TF68 PRO 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, WARNING & INFORMATION SYMBOLS

Throughout this operator's manual and on the wood chipper, there are safety, warning, and information symbols. Please heed and obey all warnings.

Symbol	Description
	Refer to instruction/operator's manual
	Wear eye protection
	Wear a face shield
	Wear ear protection
	Wear protective gloves
	General warning
	Sharp element warning
	Moving parts warning
	Flying debris warning
	Stand clear warning

^{**}Look for symbols in the upper-right corner of each page throughout the manual.**



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.



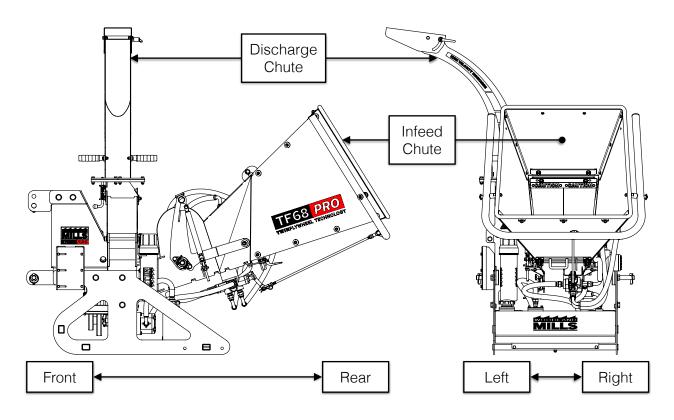
TOOL USE AND CARE

- 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 in [152 mm] in diameter or for any purpose other than chipping brush as described in this manual.



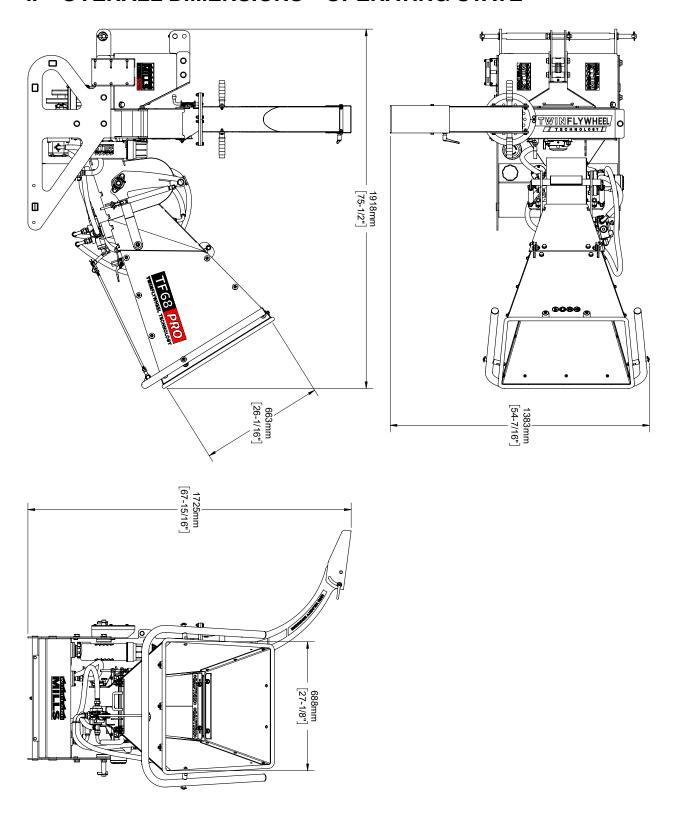
TECHNICAL SPECIFICATIONS

Component	TF68 PRO 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	5.3 gal [20 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 in [219 X 69 X 8 mm]
Blade Hardware	M10 X 16 mm Hex Head Bolts - Class 8.8
Infeed Roller Diameter	7-7/16 in [188 mm] at Tooth Tip
Infeed Chute Dimensions (W x H)	27-1/8 X 26-1/16 in [688 X 663 mm]
Product Weight	797 lb [362 kg]
Product Shipping Weight	915 lb [415 kg]





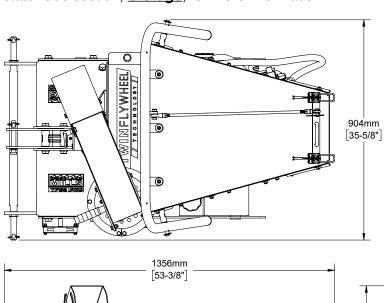
i. OVERALL DIMENSIONS—OPERATING STATE

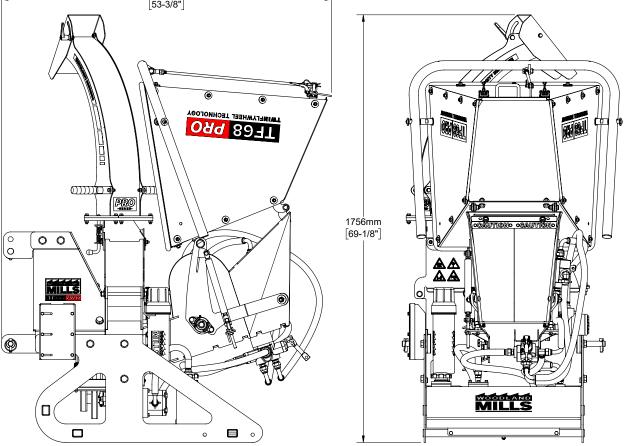




ii. OVERALL DIMENSIONS—STORED STATE

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.

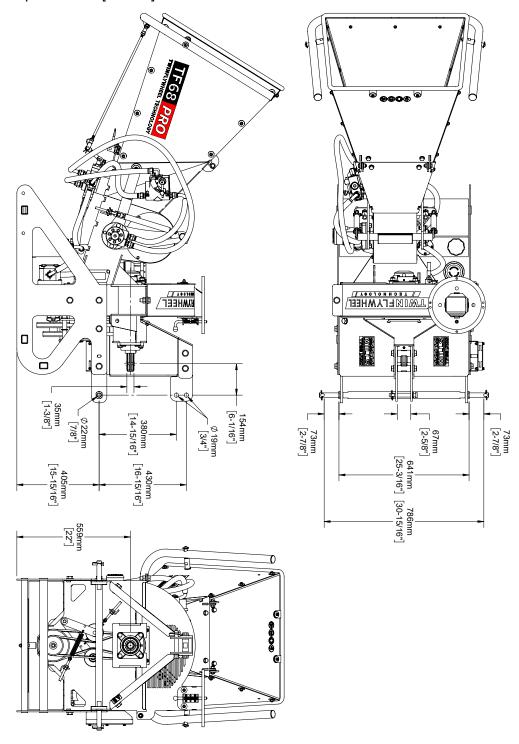






iii. 3-POINT HITCH DIMENSIONS

The TF68 PRO wood chipper has a Category 1, 3-point hitch system that is designed to work with tractors rated at 20-50 PTO horsepower. Upper hitch pin is $\frac{3}{4}$ " [19 mm] diameter and the lower hitch pins are $\frac{7}{8}$ " [22 mm] diameter.





COMPONENT LISTS

Verify all component and hardware quantities are correct prior to assembling the wood chipper.

1x	Connecting Rod [0006864]	01	1x	Infeed Chute Bottom Panel Assembly	
2x	Lower Hitch Pin [0001738]		1x	Round Edge Bar [0006913]	
2x	Lower Hitch Arm [0006859]	0 0 0 0 0	1x	Control Arm [0009646]	
2x	Upper Hitch Plate [0007036]		2x	Control Arm Spacer [0008193]	
2x	Upper Hitch Bushing [0009856]		1x	Linkage Rod Assembly	
1x	Upper Hitch Pin [0001156]		1x	Clevis Pin 10 mm [0004749]	00
3x	Linch Pin [0004705]		1x	Hairpin Cotter Pin [0004760]	
1x	Infeed Chute Top Panel Assembly	Co oc	1x	Discharge Chute Nozzle [0003136]	
1x	Infeed Chute Right Side Panel [0006912]	THE PRO	1x	Discharge Chute Assembly	WITTEN OF THE PARTY OF THE PART
1x	Infeed Chute Left Side Panel [0006911]		2x	Discharge Chute Retainer [0009211]	



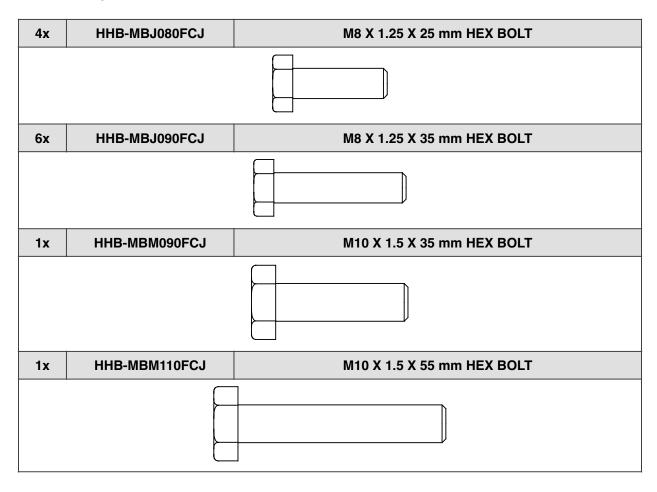
2x	Discharge Chute Handle with Grip	
1x	Chainsaw Holder Assembly	

1x	PTO Shaft [0010500]	
1x	Bed Plate Gap Tool [0010411]	

TO-SCALE HARDWARE

BOLTS & SCREWS

Hardware graphics are printed at 1:1 scale for ease of identification. Simply place the hardware over the image in the tables to verify it is the correct size.



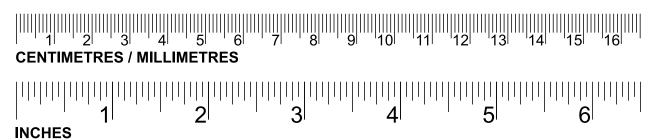


4x	HHB-MCA100FCJ	M16 X 2 X 45 mm HEX BOLT
4x	HHB-MCA110FCJ	M16 X 2 X 55 mm HEX BOLT
4x	SNC-MBJ080FCJ	M8 X 1.25 X 25 mm CARRIAGE BOLT
19x	BHS-MBJ073FCM	M8 X 1.25 X 18 mm BUTTON HEAD SCREW
4x	BHS-MBM075FCT	M10 X 1.5 X 20 mm BUTTON HEAD SCREW, THREADLOCKER
2x	HHS-MBM057069AJ	M10 X 1.5 X 20 mm HEX HEAD SHOULDER SCREW



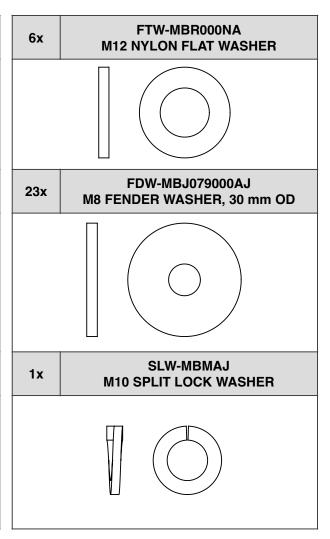
SCALES

Ruler scales are also provided below to double-check bolt and screw lengths when necessary.



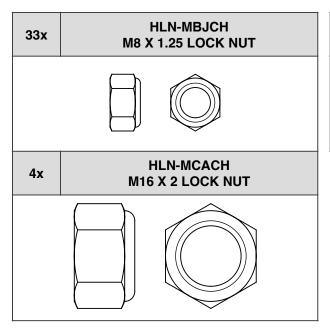
WASHERS

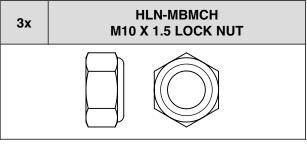
20x	FTW-MBJ000AJ M8 FLAT WASHER
12x	SLW-MCA000AJ M16 FLAT WASHER
5x	FDW-MBM075000AJ M10 FENDER WASHER, 30 mm OD





NUTS







ASSEMBLY

1. TOOLS REQUIRED

Tool	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 *Trimming the PTO Shaft* section for more detail.

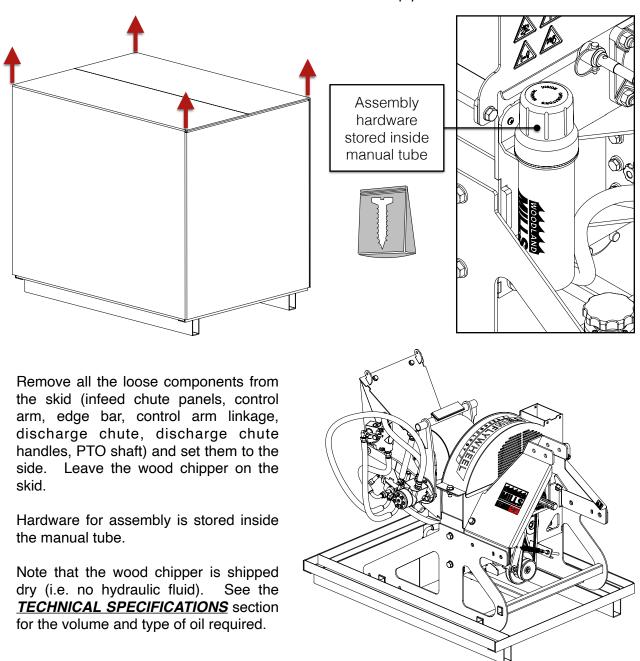




2. UNPACKING

A. UNBOXING THE CRATE

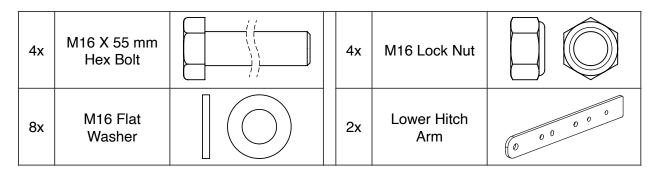
Unpack the contents of the crate by first cutting the nylon strapping and then remove the cardboard top and sides. Remove the four (4) M8 hex bolts and nuts located at each bottom corner of the crate and then lift it off the skid. Discard the top portion of the crate.





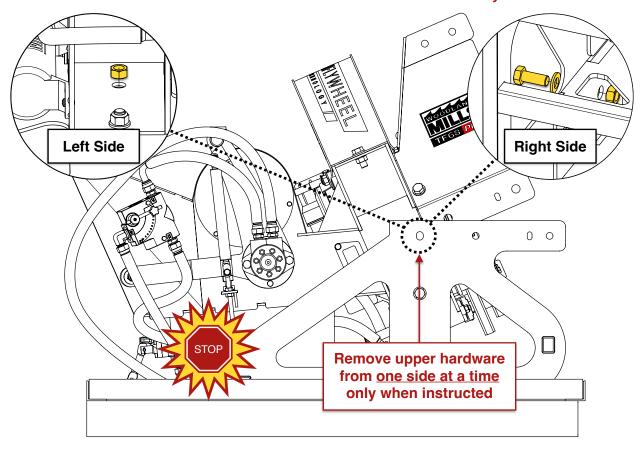
B. LOWER HITCH

Use the components and hardware listed in the table below to assemble the lower hitch arms to the chipper.



Before the lower hitch arms can be installed, there are temporary nuts securing the two (2) upper base bolts of the flywheel housing (one per side) that need to be removed. If both nuts are removed at the same time, the entire chassis could fall forward in the base and damage the machine as shown in the graphic below.

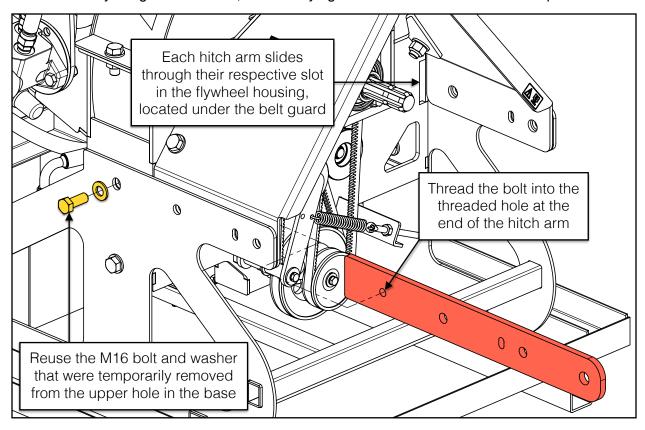
It is imperative that only one side's upper base hardware is removed at a time while the hitch arm for that side is installed. Remove each side's hardware only when instructed.



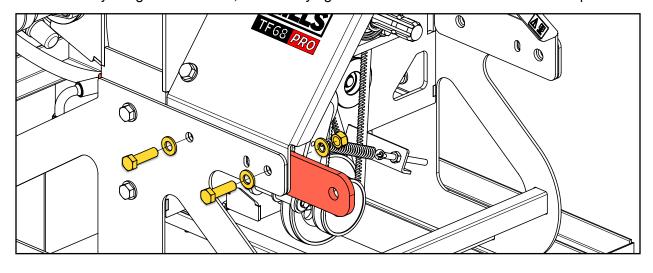


Remove the temporary nut from under the right-side of the flywheel housing and discard it.

