TFG55 GAS WOOD CHIPPER

TWINFLYWHEEL TECHNOLOGY

OPERATOR'S MANUAL

0009159-M-EN: Rev B
Publication Date: 01-Oct-2024

WOODLAND MILLS

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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
	Electrical hazard 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****

WARNING!

Read and understand all instructions. Failure to follow all instructions listed below may result in electric shock, fire, and/or serious injury.

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.

WARNING!

Only operate the engine in a well ventilated area. Carbon Monoxide (CO) produced by the engine during use can kill. Do not use indoors, near windows, or in other sheltered areas.

NOTE: All Federal and State laws and any regulation having jurisdiction covering the safety requirements for use of the machine take precedence over the statements in this manual. Users of this machine must adhere to such regulations.

- 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 engine 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.

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 engine is running.** Always shut the engine off, remove the ignition key, and disconnect the spark plug cap prior to carrying out any of the aforementioned procedures.

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.

INTERNAL COMBUSTION ENGINE SAFETY

WARNING!

Internal combustion engines present special hazards during operation and fuelling. Read and follow the warning instructions in the engine Owner's Manual and the safety guidelines below. Failure to follow the warnings and safety standards could result in severe injury or death.

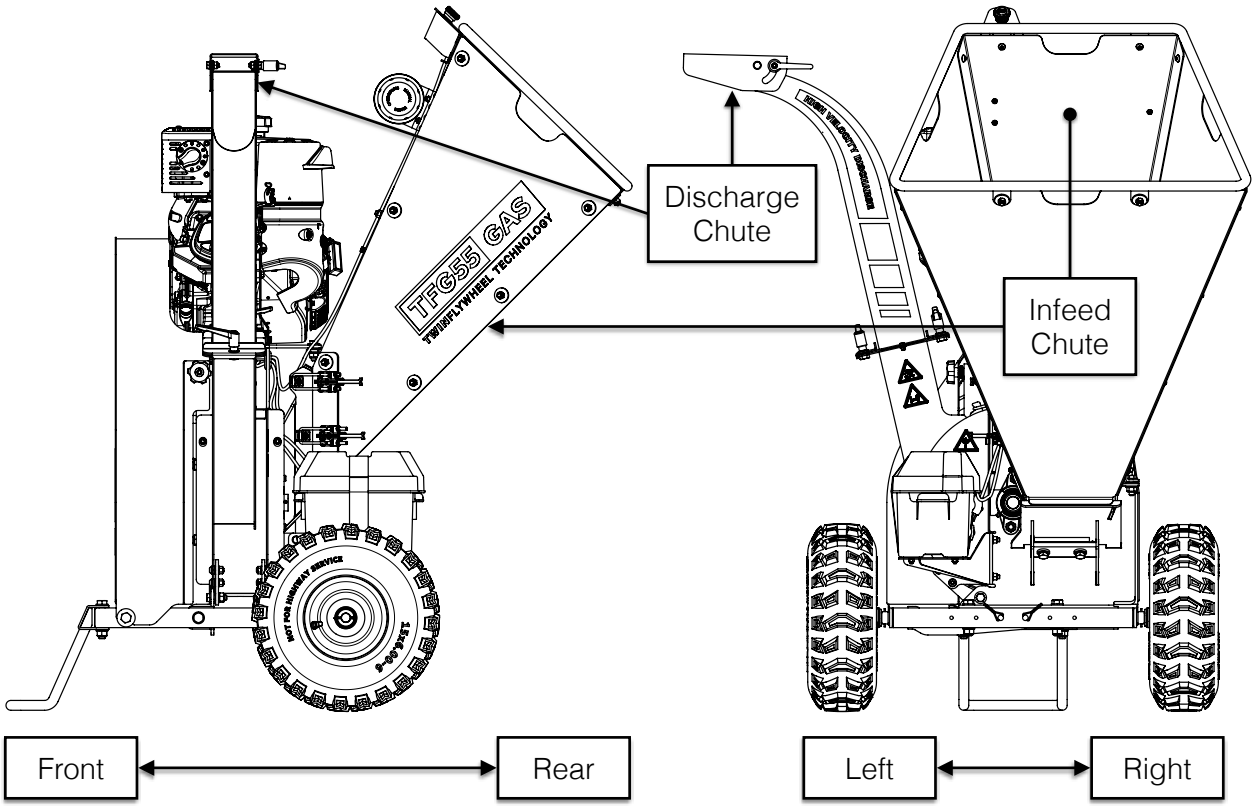
- **DO NOT** run the machine indoors or in an enclosed area such as a deep trench unless adequate ventilation, through such items as exhaust fans or hoses, is provided. Exhaust gas from the engine contains poisonous carbon monoxide gas (CO); exposure to carbon monoxide can cause loss of consciousness and may lead to death.
- **DO NOT** smoke while operating the machine.
- **DO NOT** smoke when refuelling the engine.
- **DO NOT** refuel a hot or running engine.
- **DO NOT** refuel the engine near an open flame.
- **DO NOT** spill fuel when refuelling the engine.
- **DO NOT** run the engine near an open flame.
- **ALWAYS** refill the fuel tank in a well-ventilated area.
- **ALWAYS** replace the fuel tank cap after refuelling.
- **ALWAYS** check the fuel lines and the fuel tank for leaks and cracks before starting the engine. Do not run the machine if fuel leaks are present or the fuel lines are loose.
- **ALWAYS** avoid contact with hot fuel, oil, and exhaust fumes.

TOOL USE AND CARE

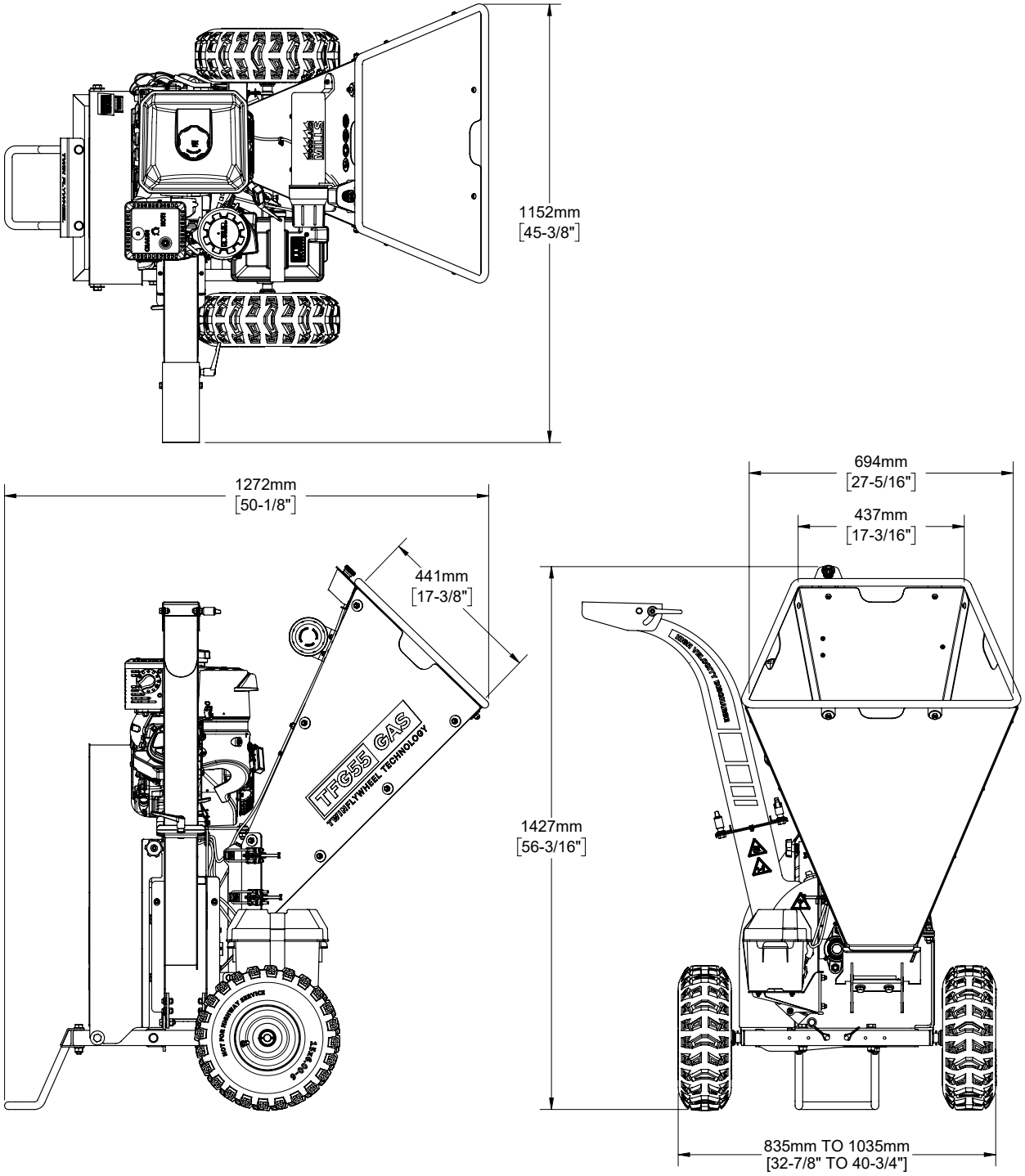
- **Always** be sure the operator is familiar with proper safety precautions and operation techniques before using machine.
- **Never touch** the engine or muffler while the engine is on or immediately after it has been turned off. These areas get extremely hot and can cause burns.
- **Always** close the fuel valve on the engine when the machine is not in use.
- **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 engine** and place the switch in the locked or off position 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 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 5" [127 mm] in diameter** or for any purpose other than chipping brush as described in this manual.

TECHNICAL SPECIFICATIONS

Item	TFG55 GAS Specification
Gasoline Engine	14 hp Kohler Command Pro w/ Electric Start
Transport	Manually or Trailered (Hitch Ball & Tow Pin)
Infeed System	Gravity-Fed
Blade Quantity and Dimensions	Three (3); 5-½ X 2-¼ X .275 in [140.5 X 57 X 7 mm]
Blade Hardware	Class 8.8 M8 X 20 mm Hex Head Bolts (3 per blade)
Infeed Chute Dimensions (W x H)	27-5/16 X 17-3/8 in [694 X 441 mm]
Product Weight	413 lb [187 kg]
Product Shipping Weight	494 lb [224 kg]

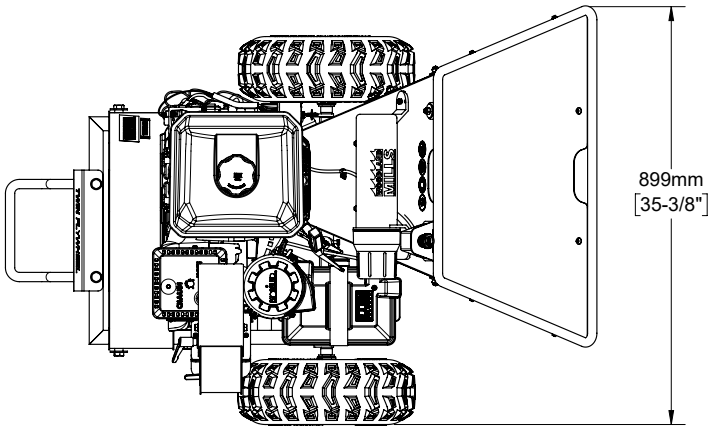


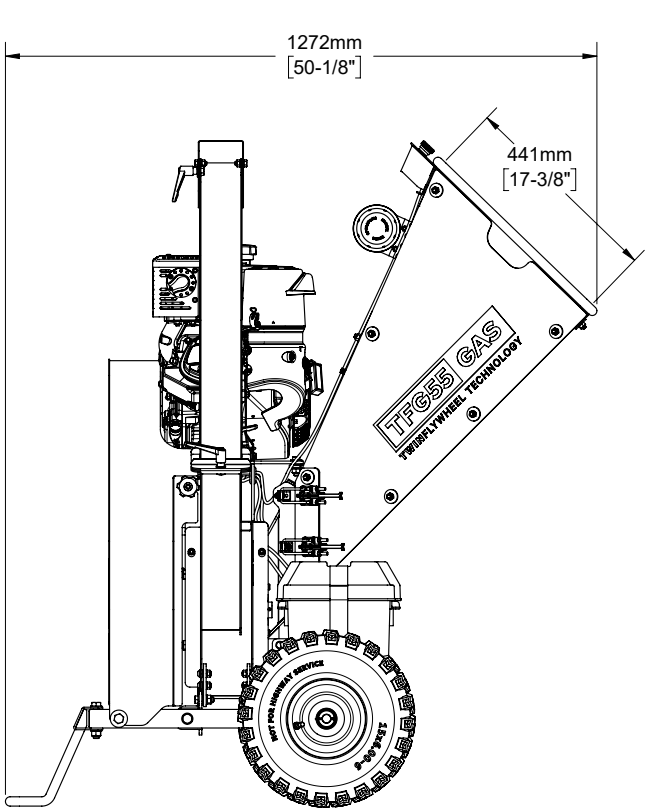
i. OVERALL DIMENSIONS—OPERATING STATE

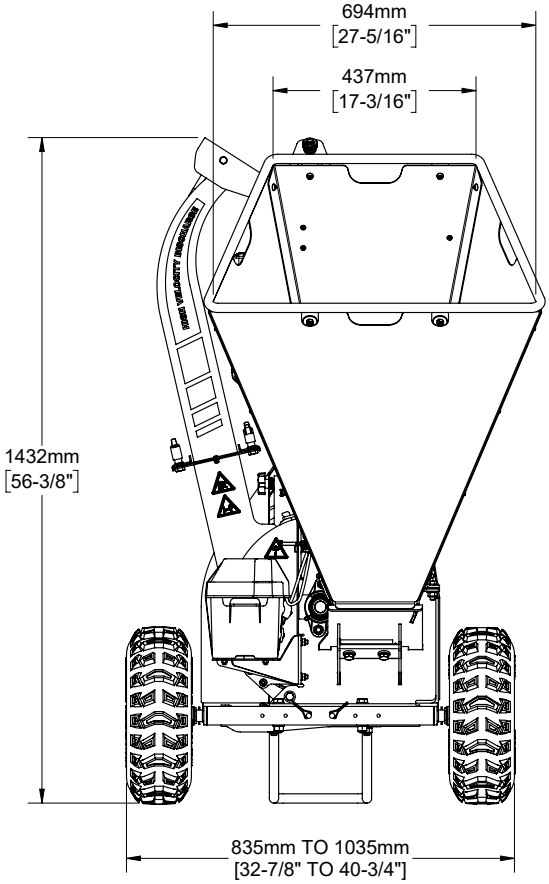


ii. OVERALL DIMENSIONS—STORED STATE

See section, ***Storage***, for more information.

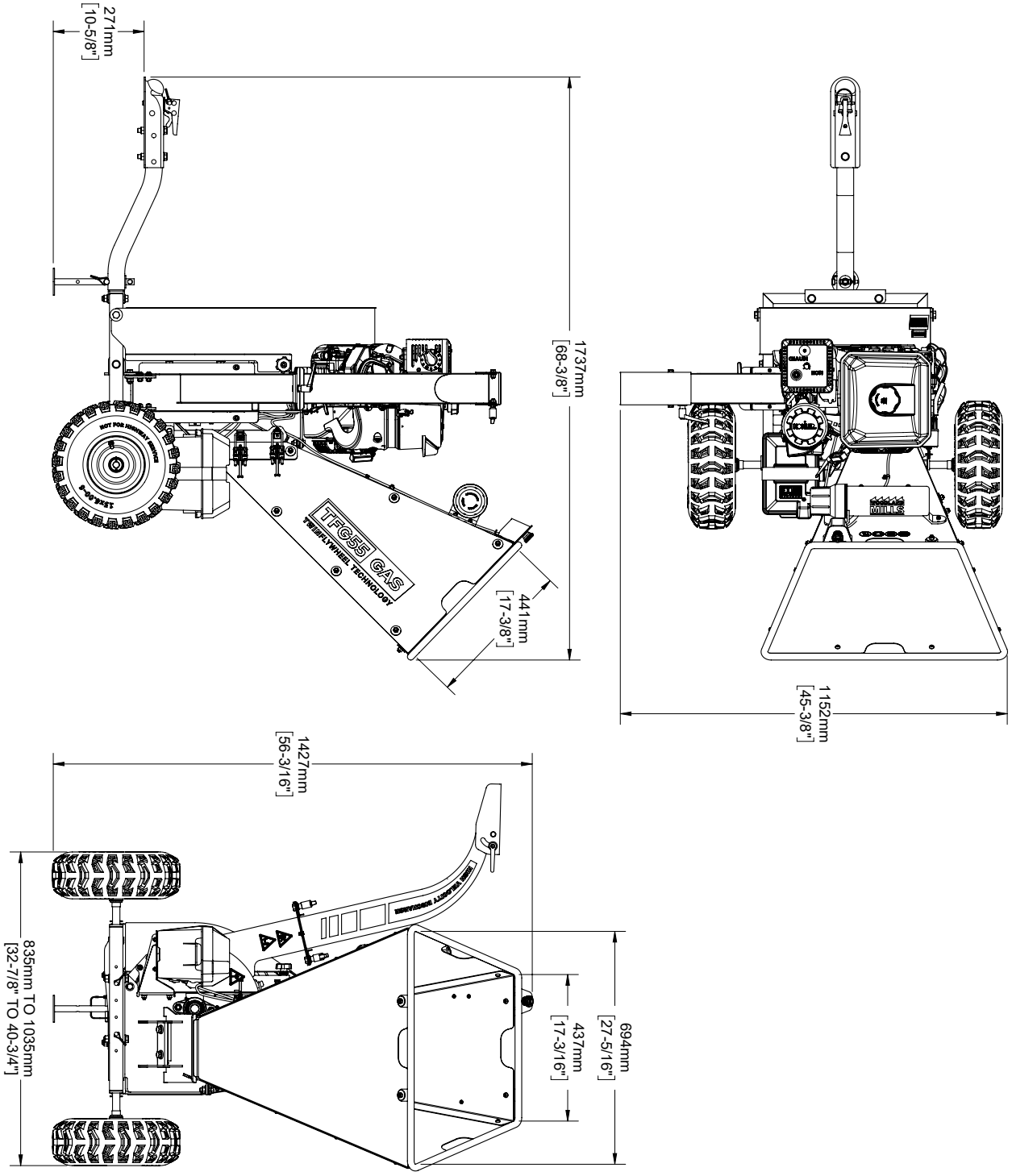






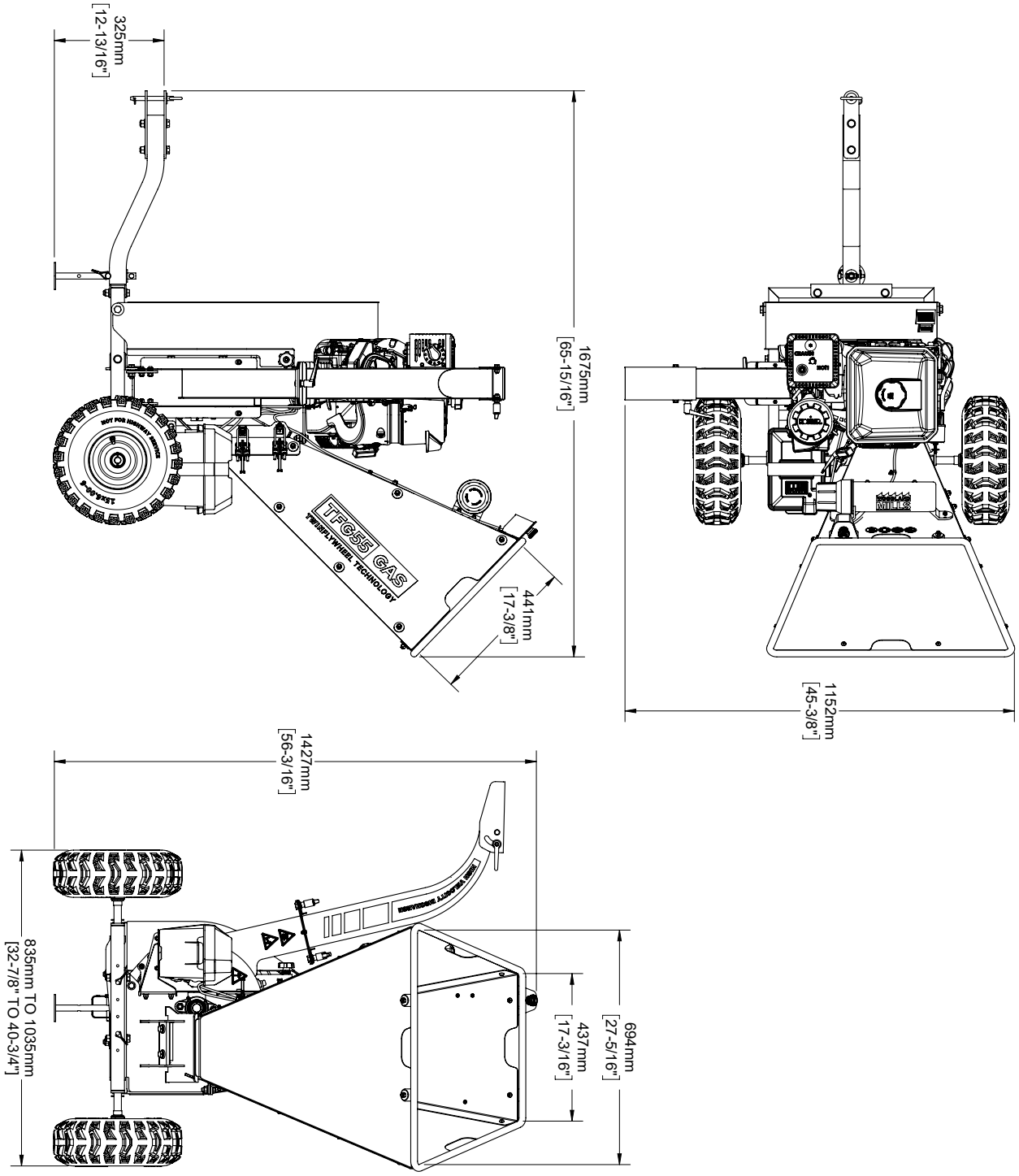
iii. OVERALL DIMENSIONS—HITCH BALL CONFIGURATION

The TFG55 GAS wood chipper comes standard with a ball coupler tow hitch.



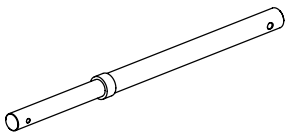
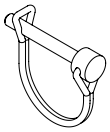
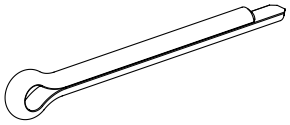
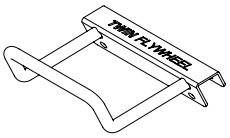
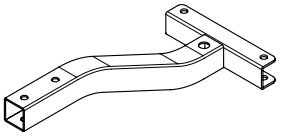
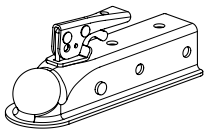
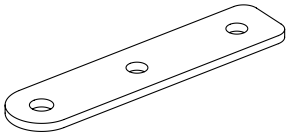
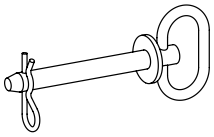
iv. OVERALL DIMENSIONS—TOW PIN CONFIGURATION

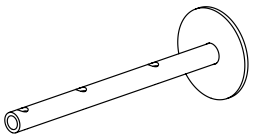
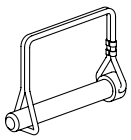
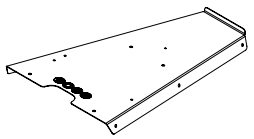
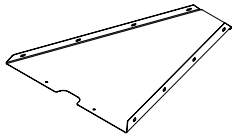
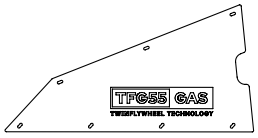
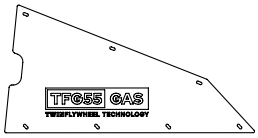
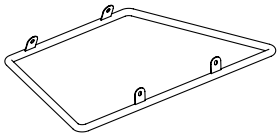
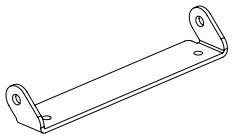
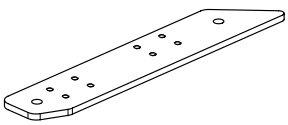
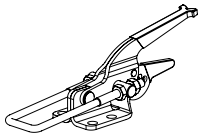
The TFG55 GAS wood chipper also comes standard with a tow pin hitch for use with ATVs and riding lawn mowers.

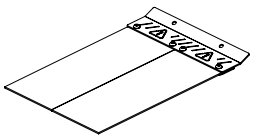


COMPONENT LISTS

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

1x	Right Wheel [15x6.00-6R]	
1x	Left Wheel [15x6.00-6L]	
2x	Axle [0010912]	
3x	Round Locking Pin [0004728]	
2x	Cotter Pin [0004758]	
1x	Base Leg [0010111]	
1x	Tow Bar [0008995]	
1x	Hitch Ball Coupler [0001381]	
2x	Tow Pin Receiver [0009011]	
1x	Handled Clevis Pin [0009832]	

1x	Tow Bar Stand [0008996]	
1x	Square Locking Pin [0004704]	
1x	Infeed Chute Top Panel [0010461]	
1x	Infeed Chute Bottom Panel [0010462]	
1x	Infeed Chute Side Panel (Left) [0010459]	
1x	Infeed Chute Side Panel (Right) [0010459]	
1x	Round Edge Bar [0010463]	
1x	Inner Hinge [0010465]	
1x	Latch Plate [0010466]	
2x	Latch [0001304]	

1x	Curtain Assembly	
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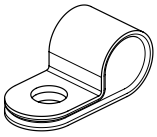
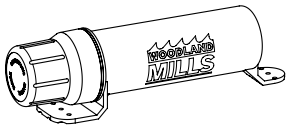
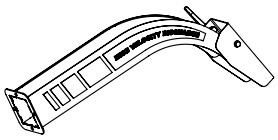
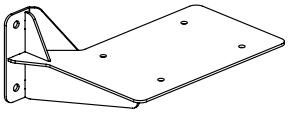
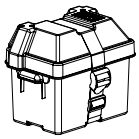
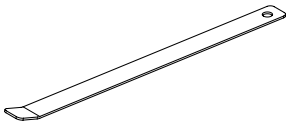
1x	Cable Clamp [0009820]	
1x	Manual Tube [0001655]	

1x	Discharge Chute Assembly [0009683]	
1x	Battery Tray [0010452]	
1x	Battery Box Assembly	
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.

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	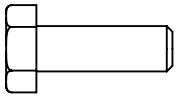	
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	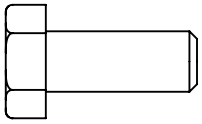	
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	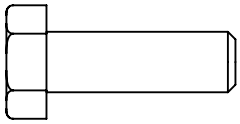	
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	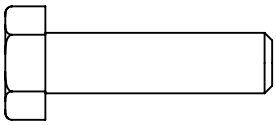	
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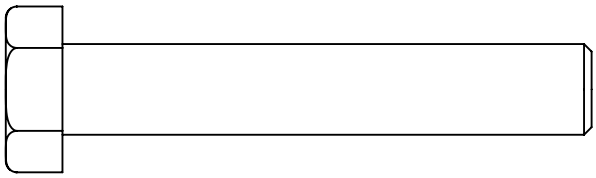
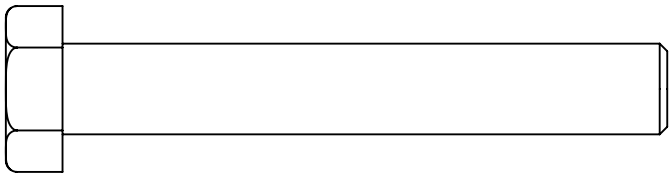
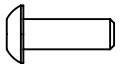
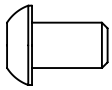
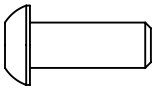
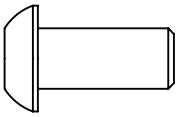
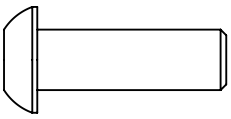
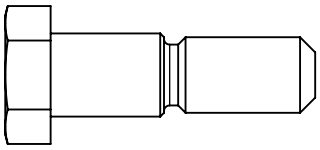
		
2x	**HHB-MBR135PCJ**	**M12 X 1.75 X 80 mm HEX BOLT**
		

1x	**BHS-MBJ073FCM**	**M4 X 0.7 X 12 mm BUTTON HEAD SCREW**
		
8x	**BHS-MBE059FCM**	**M6 X 1 X 10 mm BUTTON HEAD SCREW**
		
3x	**BHS-MBE071FCM**	**M6 X 1 X 16 mm BUTTON HEAD SCREW**
		
16x	**BHS-MBJ073FCM**	**M8 X 1.25 X 18 mm BUTTON HEAD SCREW**
		
4x	**BHS-MBJ080FCM**	**M8 X 1.25 X 25 mm BUTTON HEAD SCREW**
		
2x	**HHS-MBM057069AJ**	**M10 X 1.5 X 20 mm HEX HEAD SHOULDER SCREW**
		

SCALES

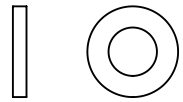
Ruler scales are also provided below to double-check bolt and screw lengths when necessary.

