being pulled into the machine.
- Always wear safety hearing protection, eye wear, gloves, and long pants when operating the wood chipper.
- Never place your hands beyond the opening of the hopper while the wood chipper is running.
- Never allow children, disabled, or untrained persons to operate the wood chipper.
- Do not operate the wood chipper near bystanders, public roads, or anywhere that debris may travel far enough to injure another person.
- Never move the wood chipper while it is running.
- Shut off the tractor and allow the wood chipper to come to a complete stop before removing any debris.
- Never perform any maintenance or repair while the wood chipper is running.



ROTATING DRIVELINES

STAY CLEAR OF ROTATING DRIVELINES



- Entanglement in rotating driveline can cause serious injury or death.
- Keep tractor master shield and driveline shields in place at all times. Make sure rotating shields spin freely.
- Wear close-fitting clothing.
- Shut off the engine and be sure the PTO driveline has stopped before making adjustments, connections, or cleaning out PTO-driven equipment.
- Do not install any adapter device between the tractor and the primary implement PTO drive shaft that would allow a 1000 RPM tractor shaft to power a 540 RPM implement at speeds higher than 540 RPM.
- Do not install any adapter device that results in a portion of the rotating implement shaft, tractor shaft, or the adapter to be unguarded. The tractor master shield shall overlap the end of the splined shaft.



WARNING!

Read and understand all instructions. Failure to properly follow the instructions listed below may result in serious injury or death.



WARNING!

The warnings, cautions, and instructions discussed in this instruction manual cannot cover all possible conditions or situations that could occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product but must be supplied by the operator.



PERSONAL SAFETY

- Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool when you are tired or under the influence of drugs, alcohol, or medication. A moment of inattention while operating power tools may result in serious personal injury.
- **Dress properly.** Do not wear loose clothing, dangling objects, or jewelry. Keep your hair, clothing, and gloves away from moving parts. Loose clothes, jewelry, or long hair can be caught in moving parts. Air vents often cover moving parts and should be avoided.
- Use safety apparel and equipment. Use safety goggles or safety glasses with side shields that comply with current national standards, or when needed, a face shield. Use a dust mask in dusty work conditions. This applies to all persons in the work area. Also use non-skid safety shoes, a hardhat, gloves, dust collection systems, and hearing protection when appropriate.
- **Do not over reach.** Keep proper footing and balance at all times.
- **Remove adjusting keys or wrenches** before connecting to the power supply or turning on the tool. A wrench or key that is left attached to a rotating part of the tool may result in personal injury.
- Never remove or install blades, conduct any maintenance, or make any other adjustments while the tractor engine is running. Always shut the engine off, remove the ignition key, and disconnect the PTO shaft prior to carrying out any of the aforementioned procedures. Consult your tractor's manual for safe shutdown procedures to prevent accidental ignition.



WORK AREA

- Keep work area clean, free of clutter and well lit. Cluttered and dark work areas can cause accidents.
- Do not use your wood chipper where there is a risk of causing a fire or an explosion; e.g. in the presence of flammable liquids, gasses, or dust. Power tools create sparks which may ignite the dust or fumes.
- **Keep children and bystanders** away while operating a power tool. Distractions can cause you to lose control, therefore, visitors should remain a safe distance from the work area.
- Be aware of all power lines, electrical circuits, water pipes and other mechanical hazards in your work area, particularly those hazards below the work surface hidden from the operator's view that may be unintentionally contacted and cause personal harm or property damage.
- **Be aware of your surroundings.** Using power tools in confined work areas may put you dangerously close to cutting tools and rotating parts.



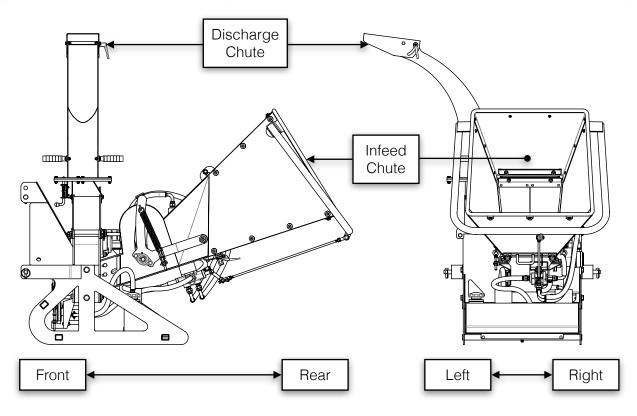
TOOL USE AND CARE

- Always be sure the operator is familiar with proper safety precautions and operation techniques before using machine.
- **Do not force the tool.** Tools do a better and safer job when used in the manner for which they are designed.
- **Turn off the tractor engine** and disconnect the PTO shaft before servicing, adjusting, installing accessories or attachments, or storing. Such preventive safety measures reduce the risk of starting the power tool accidentally.
- Storing the wood chipper. When the wood chipper is not in use, store it in a dry, secure place or keep it well covered and out of reach of children. Inspect the wood chipper for good working condition prior to storage and before re-use.
- Maintain your wood chipper. It is recommended that the general condition of the wood chipper be examined before it is used. Keep your wood chipper in good repair by adopting a program of conscientious repair and maintenance in accordance with the recommended procedures found in this manual. If abnormal vibration or noise occurs, turn the wood chipper off immediately and have the problem corrected before further use.
- Keep blades sharp and clean. Properly maintained wood chipper blades are less likely to bind and make feeding-in brush easier.
- **Cleaning and Lubrication.** Use only soap and a damp cloth to clean your wood chipper. Many household cleaners are harmful to plastic and rubber components on the wood chipper.
- Use only accessories that are recommended by the manufacturer for your model. Suitable accessories for another wood chipper may create an injury risk when used on this wood chipper.
- **Always** operate the machine with all safety devices and guards in place and in working order. DO NOT modify or make changes to safety devices. DO NOT operate the machine if any safety devices or guards are missing or inoperative.
- Never leave wood chipper running unattended.
- Never use the equipment to chip brush with trunks exceeding 6" (152 mm) in diameter or for any purpose other than chipping brush as described in this manual.



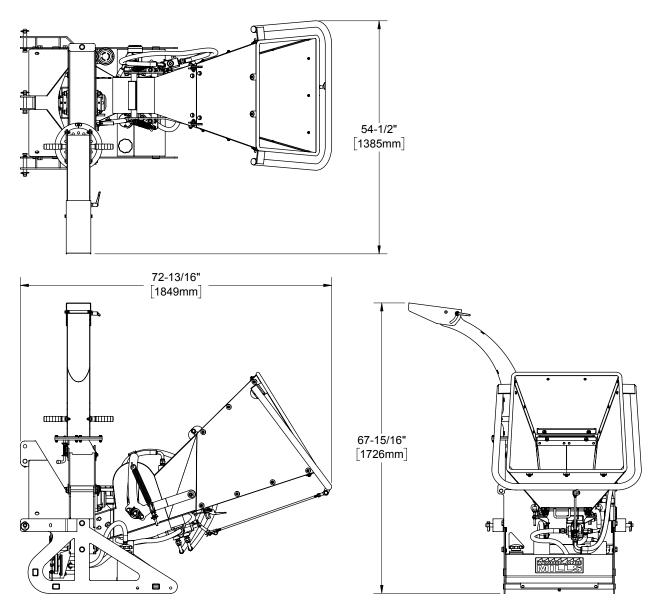
TECHNICAL SPECIFICATIONS

Component	WC68 Specification
Drive System	РТО
Transport	3-Point Hitch
Minimum HP Required (at PTO)	20 hp
In-Feed System	Hydraulic
Hydraulic Oil	ISO 32 (ISO 46 for warmer climates)
Hydraulic Tank Volume	5 gal [19 L]
Hydraulic Requirement (Tractor)	None. Self contained.
PTO Shear Bolt	M8 X 50 mm Hex Bolt - Class 8.8 (Grade 5)
Blade Quantity and Dimensions	Four (4); 8.62 X 2.72 X 5/16" [219 X 69 X 8 mm]
Blade Hardware	M10 X 35 mm Flat Head, M10 Lock Nuts - Class 10.9
Infeed Roller Diameter	7-1/4" [185 mm] at Tooth Tip
Infeed Chute Dimensions	26" X 24" [660 mm x 610 mm]
Product Weight	710 lb [322 kg]
Product Shipping Weight	800 lb [363 kg]





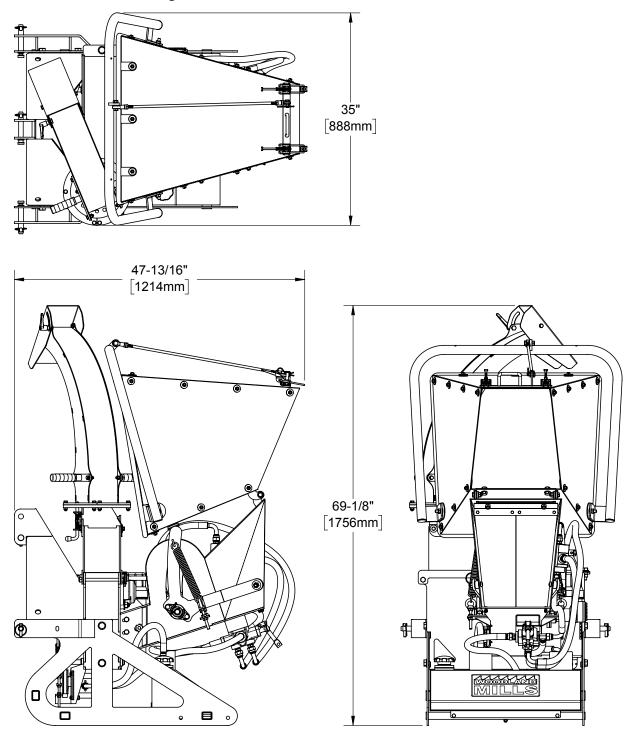
i. OVERALL DIMENSIONS-OPERATING STATE





ii. OVERALL DIMENSIONS-STORED STATE

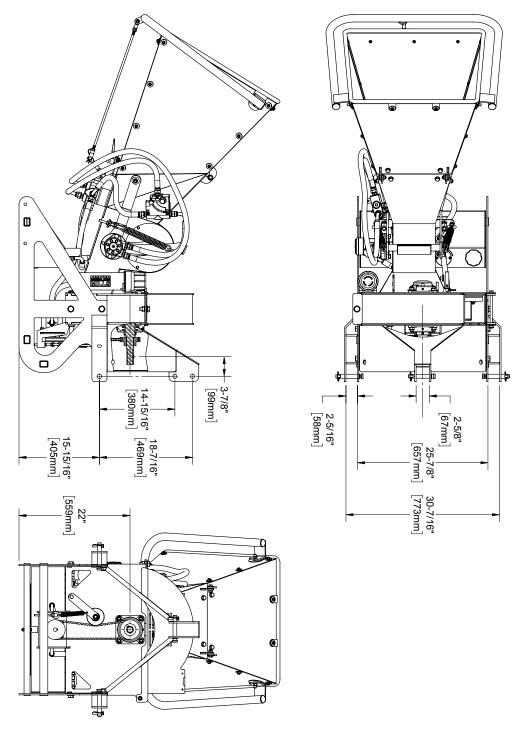
The discharge chute must be rotated so that it is angled towards the left side of the chipper in order to allow room for the infeed chute to be flipped upward when the machine is in its stored state. See section, *Storage*, for more information.





iii. 3-POINT HITCH DIMENSIONS

The wood chipper 3-point hitch is a *Category 1* system design to work with tractors in the horsepower range of 20-50 hp. Top link pin is $\frac{3}{4}$ " (19 mm) diameter and the lift arm pins are $\frac{7}{8}$ " (22 mm) diameter.





ASSEMBLY

1. TOOLS REQUIRED

ΤοοΙ	Specification
Wrench/Socket	13 mm (2X)
Wrench/Socket	16 mm (2X)
Wrench/Socket	17 mm
Wrench/Socket	24 mm or Adjustable Wrench
Wrench	27 mm or Adjustable Wrench
Hex Key	Set of Metric Hex Keys (e.g. 2-10 mm)
Hacksaw*	Any metal-cutting saw (Sawzall, etc.)

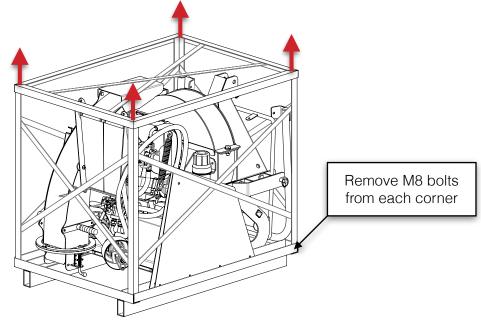
* Only if PTO shaft requires trimming. See *<u>Trimming the PTO Shaft</u>* section for more detail.



2. UNPACKING

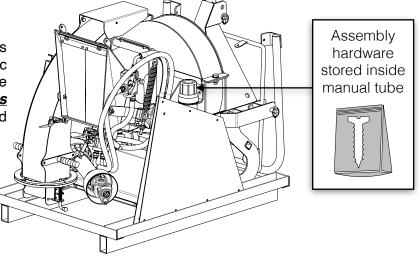
A. UNBOXING THE CRATE

Unpack the contents of the crate by first cutting the nylon strapping and then remove the cardboard top and sides. Remove the four (4) M8 hex bolts and nuts located at each bottom corner of the crate and then lift it off the skid. Discard the crate.



Remove all the loose components from the skid (infeed chute panels, control arm, edge bar, control arm linkage, discharge chute, PTO shaft, hardware boxes) and set them to the side. Use the tractor's 3-point hitch system to lift the wood chipper off the skid and set it on the ground. Discard the skid.

Note that the wood chipper is shipped dry (i.e. no hydraulic fluid) from the factory. See the <u>Technical Specifications</u> section for the volume and type of oil required.

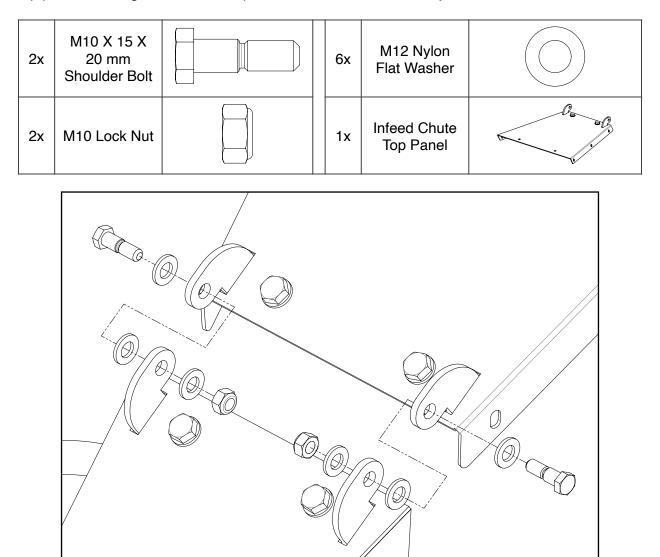




3. INFEED CHUTE

A. TOP PANEL

The wood chipper infeed chute consists of four (4) metal panels that are bolted together. The first step is bolting the top panel to the lower flywheel housing that forms the hinge. Using the hardware listed in the table below, assemble the hinge connection. Note that the infeed chute top panel and hinge bracket come pre-assembled from the factory.



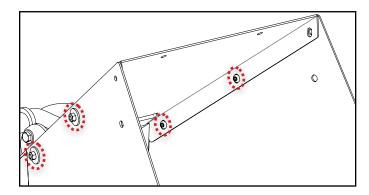


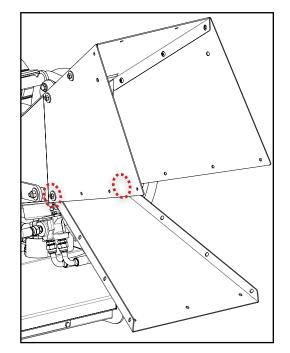
B. SIDE PANELS AND BOTTOM PANEL

With the top panel bolted to the hinge, assemble each side panel to the sides of the top panel using the M8 X 18 mm button head screws, M8 lock nuts, and M8 fender washers.

6x	M8 X 18 mm Button Head Screw		2x	Infeed Chute Side Panel	
6x	M8 Lock Nut		1x	Infeed Chute Bottom Panel	
6x	M8 X 30 mm Fender Washer				

Install two (2) screws per side along the top edge leaving the last holes empty. Do not fully tighten the screws. Be sure to assemble the screws with the heads on the inside of the chute pointing outwards. Next, install the bottom panel using only the first two (2) bolts as shown below (right). This will allow it to swing up to join the side panels in the coming steps. Note that the infeed chute bottom panel and latches come pre-assembled from the factory.