Slide one (1) of the lower hitch arms into the rectangular slot on the right-side of the lower flywheel housing and reinstall the M16 X 40 mm bolt and M16 flat washer that were temporarily removed. Only snug the hardware, do not fully tighten until instructed in a later step



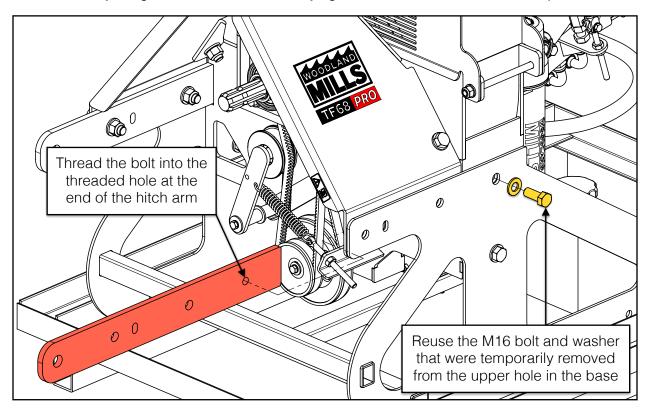
Use two (2) M16 X 55 mm bolts, four (4) M16 flat washers, and two (2) M16 lock nuts to secure the arm. Only snug the hardware, do not fully tighten them until instructed in a later step.



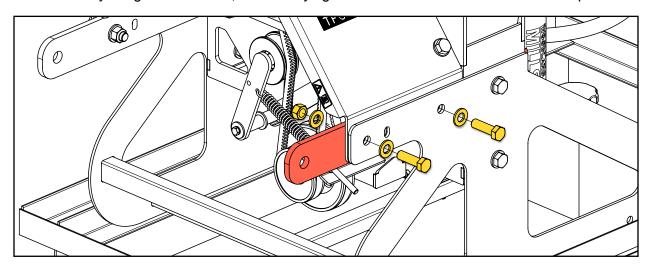


Now remove the temporary nut from under the left side of the flywheel housing and discard it.

Slide the other lower hitch arm into the rectangular slot on the left-side of the lower flywheel housing and reinstall the M16 X 40 mm bolt and M16 flat washer that were temporarily removed. Only snug the hardware, do not fully tighten until instructed in a later step.



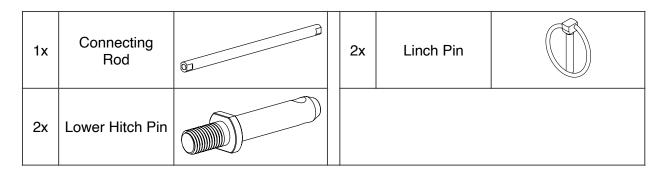
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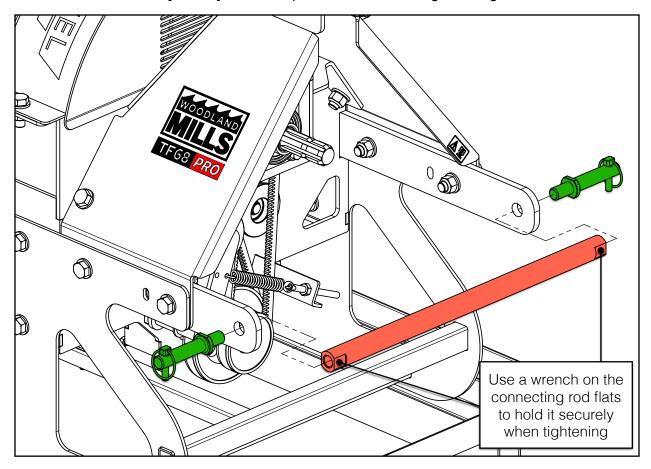


C. CONNECTING ROD

Using the components listed in the table below, assemble the connecting rod between the lower hitch arms.



Position the connecting rod between the two (2) lower hitch arms and then thread one (1) lower hitch pin into each end, securing it to the arms. The flats at both ends of the connecting rod will accommodate a 1-1/8 in [28 mm] wrench to prevent it from rotating when tightened.



With the connecting rod tight, now fully tighten all the hardware for the lower hitch arms from the previous step.

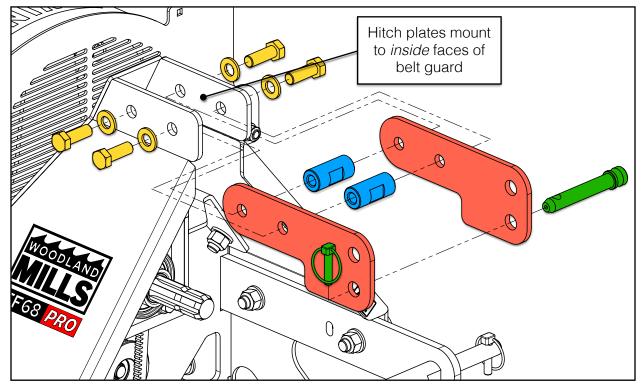


D. UPPER HITCH

Using the hardware and components listed in the table below, assemble the upper hitch plates to the belt guard.

4x	M16 X 45 mm Hex Bolt	2x	Upper Hitch Plate	
4x	M16 Flat Washer	1x	Upper Hitch Pin	
2x	Upper Hitch Bushing	1x	Linch Pin	

Assemble the plates to the belt guard using four (4) M16 X 45 mm hex bolts, four (4) M16 flat washers, and two (2) hitch bushings. The upper hitch plates mount to the *inner faces* of the belt guard with the bushings between them.



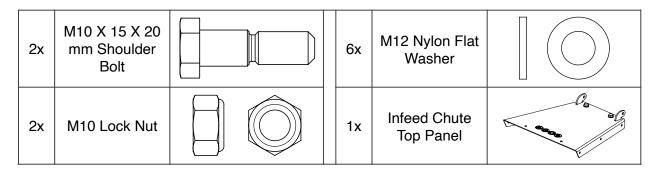
When tightening the hardware, hold the bushings still with an adjustable or 15/16 in [24 mm] wrench and turn the hex bolts with a second wrench or ratchet. Fully tighten all the hardware.



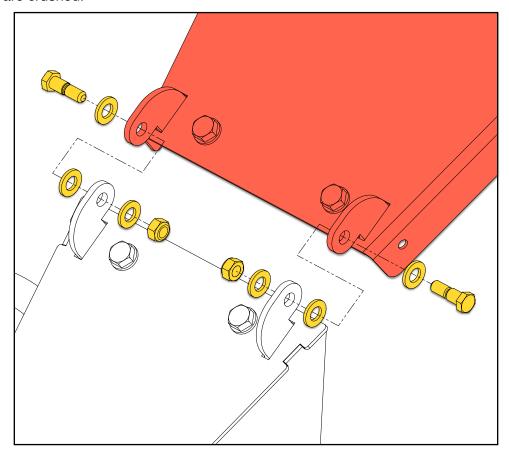
3. INFEED CHUTE

A. TOP PANEL

Assemble the infeed chute top panel to the lower flywheel housing using the components and hardware listed in the table below. Note that the infeed chute top panel and hinge bracket come pre-assembled.



Fasten the top panel to the lower flywheel housing using two (2) M10 X 15 X 20 mm shoulder screws, six (6) M12 nylon flat washers, and two (2) M10 lock nuts to form the hinge. Tighten the hardware enough so that the hinge moves with some effort but not too tight that the nylon washers are crushed.



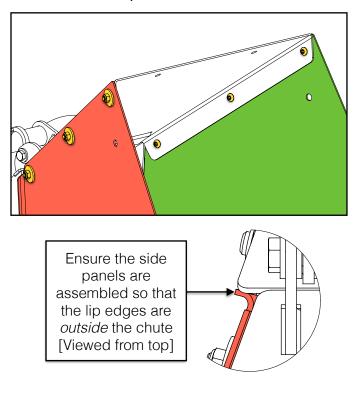


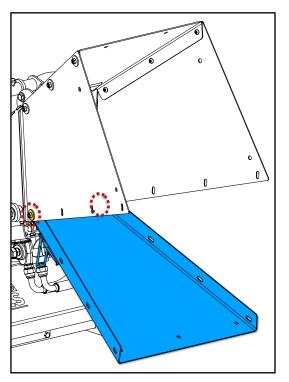
B. SIDE PANELS AND BOTTOM PANEL

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. Use a hex key for the screws and a socket/wrench for the lock nuts.

8x	M8 X 18 mm Button Head Screw	1x	Infeed Chute Right Side Panel	
8x	M8 Lock Nut	1x	Infeed Chute Left Side Panel	
8x	M8 X 30 mm Fender Washer	1x	Infeed Chute Bottom Panel	

Install three (3) screws per side along the top edge. 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 bolt per side 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.







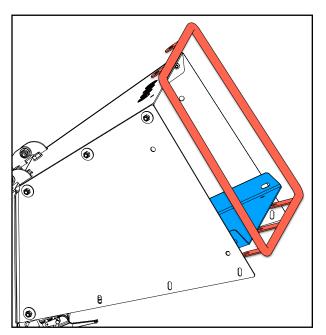
C. EDGE BAR

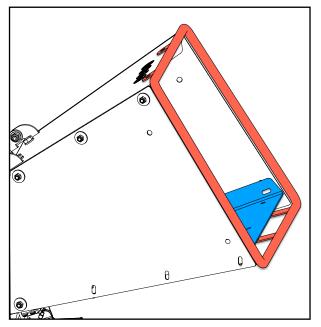
Assemble the round edge bar to the infeed chute using the hardware listed below.

11x	M8 X 18 mm Button Head Screw	11x	M8 X 30 mm Fender Washer	
11x	M8 Lock Nut	1x	Infeed Chute Round 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.

Swing the bottom panel up and fit the top and bottom tabs of the round edge bar over the outside faces of the top and bottom panels as shown below.

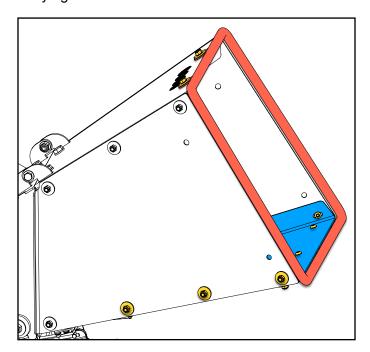


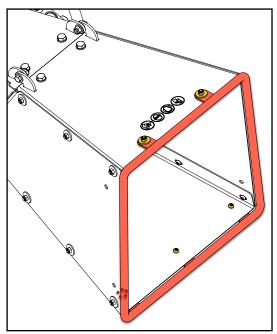




With the edge bar in place, assemble the panels to the edge bar. Use a hex key for the button head screws and a socket/wrench for the lock nuts. Install the remaining eleven (11) M8 X 18 mm button head screws, M8 lock nuts, and M8 X 30 mm fender washers as shown below to secure the panels and edge bar in place.

Fully tighten *all* the infeed chute screws.







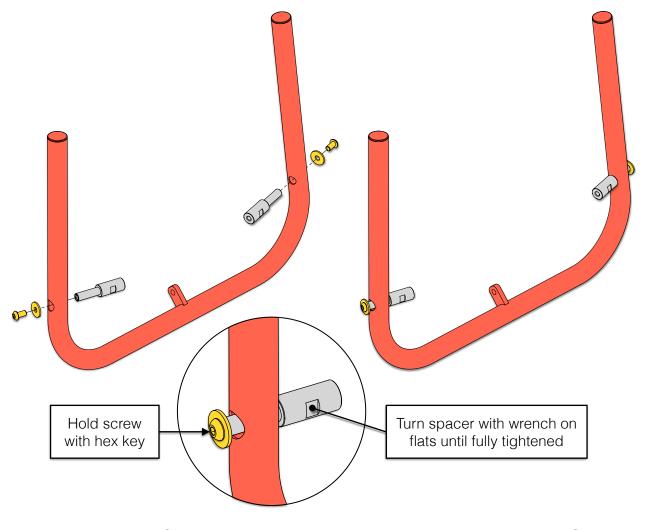
D. CONTROL ARM

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

4x	M10 X 20 mm Button Head Screw with Threadlocker	2x	Control Arm Spacer	
4x	M10 X 30 mm Fender Washer	1x	Control Arm	

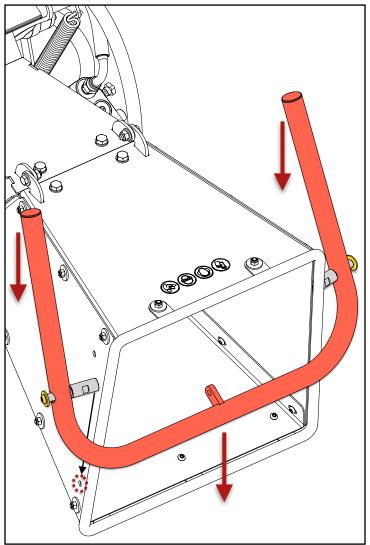
Insert the control arm spacers into the holes in the control arm and secure each with one (1) M10 X 20 button head screw and one (1) M10 X 30 mm fender washer

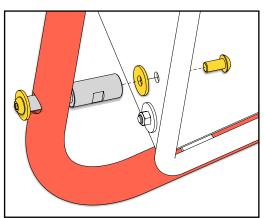
When tightening the hardware, hold button head screw still with a 6 mm hex key and turn the spacer with a ¾ in [19 mm] wrench using the flats milled into each side. Fully tighten all the hardware. The spacers will sit loose in the control arm once fully tightened—this is normal.



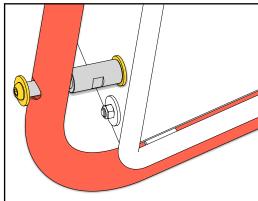


While holding the control arm by the spacers, slide it down over the top of the infeed chute until the spacers are aligned with the holes in the side panels (below left).





USE 1 M10 X 30 FENDER WASHER BETWEEN THE SPACER AND CHUTE



HOLD INNER SCREW WITH HEX KEY AND TURN SPACER WITH WRENCH ON FLATS UNTIL FULLY TIGHTENED

With the spacers aligned with the holes in the infeed chute side panels, place one (1) M10 X 30 mm fender washer between the spacer and side panel, and then secure it with one (1) M10 X 20 mm button head screw from inside the infeed chute. Repeat for the other side.

When tightening the two (2) inner button head screws, hold the button head screw inside the infeed chute still with a 6 mm hex key and turn the spacer with a ¾ in [19 mm] wrench. Fully tighten the hardware on both sides.

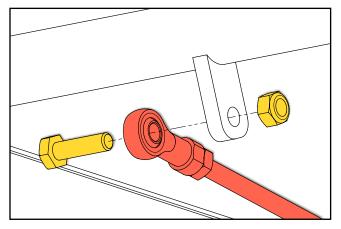


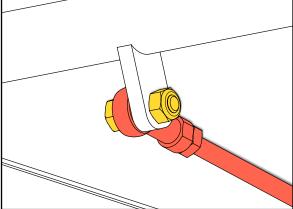
E. CONTROL ARM LINKAGE

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

1x	M10 X 35 mm Hex Bolt	1x	Control Arm Linkage Assembly	6 111
1x	M10 Lock Nut	1x	10 mm Clevis Pin	00
		1x	Hairpin Cotter Pin	

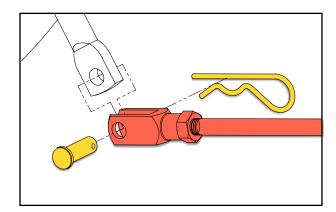
Fasten the rod end bearing to the red control arm with the M10 X 35 mm hex bolt and M10 lock nut as shown below.

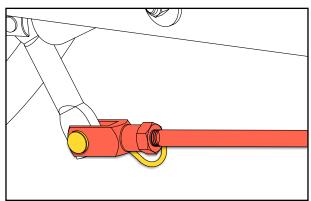




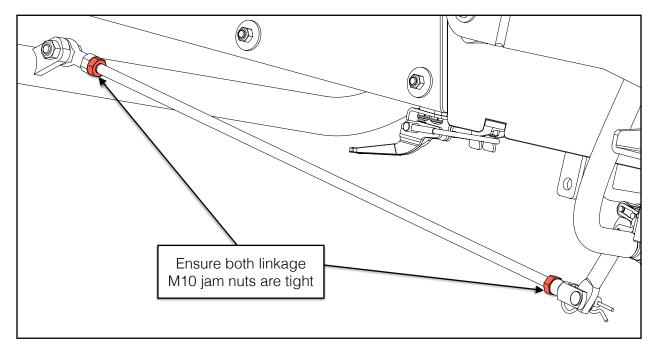


On the opposite end of the linkage, secure the clevis rod end to the hydraulic directional control valve actuator using the clevis pin and hairpin cotter pin.





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



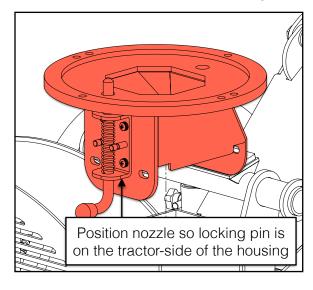


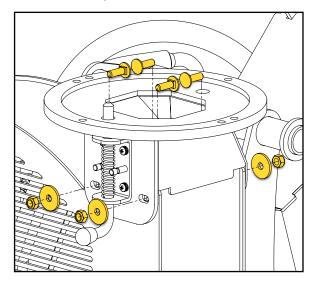
4. DISCHARGE CHUTE

The discharge chute comes partially assembled. With the components and hardware listed below, assemble the discharge chute to the upper flywheel housing.