CENTIMETRES / MILLIMETRES

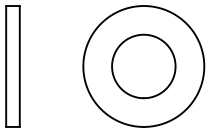
INCHES

WASHERS

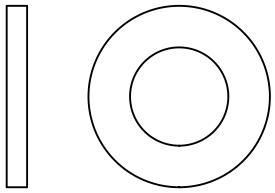
4x	FTW-MBE000AJ M6 FLAT WASHER



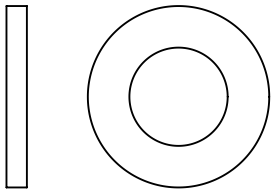
10x	FTW-MBJ000AJ M8 FLAT WASHER



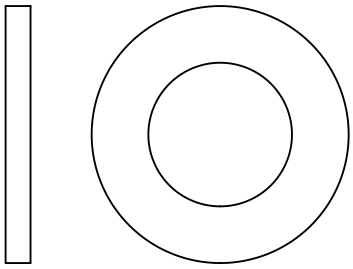
8x	FTW-MBR000AJ M12 FLAT WASHER



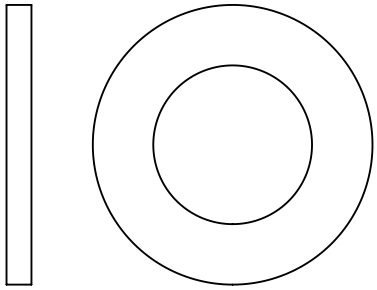
6x	FTW-MBR000NA M12 NYLON FLAT WASHER



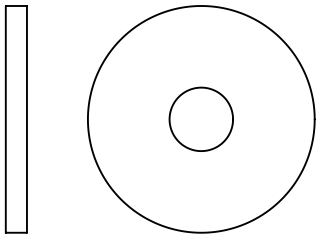
4x	FTW-MCC000AJ M18 FLAT WASHER



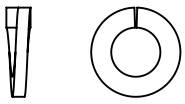
1x	FTW-MCF000AJ M20 FLAT WASHER



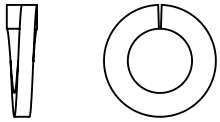
18x	FDW-MBJ079000AJ M8 FENDER WASHER, 30 mm OD



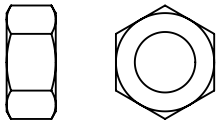
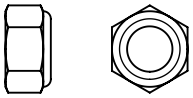
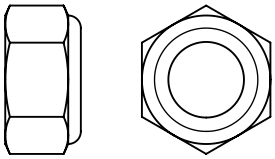
8x	SLW-MBEAJ M6 SPLIT LOCK WASHER

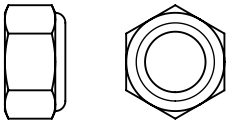
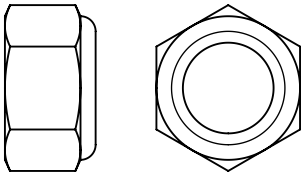


2x	SLW-MBJAJ M8 SPLIT LOCK WASHER



NUTS

2x	**HXN-MBJCH** **M8 X 1.25 HEX NUT**
	
7x	**HLN-MBECH** **M6 X 1 LOCK NUT**
	
2x	**HLN-MBMCH** **M10 X 1.5 LOCK NUT**
	

1x	**HLN-MAWCH** **M4 X 0.7 LOCK NUT**
	
23x	**HLN-MBJCH** **M8 X 1.25 LOCK NUT**
	
4x	**HLN-MBRCH** **M12 X 1.75 LOCK NUT**
	

ASSEMBLY

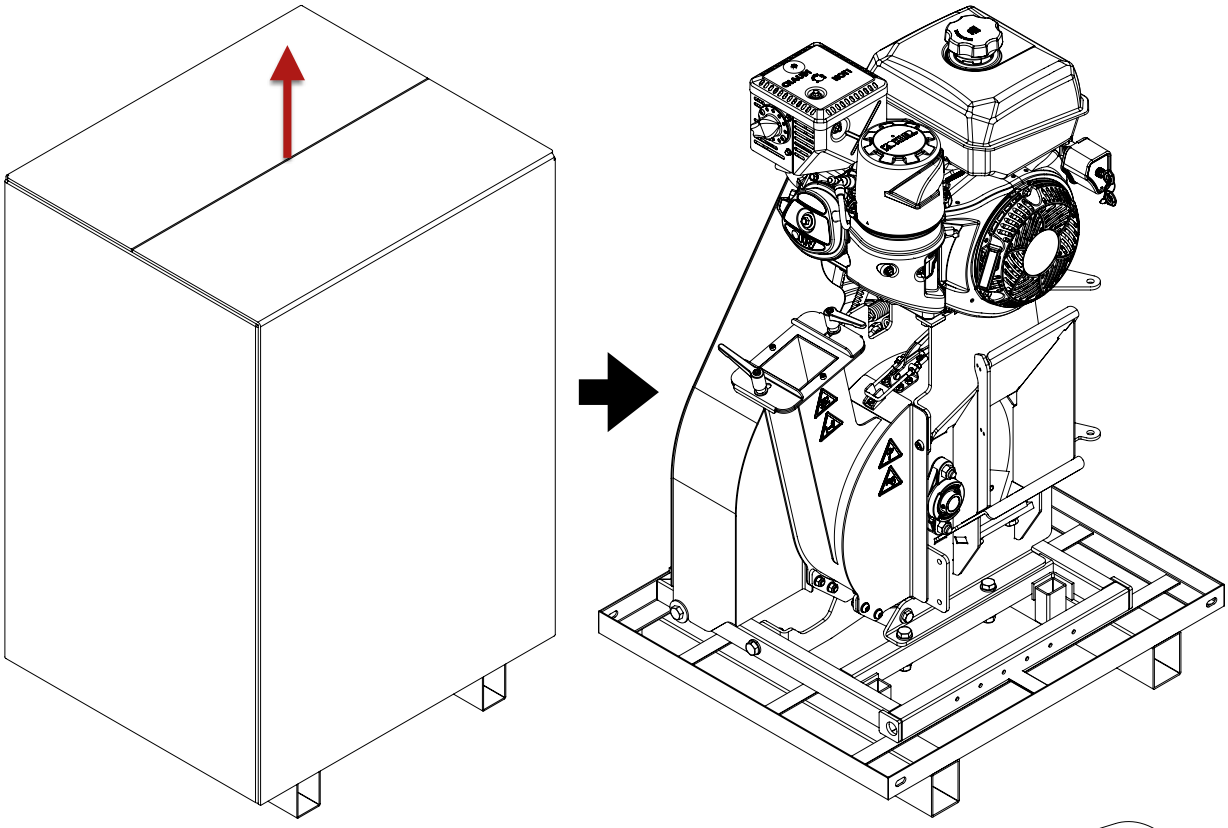
1. TOOLS REQUIRED

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)

2. UNPACKING

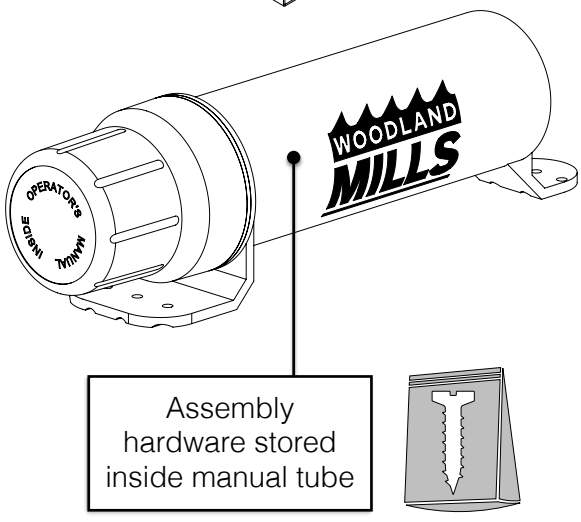
A. UNBOXING THE CRATE

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.



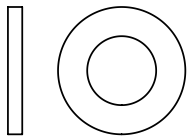
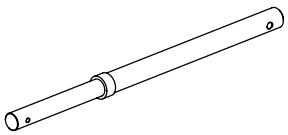
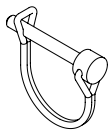
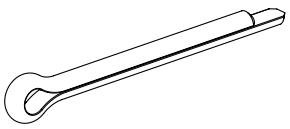
Remove all the loose components from the skid (wheels, axles, infeed chute panels, round edge bar, discharge chute, tow hitches, battery box, manual tube, etc.) and set them to the side. Leave the wood chipper on the skid.

Hardware for the assembly is stored inside the manual tube.

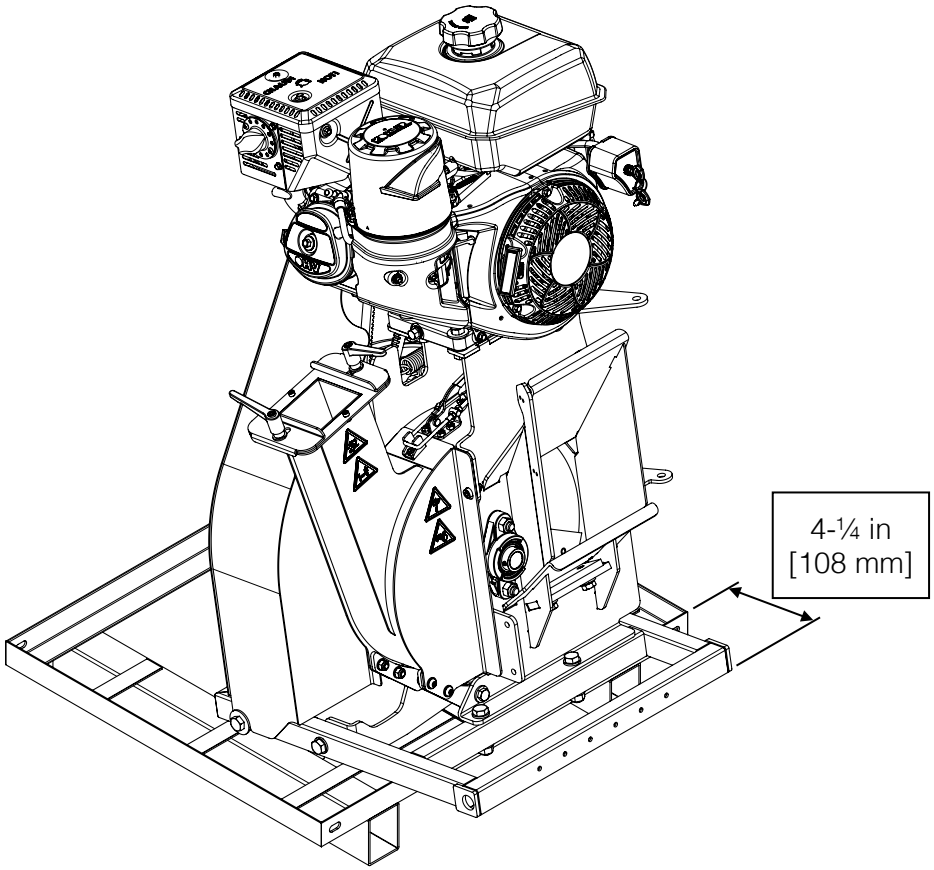


B. AXLES & WHEELS

Use the components and hardware listed in the table below to assemble the axles and wheels to the wood chipper base.

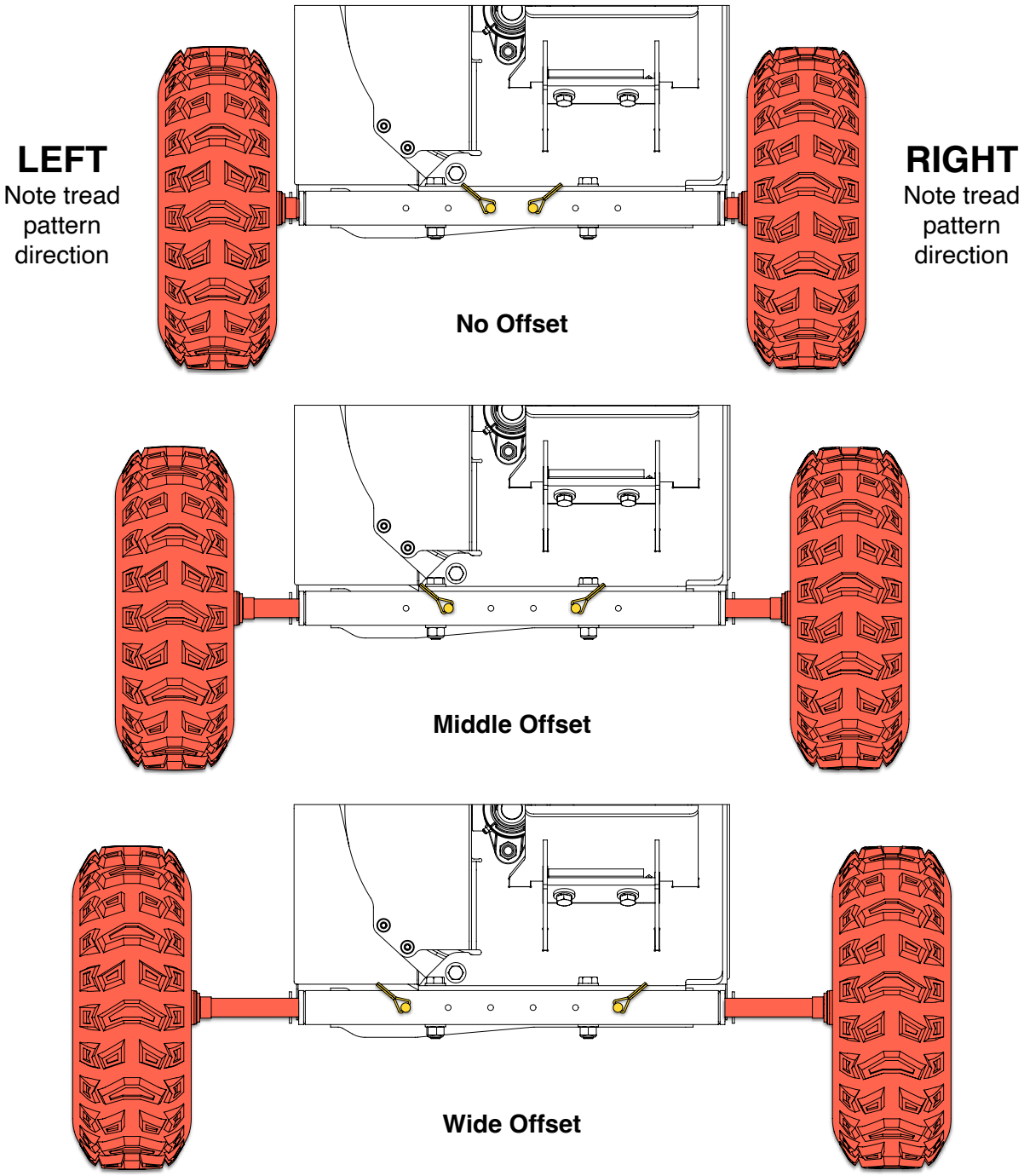
4x	M18 Flat Washer		2x	Axle	
1x	Right Wheel		2x	Round Locking Pin	
1x	Left Wheel		2x	Cotter Pin	

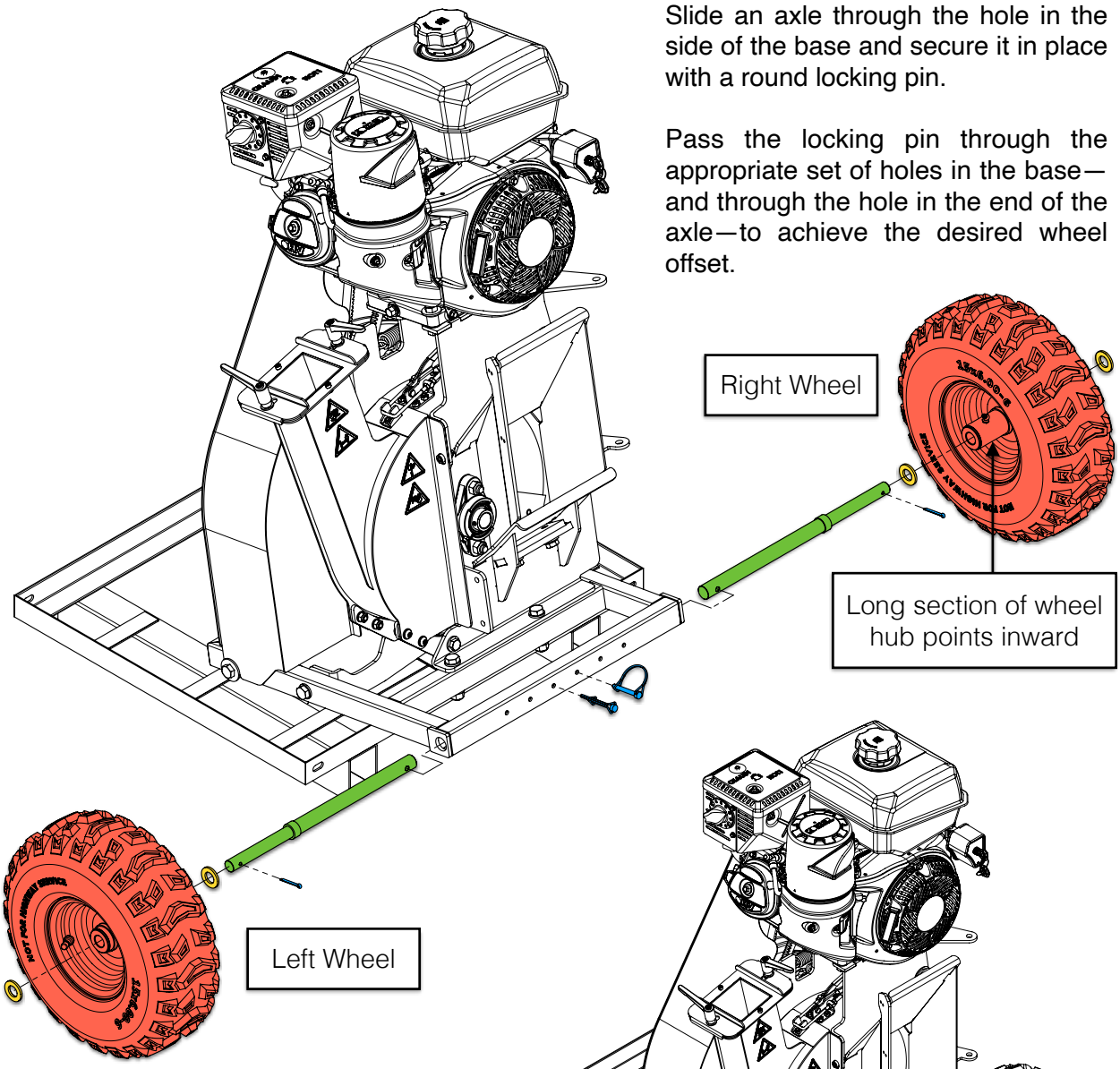
Before the axles and wheels can be assembled, shift the wood chipper forward on the crate base until it overhangs the front of the crate by approximately 4-¼ in [108 mm].



Before assembling the wheels to the base, decide which wheel offset will best suit the wood chipper for how it will be transported. **No Offset** is best if the wood chipper will never be towed behind a vehicle. The **Middle and Wide Offsets** are best for towing behind a lawn mower or small tractor, with the **Wide** option being best for towing over uneven terrain.

Note that the wheel offset can be changed at any time.





Slide an axle through the hole in the side of the base and secure it in place with a round locking pin.

Pass the locking pin through the appropriate set of holes in the base—and through the hole in the end of the axle—to achieve the desired wheel offset.

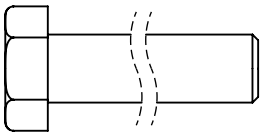
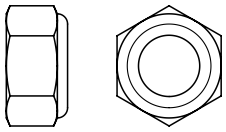
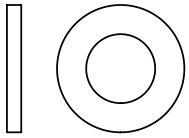
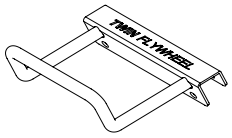
Slide an M18 flat washer over the end of the axle until it stops at the axle shoulder. Then slide the wheel onto the axle with the long section of the wheel hub pointing inward, and another M18 flat washer.

Insert a cotter pin through the hole in the end of the axle and bend the ends around so that it cannot fall out. Repeat these steps for both sides.

C. BASE LEG

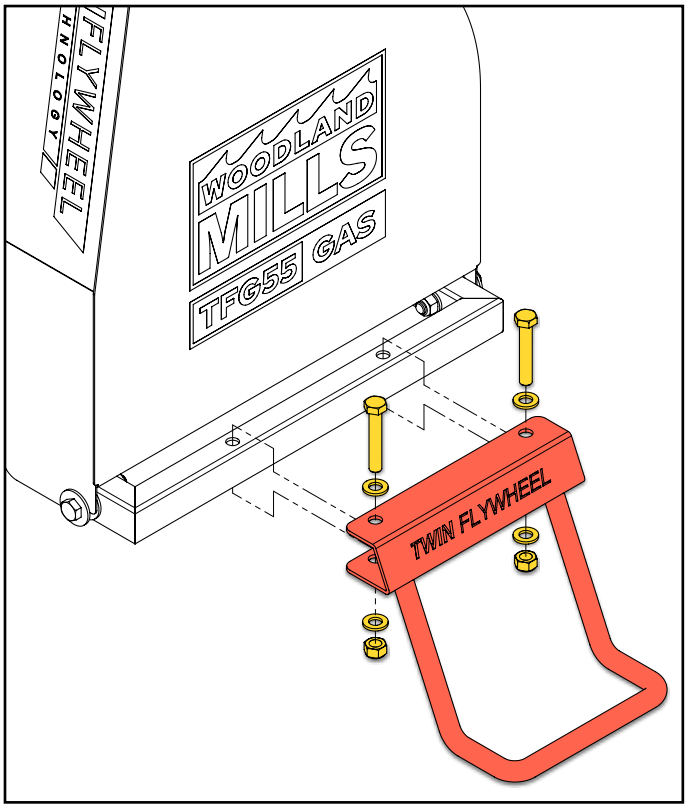
****If the wood chipper will be trailered, skip this page and proceed to the next page.****

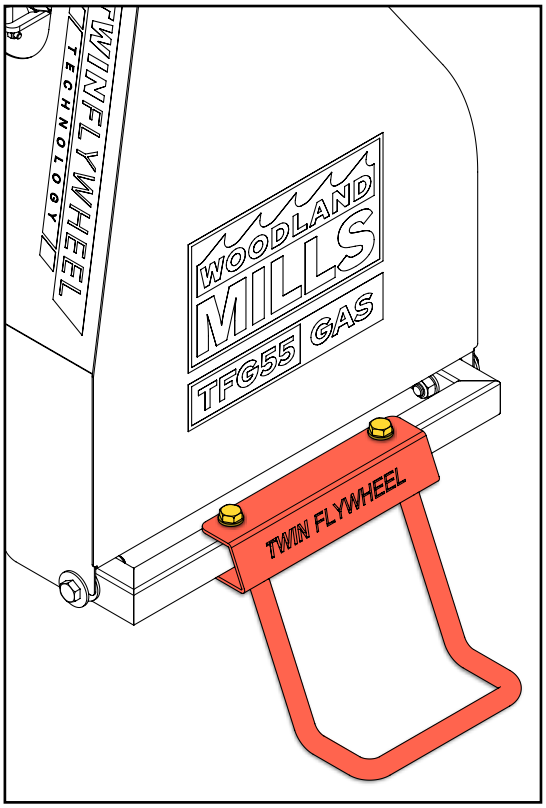
Using the hardware and components listed in the table below, assemble the base leg to the front side of the wood chipper base.

2x	M12 X 70 mm Hex Bolt		2x	M12 Lock Nut	
4x	M12 Flat Washer		1x	Base Leg	

First remove the crate skid from underneath the wood chipper by tilting it back on its wheels. Use a scrap piece of wood to support the front of the base to keep it level or have a second person hold the wood chipper at an angle.

Secure the leg to the base using two (2) M12 X 70 mm hex bolts, four (4) M12 flat washers, and two (2) M12 lock nuts as shown below. Fully tighten the hardware.

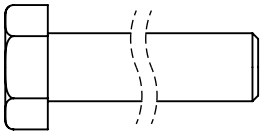
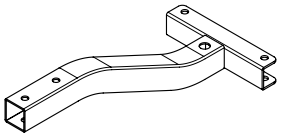
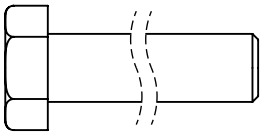
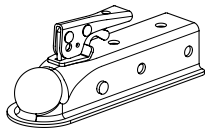
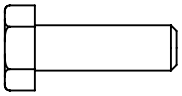
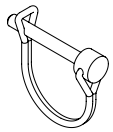
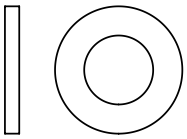
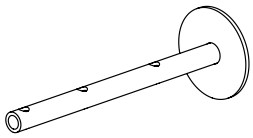
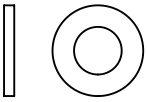
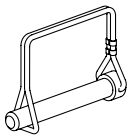
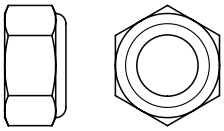
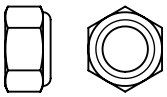




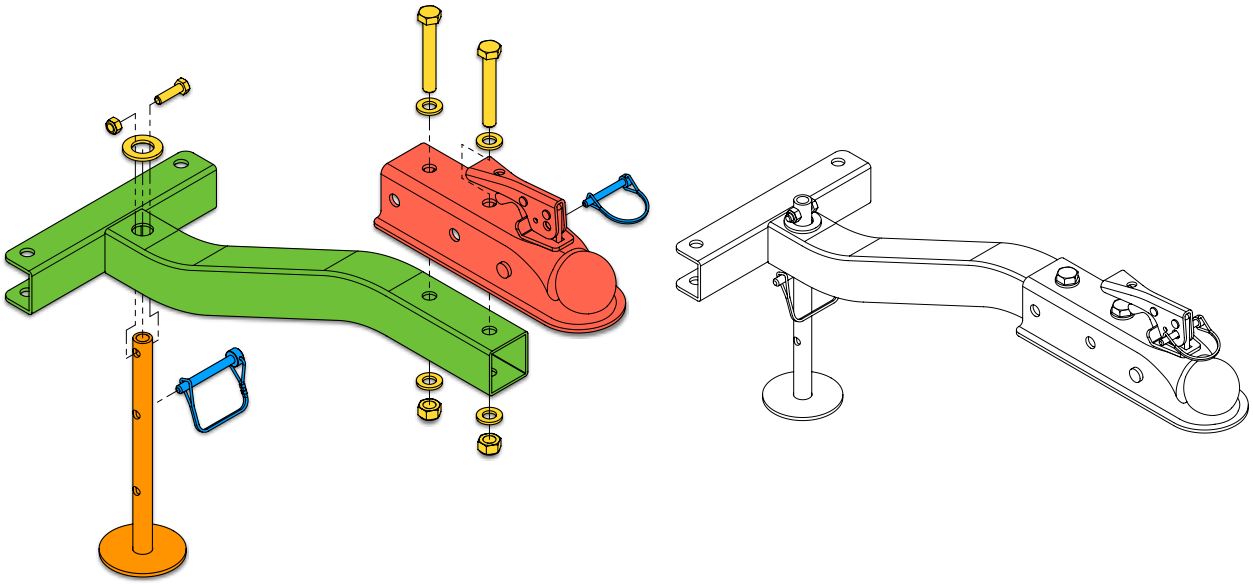
D. TOW BAR (HITCH BALL)

****If the wood chipper will be trailered using a tow pin instead of a hitch ball coupler, skip this section and proceed to the next section.****

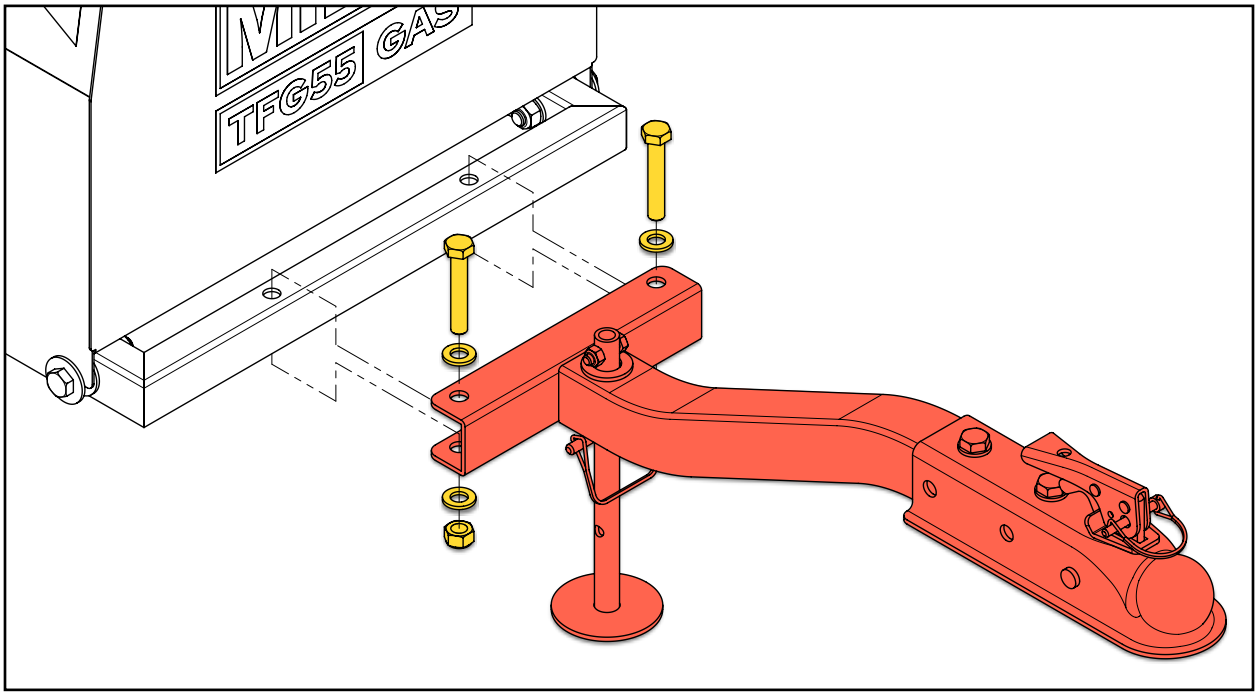
Using the hardware and components listed in the table below, assemble the hitch ball coupler and tow bar stand to the tow bar.

2x	M12 X 80 mm Hex Bolt		1x	Tow Bar	
2x	M12 X 70 mm Hex Bolt		1x	Hitch Ball Coupler	
1x	M8 X 30 mm Hex Bolt		1x	Round Locking Pin	
1x	M20 Flat Washer		1x	Tow Bar Stand	
8x	M12 Flat Washer		1x	Square Locking Pin	
4x	M12 Lock Nut				
1x	M8 Lock Nut				

Secure the hitch ball coupler to the tow bar using two (2) M12 X 80 mm hex bolts, four (4) M12 flat washers, and two (2) M12 lock nuts. Next, insert the square locking pin into the middle hole in the stand. Then pass the stand up through the bottom of the tow bar, through the M20 flat washer, and finally insert the M8 X 30 mm hex bolt through the top hole in the stand, securing it with the M8 lock nut. Fully tighten all the hardware.