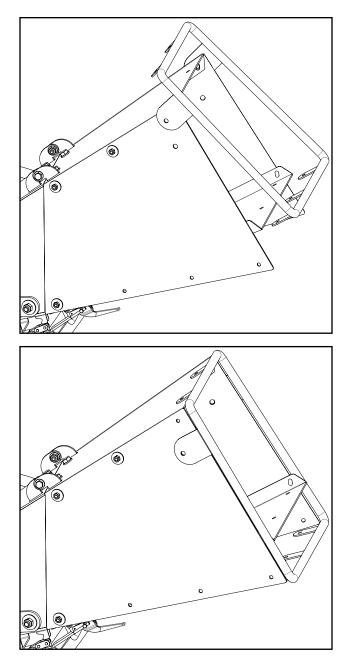




C. EDGE BAR

The round edge bar is designed to add additional strength to the infeed panels as well as act as a rounded edge, eliminating branches from getting caught on the edge of the infeed panels.

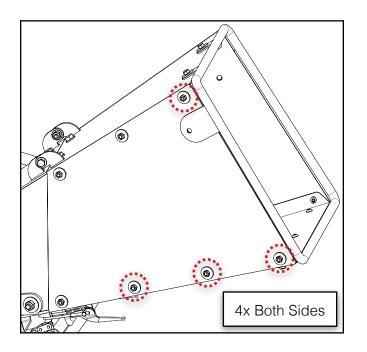
To install the edge bar, swing the bottom panel up as shown below and fit the tabs over the outside of the panels. There are two tabs on the side of the round edge bar which will be bolted to the side panels in a later step.

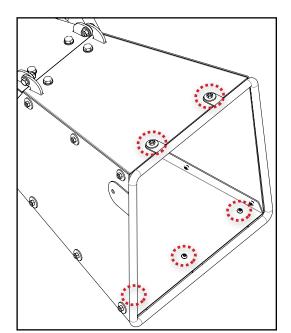




With the edge bar in place, use the hardware listed below to assemble the panels and the edge bar. Use a hex key for the button head screws and a socket/wrench for the lock nuts. Install the remaining thirteen (13) M8 X 18 mm button head screws, M8 lock nuts, and M8 X 30 mm fender washers as shown below to secure the panels and edge bar in place. Do not fully tighten the screws.

13x	M8 X 18 mm Button Head Screw	13x	M8 X 30 mm Fender Washer	
13x	M8 Lock Nut	1x	Infeed Chute Round Edge Bar	





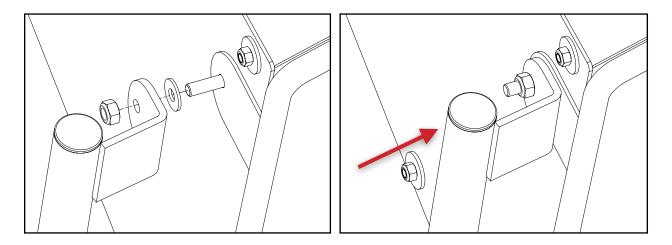


D. CONTROL ARM

The large red infeed control arm is attached using the hardware listed below.

2x	M10 X 35 mm Button Head Screw	2x	M10 Flat Washer	
2x	M10 Lock Nut	1x	Control Arm	

The screw passes through the green chute panel, the grey edge bar side tab, and finally through the red control arm tab as shown below.



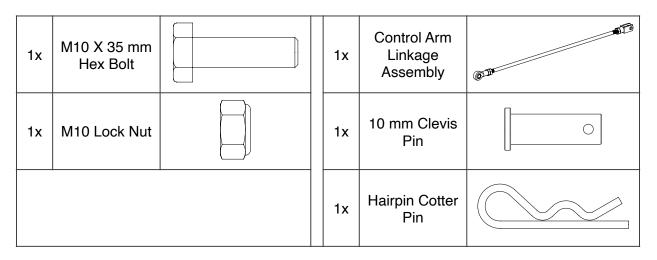
Note that the distance between the unassembled red infeed control arm mounting tabs can be significantly wider than the infeed chute. This is normal and the arm will flex when compressed. Assemble one side of the control arm first (but do not fully tighten it), then pull the other end in and secure that side.

With all of the infeed panel, edge bar, and control arm screws now loosely assembled, tighten all screws securely.

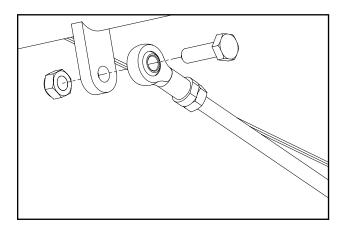


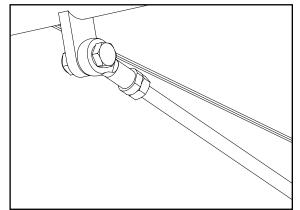
E. CONTROL ARM LINKAGE

With the control arm fastened to the infeed chute, the linkage assembly can now be connected between it and the hydraulic directional control valve.



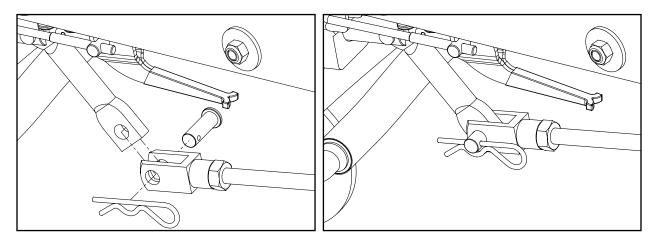
Fasten the rod end bearing to the red control arm with the M10 X 35 mm hex bolt and M10 lock nut as shown below



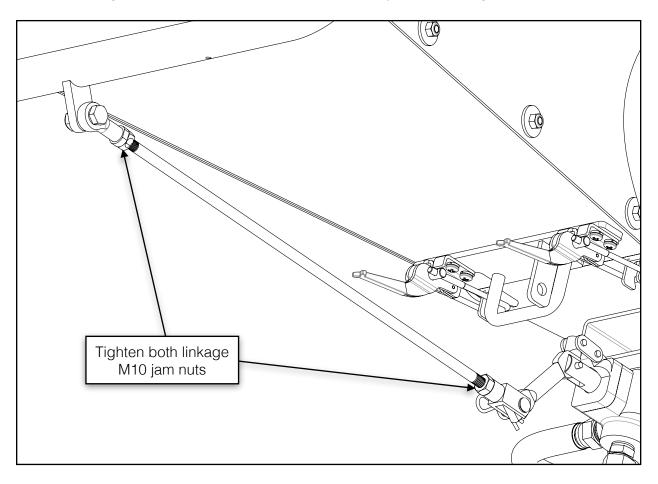




On the opposite end of the linkage, secure the linkage to the the hydraulic directional control valve actuator using the clevis pin and hairpin cotter pin.



Once the linkage has been assembled, ensure both M10 jam nuts are tight.



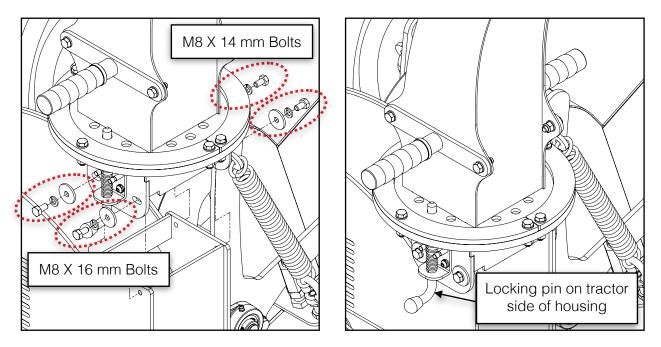


4. DISCHARGE CHUTE

The discharge chute comes pre-assembled from the factory. Using the hardware listed below, fasten the discharge chute assembly to the upper flywheel housing.

2x	M8 X 16 mm Hex Head Bolt	4x	M8 X 30 mm Fender Washer	
2x	M8 X 14 mm Hex Head Bolt	1x	Discharge Chute Assembly	
4x	M8 Lock Washer			

Connect the chute using two (2) M8 X 16 mm hex bolts, two (2) M8 X 14 mm hex bolts, four (4) M8 lock washers, and four (4) M8 X 30 mm fender washers as shown below.



Note, when orienting the discharge chute on the upper flywheel housing, the locking pin side of the chute is assembled to the tractor side of the housing.



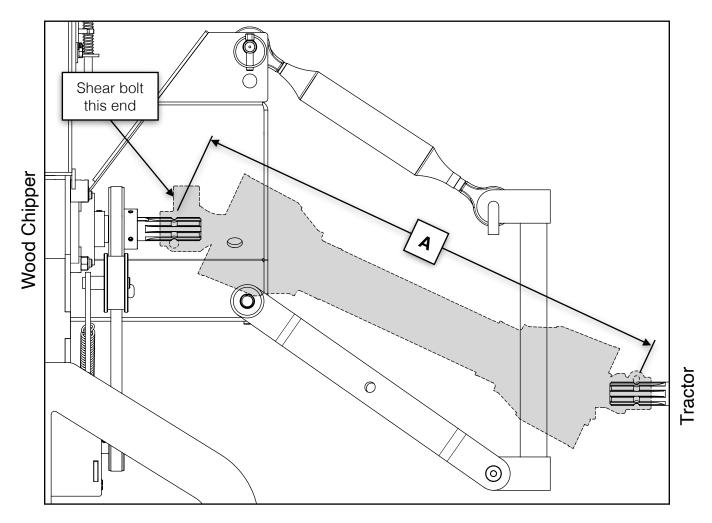
TRIMMING THE PTO SHAFT

The wood chipper is shipped with a PTO shaft that can be fitted to most Category 1 tractors. The PTO shaft may need to be trimmed depending on your tractor and configuration. Follow the steps below to ensure the PTO shaft is correctly fitted to your tractor.

Note: the shear bolt end of the PTO shaft mounts to the wood chipper.

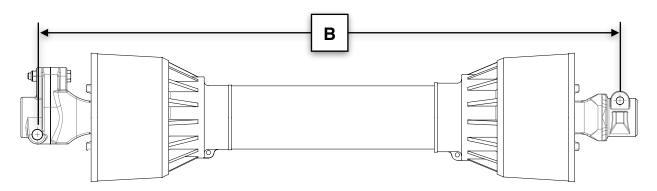
- 1. Attach the wood chipper to the tractor's 3-point hitch system. Do not install the PTO shaft.
- 2. Raise the wood chipper as high as the tractor's 3-point hitch will allow and measure the straight-line distance between the locking grooves on the splined shafts as shown below.

Now lower the wood chipper to the ground and measure the distance between the locking grooves again (the two shafts may or may not align—either is normal as tractor output shaft height varies). Whichever dimension is *shortest*, record it as **Dim A**.





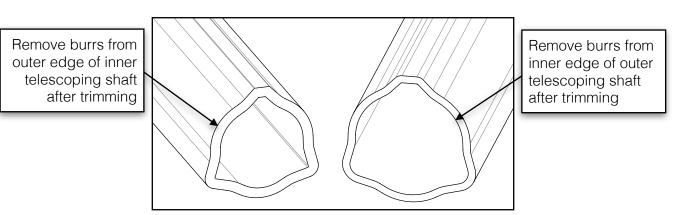
3. Verify the distance between the locking pins on the PTO shaft while in the compressed state (**Dim B**) as shown in the image below. It should measure 29-7/16 in [747 mm].



- 4. If **Dim A** is at least 1 in [25 mm] longer than **Dim B**, the PTO shaft <u>does not</u> require trimming. It is recommended the shaft not be used if there is less than 6 in [150 mm] of overlap between the two halves of the PTO shaft when the equipment is in the operating position.
- 5. If **Dim B** is longer than **Dim A**, the PTO shaft will require trimming. Use this equation to calculate the correct amount to trim:

(B - A) + 1 inch = C (Amount to Trim)

- 6. Once **C** has been calculated, trim that amount from **<u>BOTH</u>** halves of the PTO shaft safety cover *first*, then trim the same amount from both shafts. This will ensure the safety cover on each end remains a few inches back from the ends of the shafts, otherwise PTO shaft reassembly could be difficult.
- 7. After trimming both halves of the PTO shaft, use a file to remove any burrs or sharp edges and slide the halves back together, ensuring they telescope in-and-out freely. The PTO shaft is now ready to connect the wood chipper to the tractor for operation.





OPERATION

1. PRE-START UP CHECKLIST

i. Fill the hydraulic tank with hydraulic oil per the table below:

Model	Cap	pacity	Hydraulic Oil	
WOUEI	Gallons (gal)	Litres (L)		
WC46	4.5	17		
➡ WC68	5	18.9	ISO 32, ISO 46, AW 32, AW 46	
WC88	5	18.9	/	

ii. Attach the wood chipper to your tractor and take the appropriate measurements to trim the PTO shaft. Refer to the "*TRIMMING THE PTO SHAFT*" section of the operator's manual for detailed instructions.

Note: Failure to do so may result in severe damage to the implement and is <u>not</u> covered under warranty.

- iii. Ensure the bed plate gap is set to within 1/16-1/8 in [1.5-3 mm] between it and the blades. Refer to "SETTING THE BED PLATE GAP" in the operator's manual for detailed instructions.
- iv. The wood chipper has several bearings fitted with Zerk fittings for greasing. The PTO shaft is fitted with two (2) Zerk fittings, one on each yoke. The PTO shaft and all bearings come pre-greased and do not require greasing on initial start-up. Refer to the "GREASING BEARINGS AND PTO SHAFT" section of the operator's manual for detailed maintenance instructions.



2. START UP

The following steps in the sub-section below (a. through i.) are a summarization of the steps necessary to safely and properly operate the wood chipper. Please follow the references to other sections that provide further detail into the step being performed.

- a. Place the tractor transmission in neutral, set the parking brake, then turn the tractor engine off.
- b. Connect the 3-point hitch linkages to the wood chipper and secure them with linch pins.
- c. Adjust the top link of the 3-point hitch so that the wood chipper sits level.
- d. Connect the PTO shaft to the tractor with the shear bolt end of the PTO on the wood chipper. Make sure the PTO safety chains are attached to both the tractor and the wood chipper to keep the protective PTO safety cover from rotating.
- e. Rotate the discharge chute towards a safe direction and lock it in place with the springloaded latch and indexing holes. Adjust the chip deflector to the desired position based on how far they should be thrown.
- f. Push the red control arm all the way in until it stops, then pull it out one click to ensure the infeed roller is in the neutral position.
- g. Start the tractor engine and hold the engine RPM's at a strong idle. Engage the PTO slowly. If the tractor is running at a high speed when the PTO is engaged, you could damage the hydraulic pump belt or break the shear bolt on the PTO shaft. After the rotor is spinning freely increase the tractor RPM's until the PTO speed is 540 RPM. Most tractor tachometers commonly indicate this with a line and/or text.
- h. Pull the red control arm all the way out until it stops (forward position). This will start the infeed roller rotating. Set the infeed roller control to the desired speed.
- i. With the wood chipper now running and the infeed roller rotating, it is safe to begin chipping. Start by feeding smaller diameter branches until better acquainted with the machine and its operation. Once comfortable, begin feeding in larger pieces. Adjust the infeed roller control as necessary to regulate the infeed rate of the branches.



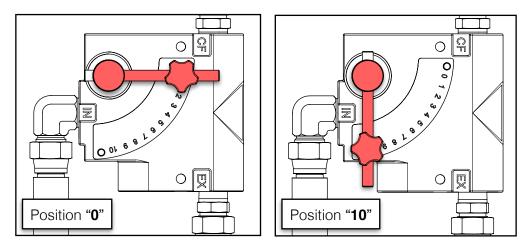
WARNING!

To avoid serious injury or death, do not chip brush containing embedded foreign objects such as nails, wire, metal fragments, etc. The operator and any assistants must always stay clear of the infeed chute of the wood chipper whenever it is running.

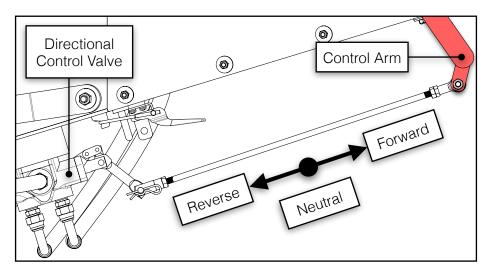


3. INFEED ROLLER CONTROL

The wood chipper infeed roller speed control valve is located to the right of the infeed chute. Rotating the arm as shown in the pictures below will increase or decrease the speed of the infeed roller. The number "**0**" (left image) represents no infeed roller rotation while "**10**" (right image) represents full speed.