4x	M8 X 25 mm Carriage Bolt	4x	M8 X 30 mm Fender Washer	
6x	M8 X 35 mm Hex Head Bolt	1x	Nozzle	
4x	M8 X 25 mm Hex Head Bolt	1x	Discharge Chute Assembly	
14x	M8 Lock Nut	2x	Retainer	
20x	M8 Flat Washer	2x	Handle with Grip	

Slide the nozzle over the upper flywheel housing exhaust. Secure it to the housing using the four (4) M8 X 25 mm carriage bolts, M8 fender washers, and M8 lock nuts. The carriage bolts are assembled from inside the housing, pointing outward. Fully tighten all the hardware.



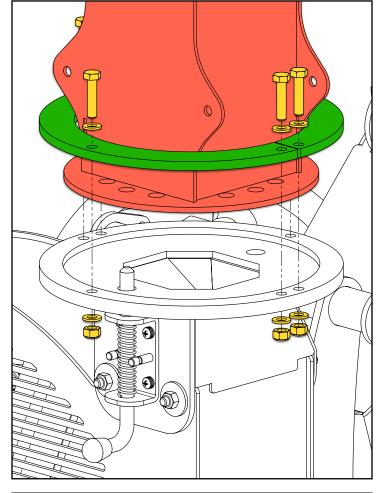




Set the discharge chute into the recess in the top of the nozzle.

Secure the chute to the nozzle using the two (2) retainers with six (6) M8 X 35 mm hex bolts, twelve (12) M8 flat washers, and six (6) M8 lock nuts.

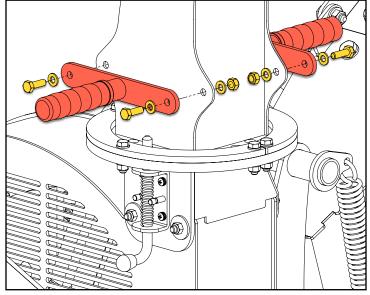
Fully tighten all the hardware.



Assemble the handles—one on each side of the discharge chute.

Secure each handle to the chute using two M8 X 25 mm hex bolts, four (4) M8 flat washers, and two (2) M8 lock nuts.

Fully tighten all the hardware.





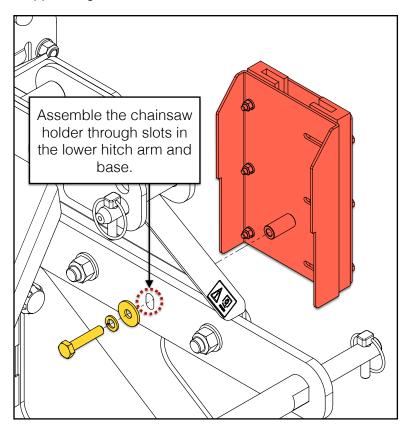
5. CHAINSAW HOLDER

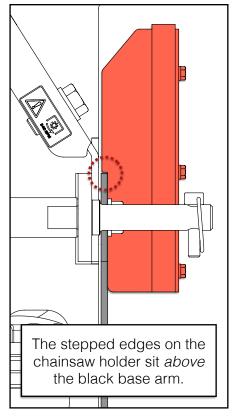
Mount the chainsaw holder assembly to the side of the chipper base using the hardware and components listed in the table below.

1x	M10 X 55 mm Hex Bolt	1x	M10 Split Lock Washer	
1x	M10 X 30 mm Fender Washer	1x	Chainsaw Holder Assembly	

The chainsaw holder can be mounted to either side of the base through the vertical slots in the lower hitch arm and base.

Assemble the holder to the base using one (1) M10 X 55 mm hex bolt, one (1) M10 X 30 mm fender washer, and one (1) M10 split lock washer through the slot as shown. Be sure the stepped edges on the chainsaw holder sit above the base arm. Fully tighten the hardware.







TRIMMING THE PTO SHAFT

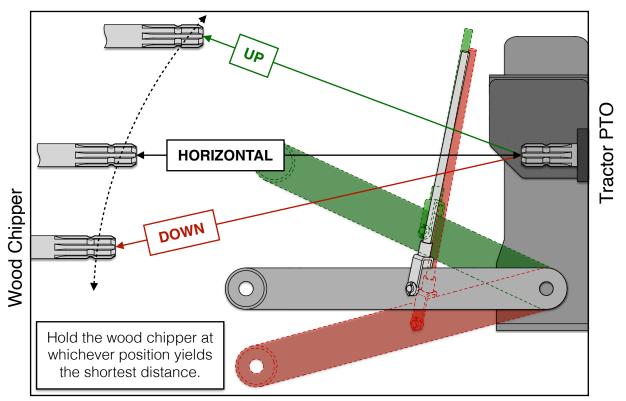
The PTO shaft may need to be trimmed depending on the tractor size and configuration. Follow the 6 steps below to ensure the PTO shaft is fitted correctly, and trimmed if necessary.

1. FIND THE SHORTEST DISTANCE

- 1. Attach the wood chipper to the tractor's 3-point hitch. Do *not* install the PTO shaft yet.
- 2. Measure the distance between the splined shafts on the tractor PTO and the wood chipper with the 3-point hitch in the following positions:
 - i. All the way Down
 - ii. In-Line / Horizontal
 - iii. All the way Up

Whichever position yields the *shortest* distance, *hold the wood chipper at that position for the next step*.

Note: if the wood chipper shaft cannot be positioned in-line or below the tractor PTO due to the size of the tractor relative to the wood chipper, take two (2) measurements instead: 1 at the lowest and 1 at the highest 3-point hitch position.





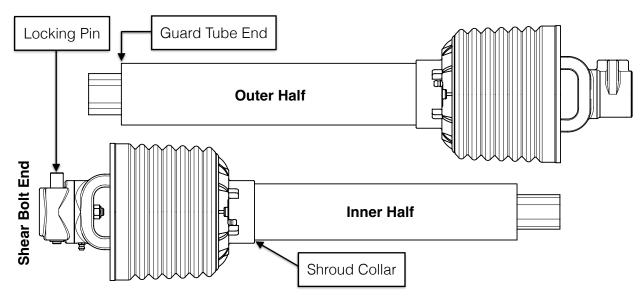
WARNING!

Remove the tractor's draw bar—*if equipped*—before installing any Woodland Mills implement (Wood Chipper or Stump Grinder).



2. SEPARATE PTO HALVES

Pull the PTO shaft apart until it is two separate halves: inner and outer.



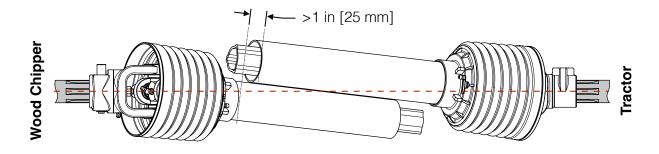
3. ATTACH THE PTO SHAFT

Attach the shear bolt end to the wood chipper and the outer half to the tractor as separate pieces.

4. DETERMINE IF TRIMMING IS REQUIRED

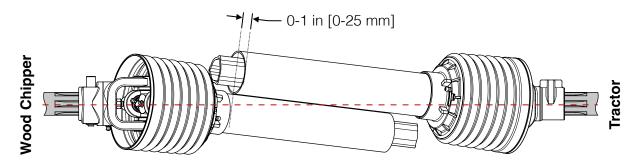
Hold the shafts parallel. Use tape or tie the shaft halves together with string if necessary to get proper measurements. Three possible scenarios can exist.

Scenario 1. If the distance between the shroud collar and the guard tube end is greater than 1 in [25 mm], the PTO shaft does not require trimming. Remove the PTO shaft from the tractor and wood chipper and proceed to Step 6.

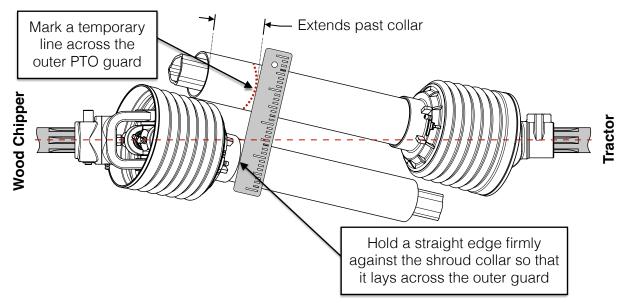




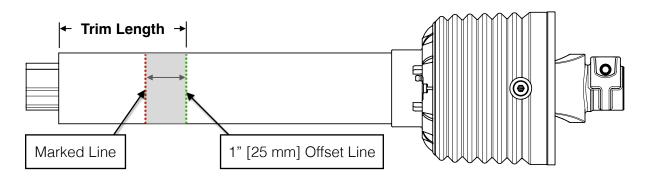
Scenario 2. If the distance between the shroud collar and the guard tube end is between 0 and 1 in [25 mm], the PTO shaft requires a 1 in [25 mm] trim. Proceed to Step 5 using 1 in [25 mm] as the "Trim Length".



Scenario 3. If the guard tube end extends past the shroud collar, hold a straight edge firmly against the shroud collar so that it lays across the outer guard. Mark the position on the outer guard.



Measure 1 in [25 mm] past the marked line to the guard tube end to determine the trim length. This is the "**Trim Length**" by which the PTO shaft needs to be trimmed. Proceed to Step 5.

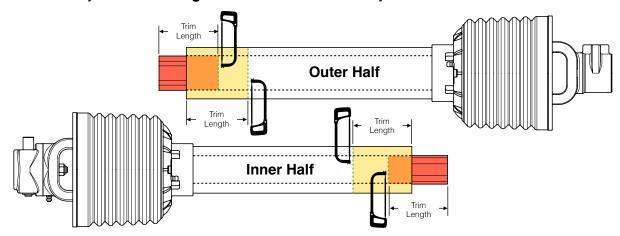


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5. TRIM THE PTO SHAFT

Remove both halves of the PTO shaft from the tractor and wood chipper. Trim **both** outer plastic guards and **both** inner triangular steel shafts by the "**Trim Length**". Trim the plastic guards first, taking care not to cut into the triangular shafts inside. Then trim **both** triangular steel shafts by the "**Trim Length**". File burrs as necessary.



6. REASSEMBLE THE PTO SHAFT

- 1. Slide the halves back together, ensuring they telescope in-and-out freely.
- 2. Slide the shear bolt end onto the wood chipper. Install the other end on the tractor.
- 3. Raise and lower the 3-point hitch, ensuring there is a 1 in [25 mm] minimum gap between the shroud collar and guard tube end throughout the entire lifting range.



OPERATION

1. PRE-START UP CHECKLIST

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

Model	Сар	Hydraulic Oil		
Model	Gallons (gal)	Litres (L)	Tryuraunc On	
WC46	4.5	17		
WC68	5	18.9		
WC88	5	18.9	ISO 32, ISO 46,	
TF46 PRO	3.2	12	AW 32, AW 46	
→ TF68 PRO	5	18.9		
TF810 PRO	5	18.9		

ii. Attach the wood chipper to your tractor and take the appropriate measurements to trim the PTO shaft. Refer to section *TRIMMING THE PTO SHAFT* 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. Check the gap between the bed plate and blades by using the Bed Plate Gap Tool (1/8 in [3 mm]). Refer to section **SETTING THE BED PLATE GAP** for detailed instructions.
- iv. The wood chipper has five (5) bearings fitted with Zerk fittings for greasing. The PTO shaft is equipped with seven (7) Zerk fittings. The PTO shaft and all bearings come pregreased and do not require greasing on initial start-up. Refer to the *GREASING* section for detailed maintenance instructions.
- v. Check the bolts on each of the four flywheel blades ensuring the torque is set to 40 ft•lb [54 N•m].



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 spring-loaded 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. **Push** the red control arm away from the operator <u>at the top of the arm</u> 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 valve that controls the wood chipper's infeed roller speed is located to the right of the infeed chute.

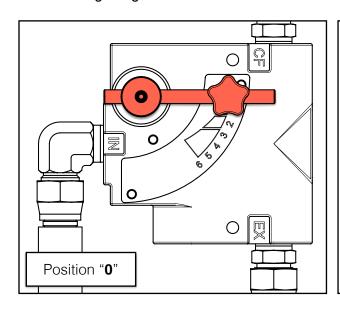
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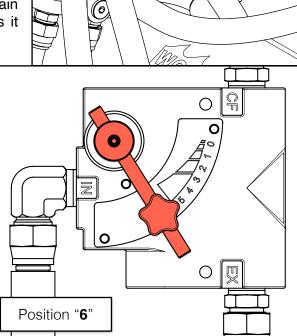
Rotating the valve arm as shown in the pictures below will increase or decrease the roller speed without load and will create a pulsating action once loaded with a branch.

The number "0" (left image below) represents no infeed roller rotation while "6" (right image below) represents full speed. To maximize productivity and performance, chipping at full infeed speed is recommended.

If the tractor is unable to keep up with the workload, rotating the valve arm throughout its range will create a pulsating action—dependent on branch size and workload—that will allow larger material to be chipped when horsepower is limited.

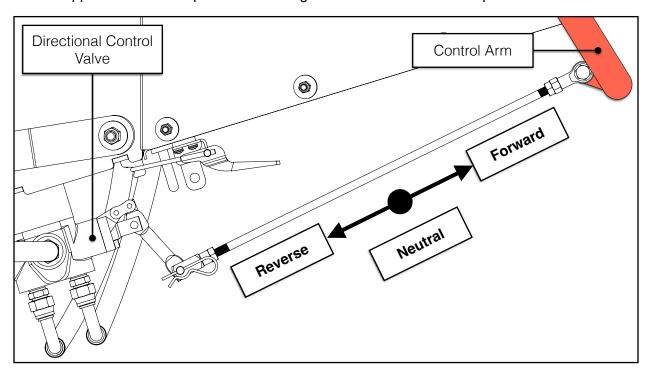
This pulsating action can also be created using the red control arm by switching the chipper into **neutral**—which allows the tractor and flywheels to regain speed—and then switching back into **forward** as it works through larger material.







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:



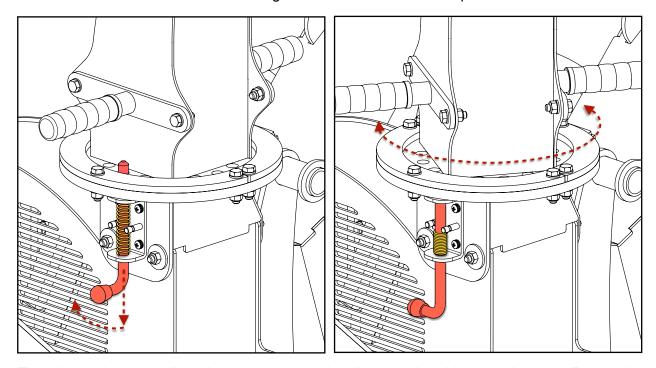
To change the speed of the infeed roller, place the red control arm in the *neutral* position. This stops the infeed roller from rotating. The speed control valve can now be moved to the desired position/speed. Reengage the infeed roller via the control arm.

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

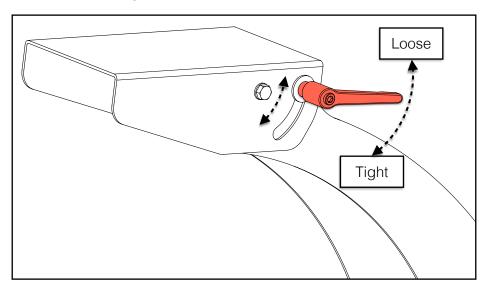


4. DISCHARGE CHUTE

To rotate the discharge chute, push down on the spring-loaded locking pin all the way 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 in [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.

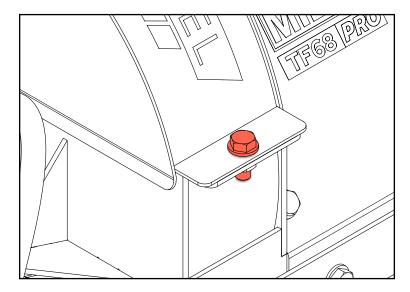
NOTE: The flywheels continue to spin for some time after the engine or tractor has been turned off. The flywheels have stopped spinning when noise and/or machine vibration are no longer detectable. The PTO shaft will also no longer be spinning.



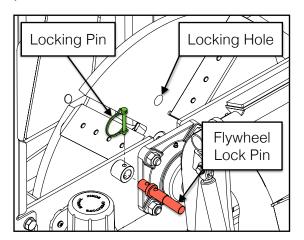
MAINTENANCE REPLACING BLADES

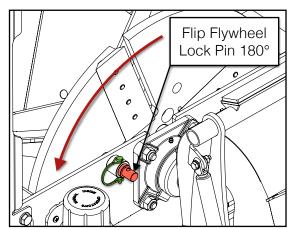
Follow these steps when replacing blades. The TF68 PRO wood chipper uses four (4) reversible hardened steel blades. Each blade is 8.62 X 2.72 X 5/16" [219 X 69 X 8 mm] in size.

- 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 primary 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 round 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 primary flywheel. Reinstall the smaller locking pin to the flywheel lock pin.