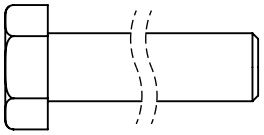
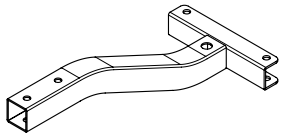
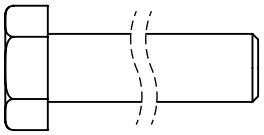
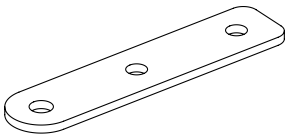
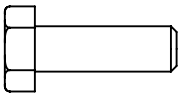
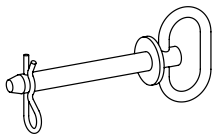
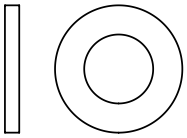
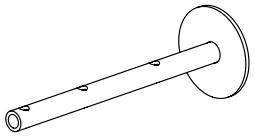
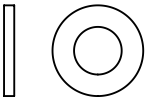
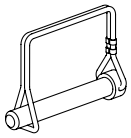
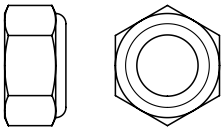
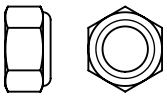


To secure the tow bar assembly to the base, use two (2) M12 X 70 mm hex bolts, four (4) M12 flat washers, and two (2) M12 lock nuts. Fully tighten the hardware.

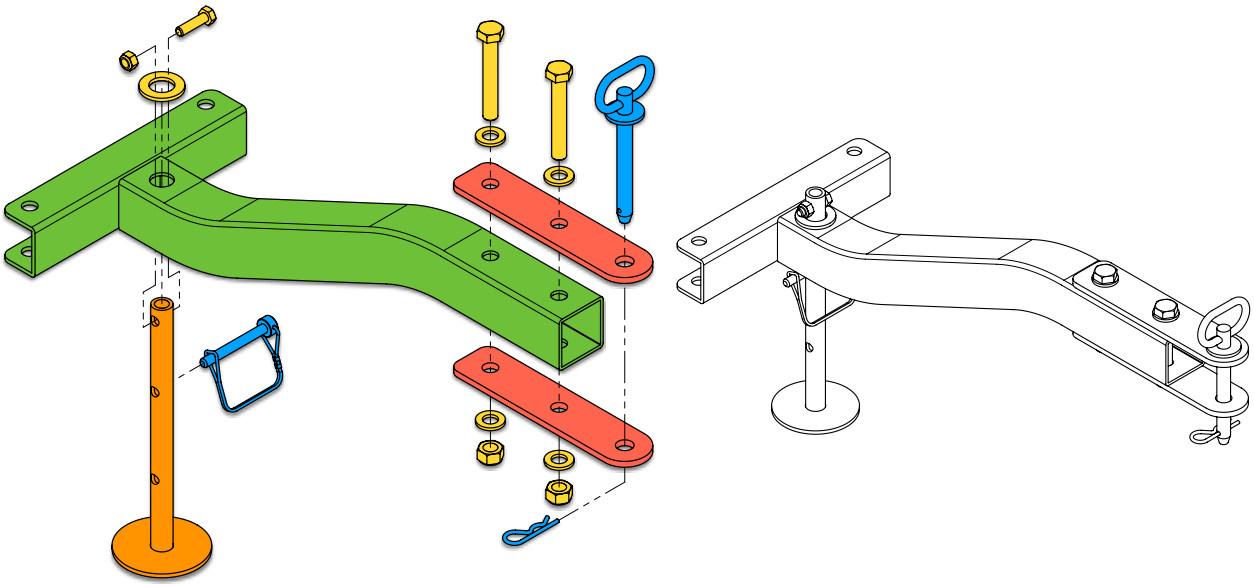


E. TOW BAR (TOW PIN)

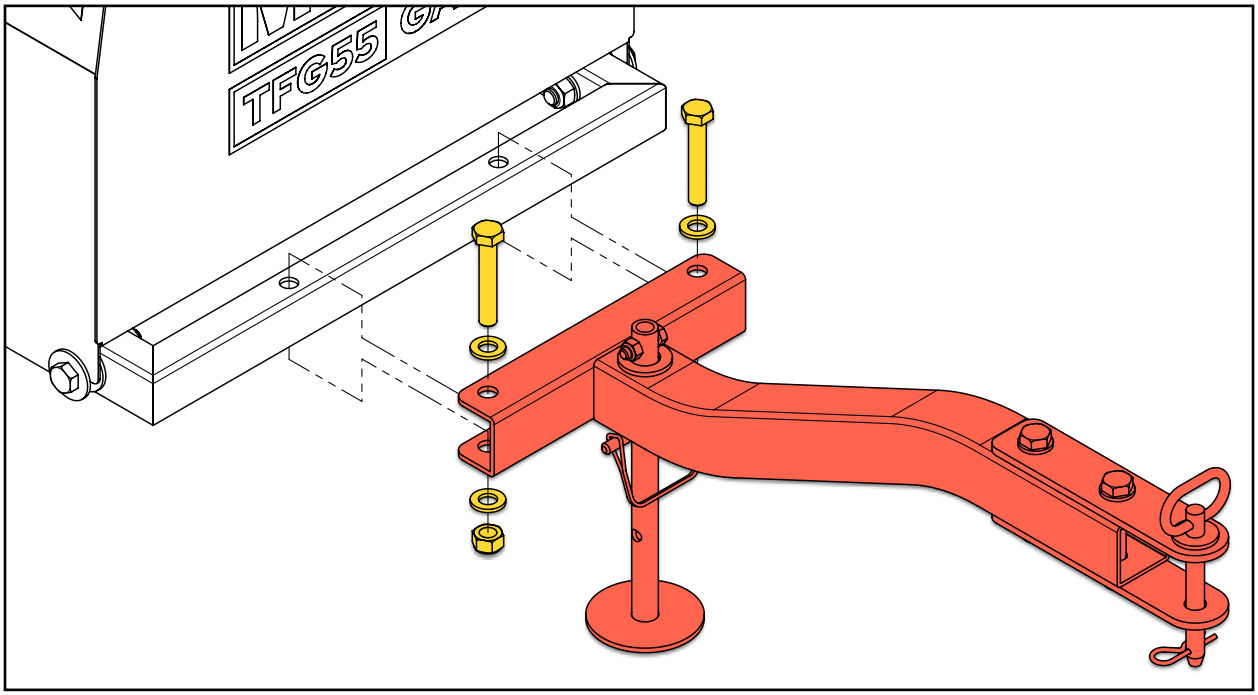
Using the hardware and components listed in the table below, assemble the tow pin receiver and tow bar stand to the tow bar.

2x	M12 X 80 mm Hex Bolt		1x	Tow Bar	
2x	M12 X 70 mm Hex Bolt		2x	Tow Pin Receiver Plate	
1x	M8 X 30 mm Hex Bolt		1x	Handled Clevis Pin w/ Cotter Pin	
1x	M20 Flat Washer		1x	Tow Bar Stand	
8x	M12 Flat Washer		1x	Square Locking Pin	
4x	M12 Lock Nut				
1x	M8 Lock Nut				

Secure the tow pin receivers to the tow bar using two (2) M12 X 80 mm hex bolts, four (4) M12 flat washers, and two (2) M12 lock nuts. Next, insert the square locking pin into the middle hole in the stand. Then pass the stand up through the bottom of the tow bar, through the M20 flat washer, and finally insert the M8 X 30 mm hex bolt through the top hole in the stand, securing it with the M8 lock nut. Fully tighten all the hardware.



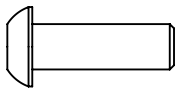
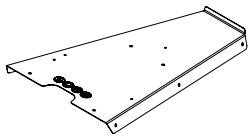
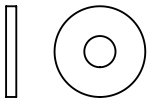
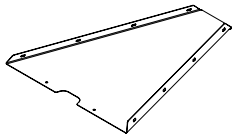
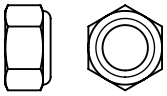
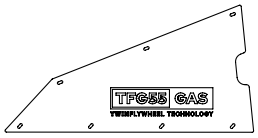
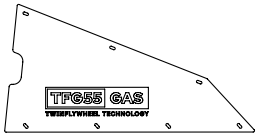
To secure the tow bar assembly to the base, use two (2) M12 X 70 mm hex bolts, four (4) M12 flat washers, and two (2) M12 lock nuts. Fully tighten the hardware.



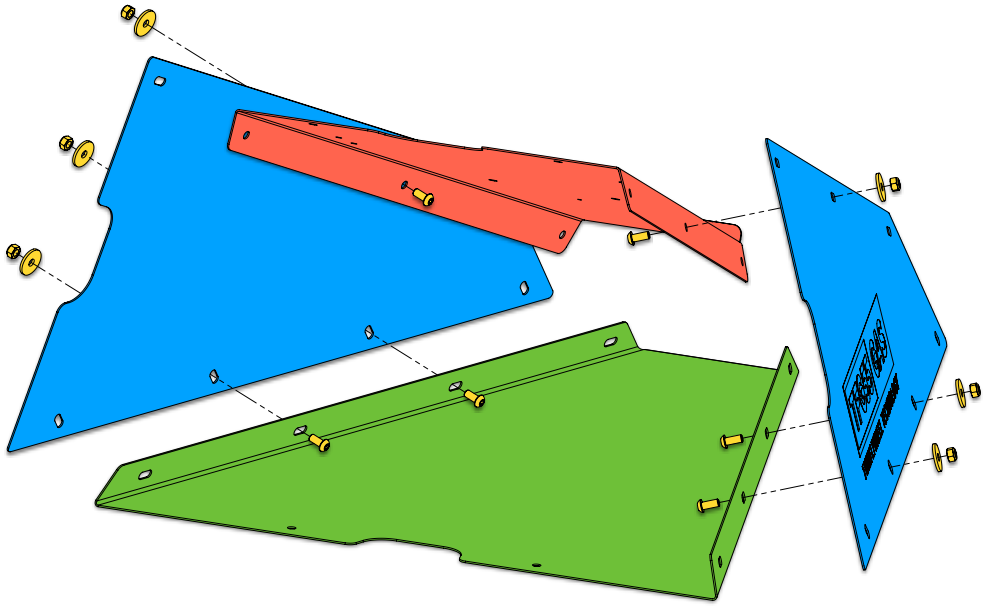
3. INFEED CHUTE

A. PANELS

Using the hardware and components listed in the table below, loosely assemble the infeed chute panels together.

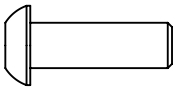
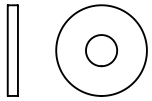
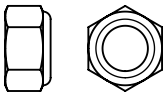
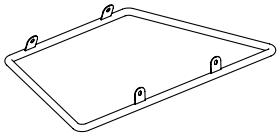
6x	M8 X 18 mm Button Head Screw		1x	Infeed Chute Top Panel	
6x	M8 X 30 mm Fender Washer		1x	Infeed Chute Bottom Panel	
6x	M8 Lock Nut		1x	Infeed Chute Left Side Panel	
			1x	Infeed Chute Right Side Panel	

Assemble the left and right side panels to the bottom panel using two (2) M8 X 18 mm button head screws, two (2) M8 X 30 mm fender washers, and two (2) M8 lock nuts per side. Then assemble the top panel to the side panels using one (1) screw, one (1) fender washer, and one (1) lock nut per side through only the middle holes. Snug the hardware but do not fully tighten.



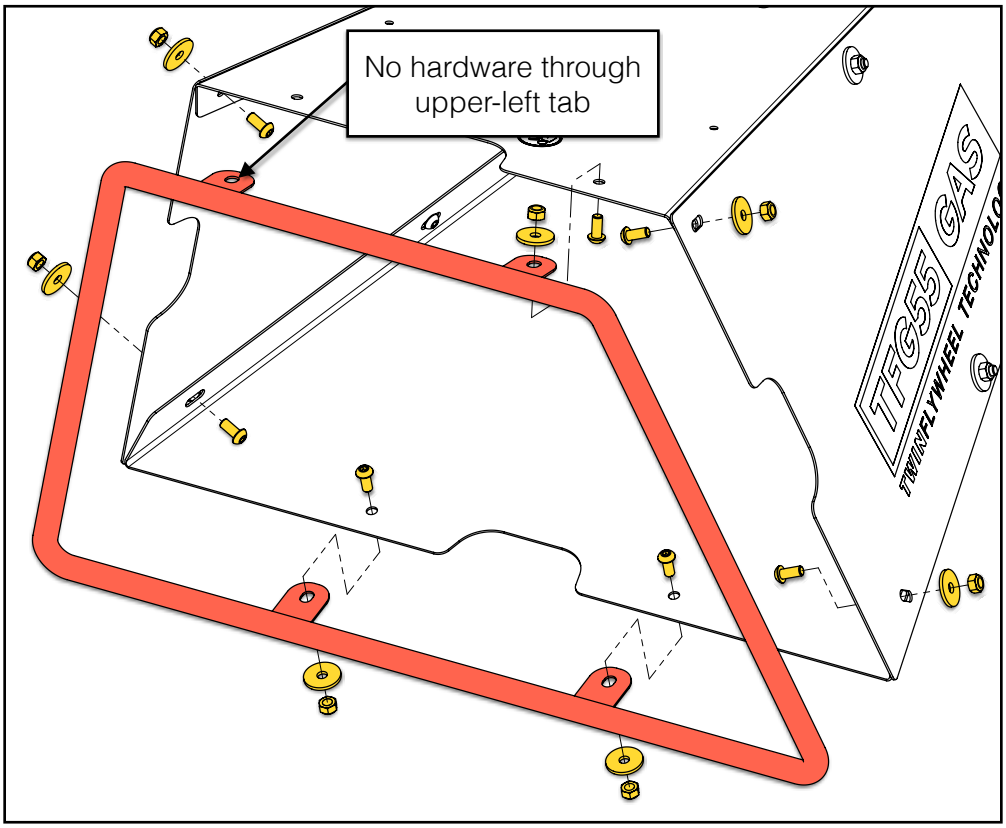
B. EDGE BAR

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

7x	M8 X 18 mm Button Head Screw		7x	M8 X 30 mm Fender Washer	
7x	M8 Lock Nut		1x	Infeed Chute Round Edge Bar	

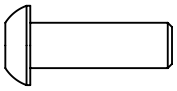
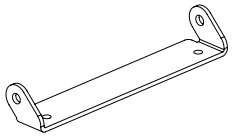
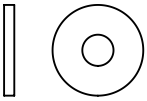
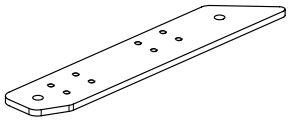
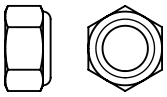
Position the lower tabs of the round edge bar *under* the bottom panel and the upper tabs *over* the top panel. Pivot the top chute panel slightly if necessary. Secure the round edge bar using three (3) M8 X 18 mm button head screws, three (3) M8 X 30 mm fender washers, and three (3) M8 lock nuts. ***Do not install any hardware through the upper-left tab***.

Join the four outer corners of the chute panels using four (4) M8 X 18 mm button head screws, four (4) M8 X 30 mm fender washers, and four (4) M8 lock nuts. Snug all the hardware but do not fully tighten.



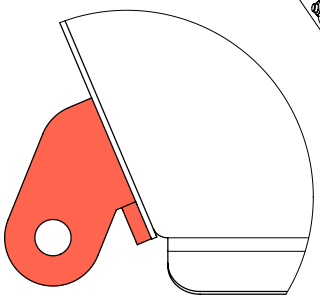
C. HINGE & LATCH PLATE

Assemble the inner hinge and latch plate to the infeed chute using the hardware listed below.

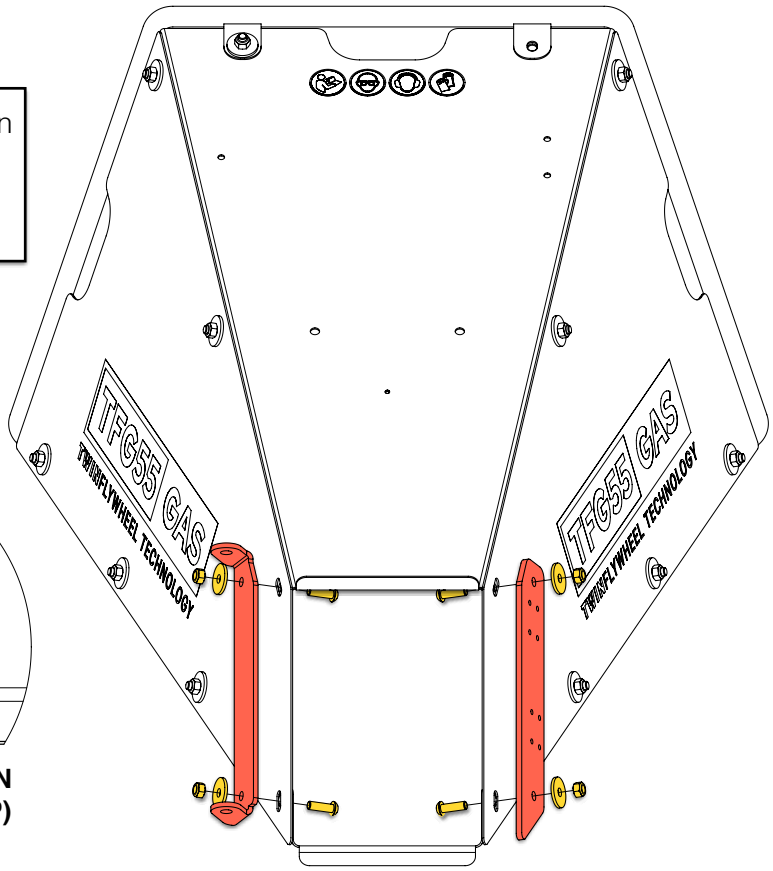
4x	M8 X 25 mm Button Head Screw		1x	Inner Hinge	
4x	M8 X 30 mm Fender Washer		1x	Latch Plate	
4x	M8 Lock Nut				

Assemble both the inner hinge and latch plate using two (2) M8 X 25 mm button head screws, two (2) M8 X 30 mm fender washers, and two (2) M8 lock nuts each. Fully tighten all the infeed chute hardware from this and previous steps.

Ensure all edges between adjoining panels are aligned before fully tightening the hardware

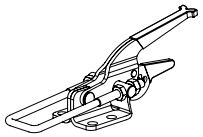
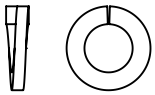


HINGE ORIENTATION (VIEWED FROM TOP)

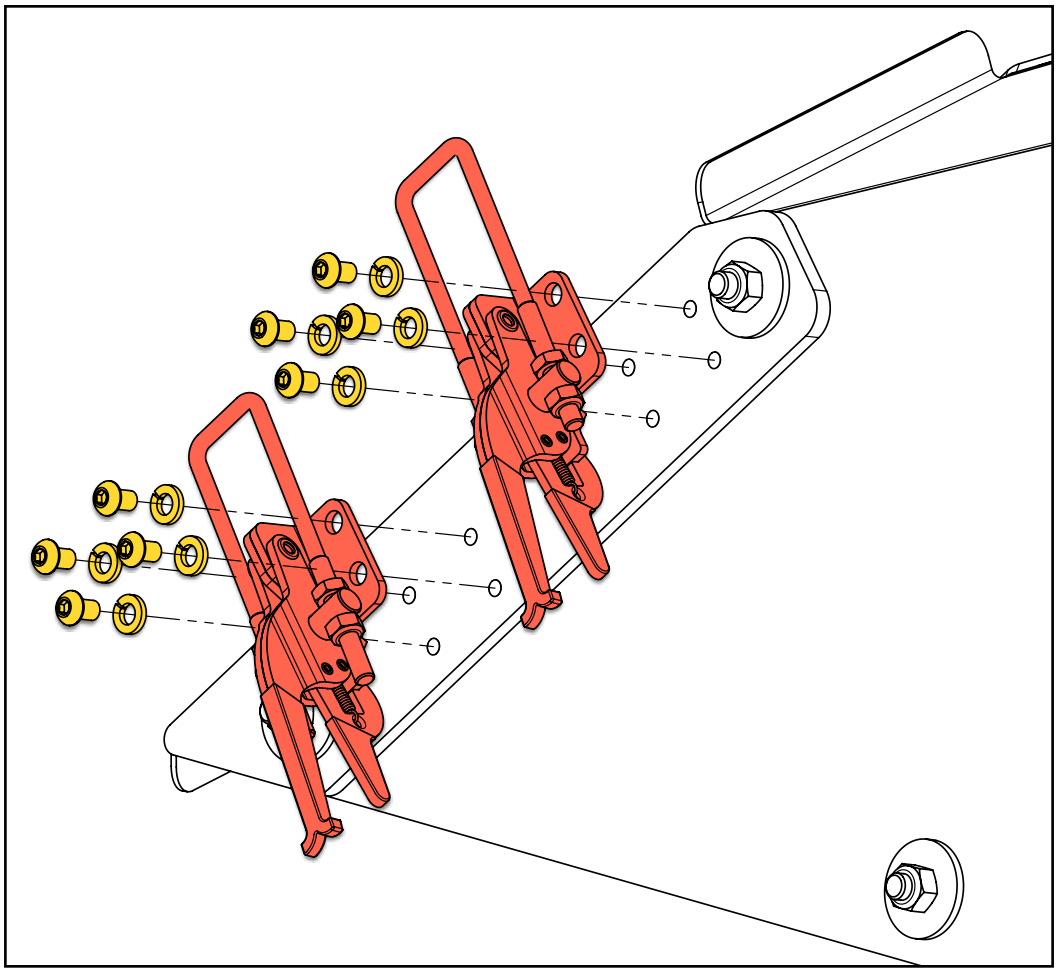


D. LATCHES

Assemble the latches using the hardware and components listed in the table below.

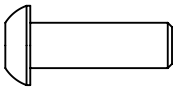
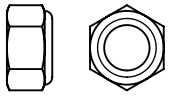
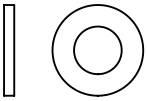
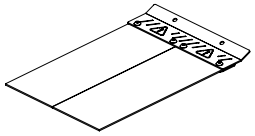
8x	M6 X 10 mm Button Head Screw		2x	Latch	
8x	M6 Split Lock Washer				

Assemble both latches to the latch plate on the left side of the infeed chute using four (2) M6 X 10 mm button head screws and four (4) M6 split lock washers for each latch. Fully tighten the hardware.

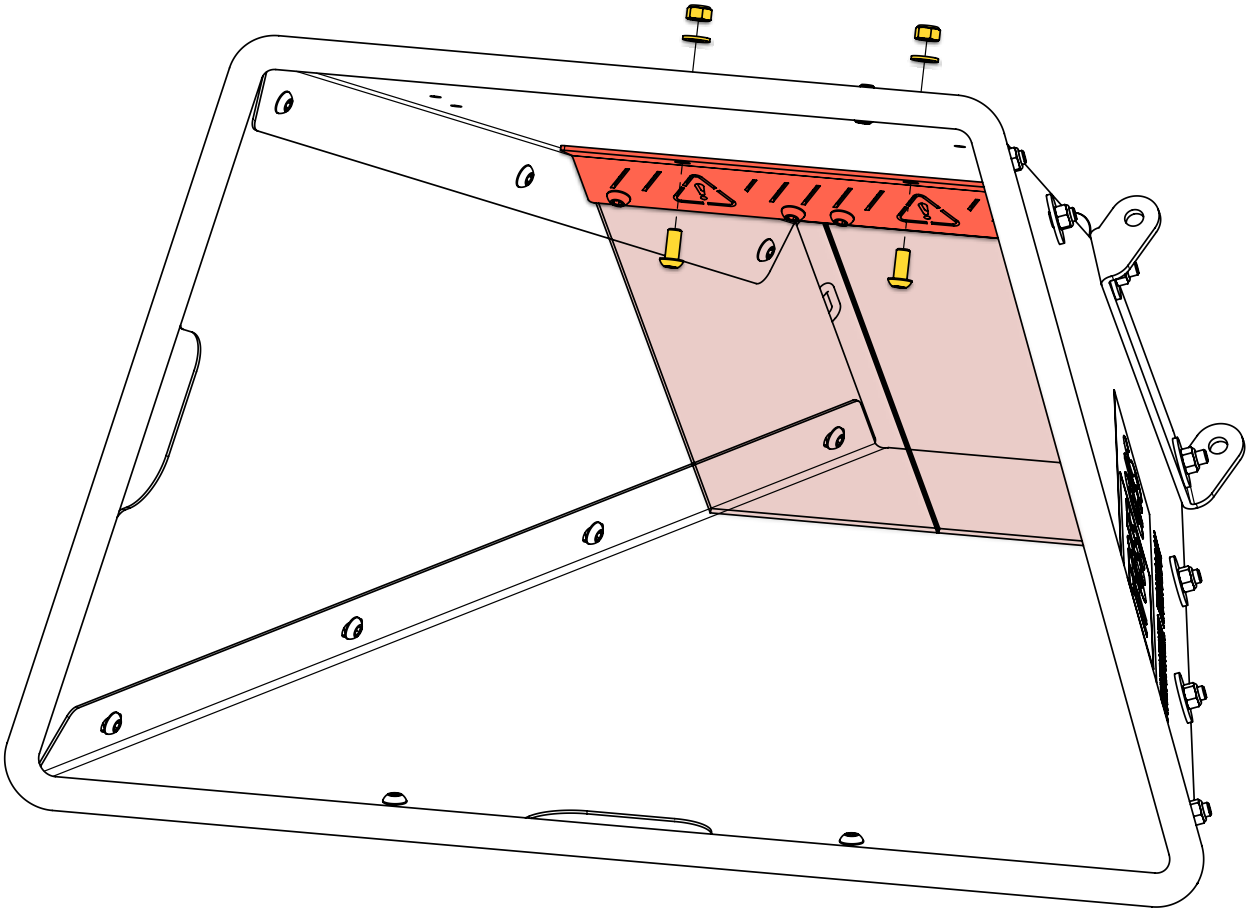


E. CURTAIN

Assemble the curtain using the hardware and components listed in the table below.

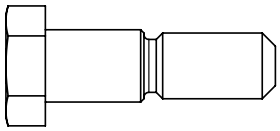
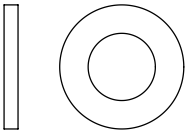
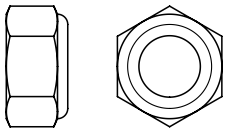
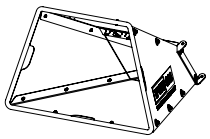
2x	M8 X 18 mm Button Head Screw		2x	M8 Lock Nut	
2x	M8 Flat Washer		1x	Curtain Assembly	

Assemble the curtain assembly to the top chute panel using two (2) M8 X 18 mm button head screws, two (2) M8 flat washers, and two (2) M8 lock nuts. Fully tighten the hardware.

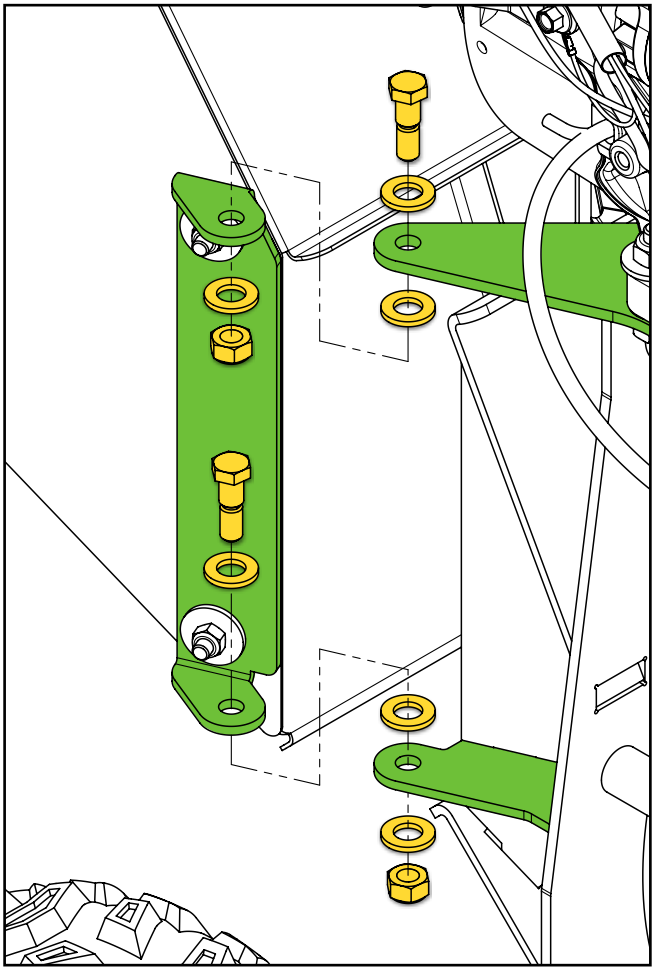


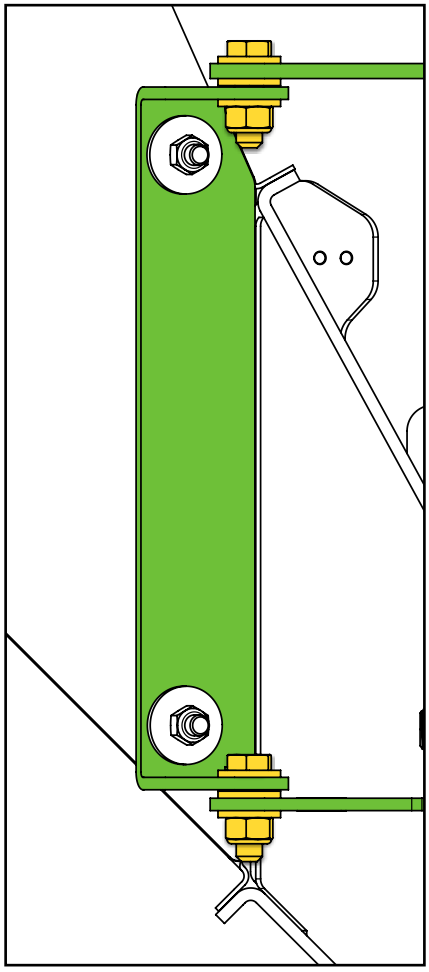
F. MOUNT INFEED CHUTE TO CHIPPER

Mount the infeed chute assembly hinge to the wood chipper using the hardware listed in the table below.