The infeed roller can be set to three (3) different rotation settings—*forward*, *neutral* and *reverse*—by pushing or pulling the red control arm. The *forward* position pulls branches into the wood chipper; *neutral* stops the roller from rotating; and *reverse* pushes the branches back out the wood chipper towards the operator. The diagram below illustrates the 3 positions:



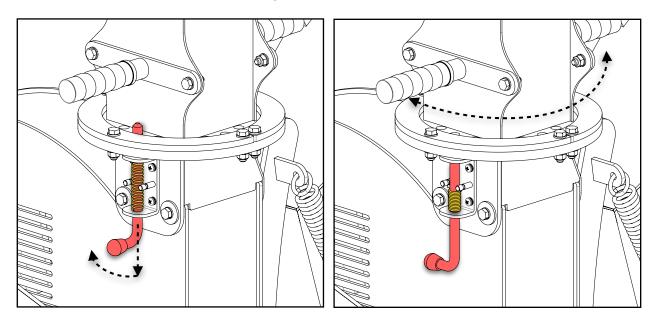
To change the speed of the infeed roller, place the red control arm in the *neutral* position. This stops the infeed roller from rotating. The speed control valve can now be moved to the desired position/speed. Reengage the infeed roller via the control arm.

See maintenance section, <u>ADJUSTING THE RED CONTROL ARM</u>, if the control arm feels too loose or stiff, or if it falls into neutral or reverse unexpectedly.

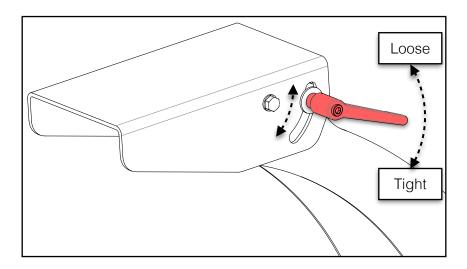


4. DISCHARGE CHUTE

To rotate the discharge chute, push down all the way on the spring-loaded locking pin and twist it 90° to temporarily lock it in the open position. The discharge chute is now free to rotate a full 360°. Using the handles, rotate it to the desired position and then twist the locking pin back 90° so that it extends into the closest locking hole to secure the chute in position.



The chip deflector easily adjusts to regulate the distance the chips are thrown. Rotate the handle counterclockwise to loosen the deflector, adjust the deflector to the desired angle, then re-tighten the handle by rotating it clockwise to secure the deflector.





5. CHIPPING

Keep your face and body away from the feed opening. Do not over reach. Keep proper balance and footing at all times. The wood chipper is designed to chip a variety of materials into a more readily decomposing or handled condition. The following guidelines can be used to help you get started. Please read and follow all safety instructions in this manual. Failure to operate the wood chipper in accordance with the safety instructions **MAY RESULT IN PERSONAL INJURY!**

- Ensure the wood chipper is at full operating speed before starting to chip material.
- Select limbs up to 6" (152 mm) in diameter. Trim side branches that cannot be bent enough to feed into the wood chipper infeed chute. Hold small diameter branches in a bundle and feed simultaneously.
- Feed brush from the side of the infeed chute rather than from the front. Step aside to avoid being hit by brush moving into the wood chipper.
- Never lean into the infeed chute or extend any parts of your body inside the infer chute to push objects further into the wood chipper. Use another stick or branch.
- Do not use hand tools to push brush into the wood chipper. They can go through the wood chipper and cause injury or damage to the wood chipper.
- Place branches, butt end first, into the wood chipper infeed chute until it contacts the infeed roller. Once the infeed roller makes contact with the branches, it will pull the material inwards.
- **NOTE**: The wood chipper blades dull with use and require periodic sharpening and sometimes replacing. Refer to the section under service and maintenance, "Sharpening Wood Chipper Blades," for further instructions.

6. STOPPING

Do not leave the wood chipper unattended or attempt any inspection/service unless the PTO is disengaged and the tractor engine is turned off. Allow time for the wood chipper to come to a complete stop. To stop the wood chipper, follow the steps below:

- 1. Move the tractor throttle to the SLOW/IDLE position.
- 2. Disengage the PTO lever and turn off the tractor engine.
- 3. Allow time for the wood chipper to come to a complete stop.

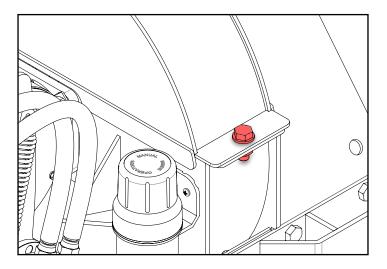
NOTE: The flywheel continues to spin for some time after the engine or tractor has been turned off. The flywheel has stopped spinning when noise and/or machine vibration are no longer detectable. The PTO shaft will also no longer be spinning.



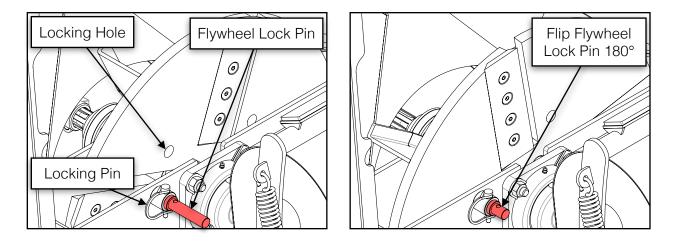
MAINTENANCE REPLACING BLADES

Follow these steps when replacing blades. The WC68 wood chipper uses four (4) reversible hardened steel blades. Each blade is 8.62 X 2.72 X 5/16" (219 X 69 X 8 mm) in size.

- 1. If installed, disconnect the PTO shaft from the tractor for safety.
- 2. Open the upper flywheel housing using a 24 mm socket/wrench by removing the M16 X 40 mm bolt and flat washer securing the upper and lower housings together.

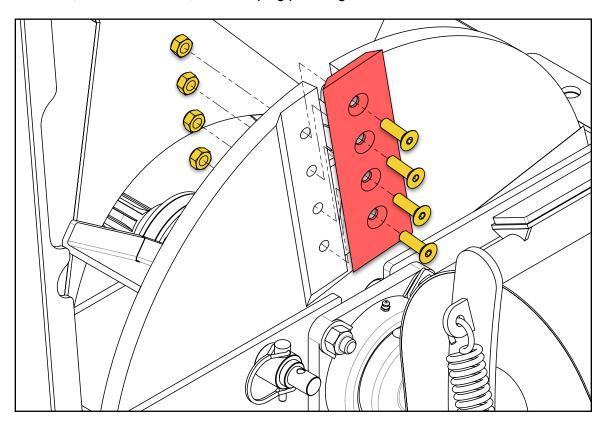


3. With the flywheel exposed, manually rotate it so that one of the four (4) locking holes in the flywheel (near the front of the blade) approximately lines up with the flywheel lock pin at the rear of the housing. Remove the small locking pin from the flywheel lock pin and flip the flywheel lock pin around 180°, passing it through the housing and into the locking hole in the flywheel. Reinstall the smaller locking pin to the flywheel lock pin.





4. Remove the four (4) M10 X 35 mm flat head bolts and M10 lock nuts that fasten the blade to the flywheel using a 6 mm hex key on the bolts and a 17 mm socket/wrench on the lock nuts. Take care not to drop the hardware into the lower flywheel housing. However, should this occur, a telescoping pen magnet can be used to retrieve them.



- 5. Repeat Steps 3 & 4 above to remove the remaining three blades. If this is the first time the blades have been removed following either the original wood chipper purchase or a recent blade sharpening, the blades can be reversed to utilize the other cutting edge. Or, the entire blade can be removed and sharpened or it can be replaced with a new blade. Torque the M10 X 35 mm flat head bolts to 40-45 ft•lb (54-60 N•m) when installing blades. Always replace the M10 lock nuts with a new set when changing or reversing blades. Refer to section, *Blade Sharpening* for blade sharpening instructions
- Once the blades have been reversed or new blades installed, proceed to section, <u>Setting the Bed Plate Gap</u>, to properly set the spacing between the blades and bed plate.



BLADE SHARPENING

The wood chipper blades will dull, making chipping difficult and cause your tractor to labour. It is recommended to sharpen the blades every 25-50 hours of operation. The WC68 wood chipper uses four (4) hardened steel blades. The blades are reversible and can be sharpened on both sides. Follow the below steps to sharpen the blades.

- 1. Follow the steps from the previous section, *<u>Replacing Blades</u>*, to safely remove the blades from the flywheel.
- 2. Hand-grind the angled edges of the blade at 33° (see diagram below) using a whetstone or have them sharpened by a professional. A pedestal style bench grinder will likely yield poor results if not used properly. If sharpened quickly or aggressively on a bench grinder, the blade edge can get too hot and change colour, thus removing the heat treating-properties from the steel. Use short grinding times and cool frequently with water. Remove an equal and consistent amount of material from each blade to maintain proper balance when reassembled to the flywheel.



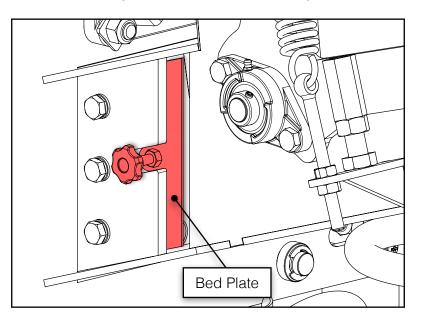
Blade Profile

- 3. Reinstall the sharpened blades on the flywheel and torque the M10 X 35 mm flat head bolts to 40-45 ft•lb (54-60 N•m). Always replace the lock nuts with new hardware when changing or reversing the blades.
- Once the blades have been sharpened, proceed to the next section, <u>Setting the Bed</u> <u>Plate Gap</u>, to properly set the spacing between the newly sharpened blades and the bed plate.

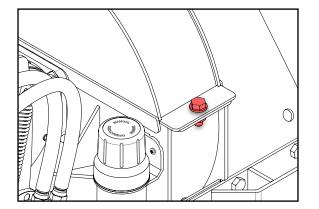


SETTING THE BED PLATE GAP

The bed plate (also known as the *anvil plate*) is located on the left side of the flywheel housing (when facing the infeed chute). For ideal chipping performance, the gap between the bed plate and the blades should be set to 1/16-1/8" (1.5-3 mm). Follow the steps below to set the gap properly. Failure to set the proper gap can lead to poor chipping performance and/or clogging.

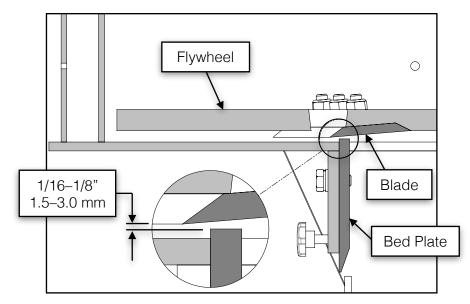


- 1. If installed, disconnect the PTO shaft from the tractor for safety.
- Open the upper flywheel housing using a 24 mm socket/wrench by removing the M16 X 40 mm bolt and flat washer securing the upper and lower housings together.

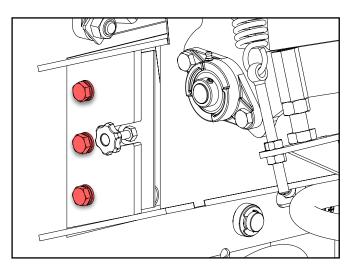


3. With the flywheel exposed, manually rotate it so that the first blade lines up with the bed plate and note the gap between them. Use a flash light for better viewing if necessary. Repeat this process for the remaining three blades, noting which blade is closest. Use this blade to set the bed plate gap.





4. Loosen the three (3) M10 X 25 mm hex bolts securing the bed plate to the lower flywheel housing so the bed plate is free to slide in and out. This movement will increase or decrease the gap between the bed plate and the cutting edge of the blade. Slide the bed plate by gripping the knob and adjust its position so that it is within 1/16-1/8" (1.5-3.0 mm) of the cutting edge of the blade. Ensure the gap is uniform along the entire edge of the blade.



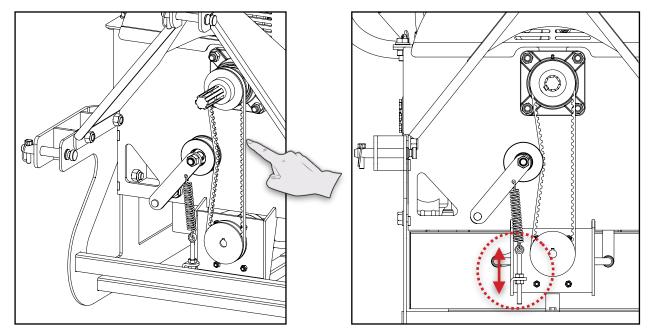
- 5. Torque the three (3) M10 X 25 mm bed plate hex bolts to 40 ft•lb (54 N•m) once the gap has been set correctly.
- 6. Rotate the flywheel by hand and note the gap at each blade. Again, the gap should be no more or less than 1/16-1/8" (1.5-3.0 mm) at each blade edge.
- 7. Close the upper flywheel housing and secure it to the lower housing by reinstalling the M16 X 40 mm bolt and flat washer.



ADJUSTING THE HYDRAULIC PUMP BELT TENSION

Check the condition and tension of the hydraulic pump belt after every 30 hours of operation. The belt is self-tensioning via an extension spring. The amount of tension can be adjusted by following these steps:

- 1. If installed, disconnect the PTO shaft from the wood chipper for safety and to allow rotation of the belt and pulleys.
- 2. Check the belt tension by pressing on it with your finger (see "*Checking Belt Tension*" below). There should not be any free slack in the belt. It should be under firm tension.
- 3. If the belt requires more tension, the eyebolt connected to the spring can be adjusted by moving the M8 hex nuts (see "*Adjusting Belt Tension*" below). This will stretch the spring and increase the belt tension until the proper tension is achieved.



Checking Belt Tension

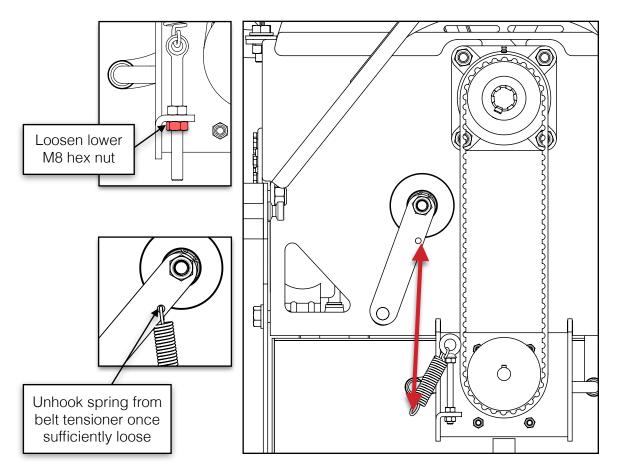
Adjusting Belt Tension



REPLACING THE HYDRAULIC PUMP BELT

Check the condition and tension of the hydraulic pump belt after every 30 hours of operation. If the infeed roller is not rotating, or it is rotating slowly, the belt could be slipping. A squealing noise may also be heard. In either case, these conditions can occur due to a worn belt or improper belt tension (see the previous section, *Adjusting the Hydraulic Pump Belt Tension*). To replace a worn belt, follow the steps below:

- 1. If installed, disconnect the PTO shaft from the wood chipper for safety.
- Loosen the lower M8 hex nut that secures the eyebolt to the steel bracket until sufficient tension has been removed from the spring allowing it to be unhooked from the belt tensioner. The belt tensioner can now be swung up out of the way allowing for removal of the belt from the pulleys.

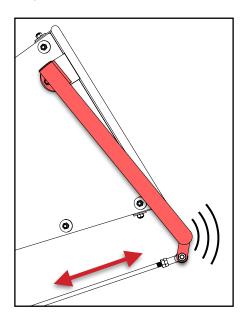


 Install the new belt around the pulleys first and then reinstall the spring. Re-tension the spring by tightening the lower M8 hex nut on the eyebolt. Refer to the previous section, <u>Adjusting the Hydraulic Pump Belt Tension</u> for instructions on how to properly retension the belt.

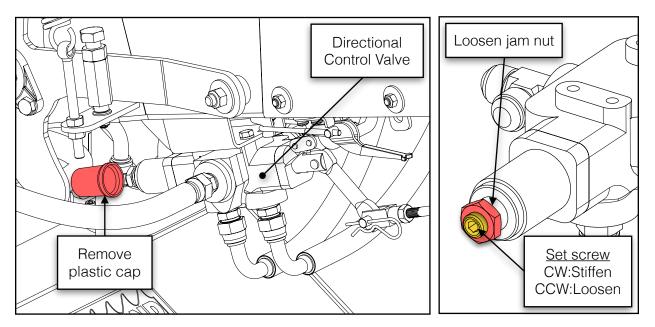


ADJUSTING THE RED CONTROL ARM

If the movement of the red control arm feels too stiff or too loose, or if it falls into neutral or reverse unexpectedly, it can be adjusted via the directional control valve.