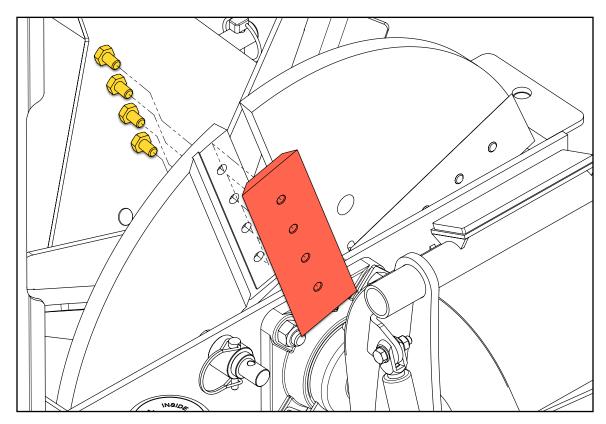




Upper flywheel housing removed from images for clarity.



4. Remove the four (4) M10 X 16 mm hex head bolts that fasten the blade to the primary flywheel using a 16 mm socket/wrench. 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.



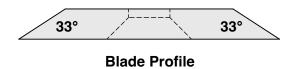
- 5. Repeat Steps 3 & 4 above to remove the remaining three blades. If this is the first time the blades have been removed following either the original wood chipper purchase or a recent blade sharpening, the blades can be reversed to utilize the other cutting edge. Or, the entire blade can be removed and sharpened or it can be replaced with a new blade. Torque the M10 X 16 mm hex head bolts to 40 ft•lb [54 N•m] when installing 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 TF68 PRO 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, *Replacing Blades*, to safely remove the blades from the primary 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 primary flywheel.

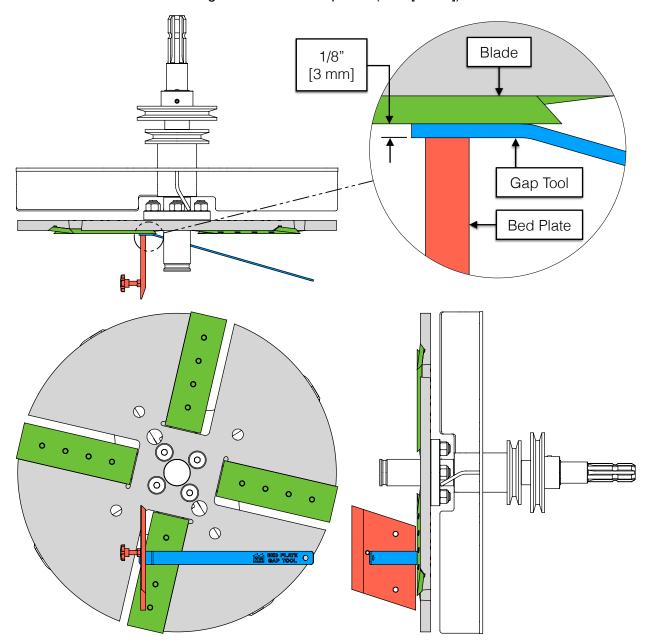


- 3. Reinstall the sharpened blades on the primary flywheel and torque the M10 X 16 mm hex head bolts to 40 ft•lb [54 N•m].
- Once the blades have been sharpened, proceed to the next section, <u>Setting the Bed</u>
 <u>Plate Gap</u>, to properly set the spacing between the newly sharpened blades and the bed plate.



SETTING THE BED PLATE GAP

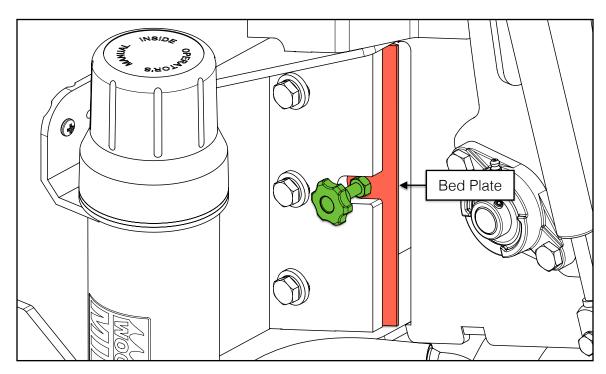
The bed plate (also known as the *anvil plate*) is located on the left side of the flywheel housing (while facing the infeed chute). For ideal chipping performance, the gap between the bed plate and blades should be set using the *Bed Plate Gap Tool* (1/8 in [3 mm]).



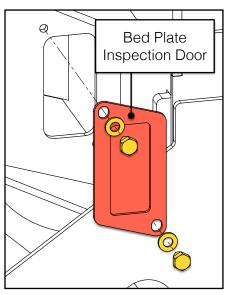
This graphic illustrates how the gap tool interfaces with the bed plate and blades in order to achieve uniform spacing. Some components removed for clarity.

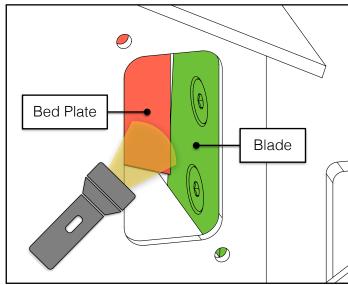
Follow the steps on the next page to set the gap correctly. Failure to set the proper gap can lead to poor chipping performance and/or clogging.





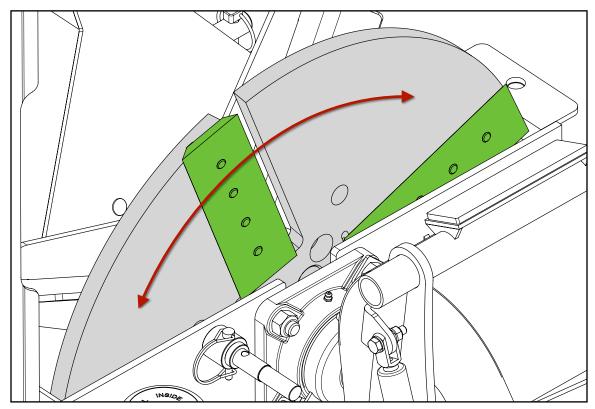
- 1. Disconnect the PTO shaft from the tractor for safety.
- 2. Open the upper flywheel housing using a 24 mm socket/wrench.
- 3. Remove the two (2) M8 X 10 mm hex bolts securing the bed plate inspection door located on the right-side of the lower infeed housing. With the bed plate inspection door removed, a clear view of the bed plate and its relationship to the blades can be seen. Use a flashlight for better viewing if necessary.



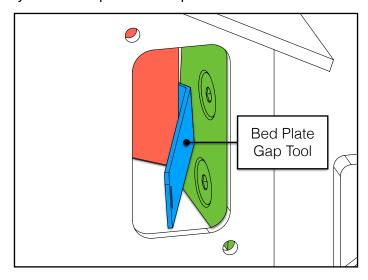




4. Rotate the primary flywheel so that the first blade is aligned with the bed plate. Take note of the gap between the two and continue to check the remaining blades relative to the bed plate—taking note of which blade is closest. Position this closest blade at the bed plate as this is the blade that will be used to set the proper gap with the provided tool.

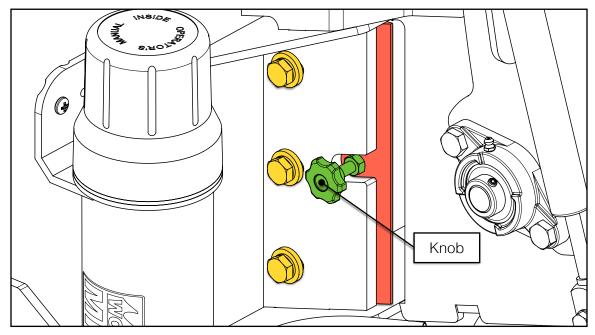


5. Place the bed plate gap tool between the bed plate and blade. Verify that the gap is consistent vertically from the top of the bed plate to the bottom.





6. Loosen the three (3) bed plate M10 X 25 mm hex bolts enough so that 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 touches the bed plate gap tool. Ensure the gap is uniform along the entire edge of the blade.

- 7. Snug the three (3) bed plate bolts once the gap has been set correctly for the blade closest to the bed plate.
- 8. Rotate the primary flywheel by hand again, checking the gap at each blade. The bed plate gap tool should still fit between the bed plate and blade along the entire length of the blade.
- 9. Once the bed plate gap is set, torque the three (3) M10 X 25 mm bed plate hex bolts to 40 ft•lb [54 N•m].
- 10. Close the upper flywheel housing and secure it to the lower housing by reinstalling the M16 X 40 mm bolt and flat washer.
- 11. Reinstall the bed plate inspection door and torque the two (2) M8 X 10 mm hex bolts to 225 in•lb [25 N•m].

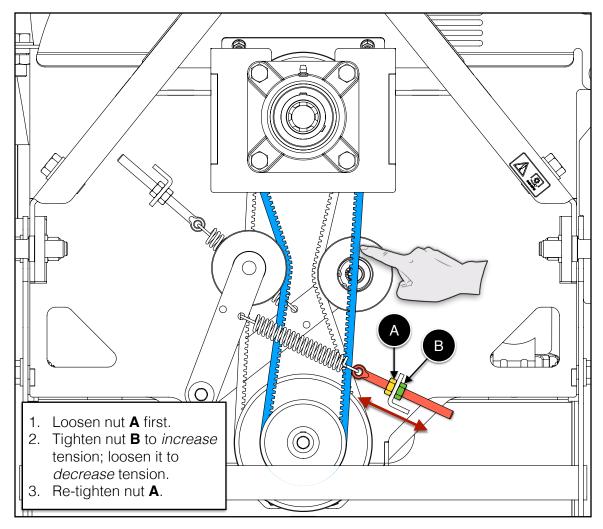


ADJUSTING THE BELTS' TENSION

HYDRAULIC PUMP BELT

The hydraulic pump belt is the belt *closest* to the tractor. Check the condition and tension of the belt after every 30 hours of operation. It 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 pump belt tension by pressing on it with your finger. There should not be any free slack in the belt. It should be under firm tension.
- 3. If the pump belt requires more tension, the *lower right-side* eyebolt can be adjusted by loosening and tightening the M10 hex nuts as shown below. This will stretch the spring and increase the tension until the belt is firm.



Adjusting Hydraulic Pump Belt Tension

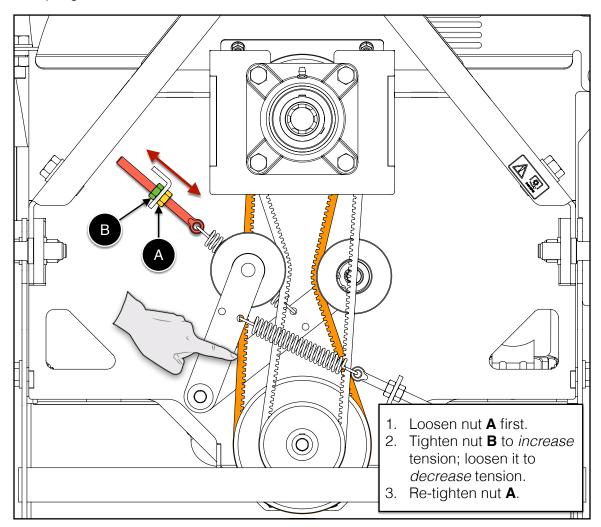
[Connecting rod removed from image for clarity]



SECONDARY FLYWHEEL BELT

The secondary flywheel belt is the belt *farthest* from the tractor. Check the condition and tension of the belt after every 30 hours of operation. It 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 secondary flywheel belt tension by pressing on it with a finger. There should not be any free slack in the belt. It should be under firm tension.
- 3. If the secondary flywheel belt requires more tension, the *upper* left-*side* eyebolt can be adjusted by loosening and tightening the M8 hex nuts as shown below. This will stretch the spring and increase the tension until the belt is firm.



Adjusting Secondary Flywheel Belt Tension

[Connecting rod and pump belt & tensioner removed from image for clarity]



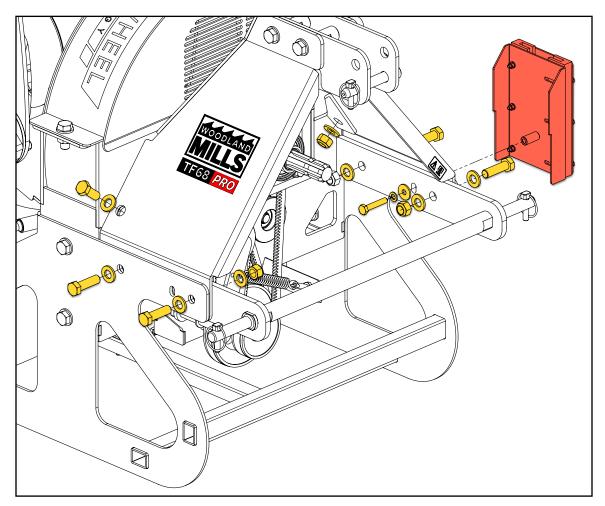
REPLACING THE BELTS

Check the condition and tension of both belts after every 30 hours of operation. If the infeed roller is not rotating—or rotating slowly—the hydraulic pump 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 BELT TENSION**). It is recommended *both* belts be replaced at the same time to reduce future maintenance.

- Hydraulic Pump Belt: **BX43**
- Secondary Flywheel Belt: BX45

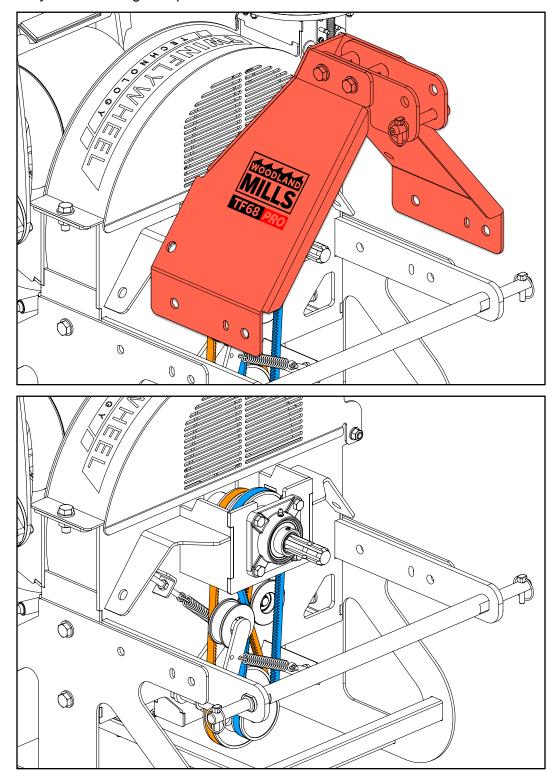
To replace the worn belts, follow the steps below:

- 1. If installed, disconnect the PTO shaft from the wood chipper for safety.
- 2. Remove the four (4) M16 X 55 mm hex bolts on the lower hitch arms, the two (2) M16 X 40 mm hex bolts on the belt guard, the chainsaw holder, and their respective washers and lock nuts.



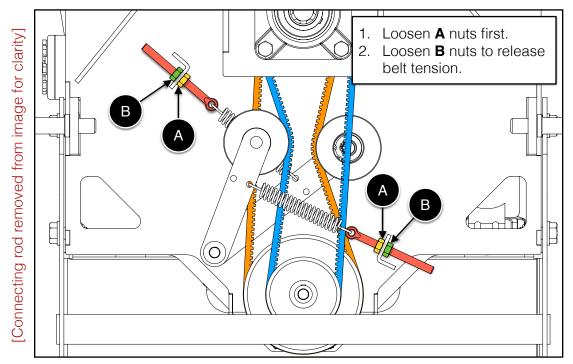


3. Leave the upper hitch attached to the belt guard. Pull the belt guard away from the lower flywheel housing to expose the belts and then set it aside.

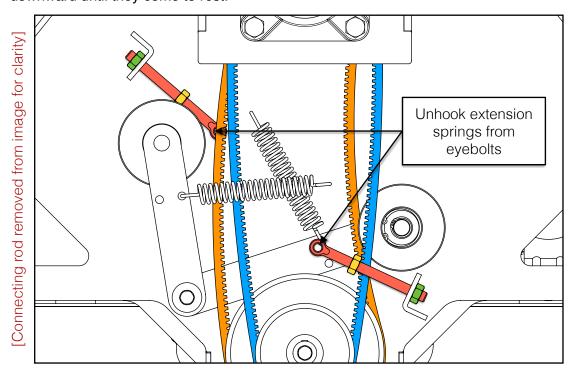




4. Loosen the two (2) jam nuts on both of the belt tensioner eyebolts until the tension on the extension springs is completely released.

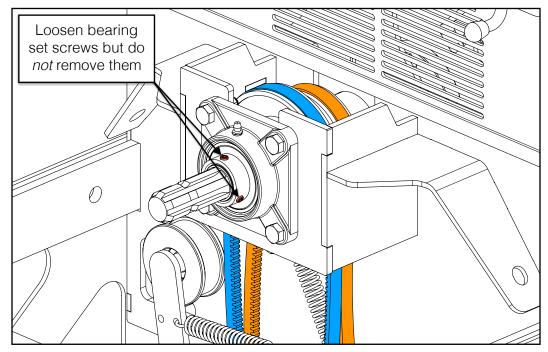


5. Unhook the extension springs from the eyebolts and allow the belt tension arms to rotate downward until they come to rest.