2x	M10 X 15 X 20 mm Shoulder Bolt		6x	M12 Nylon Flat Washer	
2x	M10 Lock Nut		1x	Infeed Chute Assembly	

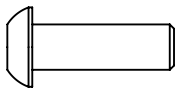
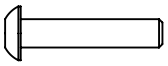
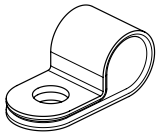
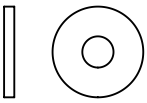
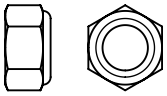
With the assistance of a second person supporting the infeed chute assembly, assemble the chute to the wood chipper using two (2) M10 X 15 X 20 mm shoulder bolts, six (6) M12 nylon flat washers, and two (2) M10 lock nuts. Tighten the hardware ensuring the chute swings freely.





G. EMERGENCY STOP

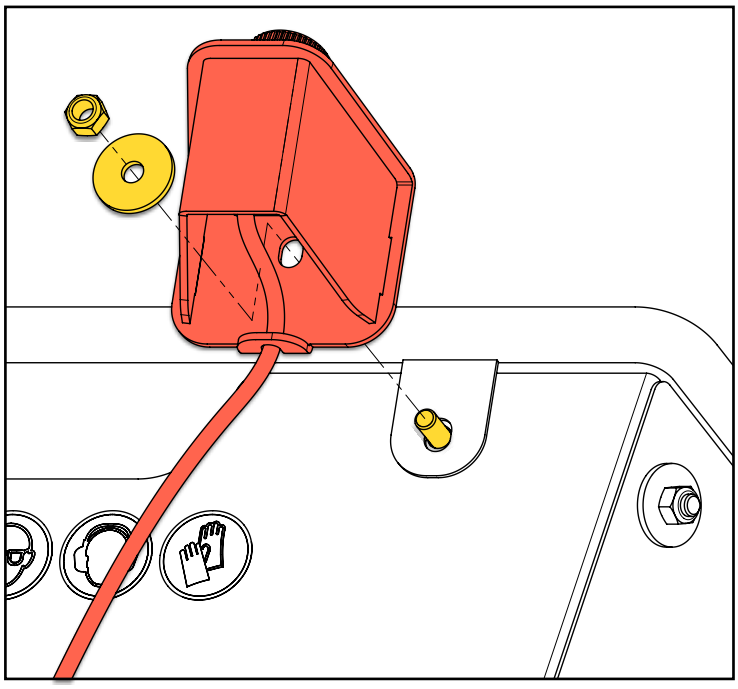
Mount the emergency stop assembly to the infeed chute and route its cable using the hardware and components listed in the table below.

1x	M8 X 18 mm Button Head Screw		1x	Emergency Stop Assembly	
1x	M4 X 12 mm Button Head Screw		1x	Cable Clamp	
1x	M8 X 30 mm Fender Washer				
1x	M8 Lock Nut				
1x	M4 Lock Nut				

The emergency stop assembly ships tucked away beneath the engine on the right side of the wood chipper.

Assemble the emergency stop to the upper-left side of the infeed chute using one (1) M8 X 18 mm button head screw, one (1) M8 X 30 mm fender washer, and one (1) M8 lock nut.

Fully tighten the hardware.

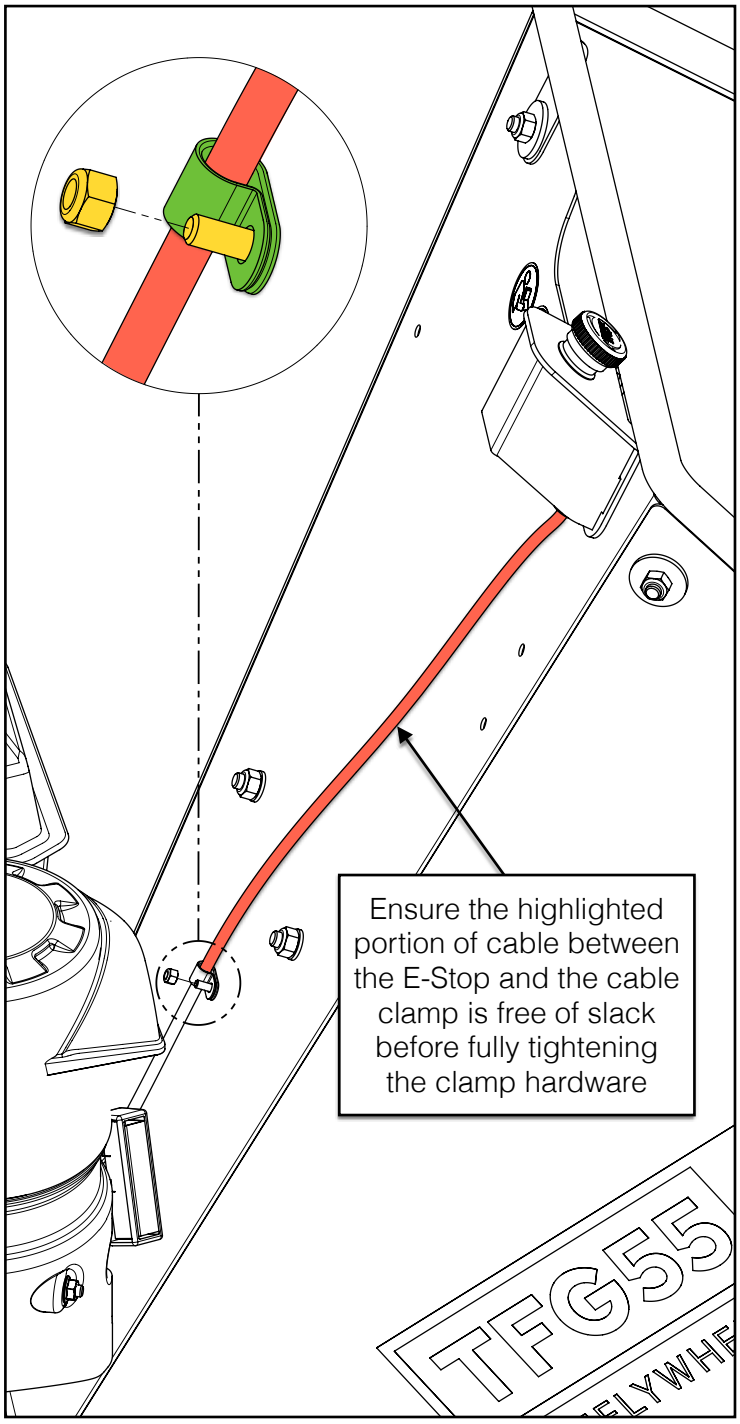


Route the emergency stop cable from the engine and then across the top of the infeed chute.

Slide the cable clamp over the cable and secure it to the top infeed chute panel just behind the curtain using the M4 X 12 mm button head screw and M4 lock nut.

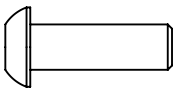
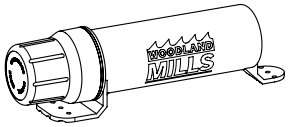
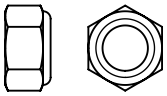
Ensure the infeed chute is swung fully open at the hinge to allow for easy access to the M4 button head screw.

Fully tighten the hardware.



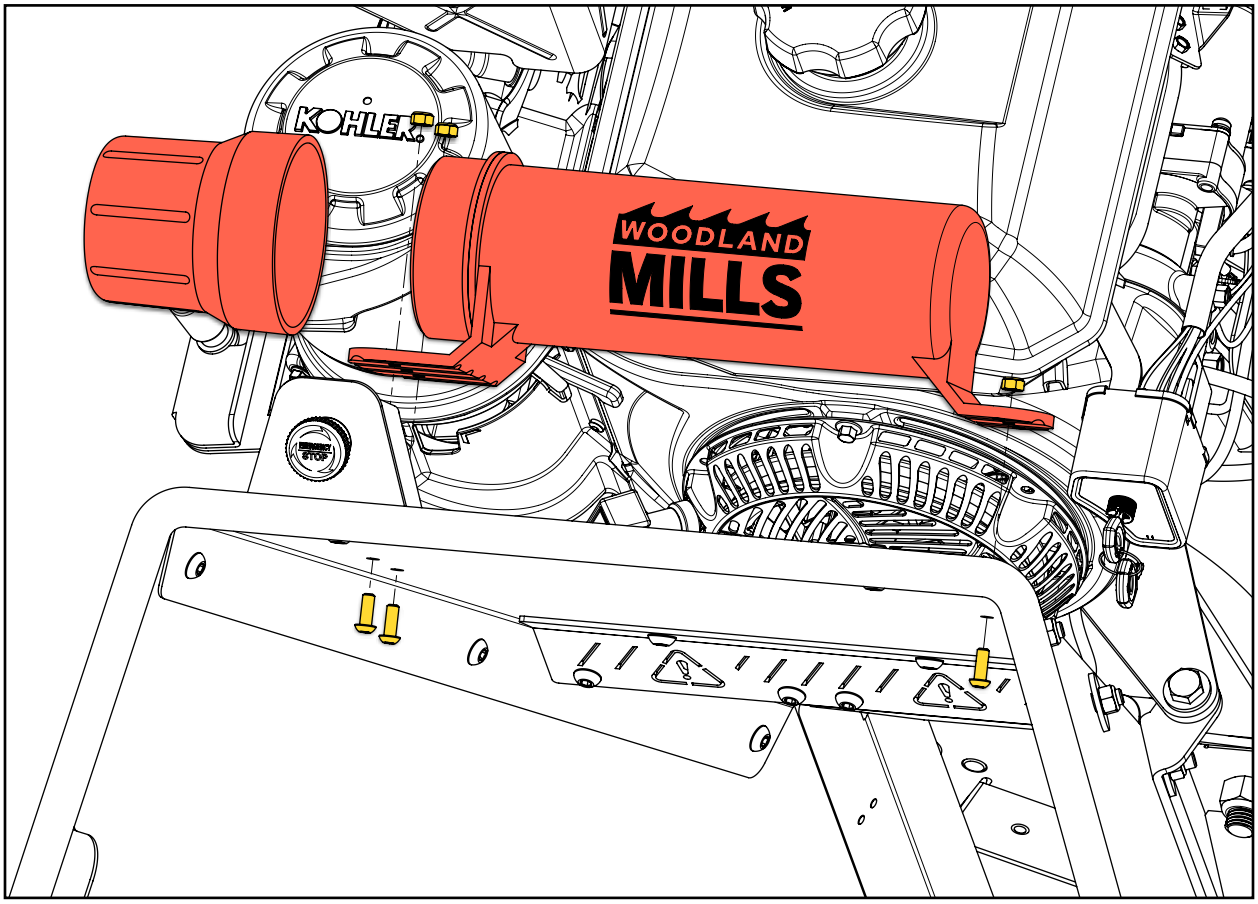
H. MANUAL TUBE

Mount the manual tube to the top infeed chute panel using the hardware and components listed in the table below.

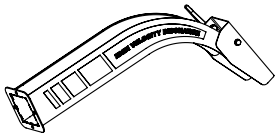
3x	M6 X 16 mm Button Head Screw		1x	Manual Tube	
3x	M6 Lock Nut				

Ensure the emergency stop cable is routed *beneath* the manual tube prior to assembly.

Fasten the manual tube to the top infeed chute panel using three (3) M6 X 16 mm button head screws and three (3) M6 lock nuts. Fully tighten the hardware.

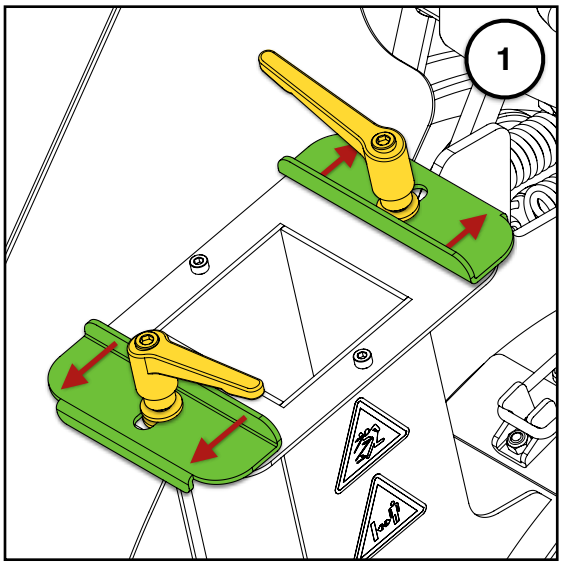


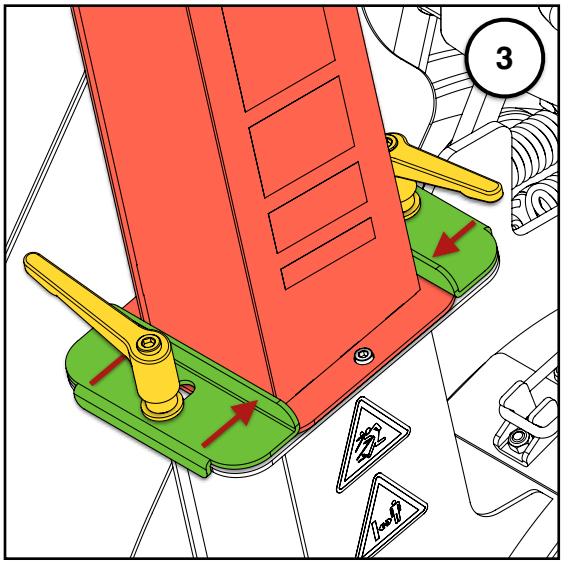
4. DISCHARGE CHUTE

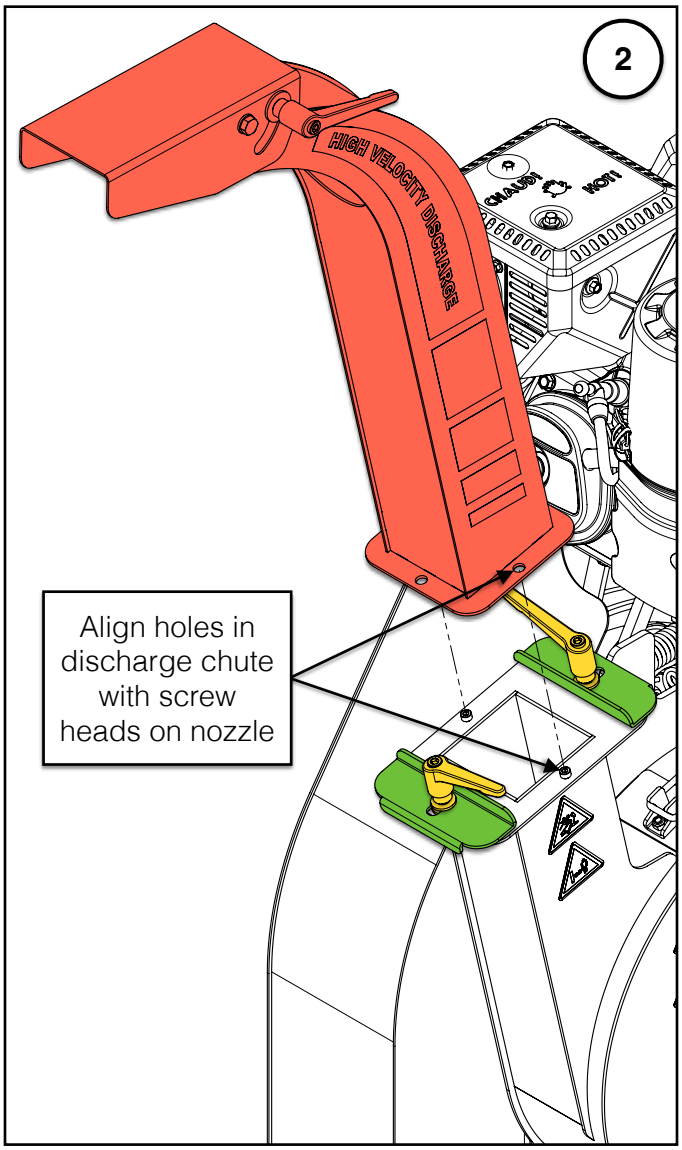
1x	Discharge Chute Assembly	

To assemble the discharge chute to the side housing:

1. Loosen both handles and spread the retainers apart.
2. Install the discharge chute assembly onto the nozzle, ensuring the cap screw heads align with the holes in the chute flange.
3. Push the retainers in as far as they will go and tighten both handles.



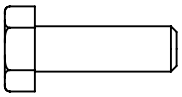
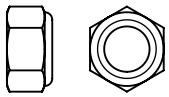
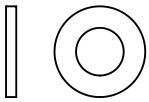
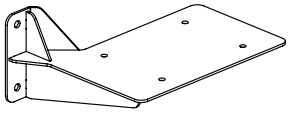




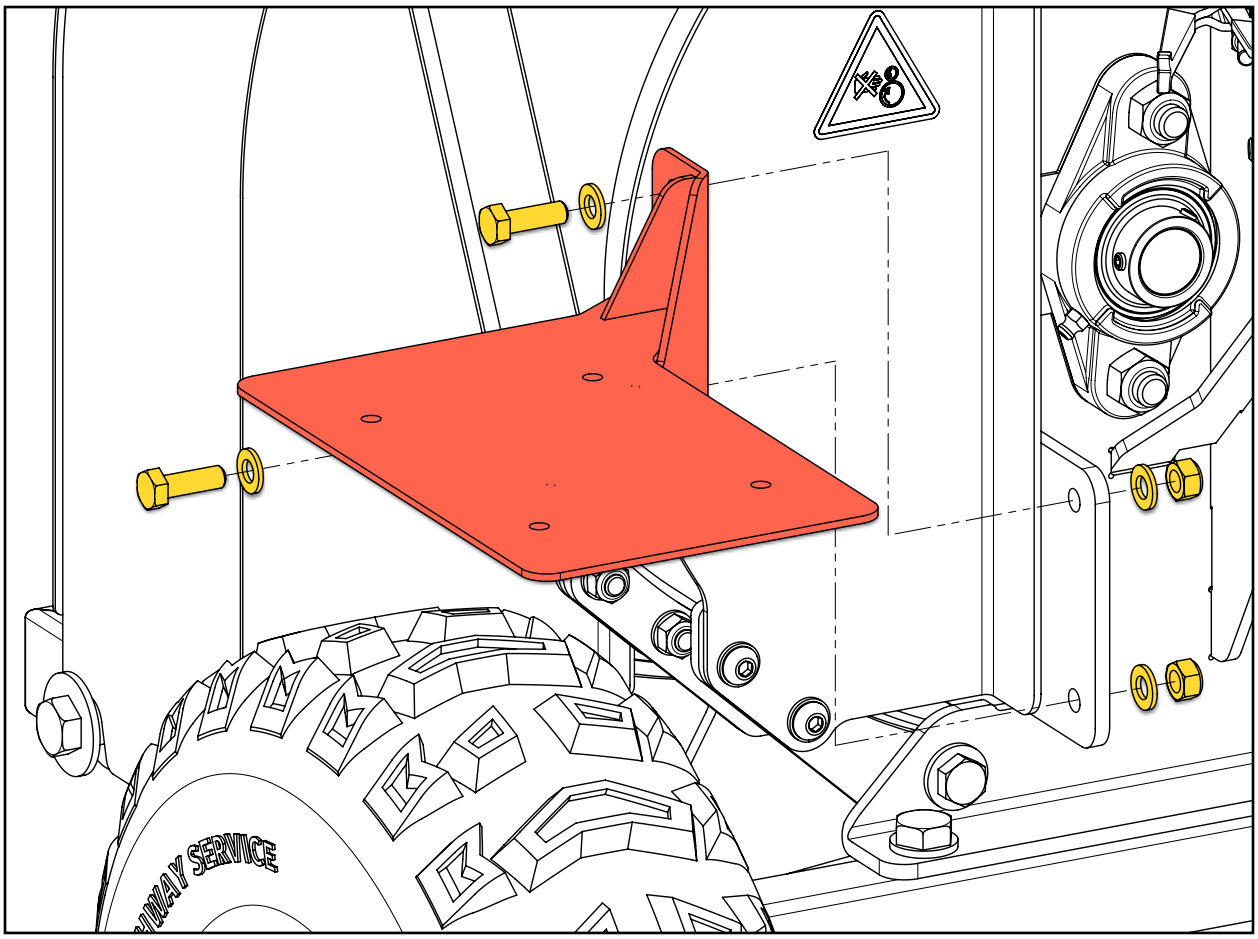
5. BATTERY

A. BATTERY TRAY

Assemble the battery tray to the flywheel housing using the hardware and components listed in the table below.

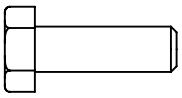
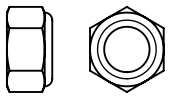
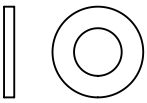
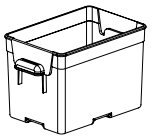
2x	M8 X 25 mm Hex Bolt		2x	M8 Lock Nut	
4x	M8 Flat Washer		1x	Battery Tray	

Assemble the battery tray to the flywheel housing using two (2) M8 X 25 mm hex bolts, four (4) M8 flat washers, and two (2) M8 lock nuts. Fully tighten the hardware.

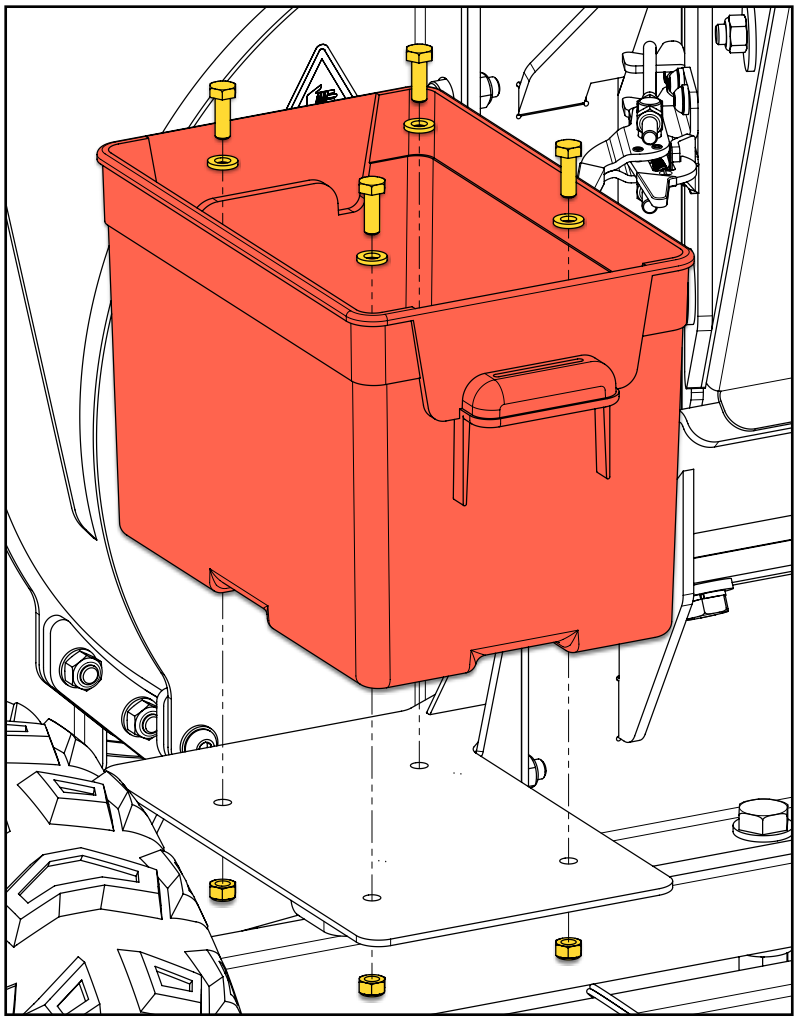


B. BATTERY BOX (BOTTOM)

Assemble the battery box bottom to the battery tray using the hardware and components listed in the table below.

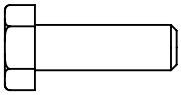
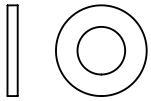
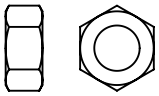
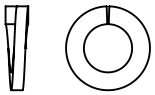
4x	M6 X 18 mm Hex Bolt		4x	M6 Lock Nut	
4x	M6 Flat Washer		1x	Battery Box Bottom	

Assemble the battery box bottom to the battery tray using four (4) M6 X 18 mm hex bolts, four (4) M6 flat washers, and four (4) M6 lock nuts. Fully tighten the hardware

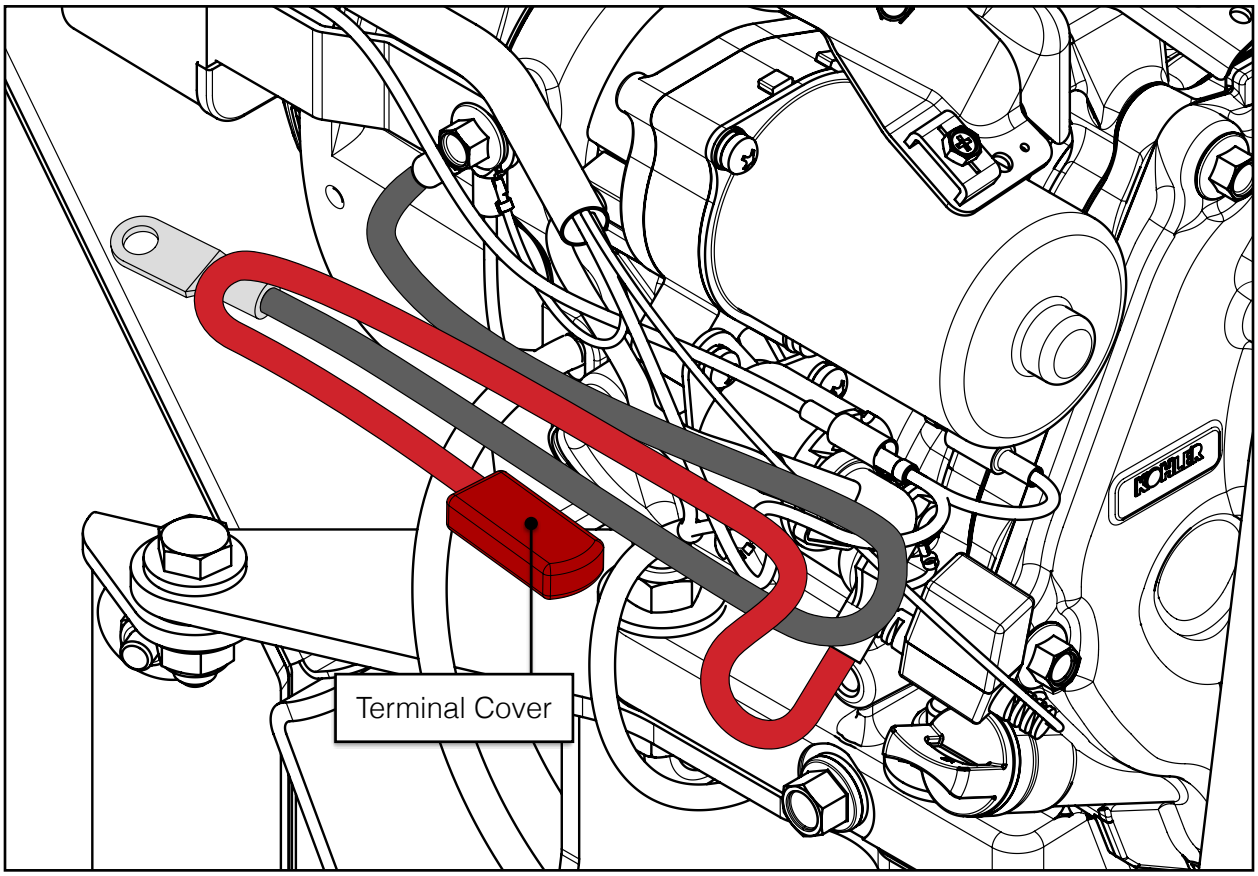


C. BATTERY CONNECTIONS

With the hardware listed below, connect the battery cables to a battery.

2x	M8 X 20 mm Hex Bolt		4x	M8 Flat Washer	
2x	M8 Hex Nut		2x	M8 Lock Washer	

The wood chipper ships with one end of the positive (red) battery cable and one end of the negative (black) cable already connected to the engine. The loose ends are zip-tied together on the left side of the engine.



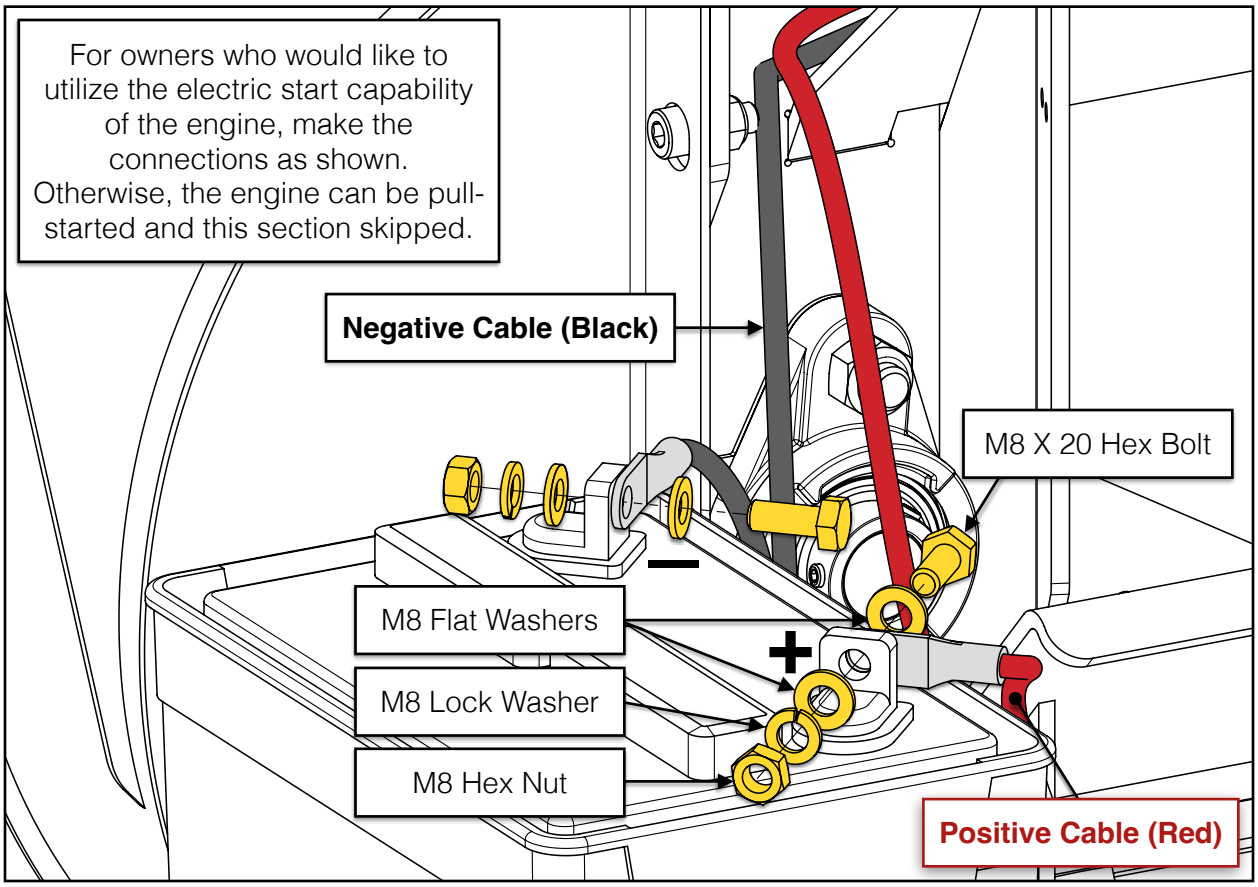
The positive cable (red) ships with a cover on the terminal. If the wood chipper will be set up to use only the recoil start (i.e. the electric start will not be utilized), keep the cover on the terminal. However, if the electric start *will* be utilized, remove the cover and proceed with the remainder of the battery installation.