Unscrew the plastic cap from the back of the directional control valve (located under the infeed chute), exposing the jam nut and set screw.



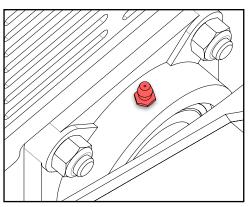
Loosen the jam nut with a 22 mm [$\frac{7}{8}$ in] wrench. Use a 6 mm hex key and turn the set screw *clockwise to stiffen* the movement of the arm, *counter-clockwise to loosen* it. Tighten the jam nut and replace the cap after the control arm movement feels satisfactory.



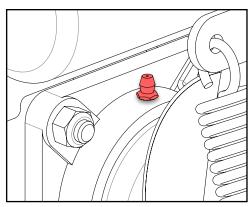
GREASING BEARINGS AND PTO SHAFT

The wood chipper has six (6) grease points: two (2) flywheel bearings, one (1) infeed roller bearing, and three (3) on the PTO shaft. Check each grease point prior to use and add grease as needed.

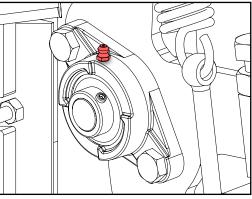
Warning: These grease points come pre-greased from the factory. <u>Do not add grease to</u> <u>these points on a new wood chipper</u>. Over-greasing can damage the bearing seals.



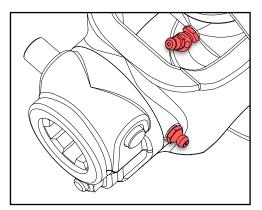
Front Flywheel Shaft Bearing



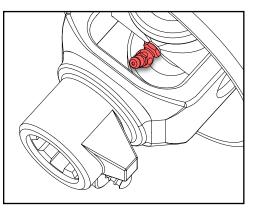
Rear Flywheel Shaft Bearing



Infeed Roller Bearing



PTO Shaft U-Joint 1



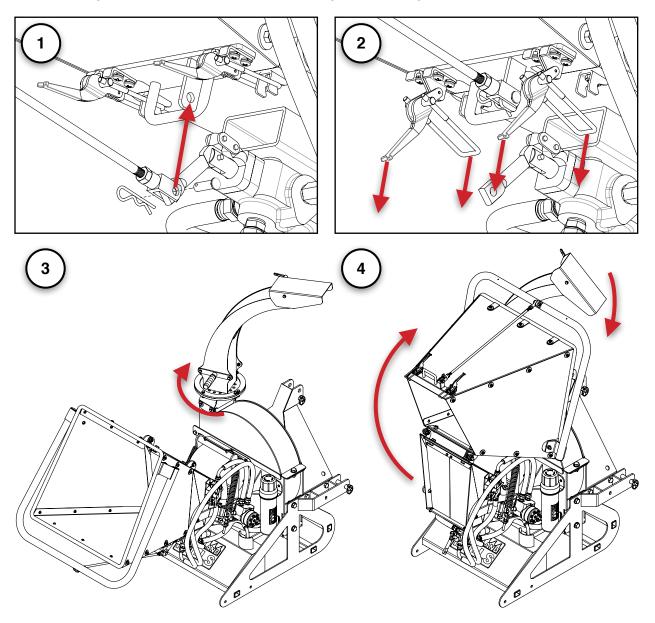
PTO Shaft U-Joint 2



STORAGE

When the wood chipper is not in use, it can be stored to utilize a smaller footprint to save space. Follow these steps to put the wood chipper in its storage state:

- 1. Disconnect the control bar linkage from the directional control valve and reconnect it to the tab on the underside of the infeed chute bottom panel.
- 2. Disengage the two (2) latches on the underside of the infeed chute bottom panel.
- 3. Rotate the discharge chute so that it is angled towards the left side of the machine.
- 4. Swing the infeed chute up until it is resting on the swingarm. Tilt the deflector down.





TROUBLESHOOTING

Problem/Issue Possible Causes		Resolution Options		
Brush is feeding too slowly	 Infeed roller control set too low. PTO RPM below 540. Blades are dull. Improper bed plate gap. 	 Increase infeed roller control to a higher value. Refer to page 27. Adjust tractor RPMs to 540 at output. Reverse, sharpen, or replace blades. Refer to page 30 & page 32. Re-set bed plate gap. Refer to page 33. 		
Brush exiting discharge chute is stringy	 Blades are dull. Brush is excessively sappy. 	 Reverse, sharpen, or replace blades. Refer to <u>page 30</u> & <u>page 32</u>. Clean blades and bed plate. 		
Excessive clogging	 Blades are dull. Improper bed plate gap. PTO RPM below 540. 	 Reverse, sharpen, or replace blades. Refer to <u>page 30</u> & <u>page 32</u>. Re-set bed plate gap. Refer to <u>page 33</u>. Clean blades and bed plate. Adjust tractor RPMs to 540 at output. 		
Hydraulic pump belt slipping or squeaking	 Belt tension not set properly. Belt is old/worn. 	 Adjust belt tension. Refer to <u>page 35</u>. Replace belt. Refer to <u>page 36</u>. 		
Excessive noise coming from flywheel bearings	 Bearings not sufficiently lubricated. Bearings are worn. 	 Grease bearings. Refer to page <u>38</u>. Replace bearings. Please contact Woodland Mills for bearing replacement instructions. 		
Red control arm falls into neutral or reverse	 Directional control valve not adjusted properly. 	 Adjust directional control valve set screw. Refer to page 37. 		



PARTS LIST

Item	Qty	Part No.	Description		
1	1	0001187	BASE		
2	1	0001168	HYDRAULIC TANK, 20 L [5.3 gal]		
3	1	0001164	HYDRAULIC TANK INTAKE LINE		
4	1	0001752	HYDRAULIC INTAKE FILTER, 1/2 NPT		
5	1	0004841	O-RING, 50 mm ID / 57 mm OD, 3.5 mm THK		
6	1	0005188	OIL SCREEN, 50 mm DIA X 120 mm LG SCREEN		
7	1	0005183	OIL SCREEN CAP, 85 mm DIA, M48 X 2 THD		
8	1	0005187	GASKET, OIL SCREEN, 55 mm ID		
9	1	0005186	GASKET, OIL SCREEN CAP, 48 mm ID		
10	1	0005185	RETAINING RING, INTERNAL, 46 mm BORE (48.5 mm GROOVE)		
11	1	0003141	LOWER FLYWHEEL HOUSING		
12	1	0001208	INNER HINGE, INFEED CHUTE		
13	1	0001196	CURTAIN BRACKET		
14	2	0001197	CURTAIN		
15	1	0001195	CURTAIN PLATE		
16	1	0001200	SWINGARM		
17	2	0001182	SWINGARM PIVOT BUSHING, 15 mm SHOULDER		
18	2	0001157	EXTENSION SPRING, HOOK ENDS, 33 mm OD, 5 mm DIA WIRE, 210 mm LG		
19	1	0001179	HYDRAULIC MOTOR ADAPTER PLATE, 6205-2RS BEARING		
20	1	0004861	HYDRAULIC MOTOR		
21	1	0004846	PARALLEL KEY, 8 X 7 mm, 25 mm LG		
22	1	0001165	INFEED ROLLER		
23	1	0001201	INFEED ROLLER COVER PLATE		
24	1	0001186	BED PLATE, 150 X 120 X 9.4 mm		
25	1	0001191	KNOB, MULTI-LOBE, 32 mm OD, M8 X 1.25, 30 mm LG, M8 WLD HEX NUT		
26	2	0001161	3-POINT HITCH PIN, LOWER, 21 mm DIA, 92 mm USEABLE LG		
27	1	0001156	3-POINT HITCH PIN, UPPER, 19 mm DIA, 90 mm USEABLE LG		
28	3	0004705	LINCH PIN, 10 mm DIA, 38 mm USEABLE LG		
29	1	0001210	FLYWHEEL		
30	4	0001185	FLYWHEEL BLADE, 219 X 69 X 8 mm		
31	1	0001209	FLYWHEEL SHAFT		
32	3	0001158	SPACER, 50.6 ID X 56 OD X 1.5 mm THK		
33	1	0004849	PARALLEL KEY, 10 X 8 mm, 40 mm LG		
34	1	0001189	V-BELT PULLEY, 35 mm SHAFT, 100 mm DIA		
35	1	0001184	FLYWHEEL SHAFT COVER, UCF210 BEARING		
36	1	0001795	FLYWHEEL SHAFT COVER PLUG		
37	1	0001796	FLYWHEEL LOCKING PIN		
38	1	0004728	LOCKING PIN, ROUND, 1/4 in DIA, 1-3/8 in USEABLE LG		
39	1	0001193	BELT TENSIONER ARM		
40	2	0004789	CIRCLIP, 16-24 mm SHAFT (15 mm GROOVE)		
41	1	0001205	IDLER PULLEY SHAFT, 17 mm DIA, 16 mm LG, M16 X 2 THD		
42	1	0001692	IDLER PULLEY, SINGLE BEARING, 25 mm WD, 80 mm DIA		
43	1	0004816	RETAINING RING, INTERNAL, 40 mm BORE (42.5 mm GROOVE)		
44	1	0004798	RETAINING RING, EXTERNAL, 17 mm SHAFT (16.2 mm GROOVE)		
45	1	0001192	EXTENSION SPRING, HOOK ENDS, 21 mm OD, 3 mm DIA WIRE, 100 mm LG		
46	1	0004869	HYDRAULIC GEAR PUMP, 10 mL/r, KEYED SHAFT		
47	1	0004845	PARALLEL KEY, 6 X 6 mm, 32 mm LG		
48	1	0001198	V-BELT PULLEY, 18 mm SHAFT, 100 mm DIA		