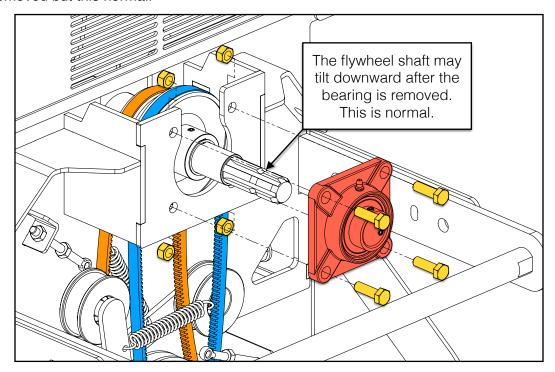




6. Loosen—do not remove—the two (2) M8 set screws on the rear bearing's collar.



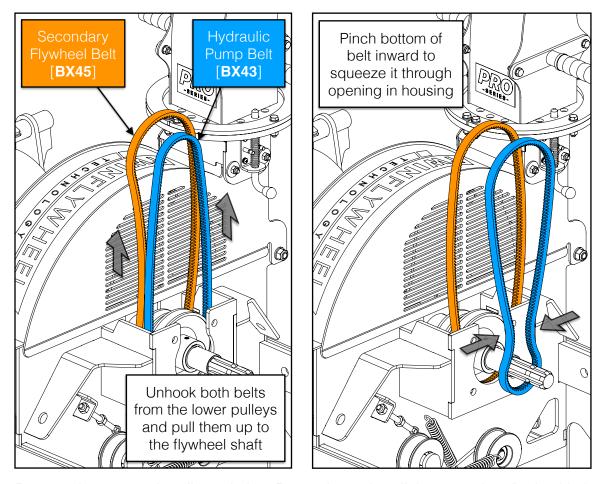
7. Remove the four (4) M12 X 40 mm hex bolts and lock nuts used to mount the bearing and slide it off the flywheel shaft. The shaft may tilt downward once the bolts are removed but this normal.





8. Unhook both belts from the lower pulleys and pull them up to the flywheel shaft as shown *below-left*. Remove the hydraulic pump belt (front) first. Pinch the bottom of the belt inward and squeeze it through the opening between the flywheel shaft and housing as shown *below-right*. Then repeat the procedure to remove the secondary flywheel belt (rear).

Note: the shaft may have to be lifted up and supported by hand as each belt is removed.



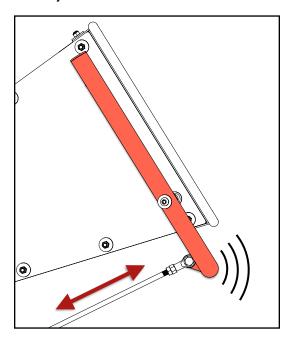
9. Reverse the steps to install new belts. Remember to install the secondary flywheel belt (rear) first before installing the hydraulic pump belt (front).

Note: When reinstalling the bearing, be sure to torque the four (4) M12 X 40 mm hex bolts and lock nuts to 65 ft·lb [88 N·m].

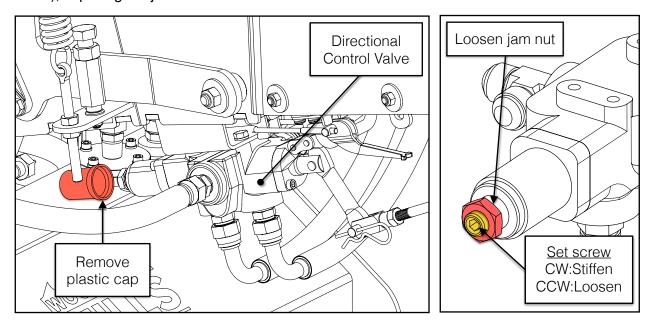


ADJUSTING THE CONTROL ARM

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 [½ 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.



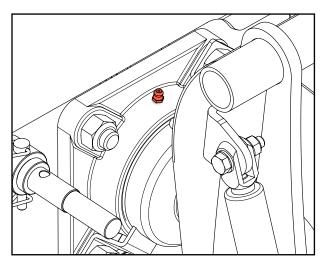
GREASING

BEARINGS & OUTPUT SHAFT

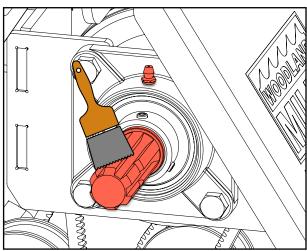
The wood chipper has five (5) grease points with Zerk fittings: two (2) flywheel shaft bearings, one (1) infeed roller bearing, and two (2) pump shaft bearings. Check each grease point prior to use and add grease as needed.

Also, periodically brush grease onto the wood chipper's output shaft for ease of PTO shaft assembly & removal, to prevent rust buildup, and to prevent the two shafts from seizing together.

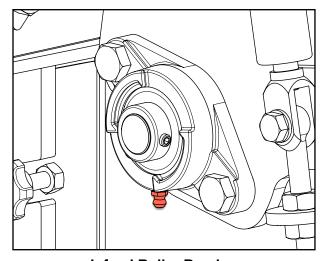
Warning: These 5 grease points come pre-greased from the factory. <u>Do not add grease</u> to the <u>Zerk fittings on a new wood chipper</u>. Over-greasing can damage the bearing seals.



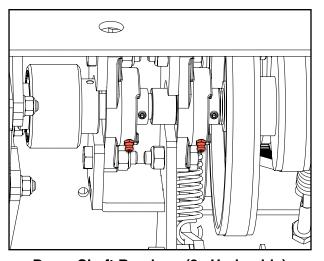
Front Flywheel Shaft Bearing



Rear Flywheel Shaft Bearing and Flywheel Shaft Spline



Infeed Roller Bearing

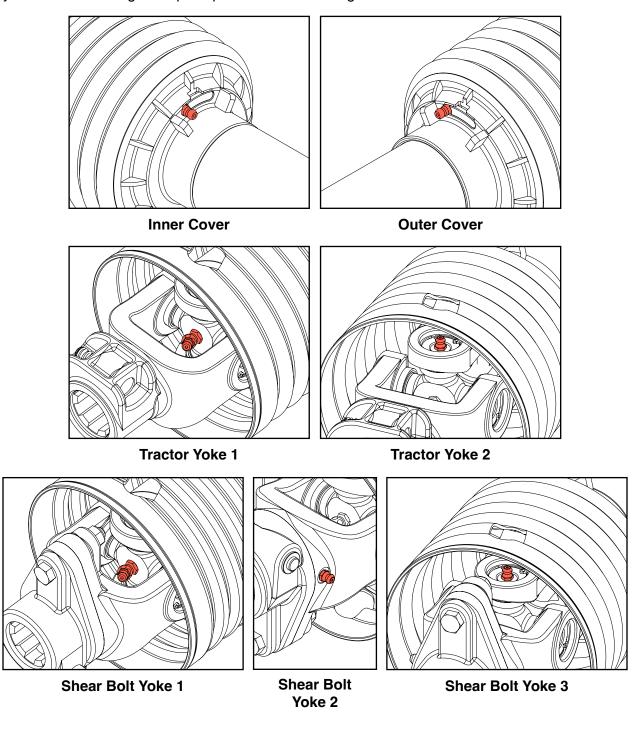


Pump Shaft Bearings (2x Underside)



PTO SHAFT

The PTO shaft has seven (7) grease points that are accessible from the outside: one (1) on each of the inner and outer guards, two (2) on the tractor yoke, and three (3) on the shear pin yoke. Check each grease point prior to use and add grease as needed.

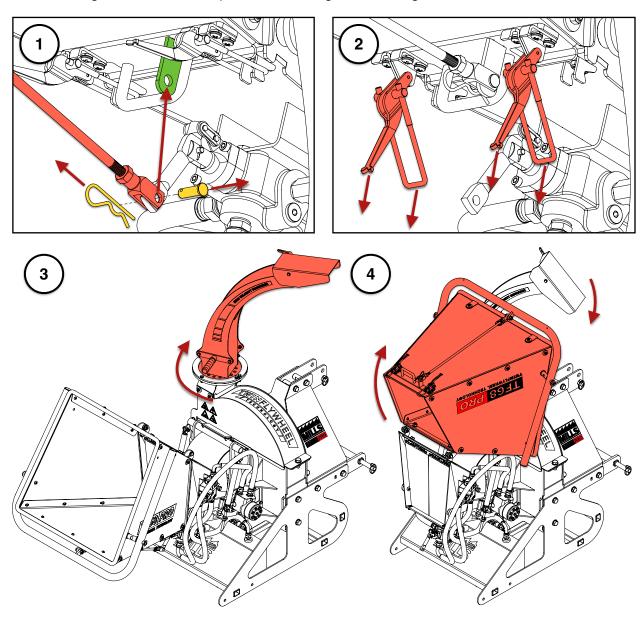




STORAGE

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.





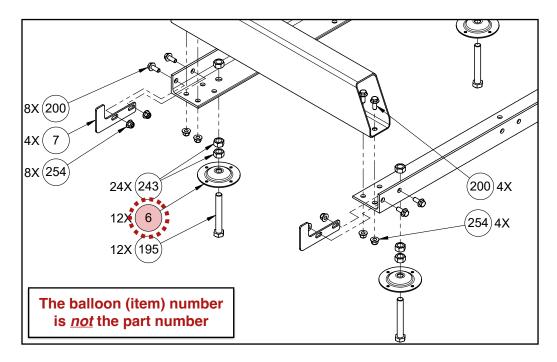
TROUBLESHOOTING

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 43. Adjust tractor RPMs to 540 at output. Reverse, sharpen, or replace blades. Refer to page 47 & page 49. Re-set bed plate gap. Refer to page 50.
Brush exiting discharge chute is stringy	Blades are dull. Brush is excessively sappy.	 Reverse, sharpen, or replace blades. Refer to page 47 <u>page 49</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 page 47 & page 49. Re-set bed plate gap. Refer to page 50. 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 page 54. Replace belt. Refer to page 56.
Excessive noise coming from flywheel shaft bearings	Bearings not sufficiently lubricated. Bearings are worn.	Grease bearings. Refer to <u>page 62</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 61.



REPLACEMENT PARTS ORDERING

When ordering replacement parts, first locate the balloon number(s) from the appropriate *exploded assembly view* as shown in the example below:



Next, turn to the *Parts List* section and locate the balloon number in the "Item" column:

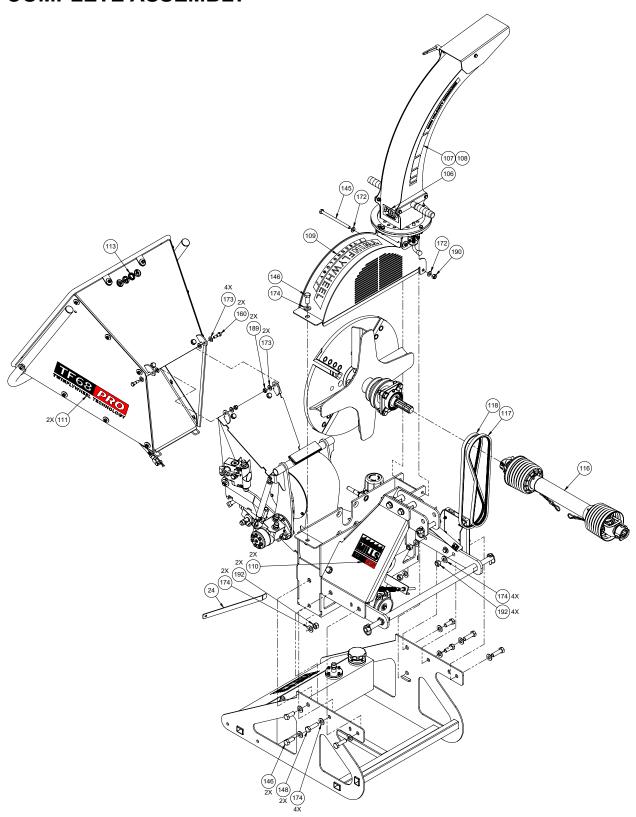
P	PARTS LIST					
		Quantity			Proceeding to a	
Ite	em	14 hp	9.5 hp	Part No.	Description	
	1	4	4	0001073	TRACK RAIL, 58.5 mm TALL	
	2	2	2	0001075	LOG BUNK, END	
[;	4	2	2	0001080	LOG BUNK, MID	
	4	1	1	0001084	LOG BUNK, CENTER	
1	•	2	2	0001072	REINFORCEMENT PLATE, 90 X 200 mm	
	6	-12	12	0001071	LEVELLING FOOT BASE	
	7	4	4	0001055	CARRIAGE STOP	
- 1	8	1	1	0001062	LOG CLAMP SHAFT AND BRACKET WELDMENT	

Record the part number (e.g. 0001071, HHB-MBM080FCJ, etc.) in the "Part No." column.

Contact Woodland Mills through the website or via phone/email. If possible, include the invoice or sales number from the purchased product so an associated account can be located. If the account has multiple addresses on file, please indicate to which address the replacement part(s) will be shipped.