The customer is required to purchase their own battery that meets the following specifications:

Size	Voltage	Cold Cranking Amps
U1 (20 L x 13 W x 18 H cm) (7-⅞ L x 5-⅛ W x 7-⅛ H in)	**12 V**	**250** Min (**300+** Recommended)

Connect the black battery cable to the negative battery terminal and the red battery cable to the positive battery terminal using M8 X 20 bolts, flat washers, split-lock washers, and hex nuts.

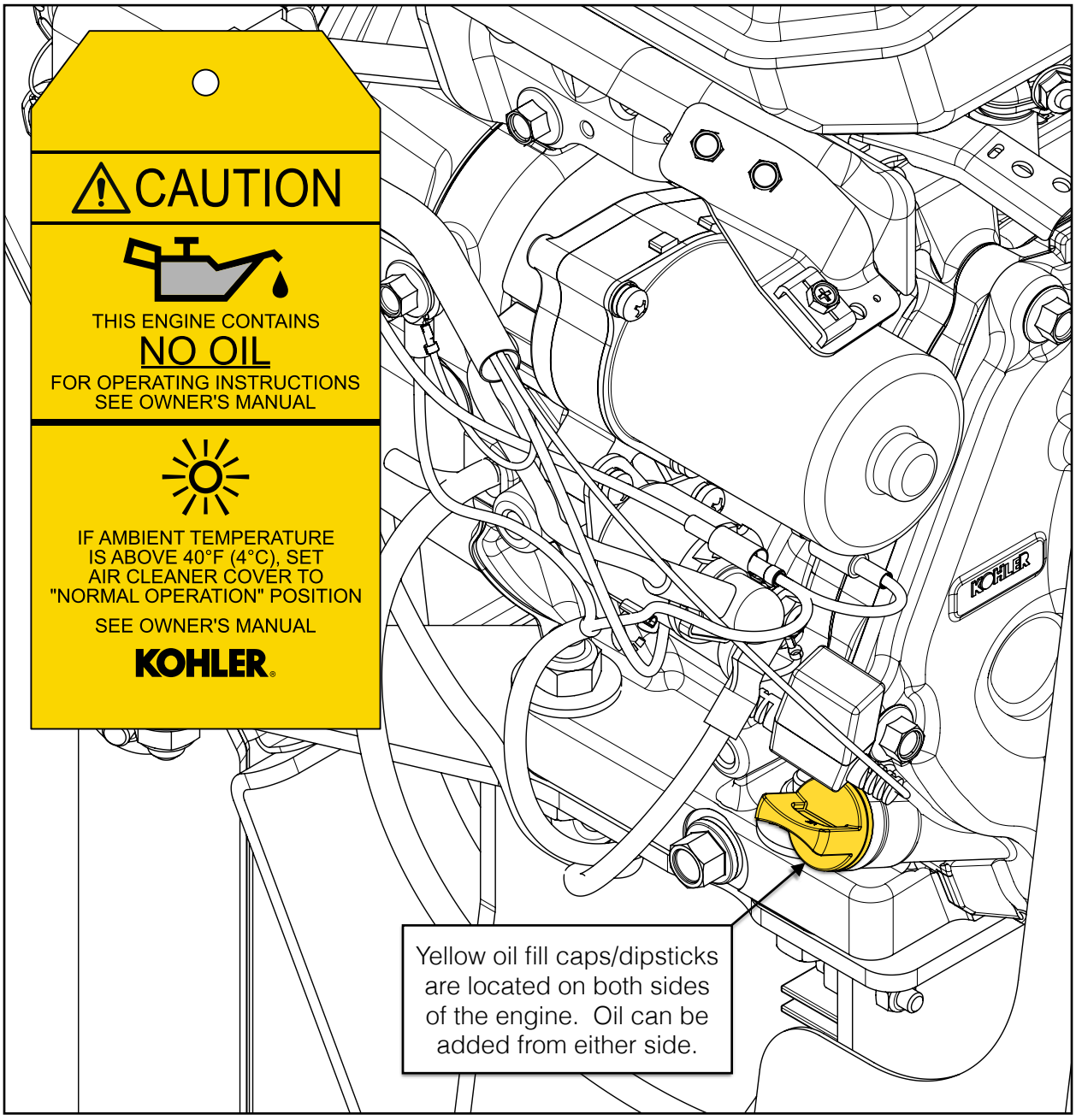
****Double-check the *battery terminal* positions as the negative and positive terminals may be the reverse of what is shown in the example below. The connection points on the engine are the same regardless of the battery's orientation.****



Once the connections are made, set the battery box lid on top ensuring the battery cables route down and out the openings in the side. Use the included strap to secure the top and bottom halves of the battery box.

6. ENGINE OIL

The engine does not contain any gasoline or engine oil when it is shipped and will need to be added before the machine is started. Furthermore, the engine is equipped with an oil alert system, meaning that if the crankcase oil level is low or empty, the power is cut to the spark plug and it will not start.



****Refer to the engine manual for instructions on adding and changing the engine oil.****

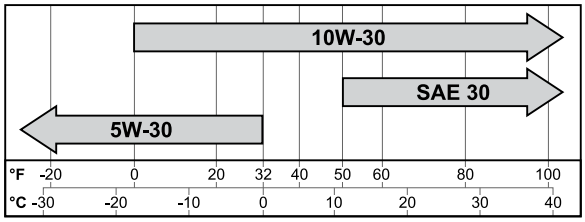
OPERATION

1. PRE-START UP CHECKLIST

1. Fill the engine with high octane (low/no ethanol) premium gas only. Never run low grade gasoline in the engine.
2. Fill the engine with oil using the table below based on your engine model and operating air temperatures:

Engine	Model	Horsepower	Capacity	
			US Quarts (qt)	Litres (L)
Kohler	CH440	14 hp	1.16	1.1

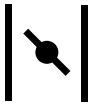
****Note: Engines are *not* equipped with a clutch reduction system, therefore, reference to this in the Kohler manual can be ignored. The engine is also equipped with an oil alert system that will prevent the engine from starting if the oil level is low.****



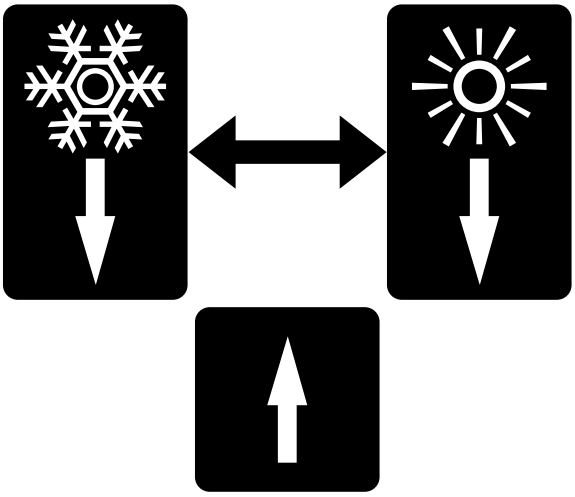
3. Ensure the bed plate gap is set to within 1/16—1/8 in [1.5—3 mm] between it and the blades. Refer to section, ***SETTING THE BED PLATE GAP***, for detailed instructions.
4. The wood chipper has two (2) bearings fitted with Zerk fittings for greasing. Refer to section, ***GREASING***, for detailed maintenance instructions.
5. Check the bolts on each of the three flywheel blades ensuring the torque is set to 40 ft•lb [54 N•m].
6. To start the engine and begin chipping: twist the **Emergency Stop** button to ensure it is live, turn the choke and gas on, and then turn the key. Once the engine starts, turn the choke off slowly and let the engine warm up at idle speed for 1 minute. See section, ***STARTING THE ENGINE***, for detailed instructions.
7. With the engine running, test the **Emergency Stop** button to ensure it is working properly. Twist the button to reset it before restarting the engine. See section, ***EMERGENCY STOP***, for detailed instructions.
8. After the first hour of use, inspect the drive belt tension and adjust if required. Refer to section, ***ADJUSTING THE BELTS' TENSION***, for detailed tensioning instructions.

2. ENGINE NOMENCLATURE

SYMBOLS

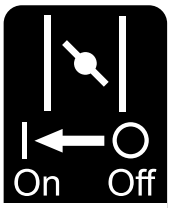
Symbol	Description	Symbol	Description
	Fuel		Off
	Choke		On
	Hare (Maximum Throttle)		Sun (40°F [4°C] or warmer ambient air temperature)
	Tortoise (Minimum Throttle)		Snowflake (cooler than 40°F [4°C] ambient air temperature)

LABELS



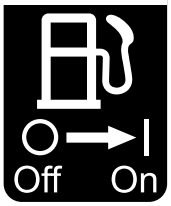
AIR CLEANER COVER

Rotate air cleaner cover 180° until either the sun or snowflake arrows align with the lower arrow based on the ambient air temperature



CHOKE

Applies the choke for cold starts



FUEL

Turns the fuel to the engine on/off

THROTTLE

Indicates the lever position between idle (tortoise) and full throttle (hare)

3. STARTING THE ENGINE

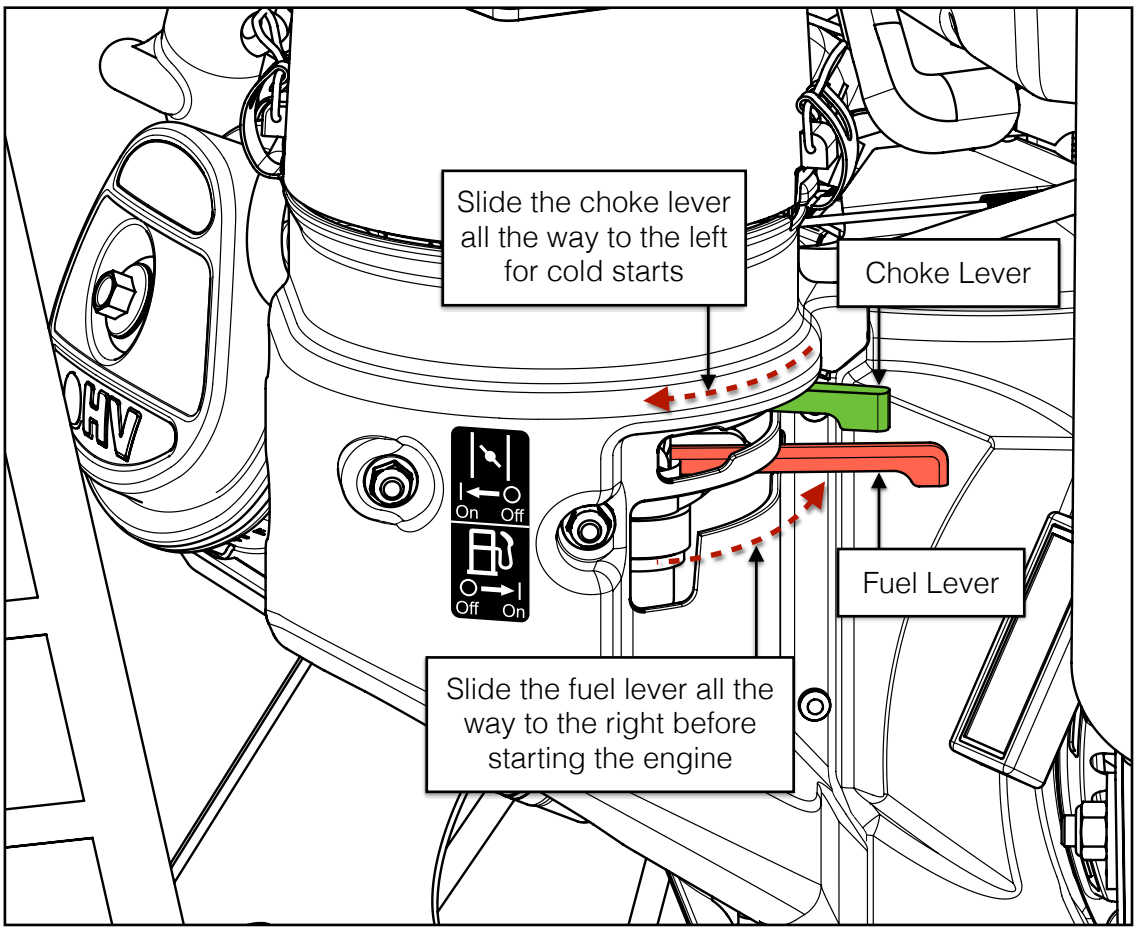
The following steps in the sub-section below (*a.* through *d.*) are a summarization of the steps necessary to safely and properly operate the wood chipper. Please follow the references to other sections that provide further detail into the step being performed.

a. Check for any clogged debris from the previous chipping session before starting. If any is found, disconnect the spark plug before clearing the debris.

b. Rotate the discharge chute towards a safe direction and lock it in place. Adjust the chip deflector to the desired position based on how far the chips should be thrown.

c. Move the **CHOKE** lever to the left until it stops.

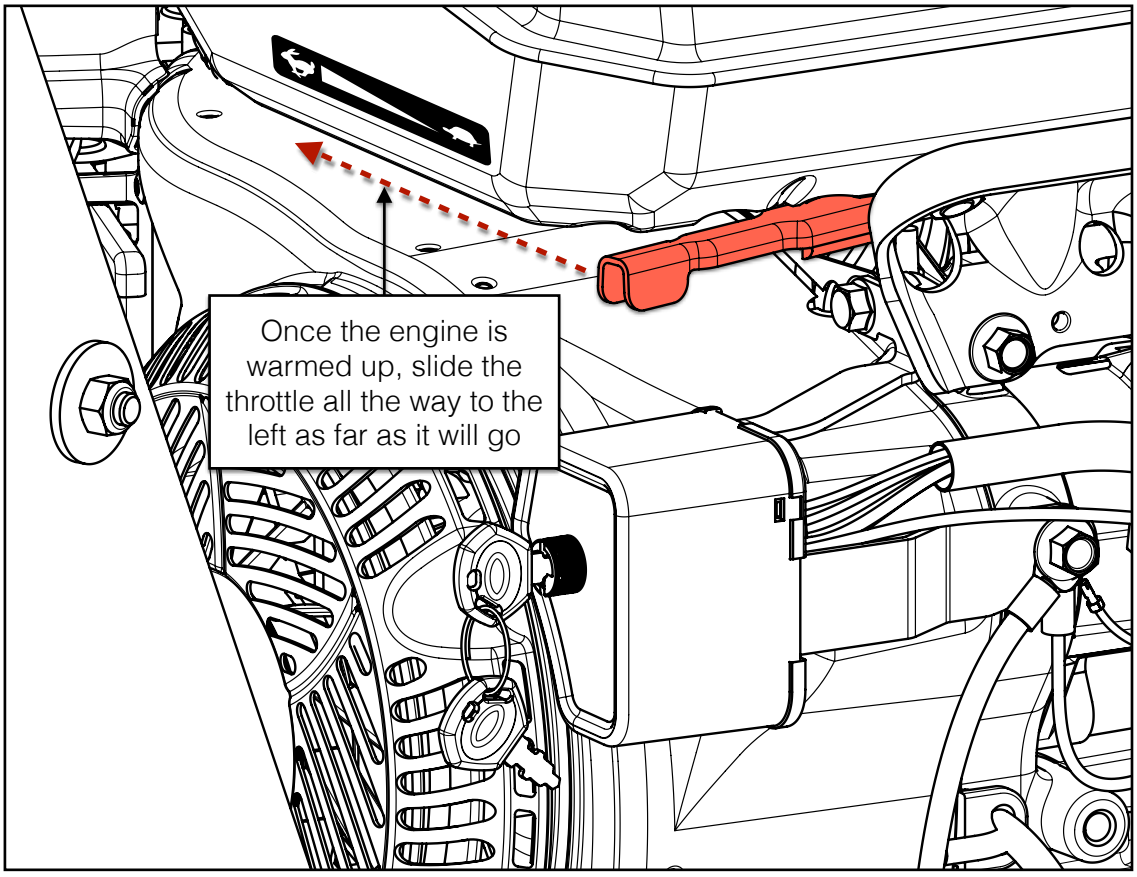
d. Move the **FUEL** lever to the right until it stops.



e. Turn the key to start the engine. If the engine won't start, move the throttle mid way between the tortoise and the hare and try again.

f. With the engine started, turn the choke off slowly and push the throttle back to the "tortoise" position. Let the engine idle for approximately 1 minute.

g. With the engine sufficiently warmed up, move the throttle lever left, all the way to the "hare" position.



h. With the wood chipper now running, 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. See the section, ***CHIPPING***, for detailed instructions.

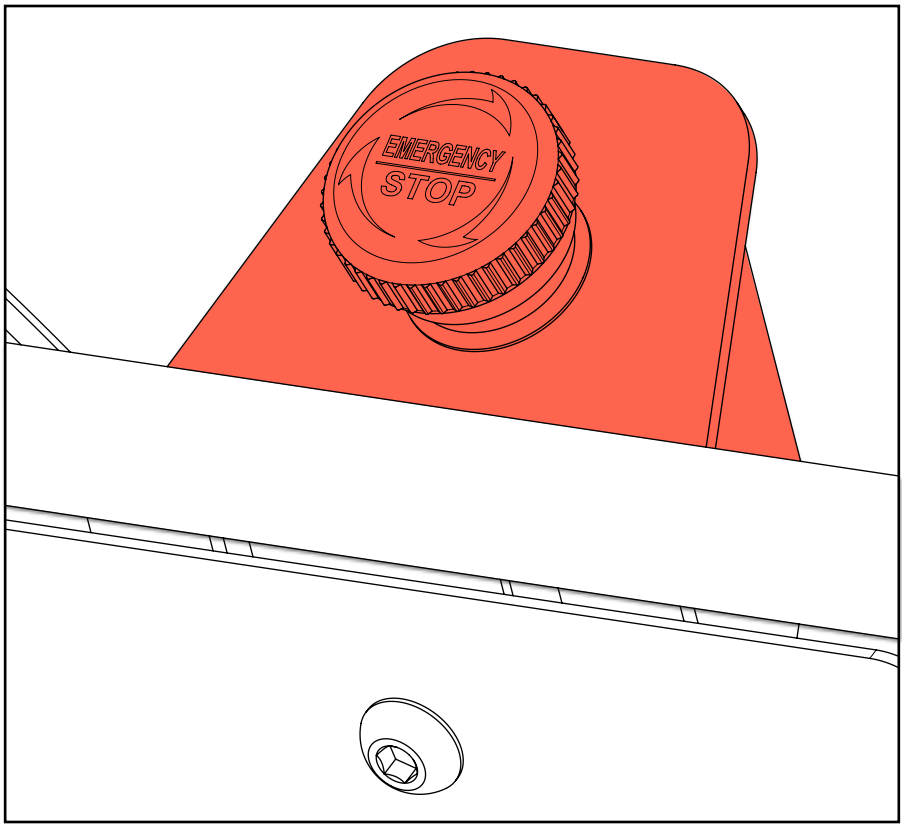
i. When finished, move the throttle all the way to the right ("tortoise" position) and turn off the key.

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.

4. EMERGENCY STOP

The emergency stop is located on the upper-left corner of the infeed chute. In an emergency situation, hit the red button and the engine will turn off immediately.

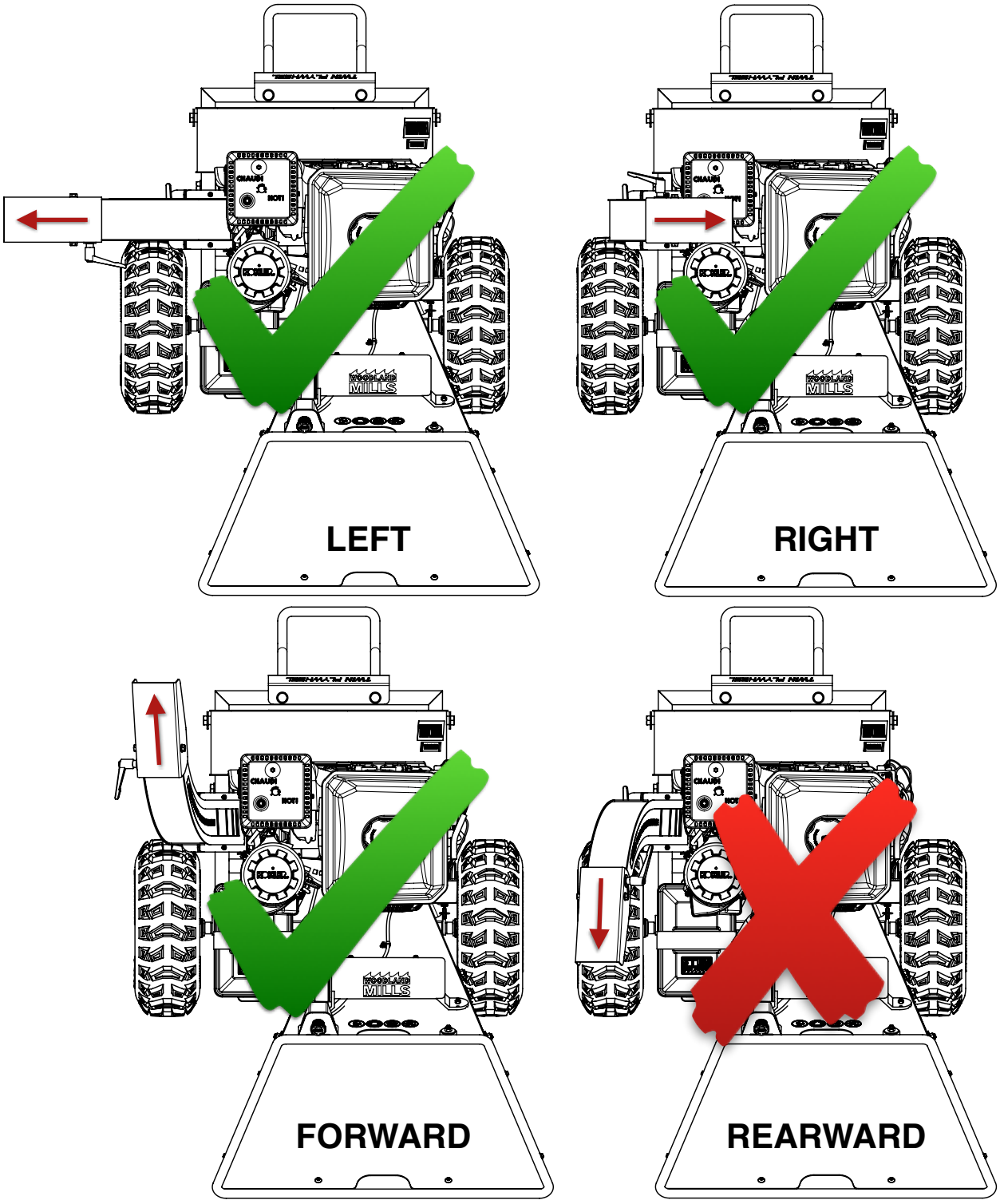


To reset the switch, twist the red button in the direction indicated by the arrows on its face until it "pops" back up. Ensure the engine throttle is set to "tortoise" before restarting.

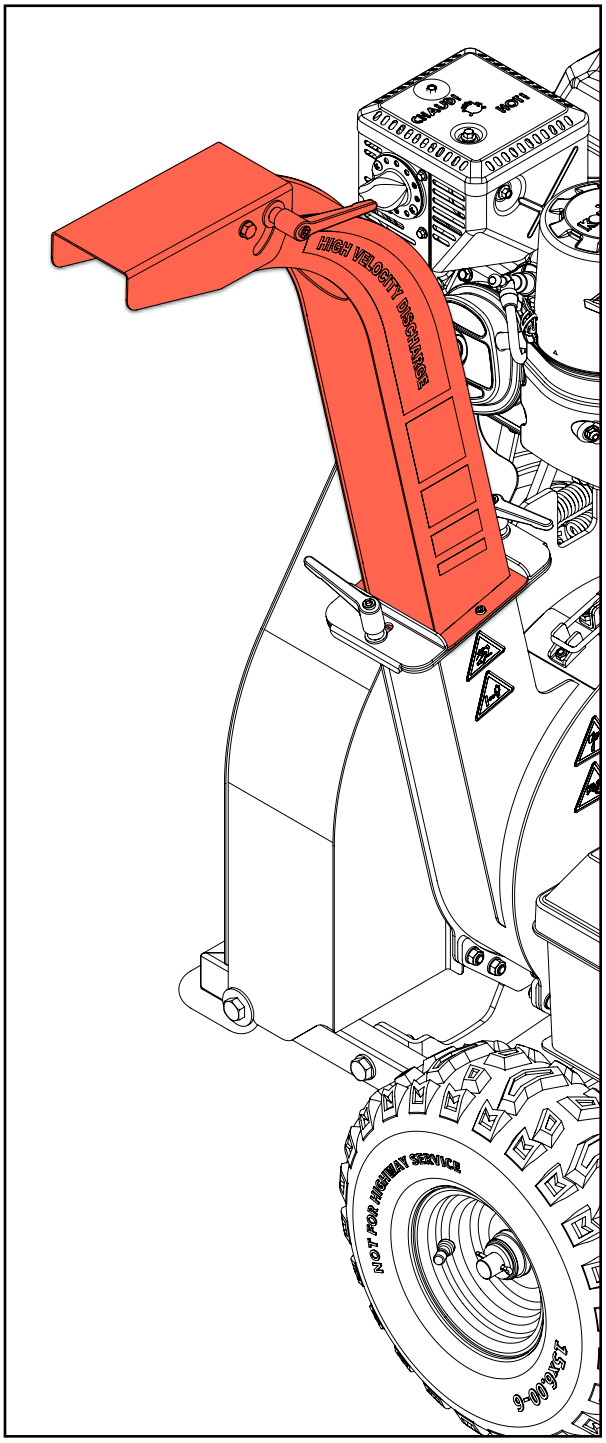
****The emergency stop should never be used to turn off the engine during normal operation. Always throttle down and then turn off the key.****

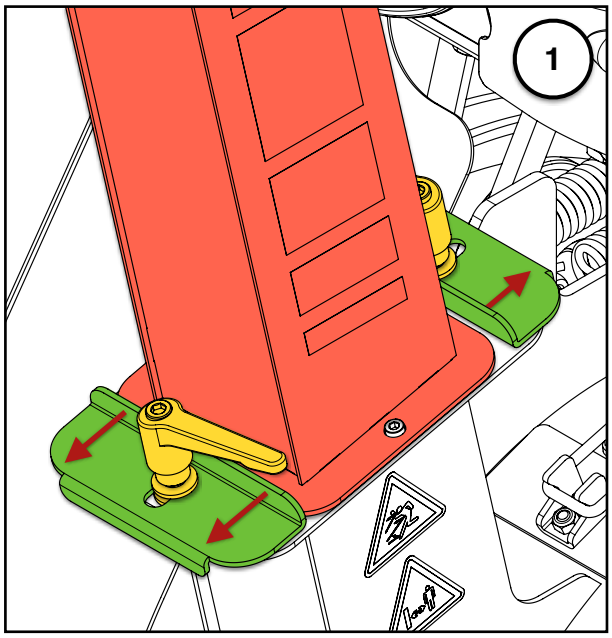
5. DISCHARGE CHUTE

The discharge chute can be rotated in 90° increments, pointing left, right, and forward. The chute should ***never be pointed rearward*** or the chips could be thrown at the operator.