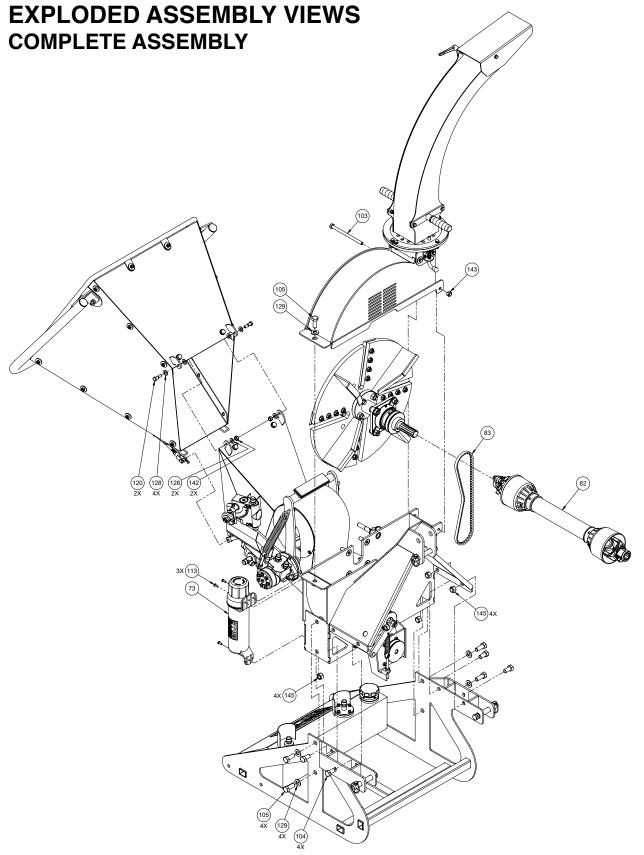


Item Oty Part No. Description 49 1 0004875 URRECTIONAL CONTROL VALVE 50 1 0004875 VARIABLE FLOW CONTROL VALVE, 1/2 in NPT, 0-16 gal/min 51 2 0001304 LATCH-STYLE TOGGLE CLAMP 52 1 0001202 INFEED CHUTE TOP PANEL 53 1 0001203 INFEED CHUTE BIDE PANEL 54 2 0001203 INFEED CHUTE BIDE PANEL 56 1 0001302 CONTROL ARM, INFEED CHUTE 57 1 0001302 CONTROL ARM, INFEED ROLLER 58 2 0001781 PLASTIC CHO CAP, 38 mm DIA 59 1 0004834 CLEVIS ROD END, M10 X 1.5 THD, 10 mm ID, 10 mm JAW OPENING 61 1 0004760 HAIRPIN COTTER PIN, 10-16 mm CLEVIS, 3 mm WIRE DIA 63 1 0004888 ROD END BEARING, 10 mm, M10 X 1.5 FEM THD 64 0001190 UPPER FLYWHEEL HOUSING EE 65 1 0002189 DISCHARGE CHUTE NOTZLE 66 1 0002180
51 2 0001304 LATCH-STYLE TOGGLE CLAMP 52 1 0001202 INFEED CHUTE TOP PANEL 53 1 0001203 INFEED CHUTE SIDE PANEL 54 2 0001204 INFEED CHUTE SIDE PANEL 55 1 0001204 INFEED CHUTE BOTTOM PANEL 56 1 0001302 CONTROL ARM, INFEED CHUTE 57 1 0001303 LINKAGE ROD, INFEED ROLLER 58 2 0001781 PLASTIC END CAP, 38 mm DIA 59 1 0004749 CLEVIS ROD END, MIO X 1.5 THD, 10 mm JAW OPENING 61 1 0004749 CLEVIS ROD END, MIO X 1.5 THD, 10 mm JAW OPENING 61 1 0004749 CLEVIS ROD END, MIO X 1.5 THD, 10 mm JAW OPENING 63 1 0004760 HAIRPIN COTTER PIN, 10-16 mm CLEVIS, 3 mm WIRE DIA 64 1 0001190 UPPER FLYWHEEL HOUSING 65 1 0002189 DISCHARGE CHUTE NOZZLE 66 1 0001172 DISCHARGE CHUTE ROTATION HANDLE 70 2 000219
52 1 0001202 INFEED CHUTE TOP PANEL 53 1 0001207 OUTER HINGE, INFEED CHUTE 54 2 0001204 INFEED CHUTE SIDE PANEL 55 1 0001204 INFEED CHUTE BOTTOM PANEL 56 1 0001302 CONTROL ARM, INFEED CHUTE 57 1 0001303 LINKAGE ROD, INFEED ROLLER 58 2 0001781 PLASTIC END CAP, 38 mm DIA 59 1 0004834 CLEVIS ROD END, M10 X 1.5 THD, 10 mm ID, 10 mm JAW OPENING 61 1 0004760 HAIRPIN COTTER PIN, 10 mm USABLE LG, 30 mm LG 62 1 0004760 HAIRPIN COTTER PIN, 10 mm USA 1.5 FEM THD 64 1 000172 DISCHARGE CHUTE NOZZLE 66 1 000172 DISCHARGE CHUTE NOZZLE 66 1 000172 DISCHARGE CHUTE ROTATION HANDLE 67 1 0002189 DISCHARGE CHUTE ROTATION HANDLE 68 2 0002119 DISCHARGE CHUTE ROTATION HANDLE 70 2 0001786
53 1 0001207 OUTER HINGE, INFEED CHUTE 54 2 0001203 INFEED CHUTE SIDE PANEL 55 1 0001204 INFEED CHUTE SIDE PANEL 56 1 0001194 ROUND EDGE BAR, INFEED CHUTE 57 1 0001302 CONTROL ARM, INFEED ROLLER 58 2 0001731 PLASTIC END CAP, 38 mm DIA 59 1 0004334 CLEVIS ROD END, M10 X 1.5 THD, 10 mm ID, 10 mm JAW OPENING 61 1 0004484 CLEVIS PIN, 10 mm DIA, 24 mm USABLE LG, 30 mm LG 62 1 0004789 CLEVIS PIN, 10 mm DIA, 24 mm USABLE LG, 30 mm LG 63 1 0004488 ROD END BEARING, 10 mm, M10 X 1.5 FEM THD 64 1 0001190 UPPER FLYWHEEL HOUSING 65 1 0002189 DISCHARGE CHUTE NOZZLE 66 1 0001718 DISCHARGE CHUTE COCK PIN ASSEMBLY, 12 mm DIA 67 1 0002190 DISCHARGE CHUTE DEFLECTOR 70 2 0001130 HANDLE GRIP, GROOVED, 26 mm ID, 108 mm LG 71
54 2 0001203 INFEED CHUTE SIDE PANEL 55 1 0001204 INFEED CHUTE BOTTOM PANEL 56 1 0001302 CONTROL ARM, INFEED CHUTE 57 1 0001302 CONTROL ARM, INFEED CHUTE 58 2 0001781 PLASTIC END CAP, 38 mm DIA 59 1 0001303 LINKAGE ROD, INFEED ROLLER 60 1 0004749 CLEVIS ROD END, M10 X 1.5 THD, 10 mm ID, 10 mm JAW OPENING 61 1 0004760 HAIRPIN COTTER PIN, 10-16 mm CLEVIS, 3 mm WIRE DIA 63 1 0004760 HAIRPIN COTTER PIN, 10-16 mm CLEVIS, 3 mm WIRE DIA 64 1 0001190 UPPER FLYWHEEL HOUSING 65 1 0001172 DISCHARGE CHUTE NOZZLE 66 1 0001172 DISCHARGE CHUTE 67 1 0002190 DISCHARGE CHUTE ROTATION HANDLE 70 2 0001304 HANDLE GARG ROVED, 26 m ID, 108 mm LG 71 1 000200 DISCHARGE CHUTE DEFLECTOR 72 1 0001786
55 1 0001204 INFEED CHUTE BOTTOM PANEL 56 1 0001194 ROUND EDGE BAR, INFEED CHUTE 57 1 0001302 CONTROL ARM, INFEED CHUTE 58 2 0001711 PLASTIC END CAP, 38 mm DIA 59 1 0004834 CLEVIS ROD END, M10 X 1.5 THD, 10 mm ID, 10 mm JAW OPENING 61 1 0004760 HAIRPIN COTTER PIN, 10-16 mm CLEVIS, 3 mm WIRE DIA 63 1 0004760 HAIRPIN COTTER PIN, 10-16 mm CLEVIS, 3 mm WIRE DIA 64 1 0004760 HAIRPIN COTTER PIN, 10-16 mm CLEVIS, 3 mm WIRE DIA 63 1 000488 ROD END BEARING, 10 mm, M10 X 1.5 FEM THD 64 1 0001190 UPPER FLYWHEEL HOUSING 65 1 0001172 DISCHARGE CHUTE NOZZLE 66 1 0001172 DISCHARGE CHUTE ROTATION HANDLE 70 2 000130 HANDLE GRIP, GROOVED, 26 mm ID, 108 mm LG 71 1 0001786 ADJUSTABLE HANDLE, 78 X 54 mm, M10 X 1.5 73 1 0001655 MANUAL TUBE 74
56 1 0001194 ROUND EDGE BAR, INFEED CHUTE 57 1 0001302 CONTROL ARM, INFEED ROLLER 58 2 0001781 PLASTIC END CAP, 38 mm DIA 59 1 0001302 LINKAGE ROD, INFEED ROLLER 60 1 0004834 CLEVIS PIN, 10 mm DIA, 24 mm USABLE LG, 30 mm LG 61 1 0004706 HAIRPIN COTTER PIN, 10-16 mm OLEVIS, 30 mm URE DIA 63 1 0004888 ROD END BEARING, 10 mm, M10 X 1.5 FEM THD 64 1 0001790 UPPER FLYWHEEL HOUSING 65 1 0002189 DISCHARGE CHUTE NOZZLE 66 1 0001710 DISCHARGE CHUTE ROTATION HANDLE 67 1 0002190 DISCHARGE CHUTE ROTATION HANDLE 68 0 0001718 DISCHARGE CHUTE ROTATION HANDLE 70 2 0001030 HANDLE GRIP, GROOVED, 26 mm ID, 108 mm LG 71 1 0001786 ADJUSTABLE HANDLE, 78 X 54 mm, M10 X 1.5 73 1 0001555 MANUAL TUBE 74 10
57 1 0001302 CONTROL ARM, INFEED ROLLER 58 2 0001781 PLASTIC END CAP, 38 mm DIA 59 1 0001303 LINKAGE ROD, INFEED ROLLER 60 1 0004834 CLEVIS ROD END, M10 X 1.5 THD, 10 mm JAW OPENING 61 1 000479 CLEVIS ROD END, M10 X 1.5 THD, 10 mm UA 62 1 0004760 HAIRPIN COTTER PIN, 10-16 mm CLEVIS, 3 mm WIRE DIA 63 1 0004888 ROD END BEARING, 10 mm, M10 X 1.5 FEM THD 64 1 000170 UPPER FLYWHEEL HOUSING 65 1 0002189 DISCHARGE CHUTE NOZZLE 66 1 0001712 DISCHARGE CHUTE NOZZLE 68 2 0002191 DISCHARGE CHUTE ROTATION HANDLE 70 2 0001718 DISCHARGE CHUTE DEFLECTOR 71 1 0002200 DISCHARGE CHUTE DEFLECTOR 72 1 0001766 ADJUSTABLE HANDLE, 78 X 54 mm, M10 X 1.5 73 1 0001766 ADJUSTABLE HANDLE, 790°, 1/2 NPT TO 7/8-14 UNF MALE 74
58 2 0001781 PLASTIC END CAP, 38 mm DIA 59 1 0001303 LINKAGE ROD, INFEED ROLLER 60 1 0004834 CLEVIS ROD END, M10 X 1.5 THD, 10 mm ID, 10 mm JAW OPENING 61 1 0004760 HAIRPIN COTTER PIN, 10 mm USABLE LG, 30 mm LG 62 1 0004760 HAIRPIN COTTER PIN, 10-16 mm CLEVIS, 3 mm WIRE DIA 63 1 0004780 HAIRPIN COTTER PIN, 10-16 mm CLEVIS, 3 mm WIRE DIA 64 1 000190 UPPER FLYWHEL HOUSING 65 1 0002189 DISCHARGE CHUTE NOZZLE 66 1 000172 DISCHARGE CHUTE LOCK PIN ASSEMBLY, 12 mm DIA 67 1 0002190 DISCHARGE CHUTE ROTATION HANDLE 70 2 0001718 DISCHARGE CHUTE ROTATION HANDLE 71 1 0002200 DISCHARGE CHUTE DEFLECTOR 72 1 0001786 ADJUSTABLE HANDLE, 78 X 54 mm, M10 X 1.5 73 1 0001655 MANUAL TUBE 74 10 000514 FITTING, ADAPTER, 1/2 in NPT MALE TO 7/8-14 UNF MALE
59 1 0001303 LINKAGE ROD, INFEED ROLLER 60 1 0004834 CLEVIS ROD END, M10 X 1.5 THD, 10 mm ID, 10 mm JAW OPENING 61 1 0004749 CLEVIS PIN, 10 mm DIA, 24 mm USABLE LG, 30 mm LG 62 1 0004760 HAIRPIN COTTER PIN, 10-16 mm CLEVIS, 3 mm WIRE DIA 63 1 0004888 ROD END BEARING, 10 mm, M10 X 1.5 FEM THD 64 1 0001190 UPPER FLYWHEEL HOUSING 65 1 0002189 DISCHARGE CHUTE NOZZLE 66 1 0001172 DISCHARGE CHUTE NOZZLE 68 2 0002191 DISCHARGE CHUTE RETAINER PLATE 69 2 0001718 DISCHARGE CHUTE ROTATION HANDLE 70 2 000130 HANDLE GRIP, GROOVED, 26 mm ID, 108 mm LG 71 1 0002200 DISCHARGE CHUTE DEFLECTOR 72 1 0001786 ADJUSTABLE HANDLE, 78 X 54 mm, M10 X 1.5 73 1 0001655 MANUAL TUBE 74 10 0005115 FITTING, ELBOW, 90°, 12 NPT TO 78-14 UNF MALE
60 1 0004834 CLEVIS ROD END, M10 X 1.5 THD, 10 mm ID, 10 mm JAW OPENING 61 1 0004749 CLEVIS ROD END, M10 X 1.5 THD, 10 mm ID, 24 mm USABLE LG, 30 mm LG 62 1 0004760 HAIRPIN COTTER PIN, 10 mm DIA, 24 mm USABLE LG, 30 mm LG 63 1 0004888 ROD END BEARING, 10 mm, M10 X 1.5 FEM THD 64 1 0001190 UPPER FLYWHEEL HOUSING 65 1 0002189 DISCHARGE CHUTE NOZZLE 66 1 0001172 DISCHARGE CHUTE OUSCHARGE CHUTE 68 2 0002190 DISCHARGE CHUTE ROTATION HANDLE PATE 69 2 0001718 DISCHARGE CHUTE ROTATION HANDLE PATE 70 2 0001030 HANDLE GRIP, GROOVED, 26 mm ID, 108 mm LG M10 X 1.5 71 1 0002200 DISCHARGE CHUTE DEFLECTOR MAINUAL TUBE 74 10 0005124 FITTING, ADAPTER, 1/2 in NPT MALE TO 7/8-14 UNF MALE MAIL 75 1 0001655 MAINUAL TUBE MAINUAL TUBE MAINUAL TUBE 77 2
61 1 0004749 CLEVIS PIN, 10 mm DIA, 24 mm USABLE LG, 30 mm LG 62 1 0004760 HAIRPIN COTTER PIN, 10-16 mm CLEVIS, 3 mm WIRE DIA 63 1 0004780 HAIRPIN COTTER PIN, 10-16 mm CLEVIS, 3 mm WIRE DIA 63 1 000488 ROD END BEARING, 10 mm, M10 X 1.5 FEM THD 64 1 0001190 UPPER FLYWHEEL HOUSING 65 1 0002189 DISCHARGE CHUTE NOZZLE 66 1 0001172 DISCHARGE CHUTE RETAINER PLATE 67 1 0002190 DISCHARGE CHUTE RETAINER PLATE 68 2 0002191 DISCHARGE CHUTE RETAINER PLATE 69 2 0001718 DISCHARGE CHUTE RETAINER PLATE 70 2 0001786 ADJUSTABLE HANDLE, 78 X 54 mm, M10 X 1.5 73 1 0001786 ADJUSTABLE HANDLE, 78 X 54 mm, M10 X 1.5 73 1 00005124 FITTING, TEE, 1/2 IN PT TO 7/8-14 UNF MALE 76 1 0005115 FITTING, TEE, 1/2 NPT TO 7/8-14 UNF MALE 77 2 00003297 HYDRAULIC LINE ASSEMBLY, STR
62 1 0004760 HAIRPIN COTTER PIN, 10-16 mm CLEVIS, 3 mm WIRE DIA 63 1 0004888 ROD END BEARING, 10 mm, M10 X 1.5 FEM THD 64 1 0001190 UPPER FLYWHEEL HOUSING 65 1 0002189 DISCHARGE CHUTE NOZZLE 66 1 0001172 DISCHARGE CHUTE NOZZLE 67 1 0002190 DISCHARGE CHUTE RETAINER PLATE 68 2 0002111 DISCHARGE CHUTE RETAINER PLATE 69 2 0001718 DISCHARGE CHUTE ROTATION HANDLE 70 2 0001730 HANDLE GRIP, GROOVED, 26 mm ID, 108 mm LG 71 1 000200 DISCHARGE CHUTE DEFLECTOR 72 1 0001786 ADJUSTABLE HANDLE, 78 X 54 mm, M10 X 1.5 73 1 0001655 MANUAL TUBE 74 10 0005124 FITTING, ADAPTER, 1/2 in NPT MALE TO 7/8-14 UNF MALE 75 1 00030397 HYDRAULIC LINE ASSEMBLY, STR AND ELB FITTINGS, 550 mm LG 78 2 0003298 HYDRAULIC LINE ASSEMBLY, STR AND ELB FITTINGS, 600 mm LG
63 1 0004888 ROD END BEARING, 10 mm, M10 X 1.5 FEM THD 64 1 0001190 UPPER FLYWHEEL HOUSING 65 1 0002189 DISCHARGE CHUTE NOZZLE 66 1 0001172 DISCHARGE CHUTE LOCK PIN ASSEMBLY, 12 mm DIA 67 1 0002190 DISCHARGE CHUTE 68 2 0002191 DISCHARGE CHUTE RETAINER PLATE 69 2 0001718 DISCHARGE CHUTE RETAINER PLATE 69 2 000130 HANDLE GRIP, GROOVED, 26 mm ID, 108 mm LG 70 2 000130 HANDLE GRIP, GROOVED, 26 mm ID, 108 mm LG 71 1 0002200 DISCHARGE CHUTE DEFLECTOR 72 1 0001786 ADJUSTABLE HANDLE, 78 X 54 mm, M10 X 1.5 73 1 0001655 MANUAL TUBE 74 10 0005124 FITTING, ADAPTER, 1/2 in NPT MALE TO 7/8-14 UNF MALE 75 1 0005115 FITTING, ELBOW, 90°, 1/2 NPT TO 7/8-14 UNF Male 76 2 0003297 HYDRAULIC LINE ASSEMBLY, STR AND ELB FITTINGS, 500 mm LG </td
63 1 0004888 ROD END BEARING, 10 mm, M10 X 1.5 FEM THD 64 1 0001190 UPPER FLYWHEEL HOUSING 65 1 0002189 DISCHARGE CHUTE NOZZLE 66 1 0001172 DISCHARGE CHUTE LOCK PIN ASSEMBLY, 12 mm DIA 67 1 0002190 DISCHARGE CHUTE 68 2 0002191 DISCHARGE CHUTE RETAINER PLATE 69 2 0001718 DISCHARGE CHUTE RETAINER PLATE 69 2 000130 HANDLE GRIP, GROOVED, 26 mm ID, 108 mm LG 70 2 000130 HANDLE GRIP, GROOVED, 26 mm ID, 108 mm LG 71 1 0002200 DISCHARGE CHUTE DEFLECTOR 72 1 0001786 ADJUSTABLE HANDLE, 78 X 54 mm, M10 X 1.5 73 1 0001655 MANUAL TUBE 74 10 0005124 FITTING, ADAPTER, 1/2 in NPT MALE TO 7/8-14 UNF MALE 75 1 0005115 FITTING, ELBOW, 90°, 1/2 NPT TO 7/8-14 UNF Male 76 2 0003297 HYDRAULIC LINE ASSEMBLY, STR AND ELB FITTINGS, 500 mm LG </td
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66 1 0001172 DISCHARGE CHUTE LOCK PIN ASSEMBLY, 12 mm DIA 67 1 0002190 DISCHARGE CHUTE 68 2 0002191 DISCHARGE CHUTE RETAINER PLATE 69 2 0001718 DISCHARGE CHUTE ROTATION HANDLE 70 2 0001030 HANDLE GRIP, GROOVED, 26 mm ID, 108 mm LG 71 1 000200 DISCHARGE CHUTE DEFLECTOR 72 1 0001786 ADJUSTABLE HANDLE, 78 X 54 mm, M10 X 1.5 73 1 0001655 MANUAL TUBE 74 10 0005124 FITTING, ADAPTER, 1/2 in NPT MALE TO 7/8-14 UNF MALE 75 1 0005115 FITTING, ELBOW, 90°, 1/2 NPT TO 7/8-14 UNF MALE 76 1 0004911 FITTING, TEE, 1/2 NPT TO 7/8-14 (2X) 77 2 0003297 HYDRAULIC LINE ASSEMBLY, STR AND ELB FITTINGS, 350 mm LG 78 2 0003300 HYDRAULIC LINE ASSEMBLY, STR AND ELB FITTINGS, 600 mm LG 80 1 0003301 HYDRAULIC LINE ASSEMBLY, STR AND ELB FITTINGS, 800 mm LG 81 1 0003033 HYDRA
67 1 0002190 DISCHARGE CHUTE 68 2 0002191 DISCHARGE CHUTE RETAINER PLATE 69 2 0001718 DISCHARGE CHUTE ROTATION HANDLE 70 2 0001030 HANDLE GRIP, GROOVED, 26 mm ID, 108 mm LG 71 1 000200 DISCHARGE CHUTE DEFLECTOR 72 1 0001786 ADJUSTABLE HANDLE, 78 X 54 mm, M10 X 1.5 73 1 0001655 MANUAL TUBE 74 10 0005124 FITTING, ADAPTER, 1/2 in NPT MALE TO 7/8-14 UNF MALE 75 1 0005115 FITTING, ELBOW, 90°, 1/2 NPT TO 7/8-14 THD 76 1 0004911 FITTING, TEE, 1/2 NPT TO 7/8-14 (2X) 77 2 0003297 HYDRAULIC LINE ASSEMBLY, STR AND ELB FITTINGS, 500 mm LG 78 2 0003298 HYDRAULIC LINE ASSEMBLY, STR AND ELB FITTINGS, 600 mm LG 80 1 0003301 HYDRAULIC LINE ASSEMBLY, STR AND ELB FITTINGS, 1450 mm LG 81 1 00030303 HYDRAULIC LINE ASSEMBLY, STR AND ELB FITTINGS, 1450 mm LG 82.1 0001761 PTO SHAFT W/
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69 2 0001718 DISCHARGE CHUTE ROTATION HANDLE 70 2 0001030 HANDLE GRIP, GROOVED, 26 mm ID, 108 mm LG 71 1 0002200 DISCHARGE CHUTE DEFLECTOR 72 1 0001786 ADJUSTABLE HANDLE, 78 X 54 mm, M10 X 1.5 73 1 0001655 MANUAL TUBE 74 10 0005124 FITTING, ADAPTER, 1/2 in NPT MALE TO 7/8-14 UNF MALE 75 1 0005115 FITTING, ELBOW, 90°, 1/2 NPT TO 7/8-14 THD 76 1 0004911 FITTING, TEE, 1/2 NPT TO 7/8-14 (2X) 77 2 0003297 HYDRAULIC LINE ASSEMBLY, STR AND ELB FITTINGS, 350 mm LG 78 2 0003298 HYDRAULIC LINE ASSEMBLY, STR AND ELB FITTINGS, 600 mm LG 79 1 0003300 HYDRAULIC LINE ASSEMBLY, STR AND ELB FITTINGS, 800 mm LG 80 1 0003303 HYDRAULIC LINE ASSEMBLY, STR AND ELB FITTINGS, 1450 mm LG 81 1 0003303 HYDRAULIC LINE ASSEMBLY, STR AND ELB FITTINGS, 1450 mm LG 82.1 1 0001761 PTO SHAFT W/ SHEAR BOLT, TRIMMABLE, 31-38 in (790-973 mm)
70 2 0001030 HANDLE GRIP, GROOVED, 26 mm ID, 108 mm LG 71 1 0002200 DISCHARGE CHUTE DEFLECTOR 72 1 0001786 ADJUSTABLE HANDLE, 78 X 54 mm, M10 X 1.5 73 1 0001655 MANUAL TUBE 74 10 0005124 FITTING, ADAPTER, 1/2 in NPT MALE TO 7/8-14 UNF MALE 75 1 0005115 FITTING, ELBOW, 90°, 1/2 NPT TO 7/8-14 THD 76 1 0004911 FITTING, TEE, 1/2 NPT TO 7/8-14 (2X) 77 2 0003297 HYDRAULIC LINE ASSEMBLY, STR AND ELB FITTINGS, 350 mm LG 78 2 0003298 HYDRAULIC LINE ASSEMBLY, STR AND ELB FITTINGS, 600 mm LG 79 1 0003300 HYDRAULIC LINE ASSEMBLY, STR AND ELB FITTINGS, 600 mm LG 80 1 0003303 HYDRAULIC LINE ASSEMBLY, STR AND ELB FITTINGS, 1450 mm LG 81 1 0003030 HYDRAULIC LINE ASSEMBLY, STR AND ELB FITTINGS, 1450 mm LG 82 1 0001761 PTO SHAFT W/ SHEAR BOLT, TRIMMABLE, 31-38 in (790-973 mm) 82.1 1 0003073 RETAINING CLIP KIT, PTO SHAFT W/ SHEAR BOLT
71 1 0002200 DISCHARGE CHUTE DEFLECTOR 72 1 0001786 ADJUSTABLE HANDLE, 78 X 54 mm, M10 X 1.5 73 1 0001655 MANUAL TUBE 74 10 0005124 FITTING, ADAPTER, 1/2 in NPT MALE TO 7/8-14 UNF MALE 75 1 0005115 FITTING, ELBOW, 90°, 1/2 NPT TO 7/8-14 THD 76 1 0004911 FITTING, TEE, 1/2 NPT TO 7/8-14 (2X) 77 2 0003297 HYDRAULIC LINE ASSEMBLY, STR AND ELB FITTINGS, 350 mm LG 78 2 0003298 HYDRAULIC LINE ASSEMBLY, STR AND ELB FITTINGS, 600 mm LG 79 1 000300 HYDRAULIC LINE ASSEMBLY, STR AND ELB FITTINGS, 600 mm LG 80 1 0003301 HYDRAULIC LINE ASSEMBLY, STR AND ELB FITTINGS, 1450 mm LG 81 1 0003303 HYDRAULIC LINE ASSEMBLY, STR AND ELB FITTINGS, 1450 mm LG 82 1 0001761 PTO SHAFT W/ SHEAR BOLT, TRIMMABLE, 31-38 in (790-973 mm) 82.1 1 0003073 RETAINING CLIP KIT, PTO SHAFT W/ SHEAR BOLT 82.2 1 0003073 RETAINING CLIP KIT, PTO SHAFT W/ SHEAR BOLT <
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73 1 0001655 MANUAL TUBE 74 10 0005124 FITTING, ADAPTER, 1/2 in NPT MALE TO 7/8-14 UNF MALE 75 1 0005115 FITTING, ELBOW, 90°, 1/2 NPT TO 7/8-14 THD 76 1 0004911 FITTING, TEE, 1/2 NPT TO 7/8-14 (2X) 77 2 0003297 HYDRAULIC LINE ASSEMBLY, STR AND ELB FITTINGS, 350 mm LG 78 2 0003298 HYDRAULIC LINE ASSEMBLY, STR AND ELB FITTINGS, 600 mm LG 79 1 0003300 HYDRAULIC LINE ASSEMBLY, STR AND ELB FITTINGS, 600 mm LG 80 1 0003301 HYDRAULIC LINE ASSEMBLY, STR AND ELB FITTINGS, 800 mm LG 81 1 0003303 HYDRAULIC LINE ASSEMBLY, STR AND ELB FITTINGS, 1450 mm LG 82 1 0001761 PTO SHAFT W/ SHEAR BOLT, TRIMMABLE, 31-38 in (790-973 mm) 82.1 1 0003073 RETAINING CLIP KIT, PTO SHAFT W/ SHEAR BOLT 82.2 1 0003073 RETAINING CLIP KIT, PTO SHAFT W/ SHEAR BOLT 82.3 1 HDW LOCK NUT, M8 X 1.25, 50 mm LG, 22 mm LG THD 82.4 1 HDW LOCK NUT, M8 X 1.25, 50 mm LG, 22 mm
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76 1 0004911 FITTING, TEE, 1/2 NPT TO 7/8-14 (2X) 77 2 0003297 HYDRAULIC LINE ASSEMBLY, STR AND ELB FITTINGS, 350 mm LG 78 2 0003298 HYDRAULIC LINE ASSEMBLY, STR AND ELB FITTINGS, 500 mm LG 79 1 0003300 HYDRAULIC LINE ASSEMBLY, STR AND ELB FITTINGS, 600 mm LG 80 1 0003301 HYDRAULIC LINE ASSEMBLY, STR AND ELB FITTINGS, 800 mm LG 81 1 0003303 HYDRAULIC LINE ASSEMBLY, STR AND ELB FITTINGS, 1450 mm LG 82 1 0003303 HYDRAULIC LINE ASSEMBLY, STR AND ELB FITTINGS, 1450 mm LG 82 1 0003303 HYDRAULIC LINE ASSEMBLY, STR AND ELB FITTINGS, 1450 mm LG 82 1 0003303 HYDRAULIC LINE ASSEMBLY, STR AND ELB FITTINGS, 1450 mm LG 82 1 0001761 PTO SHAFT W/ SHEAR BOLT, TRIMMABLE, 31-38 in (790-973 mm) 82.1 1 00030073 RETAINING CLIP KIT, PTO SHAFT W/ SHEAR BOLT 82.2 1 0003073 RETAINING CLIP KIT, PTO SHAFT W/ SHEAR BOLT 82.3 1 HDW HEX BOLT, M8 X 1.25, 50 mm LG, 22 mm LG THD 82.4 1
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80 1 0003301 HYDRAULIC LINE ASSEMBLY, STR AND ELB FITTINGS, 800 mm LG 81 1 0003303 HYDRAULIC LINE ASSEMBLY, STR AND ELB FITTINGS, 1450 mm LG 82 1 0001761 PTO SHAFT W/ SHEAR BOLT, TRIMMABLE, 31-38 in (790-973 mm) 82.1 1 0003069 COVER/RETAINING CLIP KIT, PTO SHAFT W/ SHEAR BOLT 82.2 1 0003073 RETAINING CLIP KIT, PTO SHAFT W/ SHEAR BOLT 82.3 1 HDW HEX BOLT, M8 X 1.25, 50 mm LG, 22 mm LG THD 82.4 1 HDW LOCK NUT, M8 X 1.25 83 1 AX41 V-BELT, COGGED, AX41 84 1 6203-2RS BALL BEARING, SEALED, 6203-2RS, 17 mm BORE, 40 mm OD, 12 mm WIDE
81 1 0003303 HYDRAULIC LINE ASSEMBLY, STR AND ELB FITTINGS, 1450 mm LG 82 1 0001761 PTO SHAFT W/ SHEAR BOLT, TRIMMABLE, 31-38 in (790-973 mm) 82.1 1 0003069 COVER/RETAINING CLIP KIT, PTO SHAFT W/ SHEAR BOLT 82.2 1 0003073 RETAINING CLIP KIT, PTO SHAFT W/ SHEAR BOLT 82.3 1 HDW HEX BOLT, M8 X 1.25, 50 mm LG, 22 mm LG THD 82.4 1 HDW LOCK NUT, M8 X 1.25 83 1 AX41 V-BELT, COGGED, AX41 84 1 6203-2RS BALL BEARING, SEALED, 6203-2RS, 17 mm BORE, 40 mm OD, 12 mm WIDE
82 1 0001761 PTO SHAFT W/ SHEAR BOLT, TRIMMABLE, 31-38 in (790-973 mm) 82.1 1 0003069 COVER/RETAINING CLIP KIT, PTO SHAFT W/ SHEAR BOLT 82.2 1 0003073 RETAINING CLIP KIT, PTO SHAFT W/ SHEAR BOLT 82.3 1 HDW HEX BOLT, M8 X 1.25, 50 mm LG, 22 mm LG THD 82.4 1 HDW LOCK NUT, M8 X 1.25 83 1 AX41 V-BELT, COGGED, AX41 84 1 6203-2RS BALL BEARING, SEALED, 6203-2RS, 17 mm BORE, 40 mm OD, 12 mm WIDE
82.1 1 0003069 COVER/RETAINING CLIP KIT, PTO SHAFT W/ SHEAR BOLT 82.2 1 0003073 RETAINING CLIP KIT, PTO SHAFT W/ SHEAR BOLT 82.3 1 HDW HEX BOLT, M8 X 1.25, 50 mm LG, 22 mm LG THD 82.4 1 HDW LOCK NUT, M8 X 1.25 83 1 AX41 V-BELT, COGGED, AX41 84 1 6203-2RS BALL BEARING, SEALED, 6203-2RS, 17 mm BORE, 40 mm OD, 12 mm WIDE
82.2 1 0003073 RETAINING CLIP KIT, PTO SHAFT W/ SHEAR BOLT 82.3 1 HDW HEX BOLT, M8 X 1.25, 50 mm LG, 22 mm LG THD 82.4 1 HDW LOCK NUT, M8 X 1.25 83 1 AX41 V-BELT, COGGED, AX41 84 1 6203-2RS BALL BEARING, SEALED, 6203-2RS, 17 mm BORE, 40 mm OD, 12 mm WIDE
82.3 1 HDW HEX BOLT, M8 X 1.25, 50 mm LG, 22 mm LG THD 82.4 1 HDW LOCK NUT, M8 X 1.25 83 1 AX41 V-BELT, COGGED, AX41 84 1 6203-2RS BALL BEARING, SEALED, 6203-2RS, 17 mm BORE, 40 mm OD, 12 mm WIDE
82.4 1 HDW LOCK NUT, M8 X 1.25 83 1 AX41 V-BELT, COGGED, AX41 84 1 6203-2RS BALL BEARING, SEALED, 6203-2RS, 17 mm BORE, 40 mm OD, 12 mm WIDE
83 1 AX41 V-BELT, COGGED, AX41 84 1 6203-2RS BALL BEARING, SEALED, 6203-2RS, 17 mm BORE, 40 mm OD, 12 mm WIDE
84 1 6203-2RS BALL BEARING, SEALED, 6203-2RS, 17 mm BORE, 40 mm OD, 12 mm WIDE
85 1 6205-2RS BALL BEARING, SEALED, 6205-2RS, 25 mm BORE, 52 mm OD, 15 mm WIDE
86 2 UCF210 FLANGE BEARING, SQ, 4-BOLT, UCF210, 50 mm BORE, 111 mm C-C
87 1 UCFL204 FLANGE BEARING, OVAL, 2-BOLT, UCFL204, 20 mm BORE, 90 mm C-C
88 3 HDW HEX BOLT, M6 X 1, 10 mm LG
89 4 HDW HEX BOLT, M6 X 1, 20 mm LG
90 2 HDW HEX BOLT, M6 X 1, 60 mm LG, 18 mm LG THD
91 2 HDW HEX BOLT, M8 X 1.25, 14 mm LG
92 4 HDW HEX BOLT, M8 X 1.25, 16 mm LG
93 2 HDW HEX BOLT, M8 X 1.25, 20 mm LG
94 4 HDW HEX BOLT, M8 X 1.25, 25 mm LG
95 10 HDW HEX BOLT, M8 X 1.25, 35 mm LG