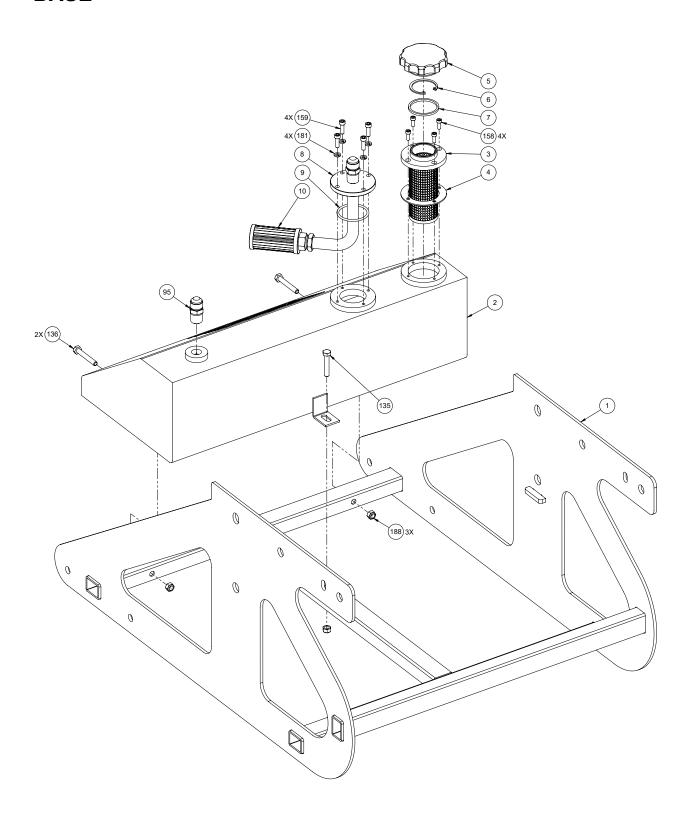


EXPLODED ASSEMBLY VIEWSCOMPLETE ASSEMBLY



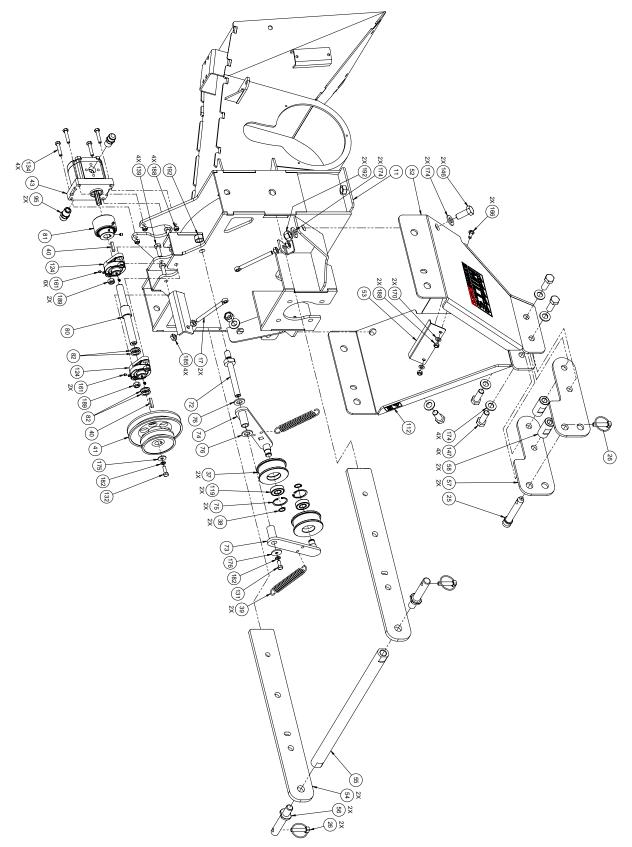


BASE



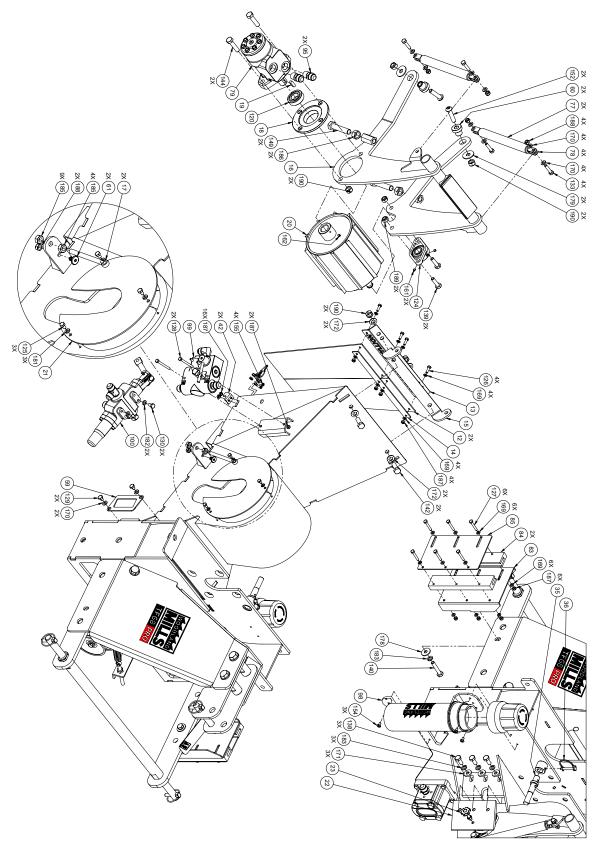


LOWER FLYWHEEL HOUSING BELT GUARD



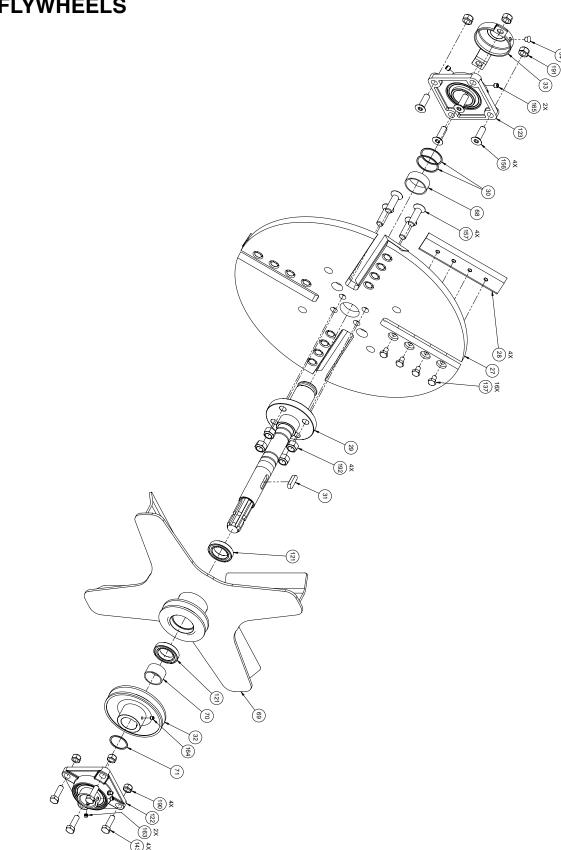


LOWER FLYWHEEL HOUSING



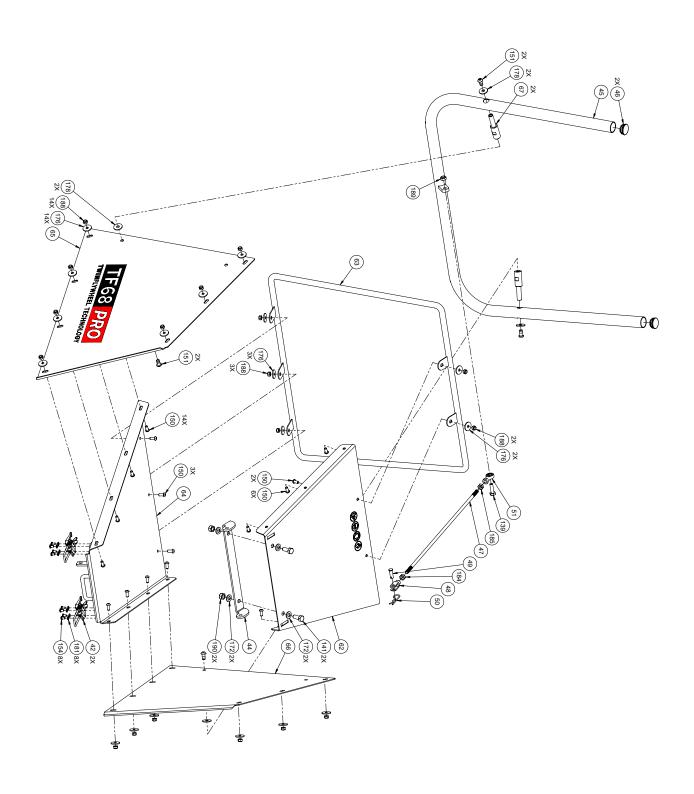


FLYWHEELS

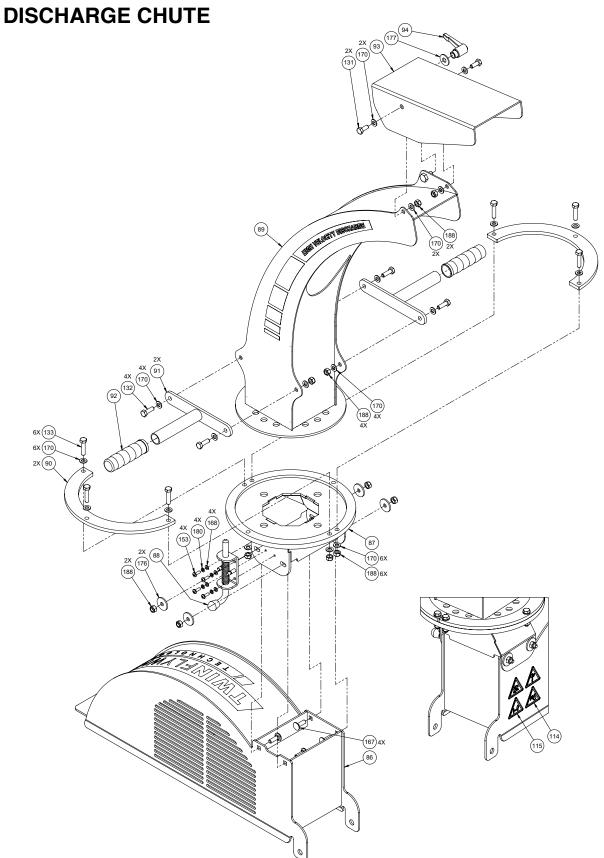




INFEED CHUTE

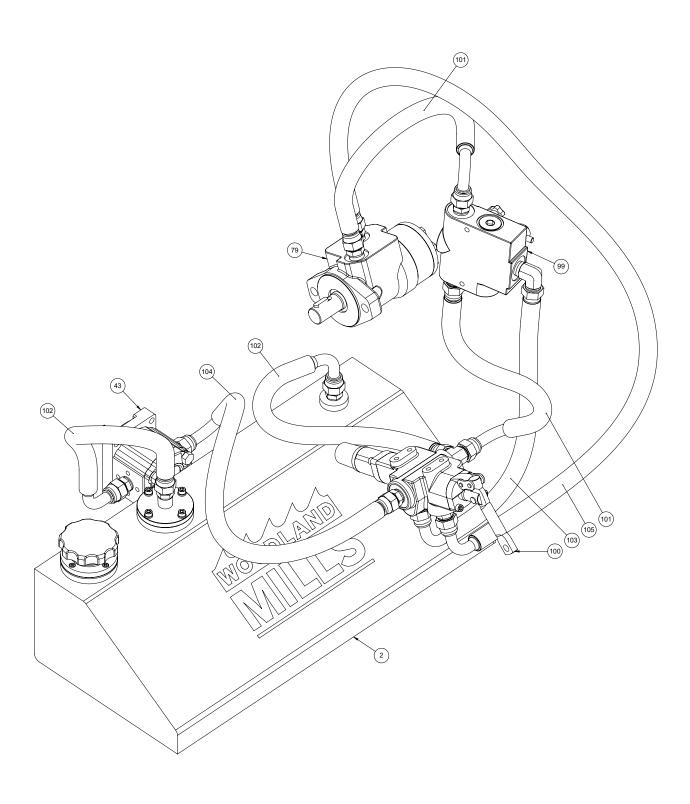






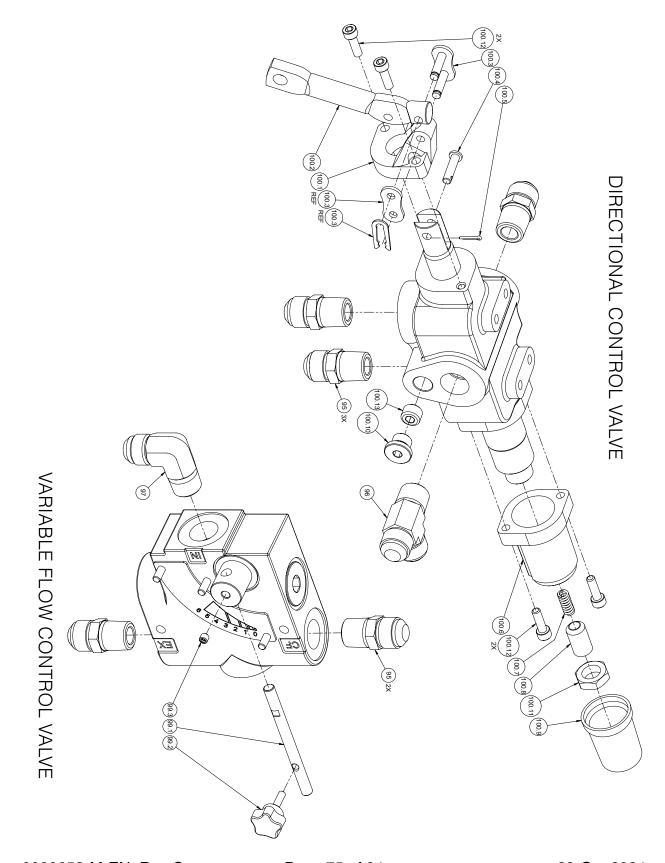


HYDRAULIC LINES



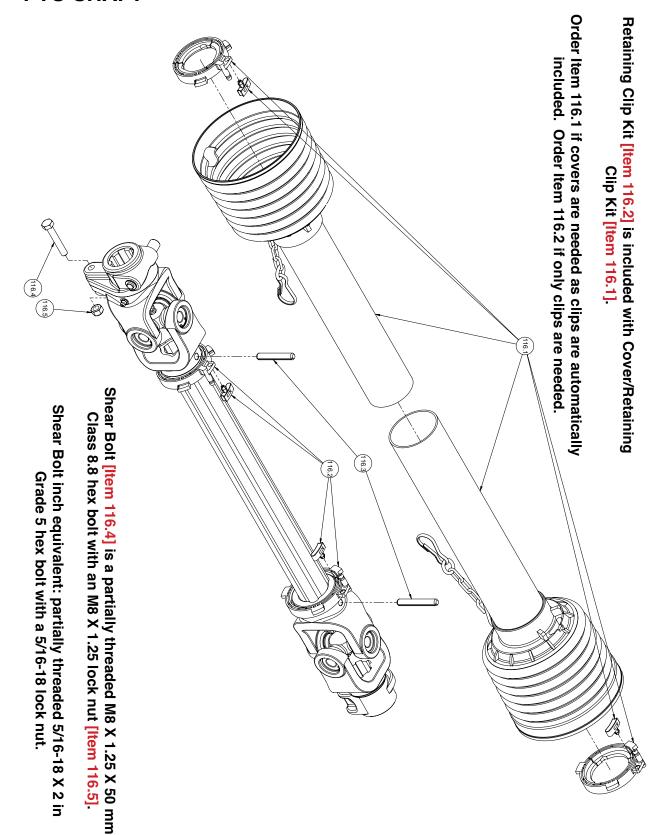


CONTROL VALVES





PTO SHAFT





PARTS LIST

1	Item	Qty	Part No.	Description			
1				<u> </u>			
1				HYDRAULIC TANK, 20 L [5,3 gal]			
4 1 0005187 GASKET, OIL SCREEN, 55 mm ID 5 1 0005183 OIL SCREEN CAP, 85 mm DIA, M48 X 2 THD 6 1 0005185 RETAINING RING, INTERNAL, 46 mm BORE (48.5 mm GROOVE) 7 1 0005186 GASKET, OIL SCREEN CAP, 48 mm ID 8 1 0001164 HYDRAULIC TANK INTAKE LINE 9 1 0004841 O-RING, 50 mm ID / 57 mm OD, 3.5 mm THK 10 1 000152 HYDRAULIC INTAKE FILITER, 1/2 NPT 11 1 0001685 LOWER FLYWHEEL HOUSING 12 2 0001197 CURTAIN 13 1 0001198 CURTAIN BRACKET 14 1 0001195 CURTAIN BRACKET 15 1 0001208 INNEE HINGE, INFEED CHUTE 16 1 0001697 SWINGARM 17 4 0006059 EVEBOLT, DIN444, M10 X 1.5, 120 mm LG 18 1 0001179 HYDRAULIC MOTOR ADAPTER PLATE, 6205-2RS BEARING 19 1 0004846 PARALLEL KEY, 8 X 7 mm, 25				, , , , , ,			
5 1 0005183 OIL SCREEN CAP, 85 mm DIA, M48 X 2 THD 6 1 0005186 RETAINING RING, INTERNAL, 46 mm BDR (48.5 mm GROOVE) 7 1 0005186 GASKET, OIL SCREEN CAP, 48 mm ID 8 1 000164 HYDRAULC TANK INTAKE LINE 9 1 0004841 O-RING, 50 mm ID / 57 mm OD, 3.5 mm THK 10 1 0001752 HYDRAULC INTAKE FILTER, 1/2 NPT 11 1 0006858 LOWER FLYWHEEL HOUSING 12 2 0001197 CURTAIN 13 1 0001195 CURTAIN PLATE 14 1 0001195 CURTAIN PLATE 15 1 0001208 INNER HINGE, INFEED CHUTE 16 1 0001964 SWINGARM 17 4 0006059 EYEBOLT, DINA44, M10 X 1.5, 120 mm LG 18 1 0001179 HYDRAULIC MOTOR ADAPTER PLATE, 6205-2RS BEARING 19 1 0004846 PARALLEL KEY, 8 X 7 mm, 25 mm LG 20 1 0001165 INFEED ROLLER		$\overline{}$		· ·			
6 1 0005185 RETAINING RING, INTERNAL, 46 mm BORE (48.5 mm GROOVE) 7 1 0005186 GASKET, OIL SCREEN CAP, 48 mm ID 8 1 0001164 HYDRAULIC TANK INTAKE LINE 9 1 0004841 O-RING, 50 mm ID / 57 mm OD, 3.5 mm THK 10 1 0001752 HYDRAULIC INTAKE FILTER, 1/2 NPT 11 1 0006858 LOWER FLYWHEEL HOUSING 12 2 0001197 CURTAIN 13 1 0001196 CURTAIN BRACKET 14 1 0001195 CURTAIN BRACKET 15 1 0001208 INNER HINGE, INFEED CHUTE 16 1 0009647 SWINGARM 17 4 0006059 EYEBOLT, DIN444, M10 X 1.5, 120 mm LG 18 1 0001179 HYDRAULIC MOTOR ADAPTER PLATE, 6205-2RS BEARING 19 1 0004846 PARALLEL KEY, 8 X 7 mm, 25 mm LG 20 1 0001165 INFEED ROLLER COVER PLATE 21 1 0001201 INFEED ROLLER COVER PLATE				· ·			
7 1 0005186 GASKET, OIL SCREEN CAP, 48 mm ID 8 1 0001164 HYDRAULIC TANK INTRACE LINE 9 1 0004841 O-RING, 50 mm ID /57 mm D0, 3.5 mm THK 10 1 0001752 HYDRAULIC INTAKE FILTER, 1/2 NPT 11 1 0006888 LOWER FLYWHEEL HOUSING 12 2 0001197 CURTAIN BRACKET 14 1 0001196 CURTAIN BRACKET 14 1 0001208 INNER HINGE, INFEED CHUTE 15 1 0001208 INNER HINGE, INFEED CHUTE 16 1 00096847 SWINGARM 17 4 0006059 EYEBOLT, DIN444, M10 X 1.5, 120 mm LG 18 1 0001179 HYDRAULIC MOTOR ADAPTER PLATE, 6205-2RS BEARING 19 1 0004846 PARALLEL KEY, 8 X 7 mm, 25 mm LG 20 1 000165 INFEED ROLLER 21 1 0001201 INFEED ROLLER COVER PLATE 22 1 0001186 BED PLATE, 150 X 120 X 9.4 mm							
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9 1 0004841 O-RING, 50 mm ID / 57 mm OD, 3.5 mm THK 10 1 0001752 HYDRAULIC INTAKE FILTER, 1/2 NPT 11 1 0006858 LOWER FLYWHEEL HOUSING 12 2 00001197 CURTAIN 13 1 0001196 CURTAIN BRACKET 14 1 0001195 CURTAIN BRACKET 15 1 0001208 INNER HINGE, INFEED CHUTE 16 1 0009647 SWINGARM 17 4 0006059 EYEBOLT, DIN444, M10 X 1.5, 120 mm LG 18 1 0001179 HYDRAULIC MOTOR ADAPTER PLATE, 6205-2RS BEARING 19 1 0004846 PARALLEL KEY, 8 X 7 mm, 25 mm LG 20 1 0001165 INFEED ROLLER 21 1 0001201 INFEED ROLLER 22 1 0001165 BED PLATE, 150 X 120 X 9.4 mm 23 1 0001191 KNOB, MULTI-LOBE, 32 mm OD, M8 X 1.25, 30 mm LG, M8 WLD HEX NUT 24 1 0010411 BED PLATE GAP TOOL 25 1 0001166 HITCH PIN, UPPER, CAT 1, 3/4 in [19 mm] DIA, 3-1/2 in [90 mm] USEABLE LG 26 3 0004705 LINCH PIN, 10 mm DIA, 38 mm USABLE LG, 45 mm LG 27 1 0002174 PRIMARY FLYWHEEL 28 4 0002181 FLYWHEEL BLADE, 219 X 69 X 8 mm, TAPPED 29 1 0006861 FLYWHEEL BLADE, 219 X 69 X 8 mm, TAPPED 30 2 0001185 SPACER, 50, 6 ID X 56 OD X 1.5 mm LG 31 1 0001194 FLYWHEEL BLADE, 219 X 69 X 8 mm, TAPPED 31 1 0002193 V-BELT PULLEY, 40 mm SHAFT, 150 mm DIA, 60 DIA X 45.5 mm LG COLLAR 31 1 0001194 FLYWHEEL SHAFT COVER, UCF210 BEARING 31 1 0001796 FLYWHEEL SHAFT COVER, UCF210 BEARING 31 1 0001796 FLYWHEEL SHAFT COVER PLUG 32 1 0001796 FLYWHEEL SHAFT COVER PLUG 33 1 0001796 FLYWHEEL SHAFT COVER PLUG 34 1 0001796 FLYWHEEL SHAFT COVER PLUG 35 1 0001796 FLYWHEEL SHAFT COVER PLUG 36 1 0004728 LOCKING PIN, 2024 37 2 0001692 IDER PULLEY, 40 mm SHAFT, 150 mm DIA, 60 DIA X 45.5 mm LG COLLAR 38 1 0001796 FLYWHEEL SHAFT COVER PLUG 39 2 0001198 EXTENSION SPRING, HOUND, 1/4 in DIA, 1-3/8 in USABLE LG, 2 in LG 40 2 0004845 PARALLEL KEY, 6 X 6 mm, 32 mm LG 40 2 0004845 PARALLEL KEY, 6 X 6 mm, 32 mm LG 41 1 0002194 V-BELT PULLEY, DUAL, 20 mm SHAFT, 160/100 mm DIA 42 2 0004868 HYDRAULIC GEAR PUMP, 10 mL/r, SPLINED SHAFT 44 1 0001207 OUTER HINGE, INFEED CHUTE							
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12 2 0001197 CURTAIN 13 1 0001196 CURTAIN BRACKET 14 1 0001195 CURTAIN PLATE 15 1 0001208 INNER HINGE, INFEED CHUTE 16 1 0009647 SWINGARM 17 4 0006059 EYEBOLT, DIN444, M10 X 1.5, 120 mm LG 18 1 0001179 HYDRAULIC MOTOR ADAPTER PLATE, 6205-2RS BEARING 19 1 0004846 PARALLEL KEY, 8 X 7 mm, 25 mm LG 20 1 0001165 INFEED ROLLER 21 1 0001201 INFEED ROLLER 22 1 000186 BED PLATE, 150 X 120 X 9.4 mm 23 1 0001191 KNOB, MULTI-LOBE, 32 mm OD, M8 X 1.25, 30 mm LG, M8 WLD HEX NUT 24 1 0010411 BED PLATE GAP TOOL 25 1 0001156 HITCH PIN, UPPER, CAT 1, 3/4 in [19 mm] DIA, 3-1/2 in [90 mm] USEABLE LG 26 3 0004705 LINCH PIN, 10 mm DIA, 38 mm USABLE LG, 45 mm LG 27 1 0002174 PRIMAR				·			
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15							
16 1 0009647 SWINGARM 17 4 0006059 EYEBOLT, DIN444, M10 X 1.5, 120 mm LG 18 1 0001179 HYDRAULIC MOTOR ADAPTER PLATE, 6205-2RS BEARING 19 1 0004846 PARALLEL KEY, 8 X 7 mm, 25 mm LG 20 1 0001165 INFEED ROLLER 21 1 0001201 INFEED ROLLER COVER PLATE 22 1 0001186 BED PLATE, 150 X 120 X 9.4 mm 23 1 0001191 KNOB, MULTI-LOBE, 32 mm OD, M8 X 1.25, 30 mm LG, M8 WLD HEX NUT 24 1 0010411 BED PLATE GAP TOOL 25 1 0001156 HITCH PIN, UPPER, CAT 1, 3/4 in [19 mm] DIA, 3-1/2 in [90 mm] USEABLE LG 26 3 0004705 LINCH PIN, 10 mm DIA, 38 mm USABLE LG, 45 mm LG 27 1 0002174 PRIMARY FLYWHEEL 28 4 0002181 FLYWHEEL SHAFT 30 2 0001158 SPACER, 50.6 ID X 56 OD X 1.5 mm LG 31 1 0004500 PARALLEL KEY, 12 X 8 mm, 40 mm LG 32 <td< td=""><td></td><td></td><td></td><td></td></td<>							