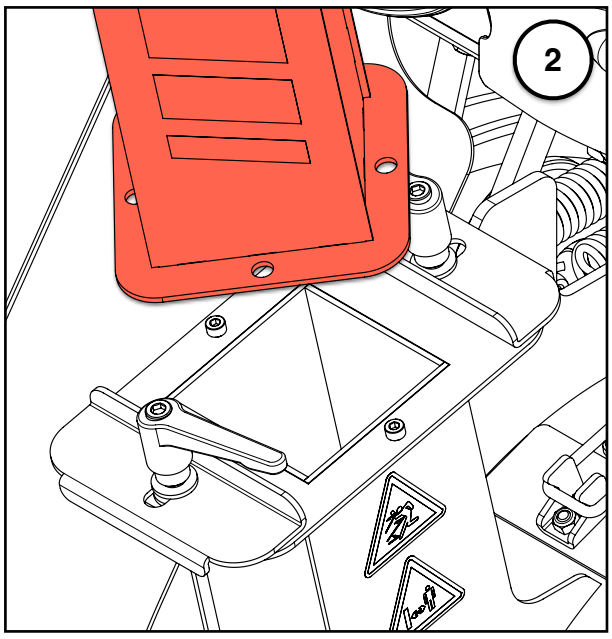


To rotate the discharge chute in an alternate direction, follow these steps:

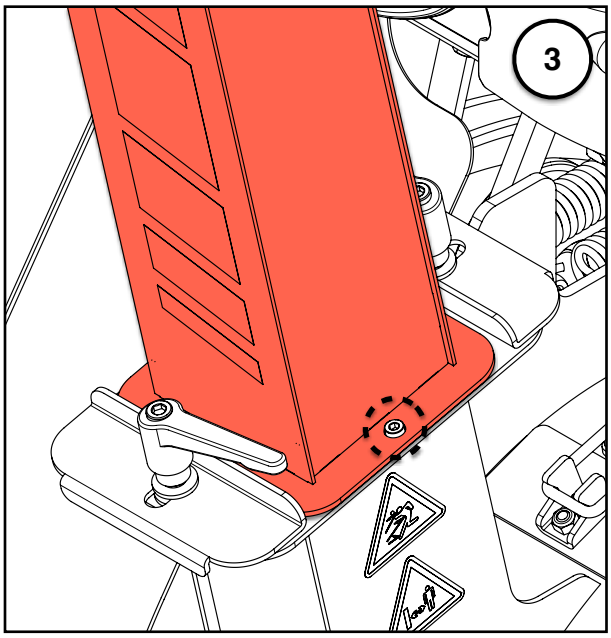




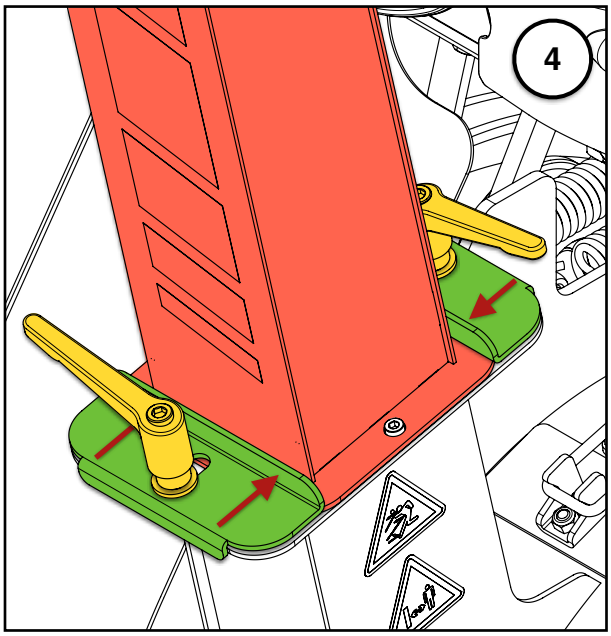
1. LOOSEN BOTH HANDLES AND SPREAD THE RETAINERS APART.



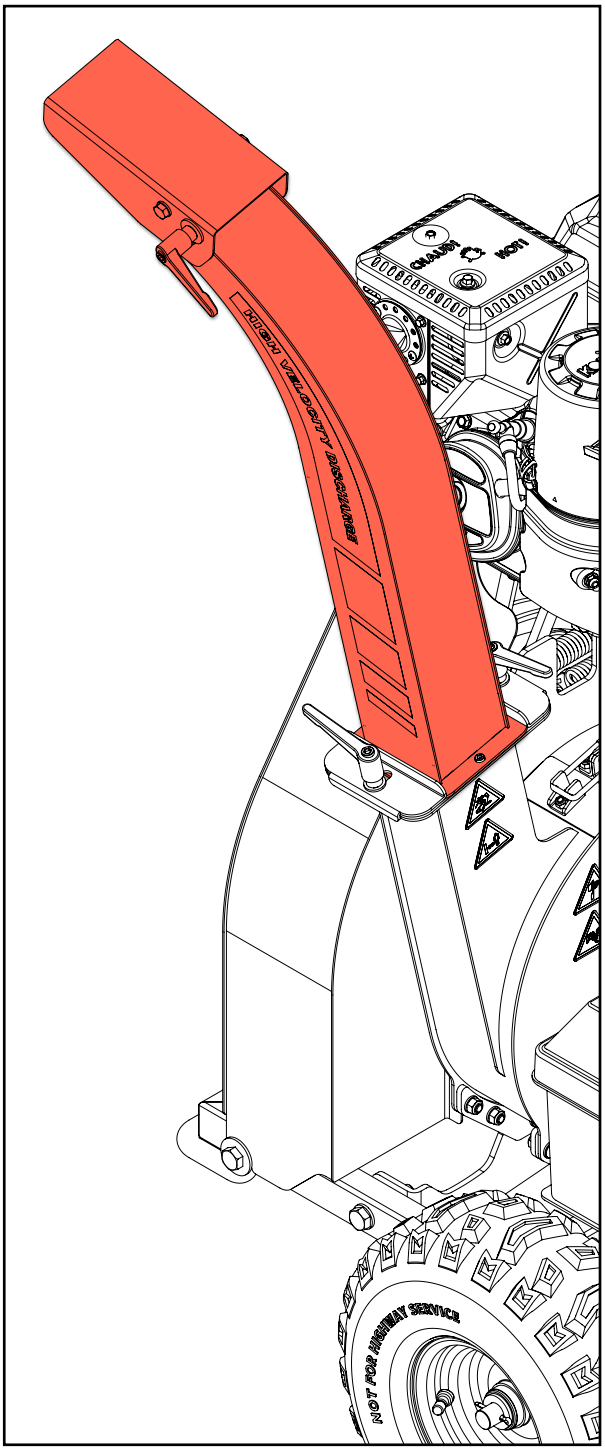
2. LIFT THE CHUTE OFF THE NOZZLE AND ROTATE IT IN THE DESIRED DIRECTION.



3. ALIGN HOLES IN CHUTE FLANGE WITH CAP SCREWS IN NOZZLE.

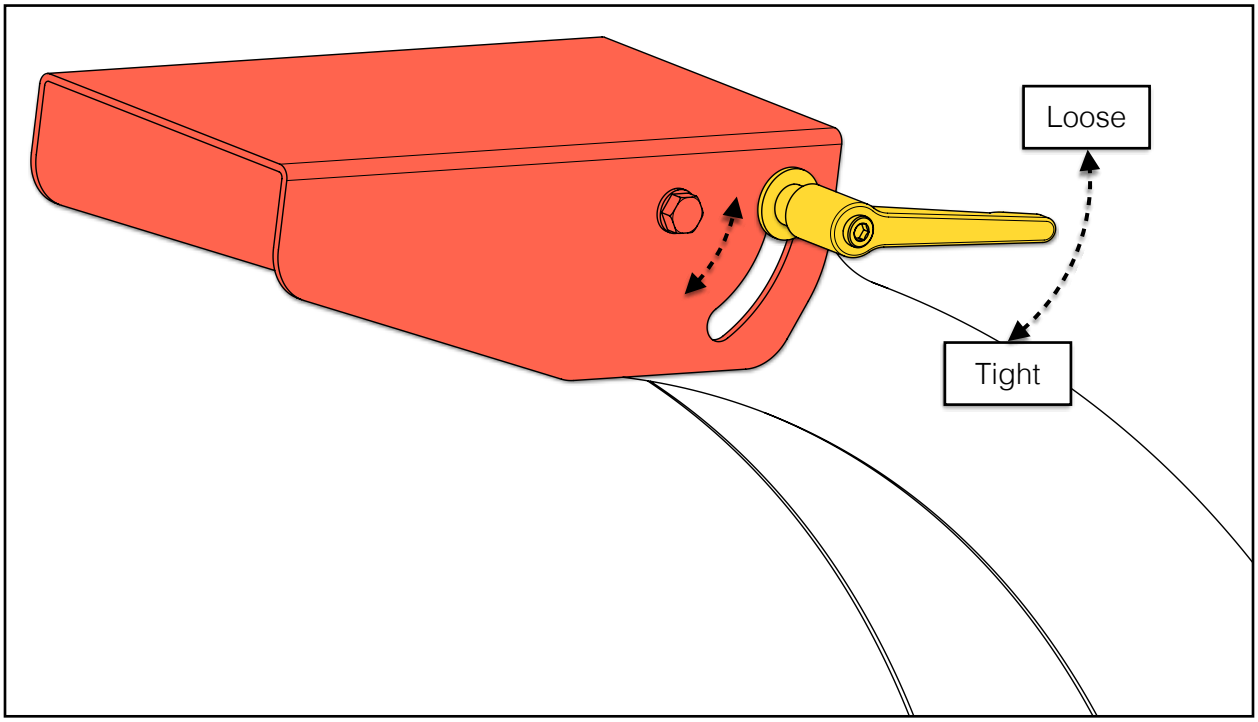


4. PUSH THE RETAINERS INWARD AND TIGHTEN THE HANDLES



DEFLECTOR

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.



6. 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 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 4 in [102 mm] in diameter, although certain hardwood species may require reducing the diameter by 1 in [25 mm]. 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 while standing to the side of the infeed chute rather than from the front. Step aside to avoid being hit by brush moving into the wood chipper.
- When chipping larger diameter material, feed the material down the *right side* of the infeed chute. The shearing action between the blades and bed plate will naturally pull the material to the right and this will prevent heavier material from unexpectedly shifting while chipping.
- 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 blades. Once the blades make 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 section, ***BLADE SHARPENING***, for further instructions.

7. STOPPING

Do not leave the wood chipper unattended or attempt any inspection/service unless the spark plug cap is disconnected from the engine. Always allow time for the wood chipper to come to a complete stop. To stop the wood chipper:

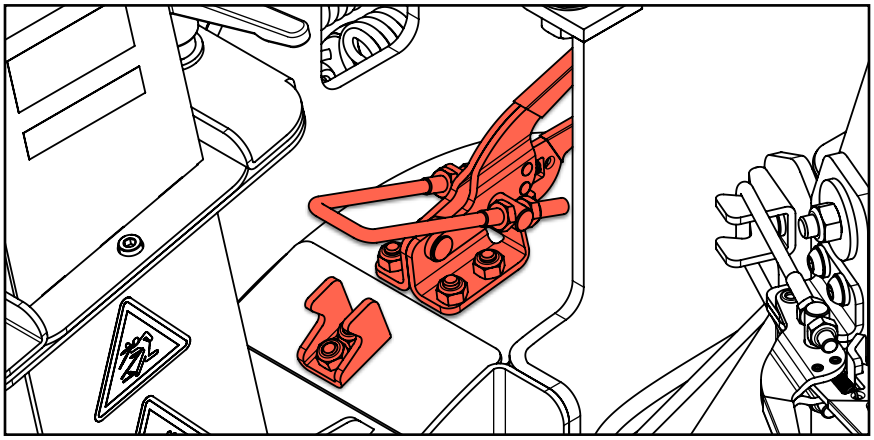
1. Turn the key off on the engine (if the electric start is enabled).
2. Turn the **FUEL** lever to "OFF" (if the recoil start is being utilized).

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

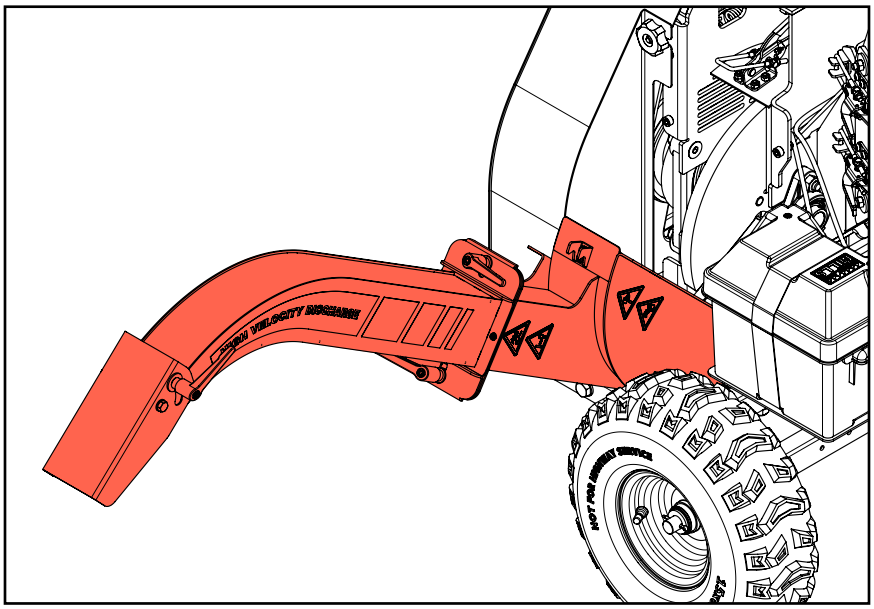
MAINTENANCE
REPLACING BLADES

Follow these steps to replace the blades. The TFG55 wood chipper uses three (3) reversible hardened steel blades. Each blade is 5-½ X 2-¼ X .275 in [140.5 X 57 X 7 mm] in size.

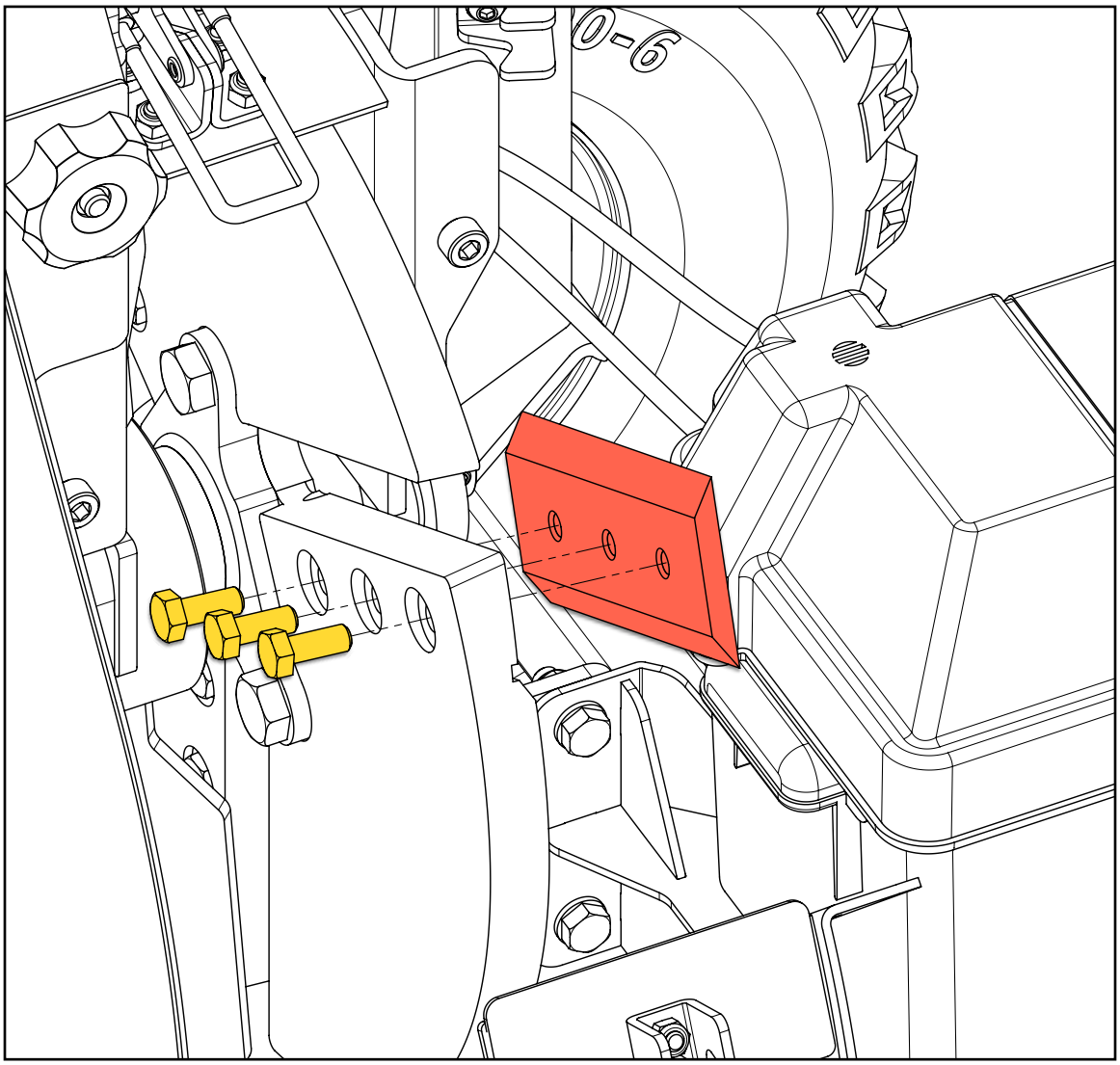
1. Remove the spark plug cap on the engine for safety.
2. Wear protective gloves when handling the blades as they can be very sharp, even if they are in need of replacing or sharpening.
3. Open the latch securing the side housing with the discharge chute. Hold the housing while opening the latch or the housing could fall open and damage the machine or possibly cause injury.



4. Lower the side housing all the way down until it comes to rest.



5. Remove the three (3) M8 X 20 mm hex head bolts that fasten the blade to the primary flywheel using a socket/wrench.

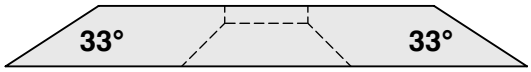


6. Repeat Steps 3 & 4 above to remove the remaining two blades. If this is the first time the blades have been removed following either the original wood chipper purchase or a recent blade sharpening, the blades can be reversed to utilize the other cutting edge. Or, the entire blade can be removed and sharpened or it can be replaced with a new blade. Torque the M8 X 20 mm hex head bolts to 20-24 ft•lb [27-32 N•m] when installing blades. Refer to section, ***BLADE SHARPENING*** for blade sharpening instructions
7. Once the blades have been reversed or new blades installed, proceed to section, ***SETTING THE BED PLATE GAP***, to properly set the spacing between the blades and bed plate.

BLADE SHARPENING

The wood chipper blades will dull, making chipping difficult and cause the engine to labour. It is recommended to sharpen the blades every 25-50 hours of operation. The TFG55 GAS wood chipper uses three (3) 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.



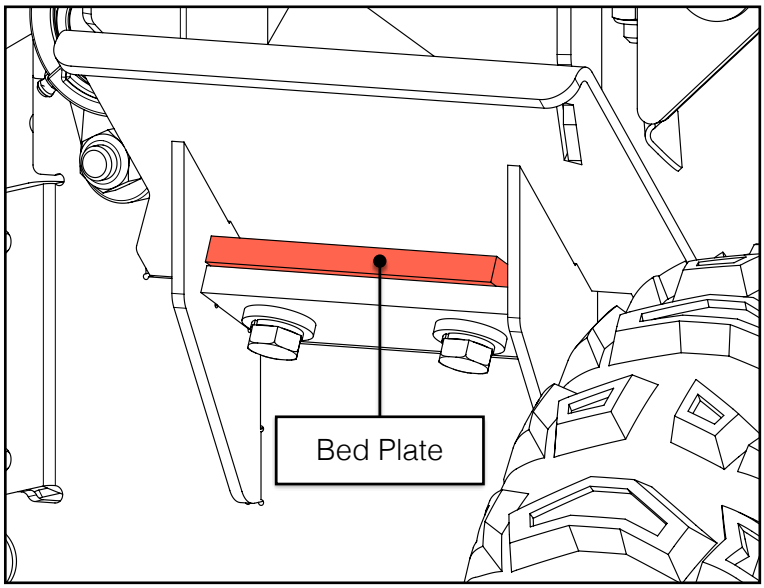
Blade Profile

3. Reinstall the sharpened blades on the primary flywheel and torque the M8 X 20 mm hex head bolts to 20-24 ft•lb [27-32 N•m].
4. Once the blades have been sharpened, proceed to the next section, ***SETTING THE BED PLATE GAP***, to properly set the spacing between the newly sharpened blades and the bed plate.

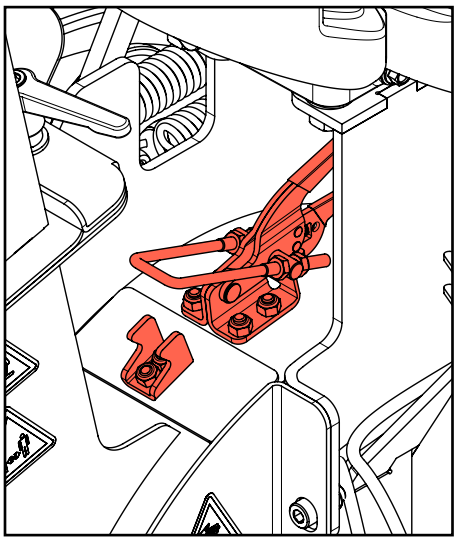
SETTING THE BED PLATE GAP

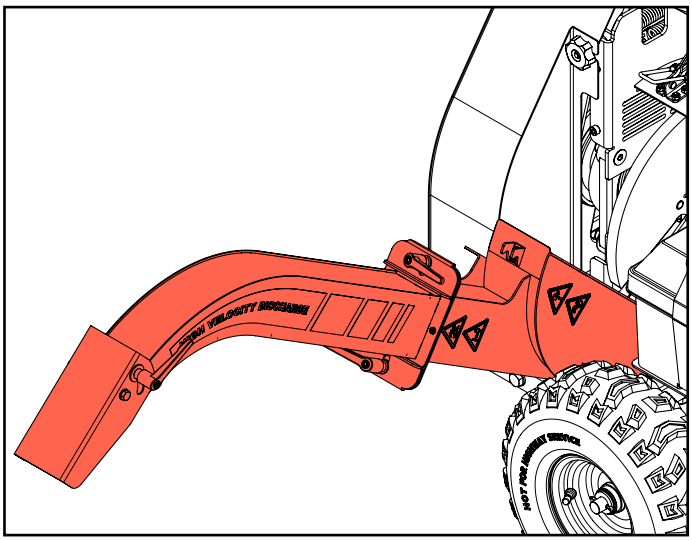
The bed plate (also known as the *anvil plate*) is located on the bottom of the flywheel housing. For ideal chipping performance, the gap between the bed plate and the blades should be set to 1/16-1/8 in [1.5-3 mm].

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

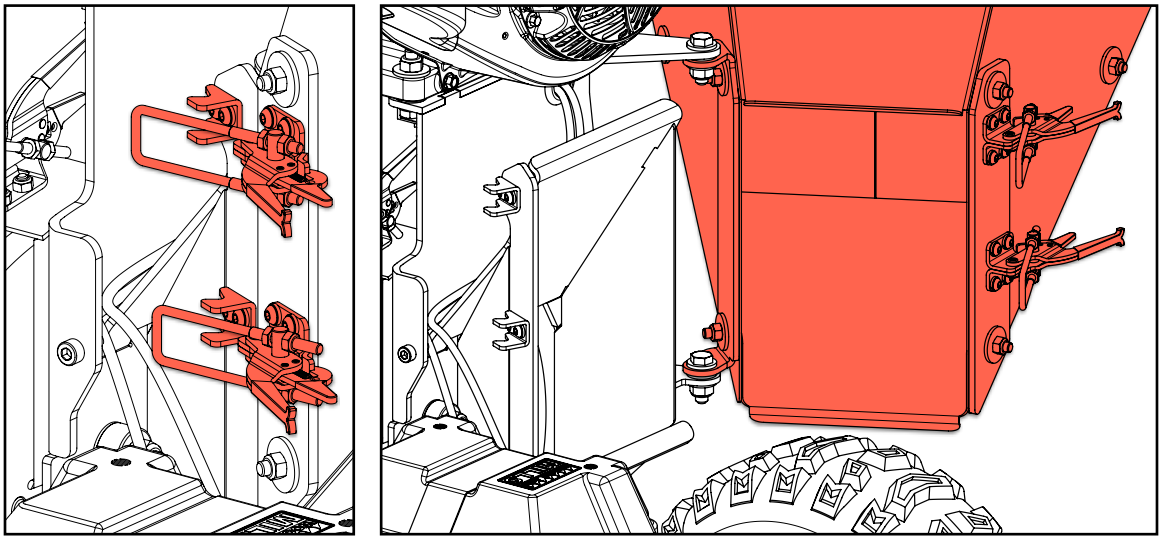


1. Remove the spark plug cap on the engine for safety.
2. Open the latch securing the side housing with the discharge chute and then lower the housing all the way down until it comes to rest.

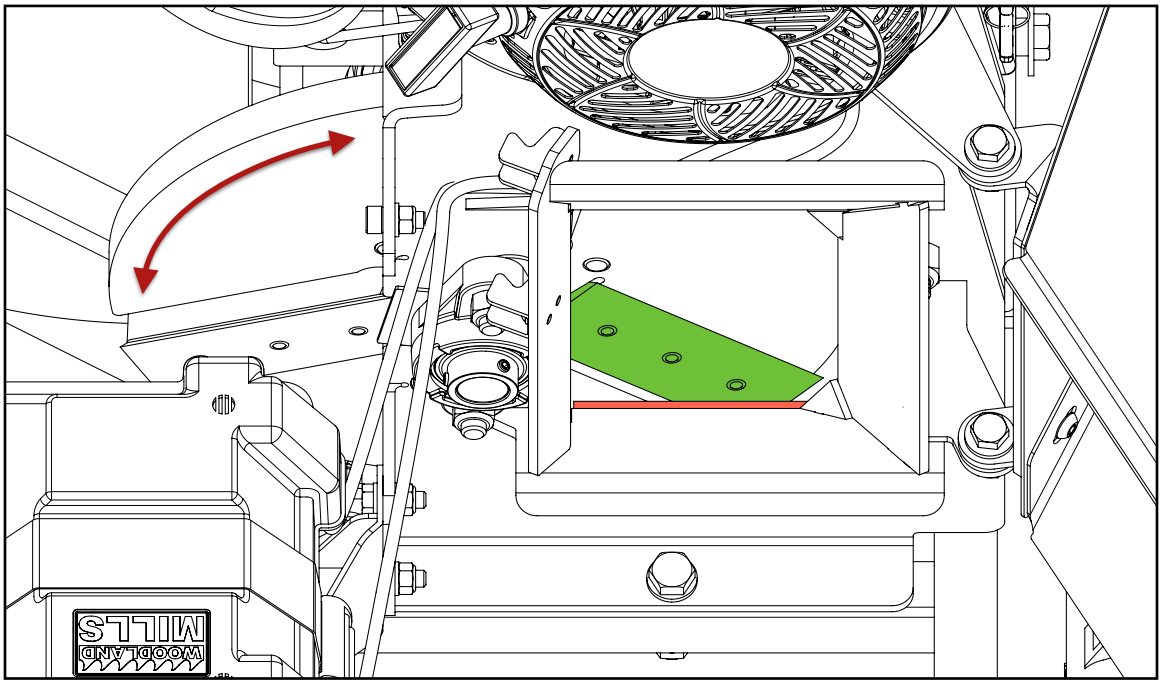




3. Open the two latches on the left side of the infeed chute and rotate the chute all the way to the right.

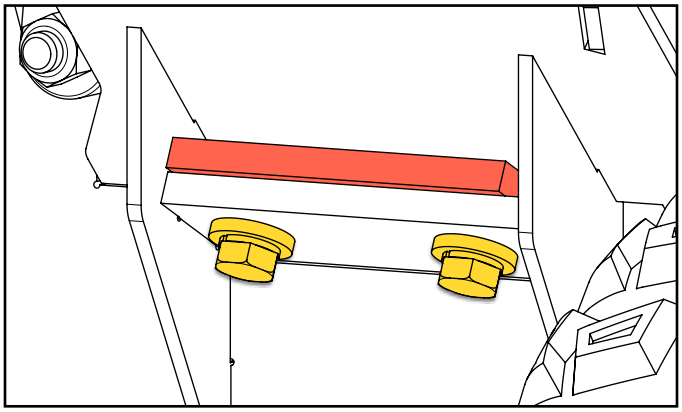


4. With the primary flywheel exposed, manually rotate it so that a blade lines up with the bed plate and note the gap between them. Verify that the gap is uniform horizontally from the right of the bed plate to the left. Use a flash light for better viewing if necessary.

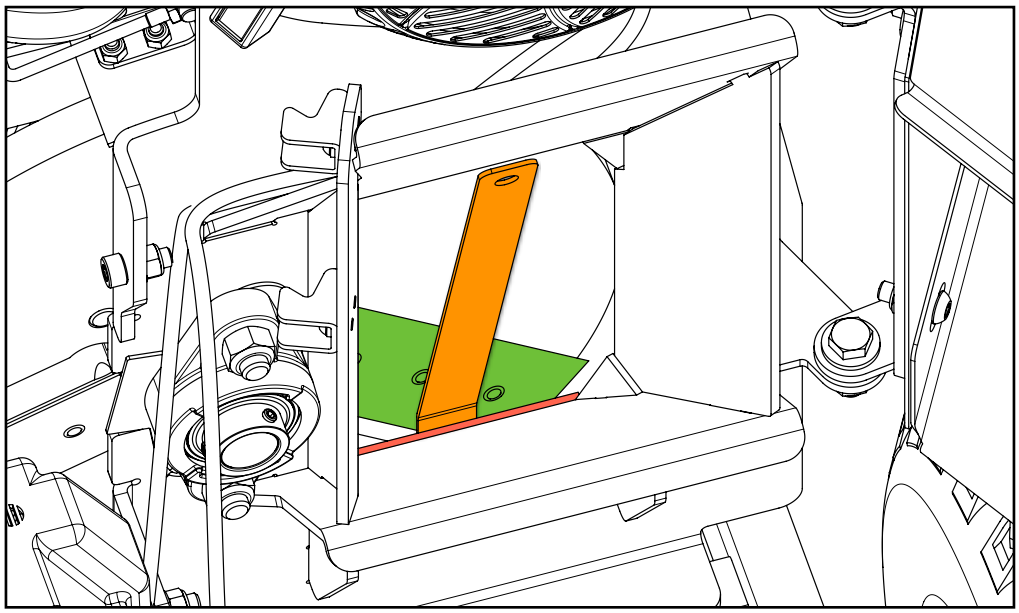


Continue to rotate the primary flywheel to check the remaining two blades relative to the bed plate, noting which blade is closest. Use the blade with the closest gap when setting the bed plate gap.

5. Loosen the two (2) M10 X 25 mm hex bolts securing the bed plate to the lower flywheel housing so the bed plate is free to slide in and out. This movement will increase or decrease the gap between the bed plate and the cutting edge of the blade.



Place the short bent end of the bed plate gap tool between the bed plate and the blade and then push the bed plate against the tool. Move the tool left-to-right along the bed plate's length to ensure the gap is uniform along the edge of the blade.