96 1 HOW HEX BOLT, M8 X 1.25, 45 mm LG 97 2 HDW HEX BOLT, M8 X 1.25, 55 mm LG, 22 mm LG THD 98 3 HDW HEX BOLT, M10 X 15, 55 mm LG 99 3 HDW HEX BOLT, M10 X 15, 55 mm LG 100 2 HDW HEX BOLT, M12 X 175, 50 mm LG 101 2 HDW HEX BOLT, M12 X 175, 50 mm LG 103 1 HDW HEX BOLT, M12 X 175, 50 mm LG 104 4 HDW HEX BOLT, M12 X 175, 50 mm LG 105 5 HDW HEX BOLT, M16 X 2, 30 mm LG 106 2 HDW HEX BOLT, M16 X 2, 40 mm LG 107 3 HDW EVEDOLT, DIN444, M10 X 15, 120 mm LG 108 19 HDW BUTTON HEAD SCREW, M2 X 1.75, 50 mm LG 110 2 HDW BUTTON HEAD SCREW, M2 X 1.75, 50 mm LG 111 4 HDW SCREW, PPH, M6 X 1, 10 mm LG 112 8 HDW SCREW, PPH, M6 X 1, 10 mm LG 114 4 HDW SCREW, PPH, M6 X 1, 10 mm LG	Item	Qty	Part No.	Description	
98 3 HDW HEX BOLT, M10 X 1.5, 25 mm LG 99 3 HDW HEX BOLT, M10 X 1.5, 35 mm LG 100 2 HDW HEX BOLT, M12 X 1.75, 30 mm LG 101 2 HDW HEX BOLT, M12 X 1.75, 30 mm LG 102 2 HDW HEX BOLT, M12 X 1.75, 180 mm LG, 30 mm LG THD 104 4 HDW HEX BOLT, M12 X 1.75, 180 mm LG, 30 mm LG THD 104 4 HDW HEX BOLT, M18 X 2, 40 mm LG 105 5 HDW HEX BOLT, M18 X 2, 40 mm LG 106 2 HDW HEX BOLT, M18 X 2, 40 mm LG 107 3 HDW EVEROLT, DIN444, M10 X 1.5, 35 mm LG 108 19 HOW BUTTON HEAD SCREW, M10 X 1.5, 35 mm LG 109 2 HDW BUTTON HEAD SCREW, M10 X 1.5, 35 mm LG 111 4 HDW SCREW, PPH, M8 X 1.10 mm LG 112 8 HOW SCREW, PPH, M6 X 1, 16 mm LG 113 3 HOW SCREW, PH, M10 X 1, 5 35 mm LG, CL 10.9 116 HOW SCREW, PH, M10 X	96			HEX BOLT, M8 X 1.25, 45 mm LG	
99 3 HDW HEX BOLT, MIQ X 15, 35 mm LG 100 2 HDW HEX BOLT, MI2 X 175, 25 mm LG 101 2 HDW HEX BOLT, MI2 X 175, 50 mm LG 102 2 HDW HEX BOLT, MI2 X 175, 50 mm LG 103 1 HDW HEX BOLT, MIX X 175, 50 mm LG 104 4 HDW HEX BOLT, MIX X 175, 30 mm LG 105 5 HDW HEX BOLT, MIX X 175, 30 mm LG 106 2 HDW HEX BOLT, MIX X 2, 40 mm LG 107 3 HDW EVEBOLT, DIN444, MIX X 15, 135 mm LG 108 19 BUTTON HEAD SCREW, WIX X 15, 35 mm LG 109 2 HDW BUTTON HEAD SCREW, WIX X 15, 35 mm LG 110 2 HDW BUTTON HEAD SCREW, WIX X 15, 35 mm LG 111 4 HDW SCREW, PPH, MX X 1, 10 mm LG 112 8 HOW SCREW, PPH, MX X 1, 10 mm LG 113 3 HDW SCREW, PH, MX X 1, 10 mm LG 114 4 HDW SCREW, HEH, MIA X 2, 45 mm LG	97	2	HDW	HEX BOLT, M8 X 1.25, 55 mm LG, 22 mm LG THD	
100 2 HDW HEX BOLT, M12 X 1.75, 25 mm LG 101 2 HDW HEX BOLT, M12 X 1.75, 30 mm LG 102 2 HDW HEX BOLT, M12 X 1.75, 180 mm LG, 30 mm LG 103 1 HDW HEX BOLT, M12 X 1.75, 180 mm LG, 30 mm LG THD 104 4 HDW HEX BOLT, M16 X 2, 30 mm LG 105 5 HDW HEX BOLT, M16 X 2, 40 mm LG 106 2 HDW HEX BOLT, M16 X 2, 80 mm LG, 38 mm LG THD 107 3 HDW EVEROLT, DIN444, M10 X 1.5, 120 mm LG 108 19 HOW BUTTON HEAD SCREW, M8 X 1.25, 181 mm LG 109 2 HDW BUTTON HEAD SCREW, M8 X 1.25, 180 mm LG 111 4 HDW SCREW, PPH, M5 X 1.6, 41 mm LG 112 8 HDW SCREW, PPH, M5 X 1.6, 20 mm LG 113 3 HDW SCREW, HFH, M10 X 1.5, 35 mm LG, CL 10.9 116 4 HDW SCREW, HFH, M10 X 1.5, 35 mm LG, CL 10.9 117 4 HDW SCREW, HFH, M10 X 1.5, 35 mm LG, CL 10.9 118	98	3	HDW	HEX BOLT, M10 X 1.5, 25 mm LG	
101 2 HDW HEX BOLT, M12 X 1.75, 30 mm LG 102 2 HDW HEX BOLT, M12 X 1.75, 50 mm LG 103 1 HOW HEX BOLT, M15 X 2, 30 mm LG 104 4 HDW HEX BOLT, M15 X 2, 30 mm LG 105 5 HDW HEX BOLT, M16 X 2, 40 mm LG 106 2 HOW HEX BOLT, M16 X 2, 40 mm LG 107 3 HDW EVEBOLT, DIN444, M10 X 1.5, 120 mm LG 108 19 HDW BUTTON HEAD SCREW, M10 X 1.5, 35 mm LG 109 2 HDW BUTTON HEAD SCREW, M10 X 1.5, 35 mm LG 110 2 HDW BUTTON HEAD SCREW, M10 X 1.5, 35 mm LG 111 4 HDW SCREW, PPH, M5 X 1, 10 mm LG 112 8 HDW SCREW, PH, M6 X 1, 10 mm LG 113 3 HDW SCREW, HFH, M10 X 1.5, 35 mm LG, CL 10.9 114 4 HDW SCREW, HFH, M10 X 1.5, 35 mm LG, CL 10.9 116 HDW SCREW, HFH, M14 X 2, 45 mm LG 117 4 HDW SCREW, HFH, M14 X 2, 45 mm	99	3	HDW		
102 2 HDW HEX BOLT, M12 X 1.75, 50 mm LG 103 1 HDW HEX BOLT, M12 X 1.75, 180 mm LG, 30 mm LG 104 4 HDW HEX BOLT, M16 X 2, 30 mm LG 105 5 HDW HEX BOLT, M16 X 2, 40 mm LG, 38 mm LG THD 106 2 HDW HEX BOLT, M16 X 2, 40 mm LG, 38 mm LG THD 107 3 HDW EVEBOLT, DIN444, MIO X 1.5, 120 mm LG 108 19 HDW BUTTON HEAD SCREW, M10 X 1.5, 35 mm LG 109 2 HDW BUTTON HEAD SCREW, M12 X 1.75, 50 mm LG 111 4 HDW SCREW, PPH, M5 X 0.8, 14 mm LG 112 8 HDW SCREW, PPH, M6 X 1, 10 mm LG 113 3 HDW SCREW, PPH, M6 X 1, 14 mm LG 114 4 HDW SCREW, PPH, M6 X 1, 14 mm LG 115 16 HDW SCREW, HFM, M10 X 1.5, 35 mm LG, CL 10.9 116 4 HDW SCREW, HFM, M10 X 1.6, 38 mm LG 117 4 HDW SCREW, HEX HEAD, 11 X 15 mm LG SHLDP, M10 X 1.5 X 20 mm LG THD 120	100	2	HDW	HEX BOLT, M12 X 1.75, 25 mm LG	
103 1 HDW HEX BOLT, M12 X 1.75, 180 mm LG, 30 mm LG 104 4 HDW HEX BOLT, M16 X 2, 30 mm LG 105 5 HDW HEX BOLT, M16 X 2, 80 mm LG 106 2 HDW HEX BOLT, M16 X 2, 80 mm LG, 38 mm LG THD 107 3 HDW EVEBOLT, DIN444, M10 X 1.5, 120 mm LG 108 19 HDW BUTTON HEAD SCREW, M0 X 1.5, 35 mm LG 109 2 HDW BUTTON HEAD SCREW, M12 X 1.75, 50 mm LG 110 2 HDW BUTTON HEAD SCREW, M12 X 1.75, 50 mm LG 111 4 HDW SCREW, PPH, M5 X 1, 14 mm LG 112 8 HDW SCREW, PPH, M6 X 1, 16 mm LG 113 3 HDW SCREW, PH, M6 X 1, 16 mm LG 114 4 HDW SCREW, HFH, M14 X 2, 45 mm LG 115 16 HDW SCREW, HFH, M14 X 1.5, 35 mm LG, CL 10.9 116 4 HDW SCREW, HFH, M14 X 1.5, 35 mm LG, CL 10.9 117 4 HDW SCREW, HFH, M14 X 1.5, 35 mm LG, CL 10.9 118 4	101	2	HDW	HEX BOLT, M12 X 1.75, 30 mm LG	
104 4 HDW HEX BOLT, M16 X 2, 40 mm LG 105 5 HDW HEX BOLT, M16 X 2, 40 mm LG 106 2 HDW HEX BOLT, M16 X 2, 80 mm LG, 38 mm LG THD 107 3 HDW EYEBOLT, M16 X 2, 80 mm LG, 38 mm LG 108 19 HDW BUTTON HEAD SCREW, M10 X 1.5, 15 mm LG 109 2 HDW BUTTON HEAD SCREW, M10 X 1.5, 35 mm LG 110 2 HDW BUTTON HEAD SCREW, M10 X 1.5, 35 mm LG 111 4 HDW SCREW, PPH, M5 X 0.8, 14 mm LG 112 8 HDW SCREW, PPH, M6 X 1, 16 mm LG 113 3 HDW SCREW, PPH, M6 X 1, 16 mm LG 114 4 HDW SCREW, HFH, M14 X 2, 45 mm LG 115 16 HDW SCREW, HFH, M14 X 2, 45 mm LG 116 4 HDW SCREW, HTM M6 X 2, 60 mm LG 117 4 HDW SCREW, FLAT TIP, M6 X 1, 8 mm LG 118 4 HDW SCREW, FLAT TIP, M6 X 1, 8 mm LG 120 2 HDW SHCS, MS X	102	2	HDW	HEX BOLT, M12 X 1.75, 50 mm LG	
105 5 HDW HEX BOLT, M16 X 2, 40 mm LG, 38 mm LG THD 106 2 HDW HEX BOLT, M16 X 2, 80 mm LG, 38 mm LG THD 107 3 HDW EYEBOLT, DIN444, M10 X 1.5, 120 mm LG 108 19 HDW BUTTON HEAD SCREW, M10 X 1.5, 38 mm LG 109 2 HDW BUTTON HEAD SCREW, M12 X 1.75, 50 mm LG 110 2 HDW BUTTON HEAD SCREW, M12 X 1.75, 50 mm LG 111 4 HDW SCREW, PPH, M5 X 0.8, 14 mm LG 112 8 HDW SCREW, PPH, M6 X 1, 16 mm LG 113 3 HDW SCREW, PPH, M6 X 1, 16 mm LG 114 4 HDW SCREW, VPH, M14 X 2, 45 mm LG 115 16 HDW SCREW, VPH, M14 X 2, 45 mm LG 116 4 HDW SCREW, VPH, M14 X 2, 45 mm LG 117 4 HDW SCREW, FLAT 117, M6 X 1, 6 mm LG 118 4 HDW SHCS, M6 X 1, 20 mm LG 120 HDW SET SCREW, FLAT TIP, M6 X 1, 8 mm LG 121 HDW SET SCREW, FLAT TIP, M6 X 1, 8	103	1	HDW	HEX BOLT, M12 X 1.75, 180 mm LG, 30 mm LG THD	
106 2 HDW HEX BOLT, M16 X 2, 80 mm LG, 38 mm LG THD 107 3 HDW EYEBOLT, DIN444, M10 X 1.5, 120 mm LG 108 19 HDW BUTTON HEAD SCREW, M10 X 1.5, 135 mm LG 109 2 HDW BUTTON HEAD SCREW, M10 X 1.5, 35 mm LG 110 2 HDW BUTTON HEAD SCREW, M10 X 1.5, 35 mm LG 111 4 HDW SCREW, PH, M5 X 0.8, 14 mm LG 112 8 HDW SCREW, PH, M6 X 1, 10 mm LG 113 3 HDW SCREW, PH, M6 X 1, 10 mm LG 114 4 HDW SCREW, HFH, M10 X 1.5, 35 mm LG, CL 10.9 116 HDW SCREW, HFH, M10 X 2, 45 mm LG 117 4 HDW SCREW, HFH, M14 X 2, 45 mm LG 118 4 HDW SCREW, FLAT TIP, M6 X 1, 6 mm LG 120 2 HDW SET SCREW, FLAT TIP, M6 X 1, 6 mm LG 121 2 HDW SET SCREW, FLAT TIP, M6 X 1, 8 mm LG 122 1 HDW SET SCREW, FLAT TIP, M6 X 1, 8 mm LG 123 4 HDW	104	4	HDW	HEX BOLT, M16 X 2, 30 mm LG	
107 3 HDW EYEBOLT, DIN444, M10 X 1.5, 120 mm LG 108 19 HDW BUTTON HEAD SCREW, M1 X 1.25, 18 mm LG 109 2 HDW BUTTON HEAD SCREW, M1 X 1.5, 35 mm LG 110 2 HDW BUTTON HEAD SCREW, M1 X 1.5, 50 mm LG 111 4 HDW SCREW, PPH, M5 X 0.8, 14 mm LG 112 8 HDW SCREW, PPH, M5 X 0.8, 14 mm LG 113 3 HDW SCREW, PPH, M5 X 1.16 mm LG 114 4 HDW SCREW, PPH, M5 X 1.6 mm LG 115 16 HDW SCREW, HFH, M1 X 2, 45 mm LG 116 4 HDW SCREW, HFH, M1 X 2, 45 mm LG 117 4 HDW SCREW, HTA 2, 45 mm LG 118 4 HDW SCREW, HEX H14 X 2, 45 mm LG 120 2 HDW SHCS, M5 X 0.8, 14 mm LG 121 2 HDW SET SCREW, FLAT TIP, M6 X 1, 6 mm LG 122 1 HDW SET SCREW, FLAT TIP, M6 X 1, 6 mm LG 123 4 HDW FLAT WASHER, M12	105	5	HDW	HEX BOLT, M16 X 2, 40 mm LG	
108 19 HDW BUTTON HEAD SCREW, M8 X 1.25, 18 mm LG 109 2 HDW BUTTON HEAD SCREW, M10 X 1.5, 35 mm LG 110 2 HDW BUTTON HEAD SCREW, M12 X 1.75, 50 mm LG 111 4 HDW SCREW, PPH, M5 X 0.8, 14 mm LG 112 8 HDW SCREW, PPH, M6 X 1, 10 mm LG 113 3 HDW SCREW, PPH, M6 X 1, 14 mm LG 114 4 HDW SCREW, PH, M6 X 1, 16 mm LG 115 16 HDW SCREW, HH, M10 X 1.5, 35 mm LG, CL 10.9 116 4 HDW SCREW, HH, M10 X 1.5, 35 mm LG, CL 10.9 117 4 HDW SCREW, HH, M10 X 1.5, 35 mm LG 118 4 HDW SCREW, HEX HEAD, 11 X 15 mm LG SHLDR, M10 X 1.5 X 20 mm LG THD 121 2 HDW SET SCREW, FLAT TIP, M6 X 1, 8 mm LG 122 1 HDW SET SCREW, FLAT TIP, M6 X 1, 8 mm LG 123 4 HDW FLAT WASHER, M10 124 4 HDW FLAT WASHER, N12 X 1.7 10 mm LG 125 24	106	2	HDW	HEX BOLT, M16 X 2, 80 mm LG, 38 mm LG THD	
109 2 HDW BUTTON HEAD SCREW, M10 X 1.5, 35 mm LG 110 2 HDW BUTTON HEAD SCREW, M12 X 1.75, 50 mm LG 111 4 HDW SCREW, PPH, M5 X 0.8, 14 mm LG 112 8 HDW SCREW, PPH, M6 X 1, 10 mm LG 113 3 HDW SCREW, PPH, M6 X 1, 16 mm LG 114 4 HDW SCREW, PPH, M6 X 1, 16 mm LG 115 16 HDW SCREW, HFH, M10 X 1, 5, 35 mm LG, CL 10.9 116 4 HDW SCREW, HFH, M15 X 2, 60 mm LG 117 4 HDW SCREW, HFH, M15 X 2, 60 mm LG 118 4 HDW SCREW, HEX HEAD, 11 X 15 mm LG, CL 10.9 119 4 HDW SHCS, M5 X 0, 81 4 mm LG 120 2 HDW SET SCREW, FLAT TIP, M6 X 1, 6 mm LG 121 2 HDW SET SCREW, FLAT TIP, M6 X 1, 26 mm LG 122 1 HDW SET SCREW, FLAT TIP, M6 X 1, 26 mm LG 123 4 HDW FLAT WASHER, M12 124 4 HDW FLAT WASHER,	107		HDW		
109 2 HDW BUTTON HEAD SCREW, M10 X 1.5, 35 mm LG 110 2 HDW BUTTON HEAD SCREW, M12 X 1.75, 50 mm LG 111 4 HDW SCREW, PPH, M5 X 0.8, 14 mm LG 112 8 HDW SCREW, PPH, M6 X 1, 10 mm LG 113 3 HDW SCREW, PPH, M6 X 1, 16 mm LG 114 4 HDW SCREW, PPH, M6 X 1, 16 mm LG 115 16 HDW SCREW, HFH, M10 X 1, 5, 35 mm LG, CL 10.9 116 4 HDW SCREW, HFH, M15 X 2, 60 mm LG 117 4 HDW SCREW, HFH, M15 X 2, 60 mm LG 118 4 HDW SCREW, HEX HEAD, 11 X 15 mm LG, CL 10.9 119 4 HDW SHCS, M5 X 0, 81 4 mm LG 120 2 HDW SET SCREW, FLAT TIP, M6 X 1, 6 mm LG 121 2 HDW SET SCREW, FLAT TIP, M6 X 1, 26 mm LG 122 1 HDW SET SCREW, FLAT TIP, M6 X 1, 26 mm LG 123 4 HDW FLAT WASHER, M12 124 4 HDW FLAT WASHER,	108	19	HDW		
110 2 HDW BUTTON HEAD SCREW, M12 X 1.75, 50 mm LG 111 4 HDW SCREW, PPH, M5 X 0.8, 14 mm LG 112 8 HDW SCREW, PPH, M6 X 1, 10 mm LG 113 3 HDW SCREW, PPH, M6 X 1, 16 mm LG 114 4 HDW SCREW, PPH, M6 X 1, 16 mm LG 114 4 HDW SCREW, HFH, M10 X 1.5, 35 mm LG, CL 10.9 116 HDW SCREW, HFH, M16 X 2, 45 mm LG 117 4 HDW SCREW, HFH, M16 X 2, 45 mm LG 118 4 HDW SCREW, HFH, M16 X 2, 60 mm LG 118 4 HDW SCREW, FLAT TIP, M6 X 1, 6 mm LG 120 2 HDW SET SCREW, FLAT TIP, M6 X 1, 6 mm LG 121 2 HDW SET SCREW, FLAT TIP, M6 X 1, 8 mm LG 122 1 HDW SET SCREW, FLAT TIP, M6 X 1, 2 mm LG 123 4 HDW FLAT WASHER, M5 124 4 HDW FLAT WASHER, M12, 25: 10 mm LG 125 24 HDW FLAT WASHER, M12, 25: 10 mm CD	109	2	HDW		
111 4 HDW SCREW, PPH, M5 X 0.8, 14 mm LG 112 8 HDW SCREW, PPH, M6 X 1, 10 mm LG 113 3 HDW SCREW, PPH, M6 X 1, 10 mm LG 114 4 HDW SCREW, PPH, M6 X 1, 11 mm LG 115 16 HDW SCREW, PFH, M1 X 1.5, 35 mm LG, CL 10.9 116 4 HDW SCREW, HFH, M10 X 2, 60 mm LG 117 4 HDW SCREW, HFH, M16 X 2, 60 mm LG 118 4 HDW SHCS, M5 X 0.8, 14 mm LG 119 4 HDW SHCS, M5 X 0.8, 14 mm LG 120 2 HDW SHCS, M5 X 1.20 mm LG 121 2 HDW SET SCREW, FLAT TIP, M6 X 1, 6 mm LG 122 1 HDW SET SCREW, FLAT TIP, M6 X 1, 8 mm LG 123 4 HDW SET SCREW, FLAT TIP, M6 X 1, 8 mm LG 124 4 HDW FLAT WASHER, M5 125 24 HDW FLAT WASHER, M12 126 3 HDW FLAT WASHER, M12 127 <	110	2	HDW		
112 8 HDW SCREW, PPH, M6 X 1, 10 mm LG 113 3 HDW SCREW, PPH, M6 X 1, 14 mm LG 114 4 HDW SCREW, PPH, M6 X 1, 16 mm LG 115 16 HDW SCREW, PPH, M10 X 15, 35 mm LG, CL 10.9 116 4 HDW SCREW, HFH, M14 X 2, 45 mm LG 117 4 HDW SCREW, HFH, M16 X 2, 60 mm LG 118 4 HDW SCREW, HFH, M16 X 1, 20 mm LG 120 2 HDW SHCS, M5 X 0.8, 14 mm LG 121 2 HDW SET SCREW, FLAT TIP, M6 X 1, 6 mm LG 122 1 HDW SET SCREW, FLAT TIP, M6 X 1, 6 mm LG 123 4 HDW SET SCREW, FLAT TIP, M6 X 1, 6 mm LG 124 4 HDW FLAT WASHER, M5 125 24 HDW FLAT WASHER, M12 126 3 HDW FLAT WASHER, M12 127 4 HDW FLAT WASHER, M12 128 6 HDW FLAT WASHER, M10, 4 mm THK 129 5	111	4	HDW		
113 3 HDW SCREW, PPH, M6 X 1, 14 mm LG 114 4 HDW SCREW, PPH, M6 X 1, 16 mm LG 115 16 HDW SCREW, HFH, M10 X 1, 5, 35 mm LG, CL 10.9 116 4 HDW SCREW, HFH, M10 X 1, 5, 35 mm LG, CL 10.9 116 4 HDW SCREW, HFH, M16 X 2, 45 mm LG 117 4 HDW SCREW, HFH, M16 X 2, 60 mm LG 118 4 HDW SCREW, HEN, M16 X 2, 60 mm LG 119 4 HDW SHCS, M5 X 0.8, 14 mm LG 120 2 HDW SHCS, M6 X 1, 20 mm LG 121 2 HDW SET SCREW, FLAT TIP, M6 X 1, 6 mm LG 122 1 HDW SET SCREW, FLAT TIP, M6 X 1, 8 mm LG 123 4 HDW FLAT WASHER, M5 124 4 HDW FLAT WASHER, M8 125 24 HDW FLAT WASHER, M12 126 3 HDW FLAT WASHER, M12, 25.1 mm OD, NYLON 129 5 HDW FLAT WASHER, M10, 26 mm OD 131					
114 4 HDW SCREW, PPH, M6 X 1, 16 mm LG 115 16 HDW SCREW, HFH, M10 X 1.5, 35 mm LG, CL 10.9 116 4 HDW SCREW, HFH, M14 X 2, 45 mm LG 117 4 HDW SCREW, HFH, M14 X 2, 45 mm LG 118 4 HDW SCREW, HF, M16 X 2, 60 mm LG 119 4 HDW SHCS, M5 X 0.8, 14 mm LG 120 2 HDW SHCS, M5 X 1.20 mm LG 121 2 HDW SET SCREW, FLAT TIP, M6 X 1, 6 mm LG 122 1 HDW SET SCREW, FLAT TIP, M6 X 1, 8 mm LG 123 4 HDW SET SCREW, FLAT TIP, M6 X 1, 8 mm LG 124 4 HDW SET SCREW, FLAT TIP, M6 X 1, 8 mm LG 125 24 HDW FLAT WASHER, M5 126 3 HDW FLAT WASHER, M12 127 4 HDW FLAT WASHER, M12, 25.1 mm OD, NYLON 129 5 HDW FLAT WASHER, M12, 25.1 mm OD 120 2 HDW FENDER WASHER, M10, 26 mm OD					
115 16 HDW SCREW, HFH, M10 X 1.5, 35 mm LG, CL 10.9 116 4 HDW SCREW, HFH, M16 X 2, 45 mm LG 117 4 HDW SCREW, HFH, M16 X 2, 60 mm LG 118 4 HDW SHCS, M5 X 0.8, 14 mm LG 119 4 HDW SHCS, M6 X 1, 20 mm LG 120 2 HDW SHLDR SCREW, HEX HEAD, 11 X 15 mm LG SHLDR, M10 X 1.5 X 20 mm LG THD 121 2 HDW SET SCREW, FLAT TIP, M6 X 1, 6 mm LG 122 1 HDW SET SCREW, FLAT TIP, M6 X 1, 8 mm LG 123 4 HDW SET SCREW, FLAT TIP, M6 X 1, 20 mn LG 124 4 HDW FLAT WASHER, M5 125 24 HDW FLAT WASHER, M8 126 3 HDW FLAT WASHER, M12 127 4 HDW FLAT WASHER, M12 128 6 HDW FLAT WASHER, M12 129 5 HDW FLAT WASHER, M10, 26 mm OD 131 3 HDW FENDER WASHER, M10, 26 mm OD	114	4	HDW		
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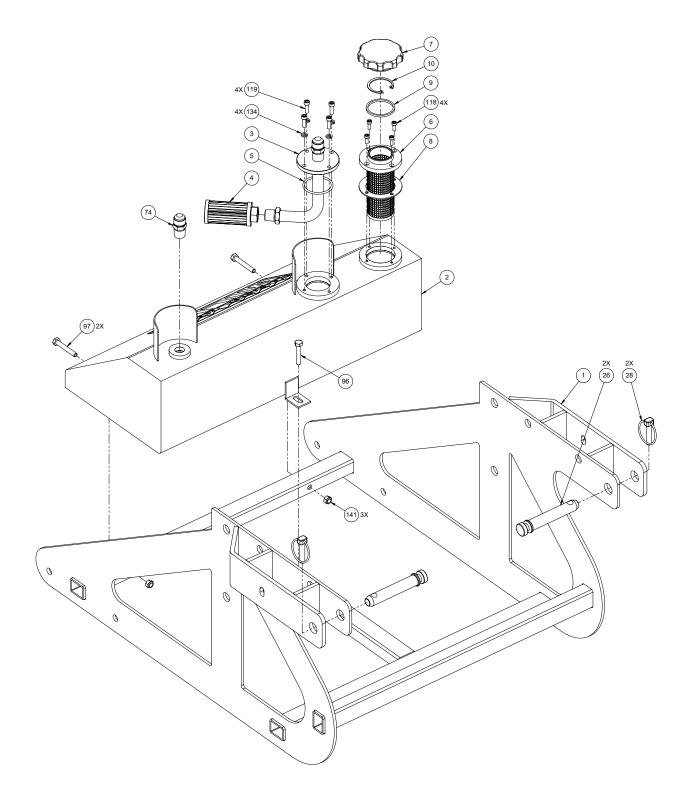