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29 1 0006861 FLYWHEEL SHAFT 30 2 0001158 SPACER, 50.6 ID X 56 OD X 1.5 mm LG 31 1 0004850 PARALLEL KEY, 12 X 8 mm, 40 mm LG 32 1 0002193 V-BELT PULLEY, 40 mm SHAFT, 150 mm DIA, 60 DIA X 45.5 mm LG COLLAR 33 1 0001184 FLYWHEEL SHAFT COVER, UCF210 BEARING 34 1 0001795 FLYWHEEL SHAFT COVER PLUG 35 1 0001796 FLYWHEEL LOCKING PIN, 2024 36 1 0004728 LOCKING PIN, ROUND, 1/4 in DIA, 1-3/8 in USABLE LG, 2 in LG 37 2 0001692 IDLER PULLEY, SINGLE BEARING, 25 mm WD, 80 mm DIA 38 2 0004798 RETAINING RING, EXTERNAL, 17 mm SHAFT (16.2 mm GROOVE) 39 2 0001192 EXTENSION SPRING, HOOK ENDS, 21 mm OD, 3 mm DIA WIRE, 100 mm LG 40 2 0004845 PARALLEL KEY, 6 X 6 mm, 32 mm LG 41 1 0002194 V-BELT PULLEY, DUAL, 20 mm SHAFT, 160/100 mm DIA 42 2 0001304 LATCH-STYLE TOGGLE CLAMP 43 1 000486	27	1	0002174	PRIMARY FLYWHEEL			
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32 1 0002193 V-BELT PULLEY, 40 mm SHAFT, 150 mm DIA, 60 DIA X 45.5 mm LG COLLAR 33 1 0001184 FLYWHEEL SHAFT COVER, UCF210 BEARING 34 1 0001795 FLYWHEEL SHAFT COVER PLUG 35 1 0001796 FLYWHEEL LOCKING PIN, 2024 36 1 0004728 LOCKING PIN, ROUND, 1/4 in DIA, 1-3/8 in USABLE LG, 2 in LG 37 2 0001692 IDLER PULLEY, SINGLE BEARING, 25 mm WD, 80 mm DIA 38 2 0004798 RETAINING RING, EXTERNAL, 17 mm SHAFT (16.2 mm GROOVE) 39 2 0001192 EXTENSION SPRING, HOOK ENDS, 21 mm OD, 3 mm DIA WIRE, 100 mm LG 40 2 0004845 PARALLEL KEY, 6 X 6 mm, 32 mm LG 41 1 0002194 V-BELT PULLEY, DUAL, 20 mm SHAFT, 160/100 mm DIA 42 2 0001304 LATCH-STYLE TOGGLE CLAMP 43 1 0004868 HYDRAULIC GEAR PUMP, 10 mL/r, SPLINED SHAFT 44 1 0001207 OUTER HINGE, INFEED CHUTE	30	2	0001158	SPACER, 50.6 ID X 56 OD X 1.5 mm LG			
33 1 0001184 FLYWHEEL SHAFT COVER, UCF210 BEARING 34 1 0001795 FLYWHEEL SHAFT COVER PLUG 35 1 0001796 FLYWHEEL LOCKING PIN, 2024 36 1 0004728 LOCKING PIN, ROUND, 1/4 in DIA, 1-3/8 in USABLE LG, 2 in LG 37 2 0001692 IDLER PULLEY, SINGLE BEARING, 25 mm WD, 80 mm DIA 38 2 0004798 RETAINING RING, EXTERNAL, 17 mm SHAFT (16.2 mm GROOVE) 39 2 0001192 EXTENSION SPRING, HOOK ENDS, 21 mm OD, 3 mm DIA WIRE, 100 mm LG 40 2 0004845 PARALLEL KEY, 6 X 6 mm, 32 mm LG 41 1 0002194 V-BELT PULLEY, DUAL, 20 mm SHAFT, 160/100 mm DIA 42 2 0001304 LATCH-STYLE TOGGLE CLAMP 43 1 0004868 HYDRAULIC GEAR PUMP, 10 mL/r, SPLINED SHAFT 44 1 0001207 OUTER HINGE, INFEED CHUTE	31	1	0004850	PARALLEL KEY, 12 X 8 mm, 40 mm LG			
34 1 0001795 FLYWHEEL SHAFT COVER PLUG 35 1 0001796 FLYWHEEL LOCKING PIN, 2024 36 1 0004728 LOCKING PIN, ROUND, 1/4 in DIA, 1-3/8 in USABLE LG, 2 in LG 37 2 0001692 IDLER PULLEY, SINGLE BEARING, 25 mm WD, 80 mm DIA 38 2 0004798 RETAINING RING, EXTERNAL, 17 mm SHAFT (16.2 mm GROOVE) 39 2 0001192 EXTENSION SPRING, HOOK ENDS, 21 mm OD, 3 mm DIA WIRE, 100 mm LG 40 2 0004845 PARALLEL KEY, 6 X 6 mm, 32 mm LG 41 1 0002194 V-BELT PULLEY, DUAL, 20 mm SHAFT, 160/100 mm DIA 42 2 0001304 LATCH-STYLE TOGGLE CLAMP 43 1 0004868 HYDRAULIC GEAR PUMP, 10 mL/r, SPLINED SHAFT 44 1 0001207 OUTER HINGE, INFEED CHUTE	32	1	0002193	V-BELT PULLEY, 40 mm SHAFT, 150 mm DIA, 60 DIA X 45.5 mm LG COLLAR			
35 1 0001796 FLYWHEEL LOCKING PIN, 2024 36 1 0004728 LOCKING PIN, ROUND, 1/4 in DIA, 1-3/8 in USABLE LG, 2 in LG 37 2 0001692 IDLER PULLEY, SINGLE BEARING, 25 mm WD, 80 mm DIA 38 2 0004798 RETAINING RING, EXTERNAL, 17 mm SHAFT (16.2 mm GROOVE) 39 2 0001192 EXTENSION SPRING, HOOK ENDS, 21 mm OD, 3 mm DIA WIRE, 100 mm LG 40 2 0004845 PARALLEL KEY, 6 X 6 mm, 32 mm LG 41 1 0002194 V-BELT PULLEY, DUAL, 20 mm SHAFT, 160/100 mm DIA 42 2 0001304 LATCH-STYLE TOGGLE CLAMP 43 1 0004868 HYDRAULIC GEAR PUMP, 10 mL/r, SPLINED SHAFT 44 1 0001207 OUTER HINGE, INFEED CHUTE	33	1	0001184	FLYWHEEL SHAFT COVER, UCF210 BEARING			
36 1 0004728 LOCKING PIN, ROUND, 1/4 in DIA, 1-3/8 in USABLE LG, 2 in LG 37 2 0001692 IDLER PULLEY, SINGLE BEARING, 25 mm WD, 80 mm DIA 38 2 0004798 RETAINING RING, EXTERNAL, 17 mm SHAFT (16.2 mm GROOVE) 39 2 0001192 EXTENSION SPRING, HOOK ENDS, 21 mm OD, 3 mm DIA WIRE, 100 mm LG 40 2 0004845 PARALLEL KEY, 6 X 6 mm, 32 mm LG 41 1 0002194 V-BELT PULLEY, DUAL, 20 mm SHAFT, 160/100 mm DIA 42 2 0001304 LATCH-STYLE TOGGLE CLAMP 43 1 0004868 HYDRAULIC GEAR PUMP, 10 mL/r, SPLINED SHAFT 44 1 0001207 OUTER HINGE, INFEED CHUTE	34	1	0001795	FLYWHEEL SHAFT COVER PLUG			
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38 2 0004798 RETAINING RING, EXTERNAL, 17 mm SHAFT (16.2 mm GROOVE) 39 2 0001192 EXTENSION SPRING, HOOK ENDS, 21 mm OD, 3 mm DIA WIRE, 100 mm LG 40 2 0004845 PARALLEL KEY, 6 X 6 mm, 32 mm LG 41 1 0002194 V-BELT PULLEY, DUAL, 20 mm SHAFT, 160/100 mm DIA 42 2 0001304 LATCH-STYLE TOGGLE CLAMP 43 1 0004868 HYDRAULIC GEAR PUMP, 10 mL/r, SPLINED SHAFT 44 1 0001207 OUTER HINGE, INFEED CHUTE	36	1	0004728	LOCKING PIN, ROUND, 1/4 in DIA, 1-3/8 in USABLE LG, 2 in LG			
39 2 0001192 EXTENSION SPRING, HOOK ENDS, 21 mm OD, 3 mm DIA WIRE, 100 mm LG 40 2 0004845 PARALLEL KEY, 6 X 6 mm, 32 mm LG 41 1 0002194 V-BELT PULLEY, DUAL, 20 mm SHAFT, 160/100 mm DIA 42 2 0001304 LATCH-STYLE TOGGLE CLAMP 43 1 0004868 HYDRAULIC GEAR PUMP, 10 mL/r, SPLINED SHAFT 44 1 0001207 OUTER HINGE, INFEED CHUTE	37	2	0001692	IDLER PULLEY, SINGLE BEARING, 25 mm WD, 80 mm DIA			
40 2 0004845 PARALLEL KEY, 6 X 6 mm, 32 mm LG 41 1 0002194 V-BELT PULLEY, DUAL, 20 mm SHAFT, 160/100 mm DIA 42 2 0001304 LATCH-STYLE TOGGLE CLAMP 43 1 0004868 HYDRAULIC GEAR PUMP, 10 mL/r, SPLINED SHAFT 44 1 0001207 OUTER HINGE, INFEED CHUTE	38	2	0004798	RETAINING RING, EXTERNAL, 17 mm SHAFT (16.2 mm GROOVE)			
41 1 0002194 V-BELT PULLEY, DUAL, 20 mm SHAFT, 160/100 mm DIA 42 2 0001304 LATCH-STYLE TOGGLE CLAMP 43 1 0004868 HYDRAULIC GEAR PUMP, 10 mL/r, SPLINED SHAFT 44 1 0001207 OUTER HINGE, INFEED CHUTE	39	2	0001192	EXTENSION SPRING, HOOK ENDS, 21 mm OD, 3 mm DIA WIRE, 100 mm LG			
42 2 0001304 LATCH-STYLE TOGGLE CLAMP 43 1 0004868 HYDRAULIC GEAR PUMP, 10 mL/r, SPLINED SHAFT 44 1 0001207 OUTER HINGE, INFEED CHUTE	40	2	0004845	PARALLEL KEY, 6 X 6 mm, 32 mm LG			
43 1 0004868 HYDRAULIC GEAR PUMP, 10 mL/r, SPLINED SHAFT 44 1 0001207 OUTER HINGE, INFEED CHUTE	41	1	0002194	V-BELT PULLEY, DUAL, 20 mm SHAFT, 160/100 mm DIA			
44 1 0001207 OUTER HINGE, INFEED CHUTE	42	2	0001304	LATCH-STYLE TOGGLE CLAMP			
·	43	1	0004868	HYDRAULIC GEAR PUMP, 10 mL/r, SPLINED SHAFT			
45 1 0009646 CONTROL ARM	44	1	0001207	OUTER HINGE, INFEED CHUTE			
	45	1	0009646	CONTROL ARM			