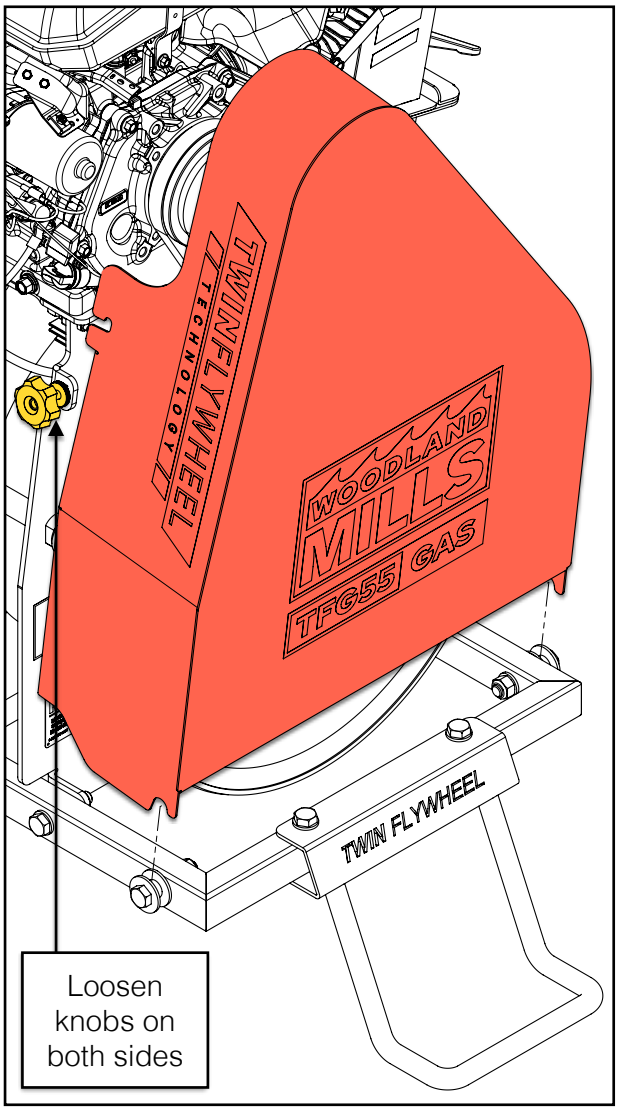
6. Snug the two (2) M10 X 25 mm bed plate hex bolts once the gap has been set correctly for the blade closest to the bed plate.
7. Rotate the primary flywheel by hand again and note the gap at each blade with the bed plate tool. Again, the gap should be no more than 1/8 in [3 mm] and no less than 1/16 in [1.5 mm] at each blade edge.
8. Once the gap is within tolerance for all the blades, torque the two (2) M10 X 25 mm bed plate hex bolts to 40 ft•lb [54 N•m].
9. Close the side housing and infeed chute and secure them with their respective latches.

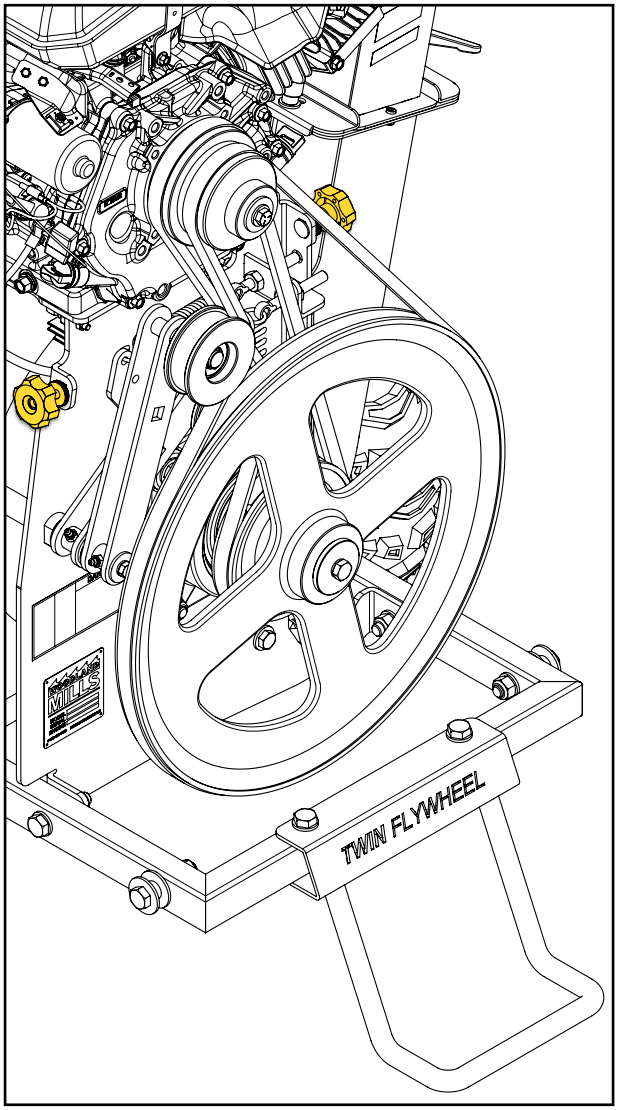
ADJUSTING THE BELTS' TENSION

REMOVING THE BELT GUARD

To gain access to the belts, the belt guard first needs to be removed. Loosen the two knobs on both sides of the guard and then pull the guard up & out on a slight angle.

Set the guard aside taking care not to damage/bend the locking tabs.

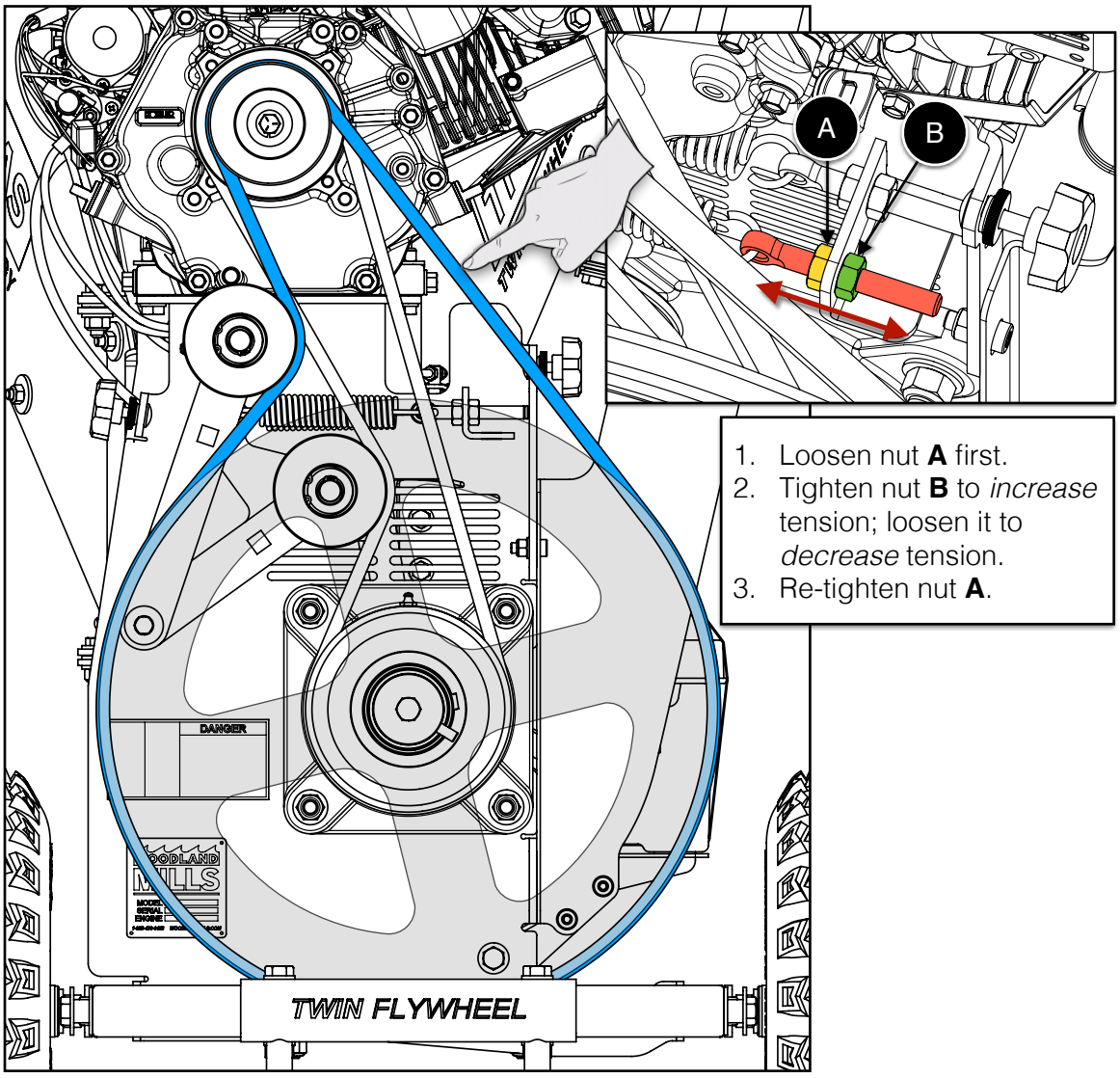




DRIVE BELT

The dive belt is the outermost belt. 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. Disconnect the spark plug cap on the engine.
2. Check the drive 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 drive belt requires more tension, the *outer* 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.

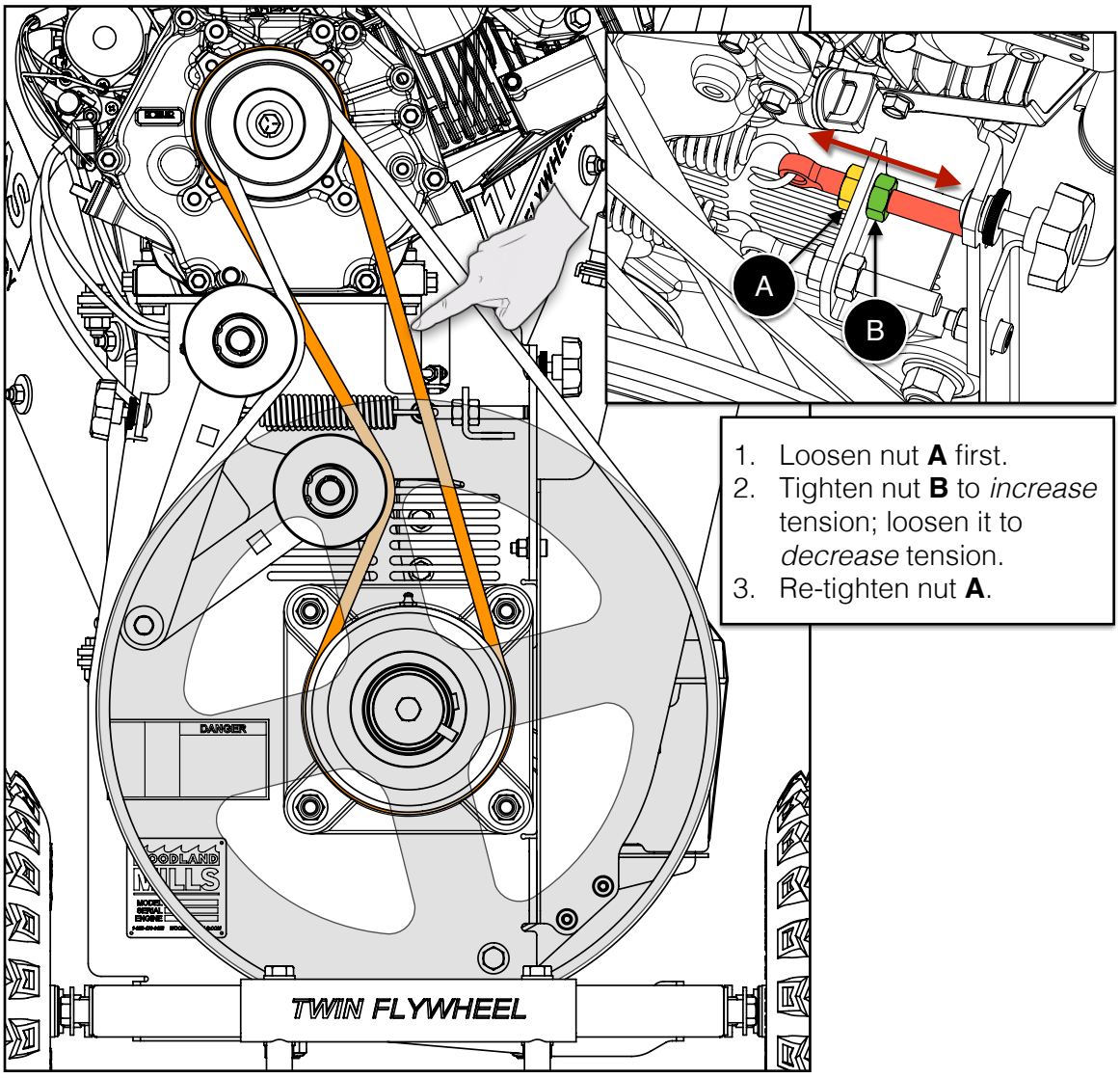


Adjusting Drive Belt Tension
[Large drive pulley translucent for clarity]

SECONDARY FLYWHEEL BELT

The secondary flywheel belt is the innermost belt. 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. Disconnect the spark plug cap on the engine.
2. Check the secondary flywheel 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 secondary flywheel belt requires more tension, the *inner* 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 Secondary Flywheel Belt Tension
[Large drive pulley translucent for clarity]

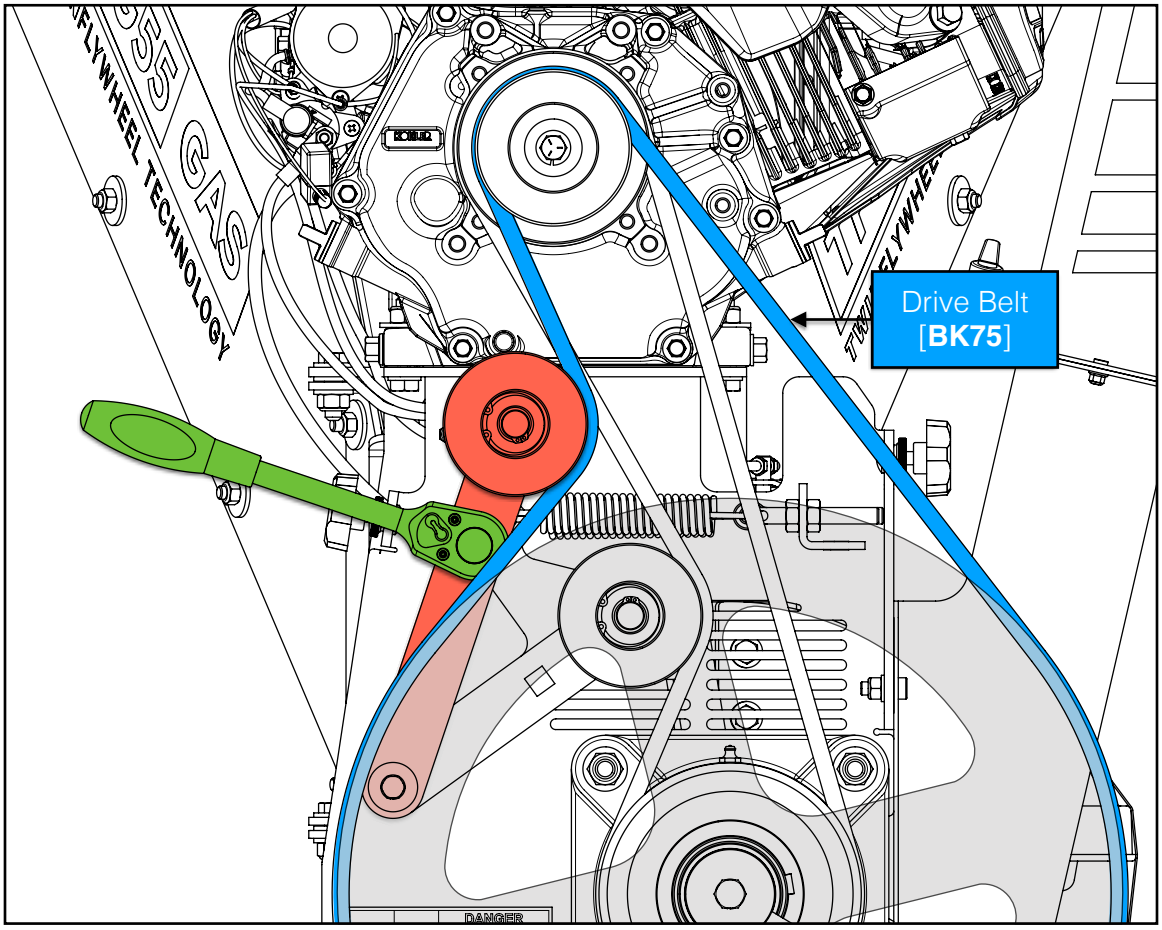
REPLACING THE BELTS

Check the condition and tension of both belts after every 30 hours of operation. If a squealing noise can be heard it could be due to a worn belt or improper belt tension (see the previous section, ***ADJUSTING THE BELTS' TENSION***). It is recommended *both* belts be replaced at the same time to reduce future maintenance.

- *Drive Belt*: **BK75**
- *Secondary Flywheel Belt*: **BK53**

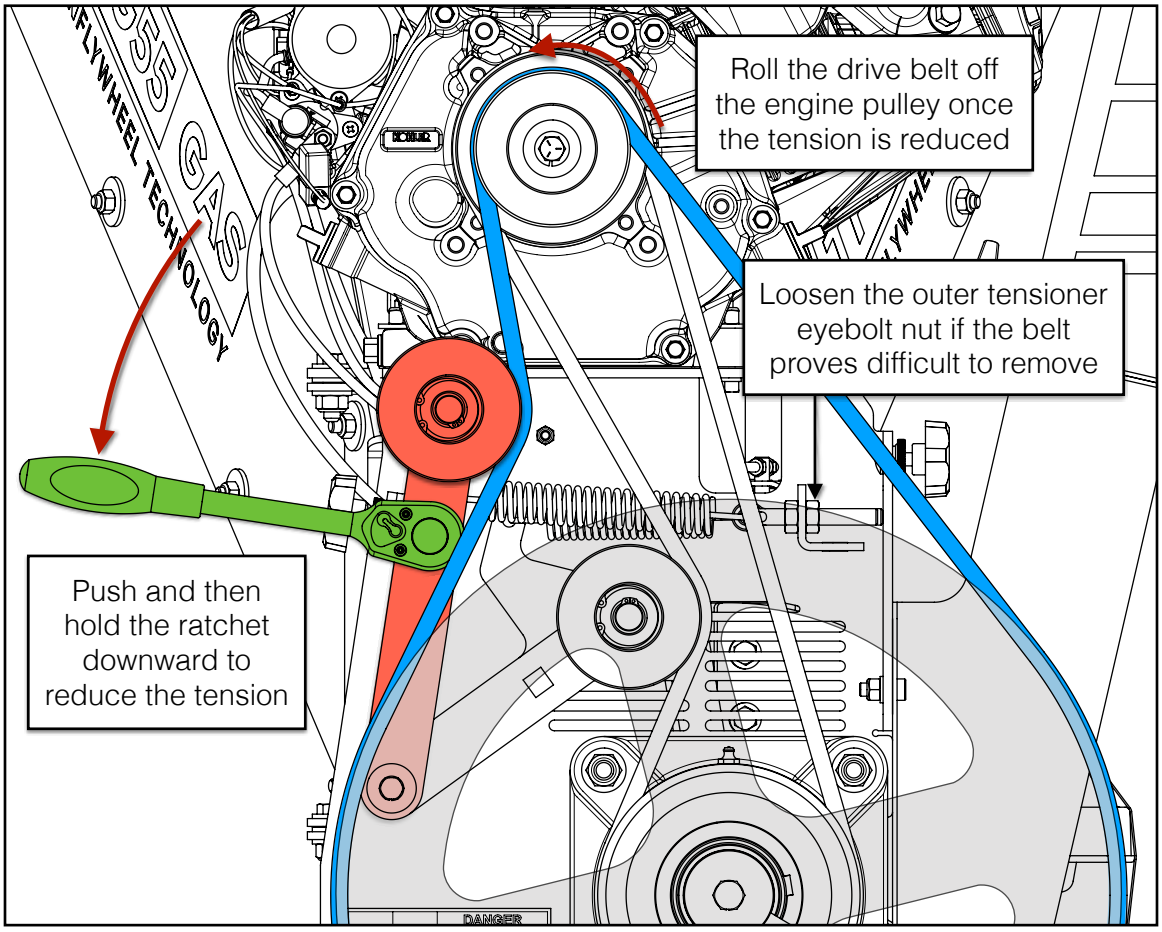
To replace the worn belts, follow the steps below:

1. Disconnect the spark plug cap from the engine for safety.
2. Loosen the two knobs on both sides of the belt guard and then pull the guard up & out on a slight angle (see the previous section, ***ADJUSTING THE BELTS' TENSION***).
3. Using a ratchet or breaker bar with a ½ in drive, insert it into the square hole in the driver belt tensioner arm as shown below.

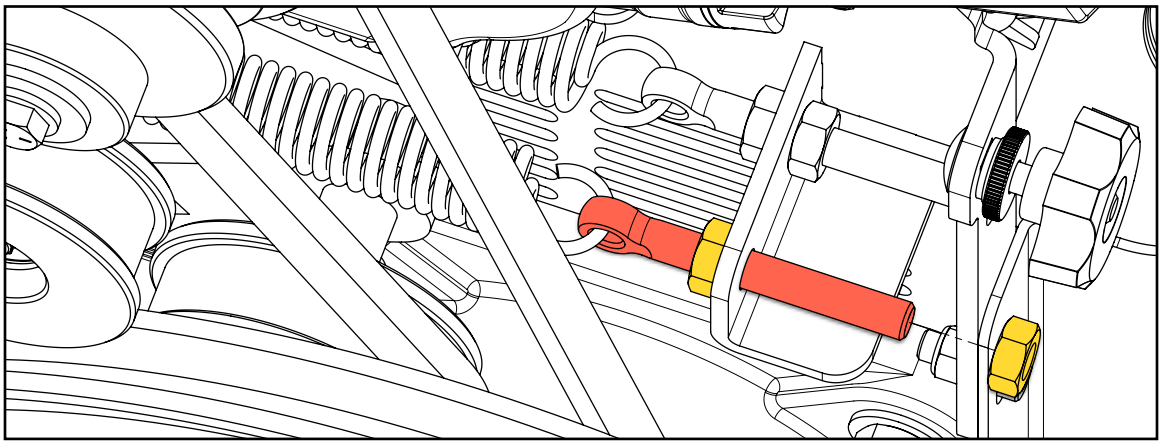


[Large drive pulley translucent for clarity]

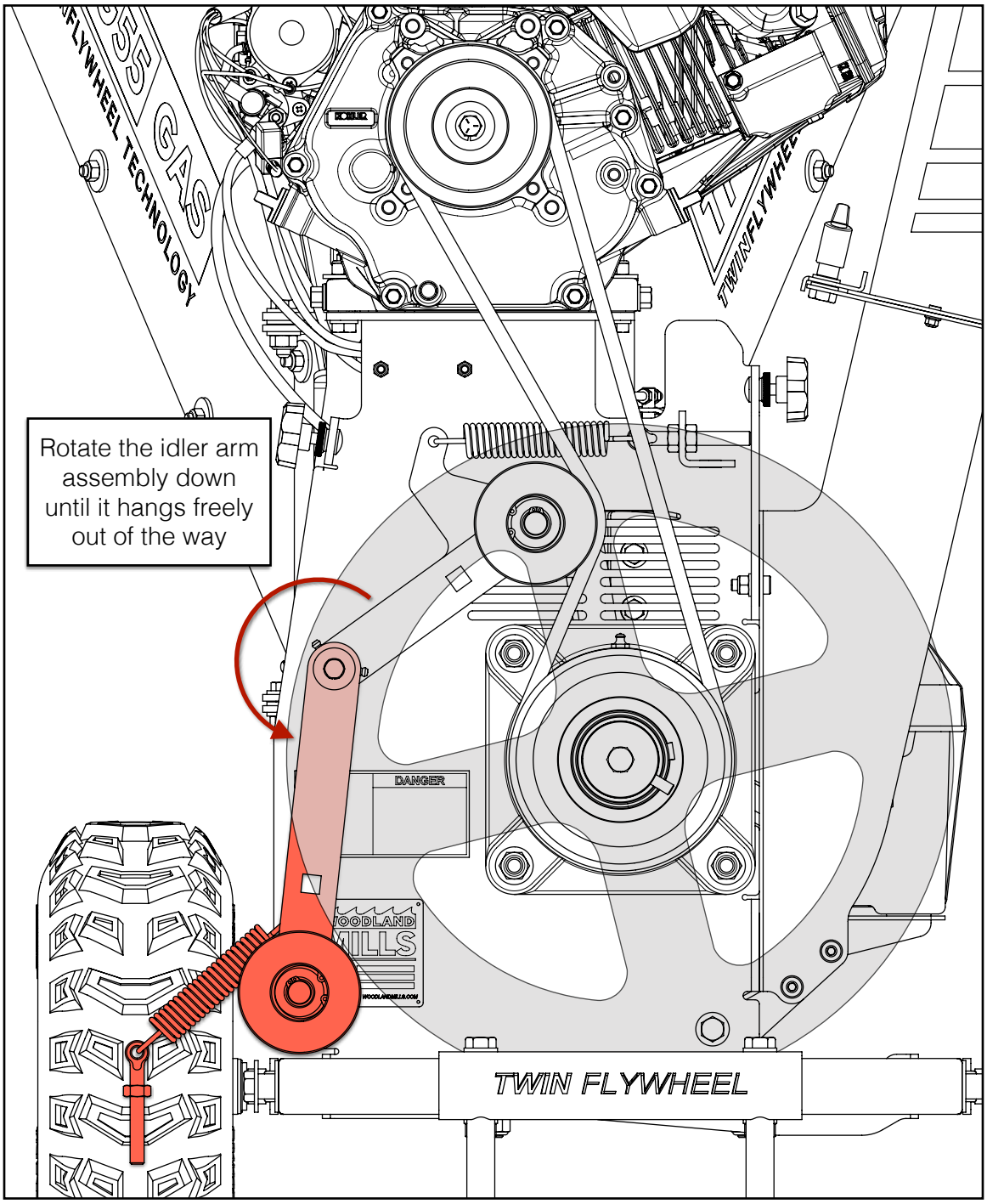
4. Push the ratchet down so that the tensioner arm starts to rotate away from the drive belt, reducing the tension. Hold the ratchet steady in this position with one hand. With the other hand, roll the drive belt off the upper engine pulley until it slips free.



5. With the drive belt removed, remove the outer hex nut from the belt tensioner eyebolt.

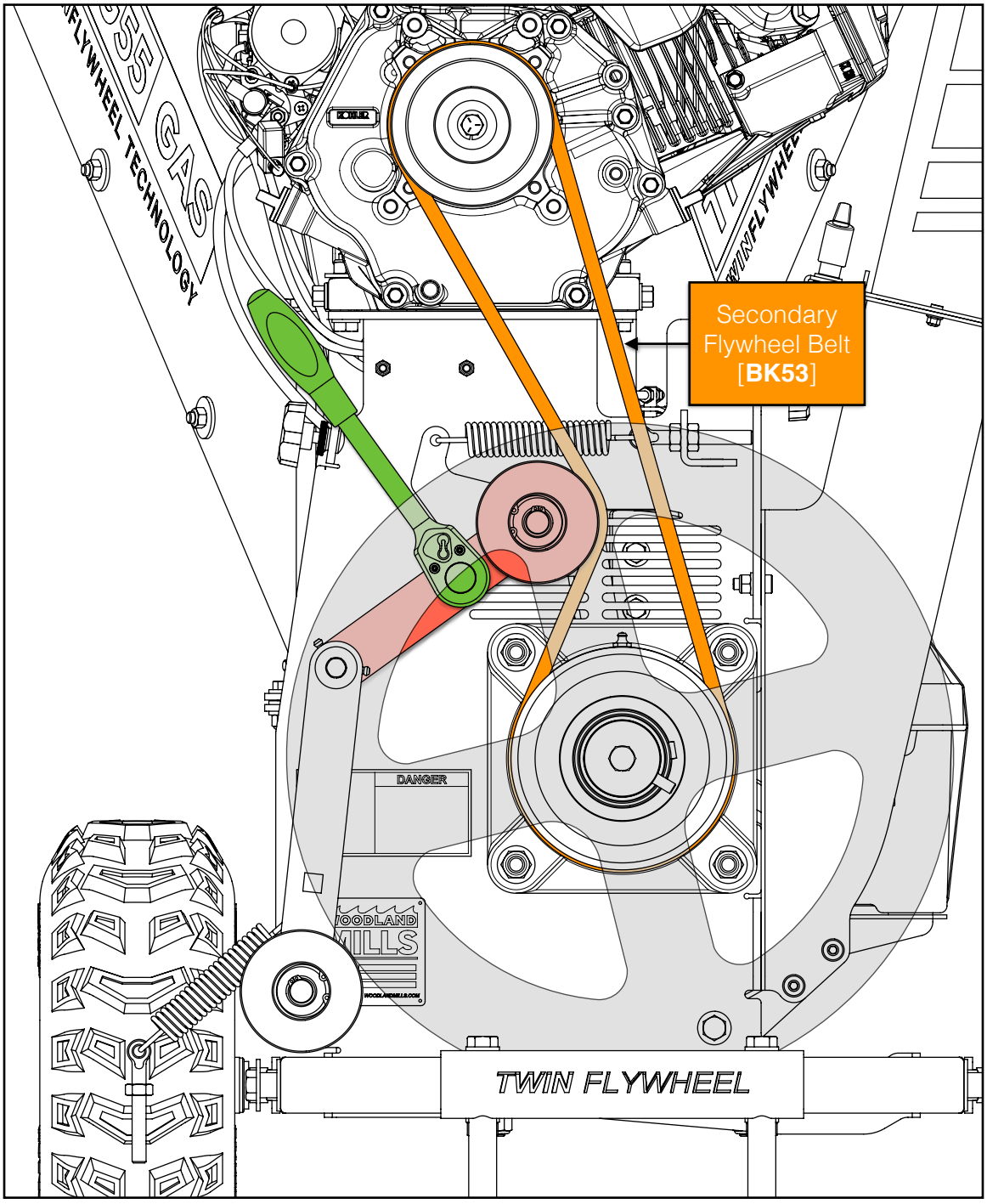


6. Remove the ratchet from the idler arm. Then slide the eyebolt out of its mounting hole and rotate the idler arm assembly—with the spring and eyebolt still attached—down until it hangs freely.