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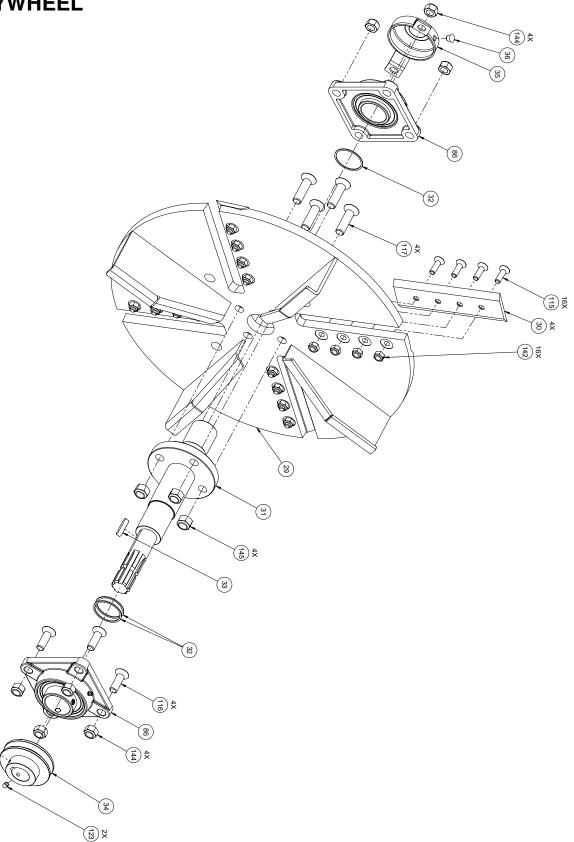