Item	Qty	Part No.	Description		
46	2	0001781	PLASTIC END CAP, ROUND, 38 mm DIA		
47	1	0010287	LINKAGE ROD, CONTROL ARM, 620 mm LG		
48	1	0004834	CLEVIS ROD END, M10 X 1.5 THD, 10 mm ID, 10 mm JAW OPENING		
49	1	0004749	CLEVIS PIN, 10 mm DIA, 24 mm USABLE LG, 30 mm LG		
50	1	0004760	COTTER PIN, HAIRPIN, 10-16 mm CLEVIS, 3 mm WIRE DIA		
51	1	0004888	ROD END BEARING, 10 mm, M10 X 1.5 FEM THD		
52	1	0006862	BELT GUARD		
53	1	0010375	BELT GUARD LIP		
54	2	0006859	3-POINT HITCH LOWER ARM		
55	1	0006864	CONNECTING ROD		
56	2	0001738	HITCH PIN, LOWER, CAT 1, M20 X 2.5, 7/8 in [22 mm] DIA, 3 in [75 mm] USEABLE LG		
57	2	0007036	3-POINT HITCH UPPER ARM		
58	2	0009856	UPPER HITCH BUSHING		
59	1	0007106	INSPECTION WINDOW COVER		
60	2	0006493	SWINGARM PIVOT BUSHING, 10 mm SHOULDER		
61	2	0001733	STRIKE PLATE BOLT, 20 mm HEAD DIA, M8 X 1.25 THD		
62	1	0006914	INFEED CHUTE TOP PANEL		
63	1	0006913	ROUND EDGE BAR, INFEED CHUTE		
64	1	0006910	INFEED CHUTE BOTTOM PANEL		
65	1	0006912	INFEED CHUTE RIGHT SIDE PANEL		
66	1	0006911	INFEED CHUTE LEFT SIDE PANEL		
67	2	0008193	CONTROL ARM SPACER		
68	1	0002706	SPACER, 50.6 ID X 56 OD X 22 mm LG		
69	1	0002187	SECONDARY FLYWHEEL		
70	1	0002705	SPACER, 40.6 ID X 46 OD X 26.7 mm LG		
71	1	0001734	SPACER, 40.6 ID X 46 OD X 1.5 mm LG		
72	1	0005561	IDLER PIVOT PIN, 16 mm DIA, 111.5 mm LG, M16 X 2 THD		
73	1	0005562	BELT TENSIONER ARM, PUMP BELT		
74	1	0005563	BELT TENSIONER ARM, SECONDARY FLYWHEEL BELT		
75	2	0004816	RETAINING RING, INTERNAL, 40 mm BORE (42.5 mm GROOVE)		
76	2	0005560	SPACER, 17 ID X 32 OD X 3 mm LG		
77	2	0011001	GAS SPRING, PULLING, 500 N [112.4 lbf], 120 mm [4.72 in] STROKE, M8 X 1.25		
78	4	0009822	CLEVIS ROD END, M8 X 1.25 THD, 10 mm ID, 9 mm JAW OPENING		
79	1	0004862	HYDRAULIC MOTOR, CW, 240 cc [14.6 in3/rev], 2-HOLE 1/2 in BSP.F OFFSET PORTS, 25 mm SFT		
80	1	0002184	PUMP SHAFT		
81	1	0002185	FLEXIBLE SHAFT COUPLING, 20 mm SHAFT TO 12 mm SPLINED SHAFT		
82	4	0002703	SPACER, 20 ID X 28 OD X 1.5 mm LG		
83	1	0006813	CHAINSAW HOLDER BRACKET		
84	2	0002361	CHAINSAW HOLDER NYLON GUIDE		
85	1	0002363	CHAINSAW HOLDER CLAMPING PLATE		
86	1	0006707	UPPER FLYWHEEL HOUSING		
87	1	0003136	DISCHARGE CHUTE NOZZLE, 281.5 mm DIA		
88	1	0001172	DISCHARGE CHUTE LOCK PIN ASSEMBLY, 12 mm DIA		
89	1	0009210	DISCHARGE CHUTE		
90	2	0009211	DISCHARGE CHUTE RETAINER PLATE, 281.5 mm DIA, BLACK		
91	2	0009212	DISCHARGE CHUTE ROTATION HANDLE, 170 mm C-C, BLACK		
92	2	0001030	HANDLE GRIP, GROOVED, 26 mm ID, 108 mm LG		



Item	Qty	Part No.	Description			
93	1	0009213	DISCHARGE CHUTE DEFLECTOR			
94	1	0001786	HANDLE, ADJUSTABLE POS, 78 X 54 mm, M10 X 1.5 FEM THD			
95	10	0005124	FITTING, ADAPTER, 1/2 in NPT MALE TO 7/8-14 UNF MALE			
96	1	0004911	FITTING, TEE, 1/2 NPT TO 7/8-14 (2X)			
97	1	0005115	FITTING, ELBOW, 90°, 1/2 NPT TO 7/8-14 THD			
98	1	0001655	MANUAL TUBE			
99	1	0004875	VARIABLE FLOW CONTROL VALVE, 1/2 in NPT, 0-16 gal/min			
99.1	1	0007518	LEVER ARM, VARIABLE FLOW CONTROL VALVE			
99.2	1	0007519	KNOB, MULTI-LOBE, 25 mm OD, M6 X 1, 20 mm LG			
99.3	1	CPS-MBE051GR	SET SCREW, CUP POINT, GR 45H, M6 X 1, 6 mm LG			
100	1	0004872	DIRECTIONAL CONTROL VALVE, 1/2 NPT			
100.1	1	0005487	ACTUATOR MOUNT, DIRECTIONAL CONTROL VALVE			
100.2	1	0005486	ACTUATOR, 82 mm LG, DIRECTIONAL CONTROL VALVE			
100.3	1	0005477	MASTER LINK, NO. 60 CHAIN			
100.4	1	0005482	CLEVIS PIN, 6 mm DIA, 20 mm USABLE LG, 25 mm LG			
100.5	1	0005483	COTTER PIN, 2 mm DIA, 10 mm LG			
100.6	1	0005494	REAR COVER, DIRECTIONAL CONTROL VALVE			
100.7	1	0005481	COMPRESSION SPRING, CLOSED GROUND ENDS, 8 mm OD, 1.5 mm DIA WIRE, 23 mm LG			
100.8	1	0005489	ADJUSTMENT SCREW, M14 X 1.5, 25 mm LG, DIRECTIONAL CONTROL VALVE			
100.9	1	0005488	CAP, DIRECTIONAL CONTROL VALVE			
100.10	1	0007182	PRESSURE RELEASE PLUG, DIRECTIONAL CONTROL VALVE			
100.11	1	THN-MBYCC	HEX NUT, THIN, CLS 4, M14 X 1.5			
100.12	4	SHC-MBE075FCP	SHCS, CLS 12.9, M6 X 1, 20 mm LG, FULL			
100.13	1	FTS-MBY059GR	SET SCREW, FLAT TIP, GR 45H, M14 X 1.5, 10 mm LG			
101	2	0003297	HYDRAULIC LINE ASSEMBLY, STR AND ELB FITTINGS, 350 mm LG			
102	2	0003298	HYDRAULIC LINE ASSEMBLY, STR AND ELB FITTINGS, 500 mm LG			
103	1	0003300	HYDRAULIC LINE ASSEMBLY, STR AND ELB FITTINGS, 600 mm LG			
104	1	0003301	HYDRAULIC LINE ASSEMBLY, STR AND ELB FITTINGS, 800 mm LG			
105	1	0003303	HYDRAULIC LINE ASSEMBLY, STR AND ELB FITTINGS, 1450 mm LG			
106	1	0008937	LABEL, PRO SERIES, 100 X 56 mm			
107	1	0008939	LABEL, HIGH VELOCITY DISCHARGE			
108	1	0008941	LABEL, HIGH VELOCITY DISCHARGE [REVERSE]			
109	1	0008938	LABEL, TWIN FLYWHEEL TECHNOLOGY			
110	2	0009644	LABEL, TF68 PRO W/ WOODLAND MILLS LOGO			
111	2	0009645	LABEL, TF68 PRO TWIN FLYWHEEL TECHNOLOGY			
112	1	0010603	LABEL, PTO 540 RPM WARNING LABEL			
113	1	0010920	LABEL, CHIPPER MANDATORY SYMBOLS			
114	1	0010921	LABEL, CHIPPER INFEED WARNING SYMBOLS			
115	1	0010922	LABEL, CHIPPER DISCHARGE WARNING SYMBOLS			
116	1	0010500	PTO SHAFT, SHEAR PIN, 4S-SERIES			
116.1	1	0010540	GUARD KIT, PTO SHEAR BOLT, 4S-SERIES			
116.2	1	0010541	GUARD BEARING KIT, PTO SHEAR BOLT, 4S-SERIES			
116.3	1	0010542	TRIANGULAR YOKE PIN KIT, PTO SHEAR BOLT, 4S-SERIES			
116.4	1	HHB-MBJ105PCJ	HEX HEAD BOLT, CLS 8.8, M8 X 1.25, 50 mm LG, 22 mm LG THD			
116.5	1	HLN-MBJCH	LOCK NUT, CLS 8, M8 X 1.25			
117	1	BX43	V-BELT, COGGED, BX43			
118	1	BX45	V-BELT, COGGED, BX45			



Itom	Qty	Dort No.	Description		
Item 119	2	Part No. 6203-2RS	BALL BEARING, SEALED, 17 mm SFT, 40 mm HSG, 12 mm WD		
120	1	6205-2RS	BALL BEARING, SEALED, 25 mm SFT, 52 mm HSG, 15 mm WD		
121	2	6908-2RS	BALL BEARING, SEALED, 40 mm SFT, 62 mm HSG, 12 mm WD		
122	1	UCF208	FLANGE BEARING, SQ, 4-BOLT, 40 mm SFT, 102 mm C-C		
123	1	UCF210	FLANGE BEARING, SQ, 4-BOLT, 50 mm SFT, 111 mm C-C		
124	3	UCFL204	FLANGE BEARING, OVAL, 2-BOLT, 20 mm SFT, 90 mm C-C		
125	3	HHB-MBE059FCJ	HEX HEAD BOLT, CLS 8.8, M6 X 1, 10 mm LG, FULL		
126	4	HHB-MBE075FCJ	HEX HEAD BOLT, CLS 8.8, M6 X 1, 20 mm LG, FULL		
127	6	HHB-MBE095FCJ	HEX HEAD BOLT, CLS 8.8, M6 X 1, 40 mm LG, FULL		
128	2	HHB-MBE115PCJ	HEX HEAD BOLT, CLS 8.8, M6 X 1, 60 mm LG, 18 mm LG THD		
129	2	HHB-MBJ059FCJ	HEX HEAD BOLT, CLS 8.8, M8 X 1.25, 10 mm LG, FULL		
130	2	HHB-MBJ071FCJ	HEX HEAD BOLT, CLS 8.8, M8 X 1.25, 16 mm LG, FULL		
131	3	HHB-MBJ075FCJ	HEX HEAD BOLT, CLS 8.8, M8 X 1.25, 20 mm LG, FULL		
132	5	HHB-MBJ080FCJ	HEX HEAD BOLT, CLS 8.8, M8 X 1.25, 25 mm LG, FULL		
133	10	HHB-MBJ090FCJ	HEX HEAD BOLT, CLS 8.8, M8 X 1.25, 35 mm LG, FULL		
134	4	HHB-MBJ095FCJ	HEX HEAD BOLT, CLS 8.8, M8 X 1.25, 40 mm LG, FULL		
	1	HHB-MBJ100FCJ	HEX HEAD BOLT, CLS 8.8, M8 X 1.25, 45 mm LG, FULL		
135	2		HEX HEAD BOLT, CLS 8.8, M8 X 1.25, 55 mm LG, 22 mm LG THD		
		HHB-MBJ110PCJ			
137	16	HHB-MBM071FCJ	HEX HEAD BOLT, CLS 8.8, M10 X 1.5, 16 mm LG, FULL		
138	3	HHB-MBM080FCJ	HEX HEAD BOLT, CLS 8.8, M10 X 1.5, 25 mm LG, FULL HEX HEAD BOLT, CLS 8.8, M10 X 1.5, 35 mm LG, FULL		
139	7	HHB-MBM090FCJ			
140	1	HHB-MBM110FCJ	HEX HEAD BOLT, CLS 8.8, M10 X 1.5, 55 mm LG, FULL		
141	2	HHB-MBR085FCJ	HEX HEAD BOLT, CLS 8.8, M12 X 1.75, 30 mm LG, FULL		
142	2	HHB-MBR090FCJ	HEX HEAD BOLT, CLS 8.8, M12 X 1.75, 35 mm LG, FULL		
143	4	HHB-MBR095FCJ	HEX HEAD BOLT, CLS 8.8, M12 X 1.75, 40 mm LG, FULL		
144	2	HHB-MBR105FCJ	HEX HEAD BOLT, CLS 8.8, M12 X 1.75, 50 mm LG, FULL		
145	1	HHB-MBR235PCJ	HEX HEAD BOLT, CLS 8.8, M12 X 1.75, 180 mm LG, 30 mm LG THD		
146	7	HHB-MCA095FCJ	HEX HEAD BOLT, CLS 8.8, M16 X 2, 40 mm LG, FULL		
147	4	HHB-MCA110FCJ	HEX HEAD BOLT, CLS 8.8, M16 X 2, 45 mm LG, FULL		
148	4	HHB-MCA110FCJ	HEX HEAD BOLT, CLS 8.8, M16 X 2, 55 mm LG, FULL		
149	2	HHB-MCA135PCJ	HEX HEAD BOLT, CLS 8.8, M16 X 2, 80 mm LG, 38 mm LG THD		
150	19	BHS-MBJ073FCM	BUTTON HEAD SCREW, CLS 10.9, M8 X 1.25, 18 mm LG, FULL		
151	4	BHS-MBM075FCT	BUTTON HEAD SCREW, CLS 10.9, TL, M10 X 1.5, 20 mm LG, FULL		
152	2	BHS-MBR105FCM	BUTTON HEAD SCREW, CLS 10.9, M12 X 1.75, 50 mm LG, FULL		
153	4	PPH-MBA067FCE	SCREW, PPH, CLS 4.8, M5 X 0.8, 14 mm LG, FULL		
154	11	PPH-MBE059FCE	SCREW, PPH, CLS 4.8, M6 X 1, 10 mm LG, FULL		
155	4	PPH-MBE071FCE	SCREW, PPH, CLS 4.8, M6 X 1, 16 mm LG, FULL		
156	4	HFH-MBW100FCM	SCREW, HFH, CLS 10.9, M14 X 2, 45 mm LG, FULL		
157	4	HFH-MCA110FCM	SCREW, HFH, CLS 10.9, M16 X 2, 55 mm LG, FULL		
158	4	SHC-MBA067FCP	SHCS, CLS 12.9, M5 X 0.8, 14 mm LG, FULL		
159	4	SHC-MBE075FCP	SHCS, CLS 12.9, M6 X 1, 20 mm LG, FULL		
160	2	HHS-MBM057069AJ	SHLDR SCREW, HEX HEAD, ALLOY, 11 X 15 mm LG SHLDR, M10 X 1.5 X 20 mm LG THD		
161	6	KCS-MBE051GR	SET SCREW, KNURLED CUP POINT, GR 45H, M6 X 1, 6 mm LG		
162	3	KCS-MBE055GR	SET SCREW, KNURLED CUP POINT, GR 45H, M6 X 1, 8 mm LG		
163	2	KCS-MBK055GR	SET SCREW, KNURLED CUP POINT, GR 45H, M8 X 1, 8 mm LG		
164	1	KCS-MBJ055GR	SET SCREW, KNURLED CUP POINT, GR 45H, M8 X 1.25, 8 mm LG		
165	2	KCS-MBN059GR	SET SCREW, KNURLED CUP POINT, GR 45H, M10 X 1.25, 10 mm LG		



Item	Qty	Part No.	Description
166	2	SNC-MBJ075FCJ	CARRIAGE BOLT, SQ NECK, CLS 8.8, M8 X 1.25, 20 mm LG, FULL
167	4	SNC-MBJ080FCJ	CARRIAGE BOLT, SQ NECK, CLS 8.8, M8 X 1.25, 25 mm LG, FULL
168	4	FTW-MBA000AJ	FLAT WASHER, M5
169	20	FTW-MBE000AJ	FLAT WASHER, M6
170	36	FTW-MBJ000AJ	FLAT WASHER, M8
171	3	FTW-MBM165AJ	FLAT WASHER, DIN7349, M10, 4 mm THK
172	10	FTW-MBR000AJ	FLAT WASHER, M12
173	6	FTW-MBR000NA	FLAT WASHER, M12, NYLON
174	23	FTW-MCA000AJ	FLAT WASHER, M16
175	1	FDW-MBJ073000AJ	FENDER WASHER, M8, 24 mm OD
176	24	FDW-MBJ079000AJ	FENDER WASHER, M8, 30 mm OD
177	1	FDW-MBM075000AJ	FENDER WASHER, M10, 26 mm OD
178	5	FDW-MBM079000AJ	FENDER WASHER, M10, 30 mm OD
179	2	FDW-MBR086000AJ	FENDER WASHER, M12, 37 mm OD
180	4	SLW-MBAAJ	SPLIT LOCK WASHER, M5
181	15	SLW-MBEAJ	SPLIT LOCK WASHER, M6
182	4	SLW-MBJAJ	SPLIT LOCK WASHER, M8
183	4	SLW-MBMAJ	SPLIT LOCK WASHER, M10
184	1	HXN-MBNCH	HEX NUT, CLS 8, M10 X 1.25
185	9	HXN-MBMCH	HEX NUT, CLS 8, M10 X 1.5
186	2	HXN-MCACH	HEX NUT, CLS 8, M16 X 2
187	16	HLN-MBECH	LOCK NUT, CLS 8, M6 X 1
188	50	HLN-MBJCH	LOCK NUT, CLS 8, M8 X 1.25
189	9	HLN-MBMCH	LOCK NUT, CLS 8, M10 X 1.5
190	13	HLN-MBRCH	LOCK NUT, CLS 8, M12 X 1.75
191	4	HLN-MBWCH	LOCK NUT, CLS 8, M14 X 2
192	13	HLN-MCACH	LOCK NUT, CLS 8, M16 X 2



NOTES		

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