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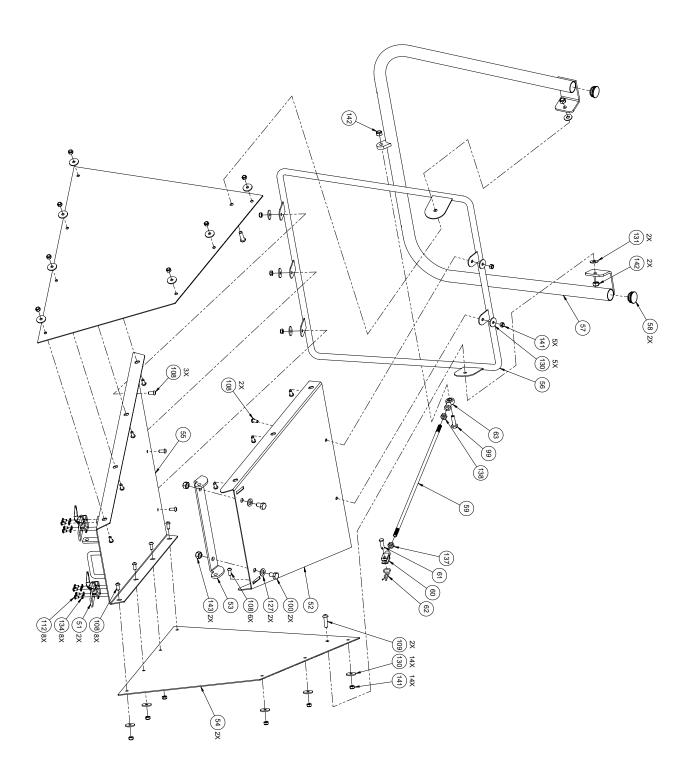
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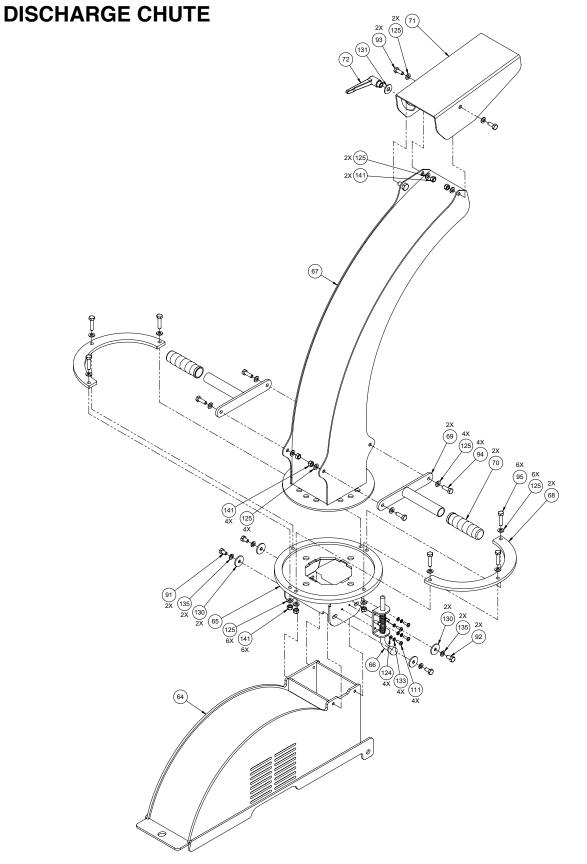
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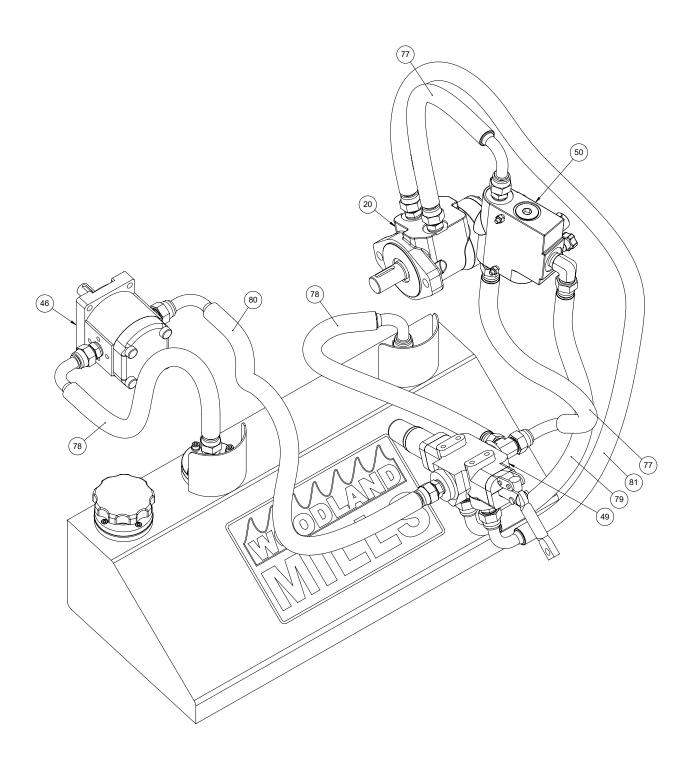




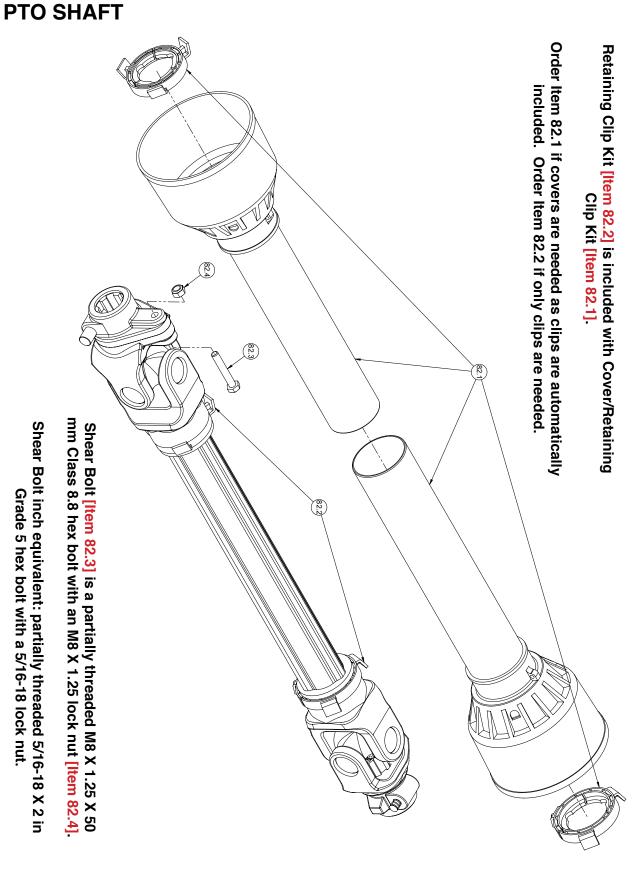




HYDRAULIC LINES







22-Jan-2021



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