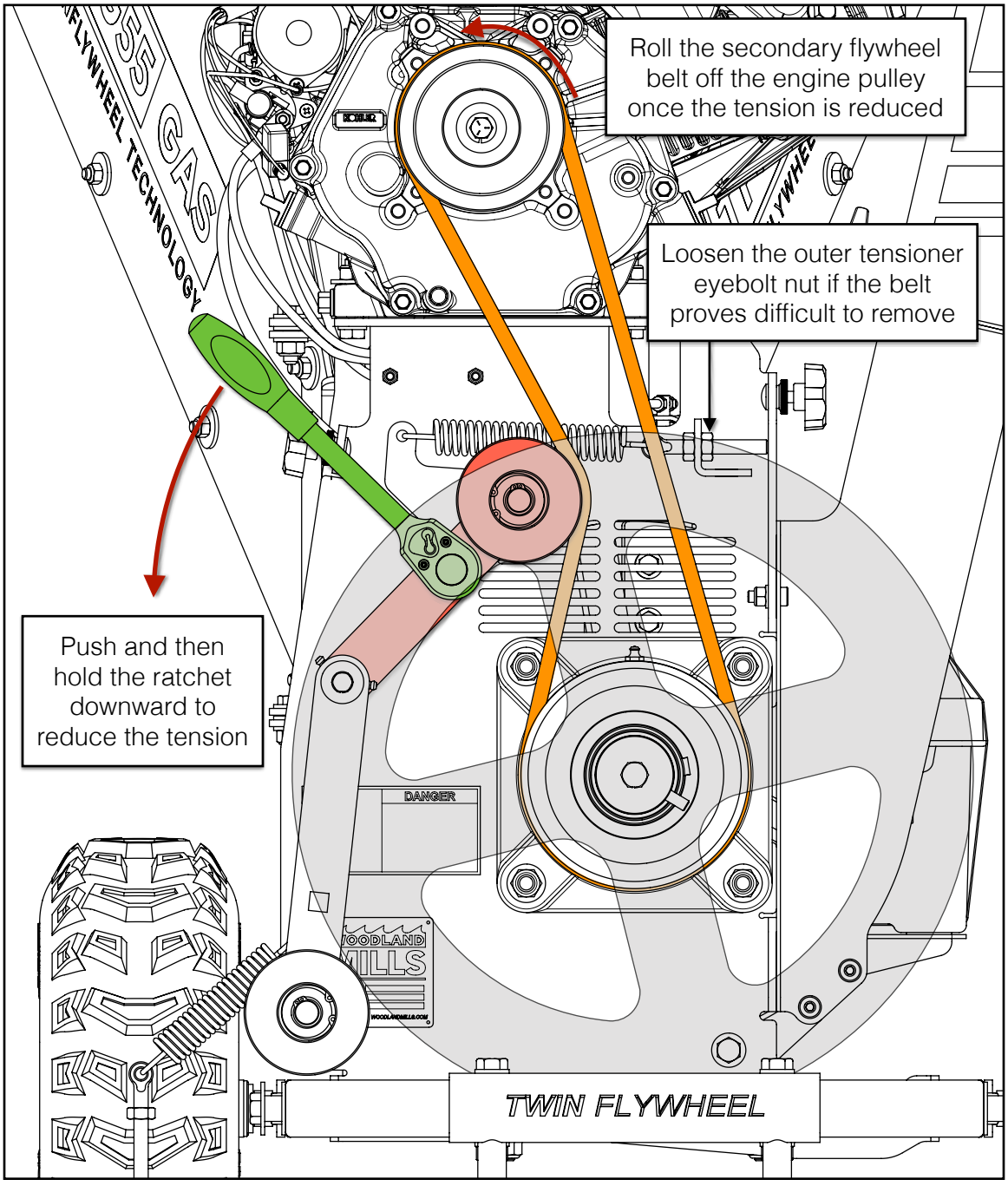


With the idler out of the way, the secondary flywheel belt tensioner arm is now accessible.

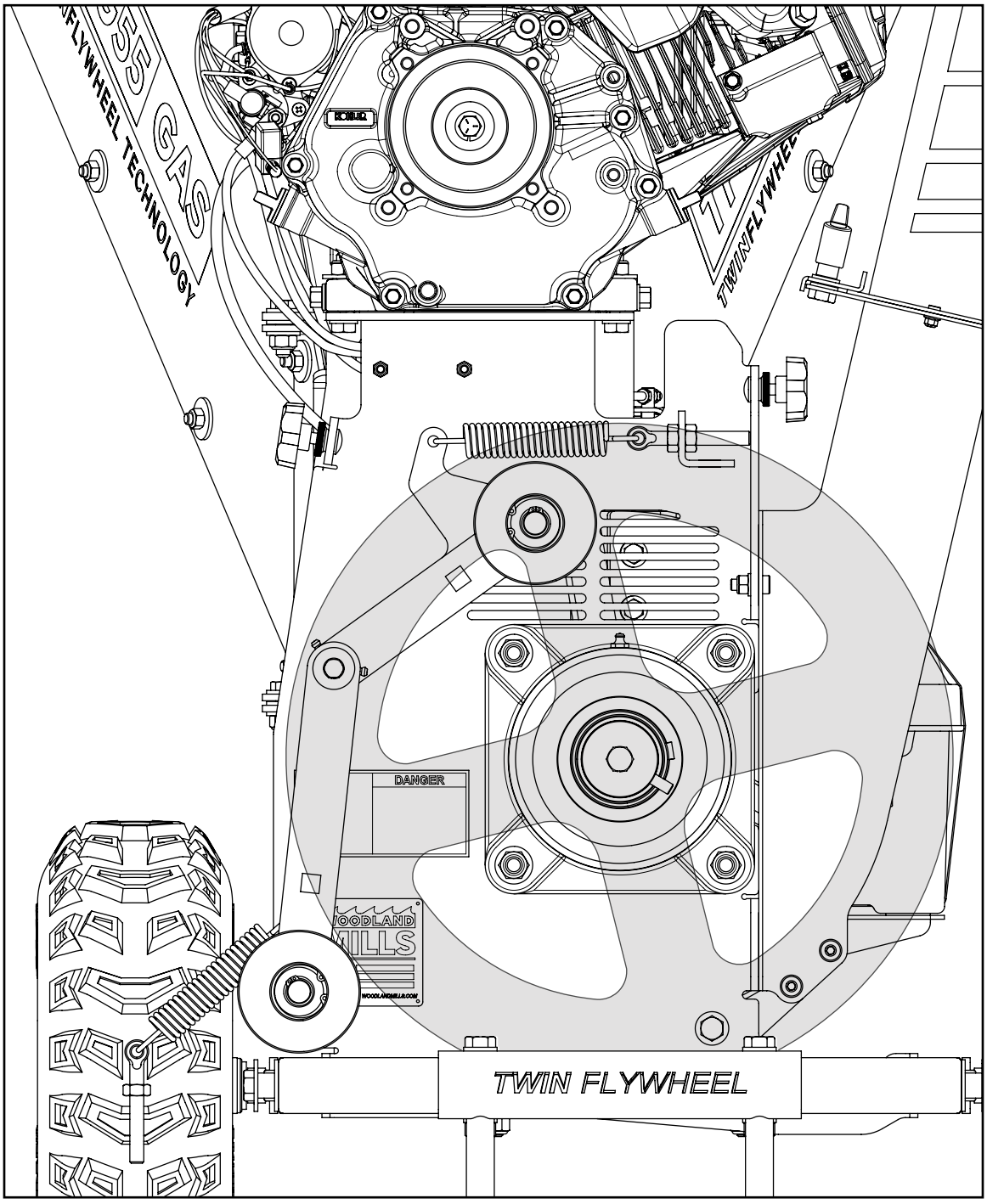
7. Insert the ratchet into the square hole in the secondary flywheel belt tensioner arm in the same manner as the drive belt tensioner arm previously.



8. Push the ratchet down so that the tensioner arm starts to rotate away from the secondary flywheel belt, reducing the tension. Hold the ratchet steady in this position with one hand. With the other hand, roll the secondary flywheel belt off the upper engine pulley until it slips free.



While it is not necessary to remove the tensioner eyebolt from its mounting flange, the outer nut can be loosened to assist with removing the belt if it still proves difficult.



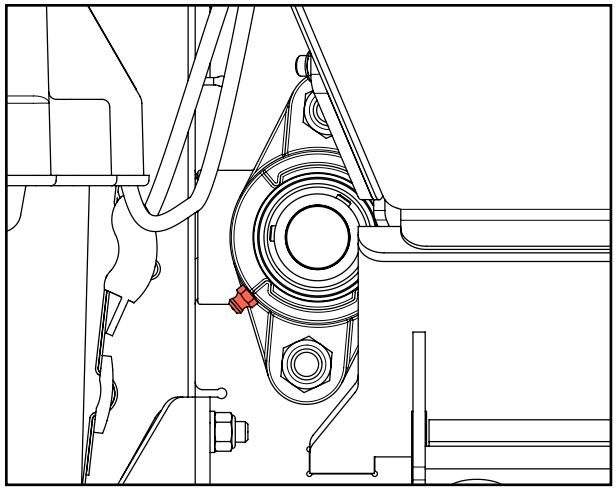
Both Belts Removed

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

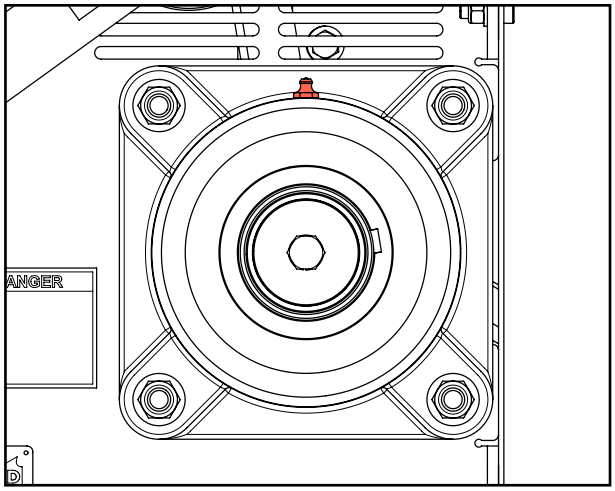
GREASING

The wood chipper has six (6) grease points with Zerk fittings: the 2-bolt flange bearing on the front of the machine, the large 4-bolt flange bearing in the rear, both belt tensioner idler arms, and both wheel hubs. Check each grease point prior to use and add grease as needed.

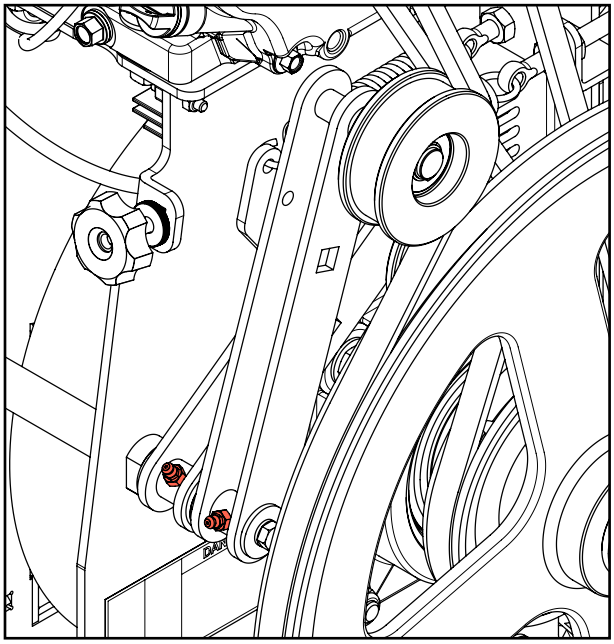
****Warning: These grease points come pre-greased from the factory. *Do not add grease to the Zerk fittings on a new wood chipper*. Over-greasing can damage the bearing seals.****



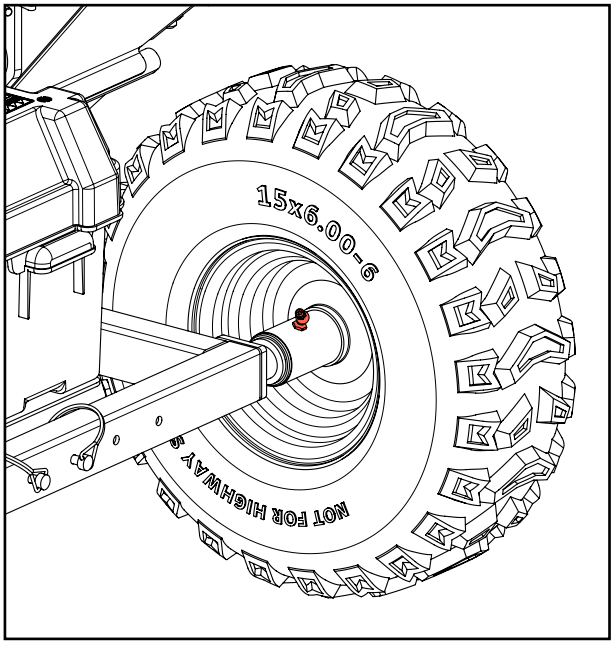
Flywheel Shaft Bearing (Front)



Flywheel Shaft Bearing (Rear)



Idler Arms (Belt Guard Removed)

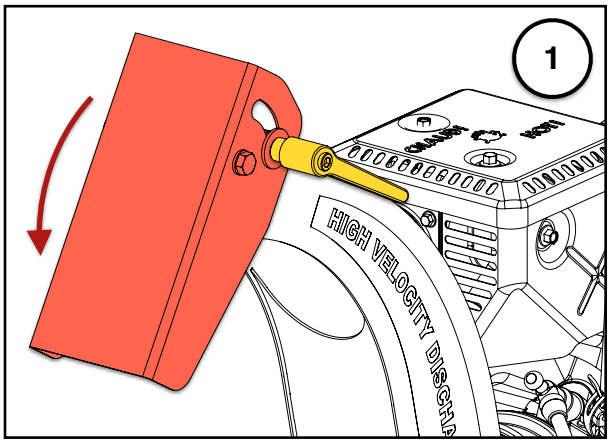


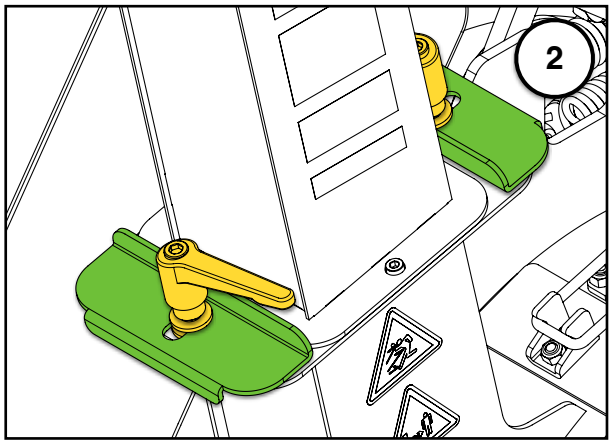
Wheel Hub (2x)

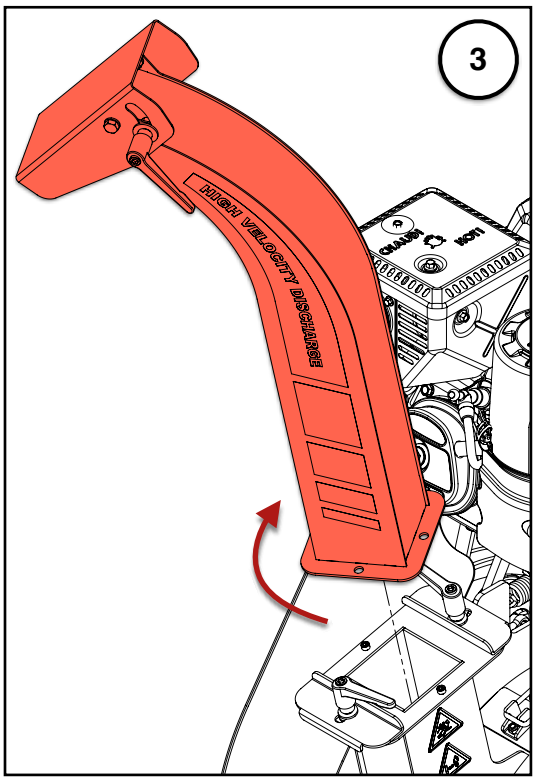
STORAGE

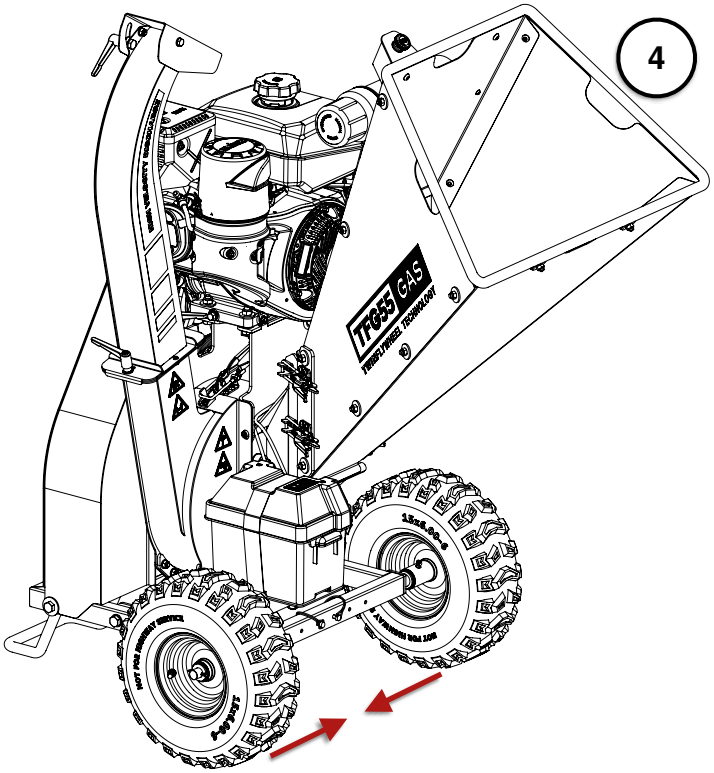
When the wood chipper is not in use, it can be stored to utilize a smaller footprint to save space.

1. At the top of the discharge chute, point the defector down.
2. Loosen the retainers on the discharge chute nozzle.
3. Rotate the discharge chute so that it points towards the engine. Retighten the retainers.
4. If the wood chipper has been towed behind a vehicle, the wheel offsets can be moved in to save space as well.







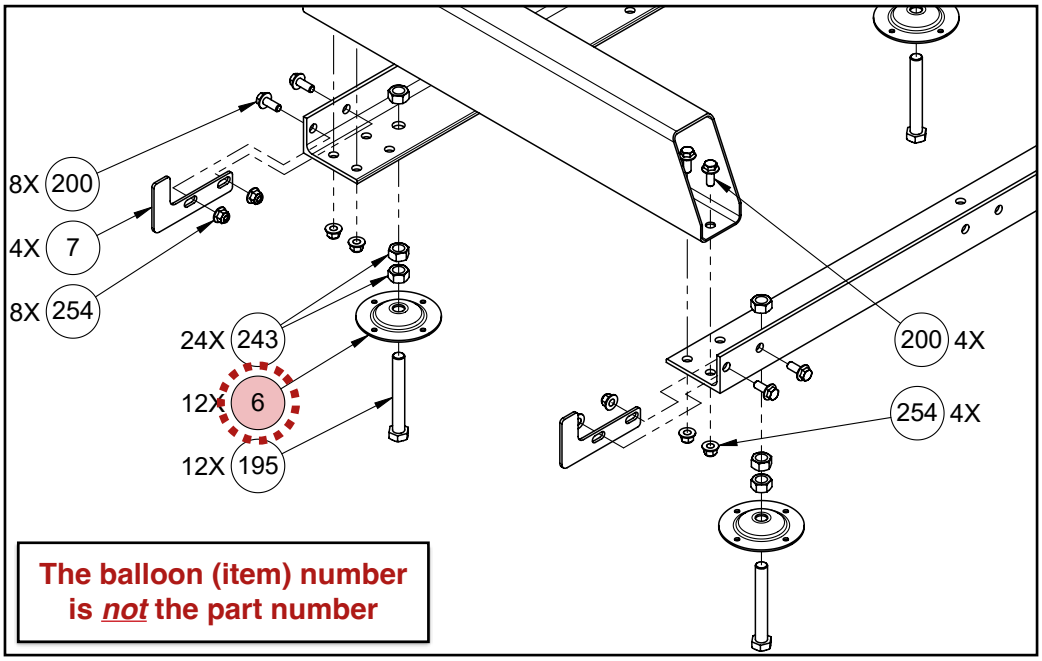


TROUBLESHOOTING

Problem/Issue	Possible Causes	Resolution Options
Brush is feeding too slowly	1. Not enough material for blades to grab. 2. Blades are dull. 3. Improper bed plate gap.	1. Add more material or larger material to get the blades to bite and pull it into the machine. 2. Reverse, sharpen, or replace blades. Refer to page 56 & page 58. 3. Re-set bed plate gap. Refer to page 59.
Brush exiting discharge chute is stringy	1. Blades are dull. 2. Brush is excessively sappy.	1. Reverse, sharpen, or replace blades. Refer to page 56 & page 58. 2. Clean blades and bed plate.
Excessive clogging	1. Blades are dull. 2. Improper bed plate gap.	1. Reverse, sharpen, or replace blades. Refer to page 56 & page 58. 2. Re-set bed plate gap. Refer to page 59. 3. Clean blades and bed plate.
Belts slipping or squeaking	1. Belt tension not set properly. 2. Belt is old/worn.	1. Adjust belt tension. Refer to page 62. 2. Replace belt. Refer to page 65.
Excessive noise coming from flywheel shaft bearings	1. Bearings not sufficiently lubricated. 2. Bearings are worn.	1. Grease bearings. Refer to page 71. 2. Replace bearings. Please contact Woodland Mills for bearing replacement instructions.
Engine will not start	1. Emergency stop activated. 2. Low oil. 3. Spark plug cap disconnected.	1. Emergency stop button needs to be twisted to reset it. Refer to page 50. 2. The engine is equipped with a low-oil sensor and will not start if tripped. Check the oil level with one of the yellow dipsticks. If the oil level is normal, it could mean the sensor is faulty. 3. Reconnect spark plug cap.
Engine running rough	1. Carburetor icing in colder climates. 2. Fuel cap not fitted correctly.	1. Rotate the air cleaner cover on the engine until the snowflake arrow is aligned with the arrow on the lower housing. 2. Remove the fuel cap and reseat it.

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:

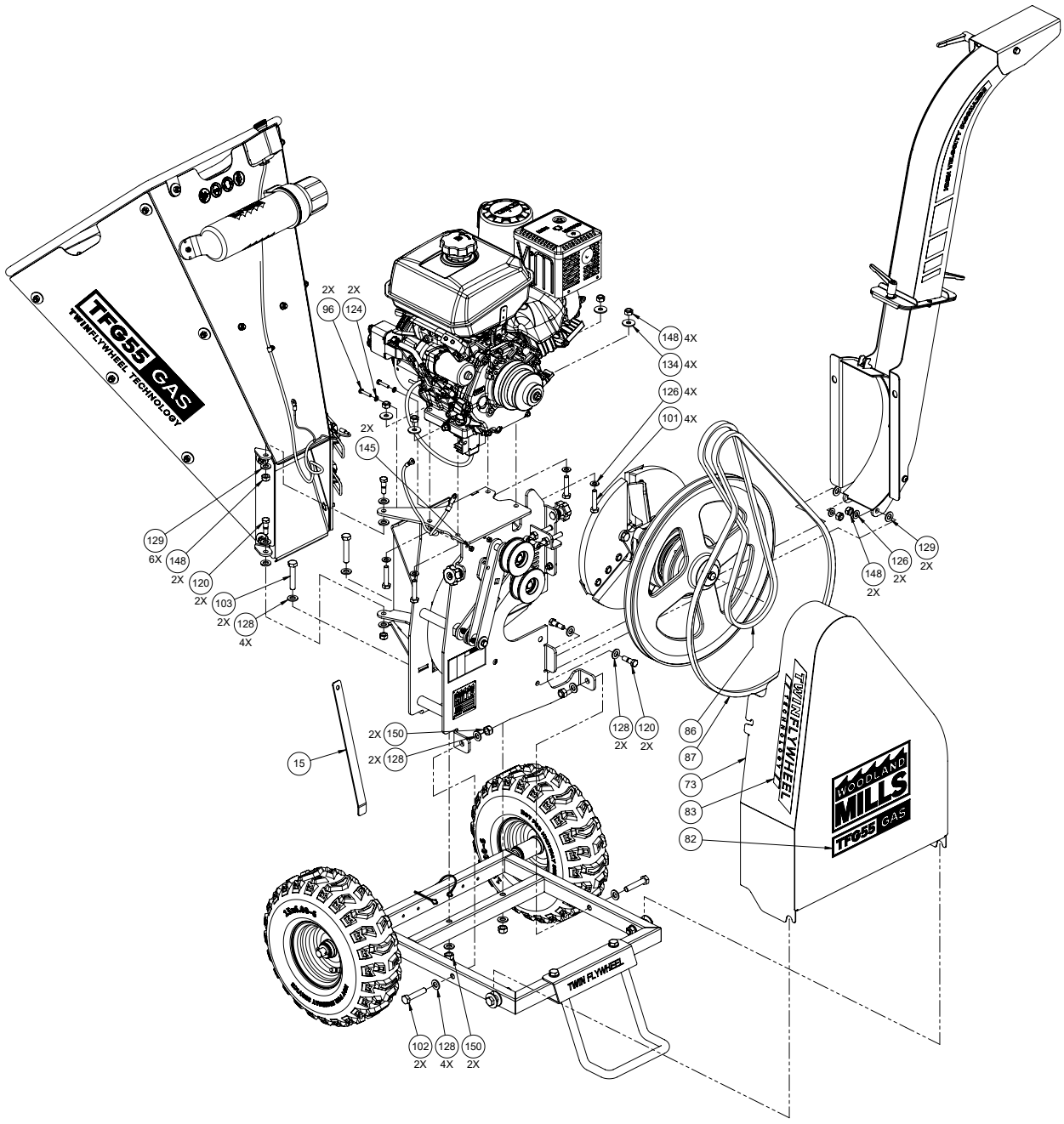
PARTS LIST

Item	Quantity		Part No.	Description
	14 hp	9.5 hp		
1	4	4	0001073	TRACK RAIL, 58.5 mm TALL
2	2	2	0001075	LOG BUNK, END
3	2	2	0001080	LOG BUNK, MID
4	1	1	0001084	LOG BUNK, CENTER
5	2	2	0001072	REINFORCEMENT PLATE, 90 X 200 mm
6	12	12	0001071	LEVELLING FOOT BASE
7	4	4	0001055	CARRIAGE STOP
8	1	1	0001062	LOG CLAMP SHAFT AND BRACKET WELDMENT

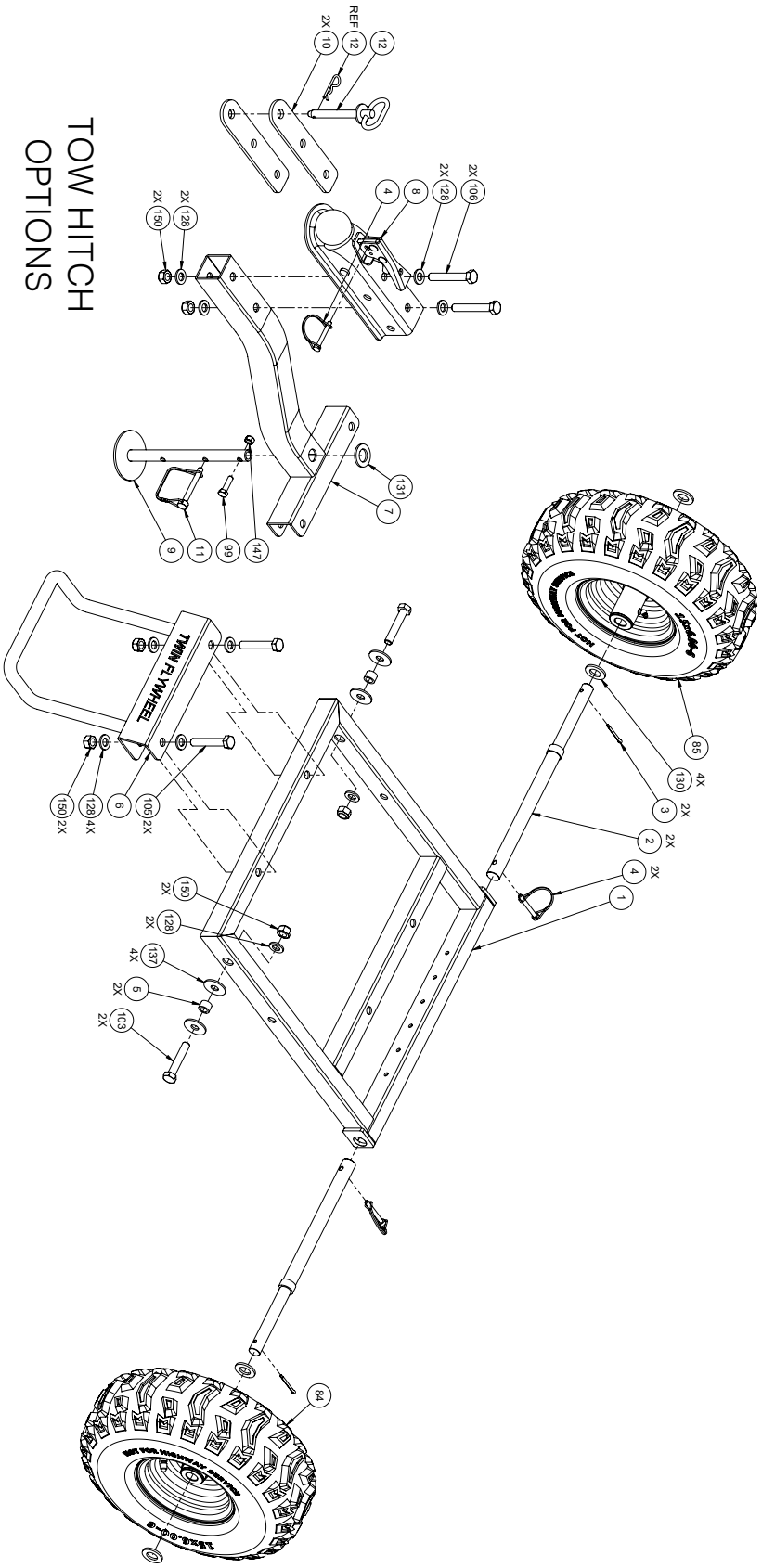
Record the part number (e.g. *0001071, HHB-MBM080FCJ, etc.*) in the "**Part No.**" column.

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.

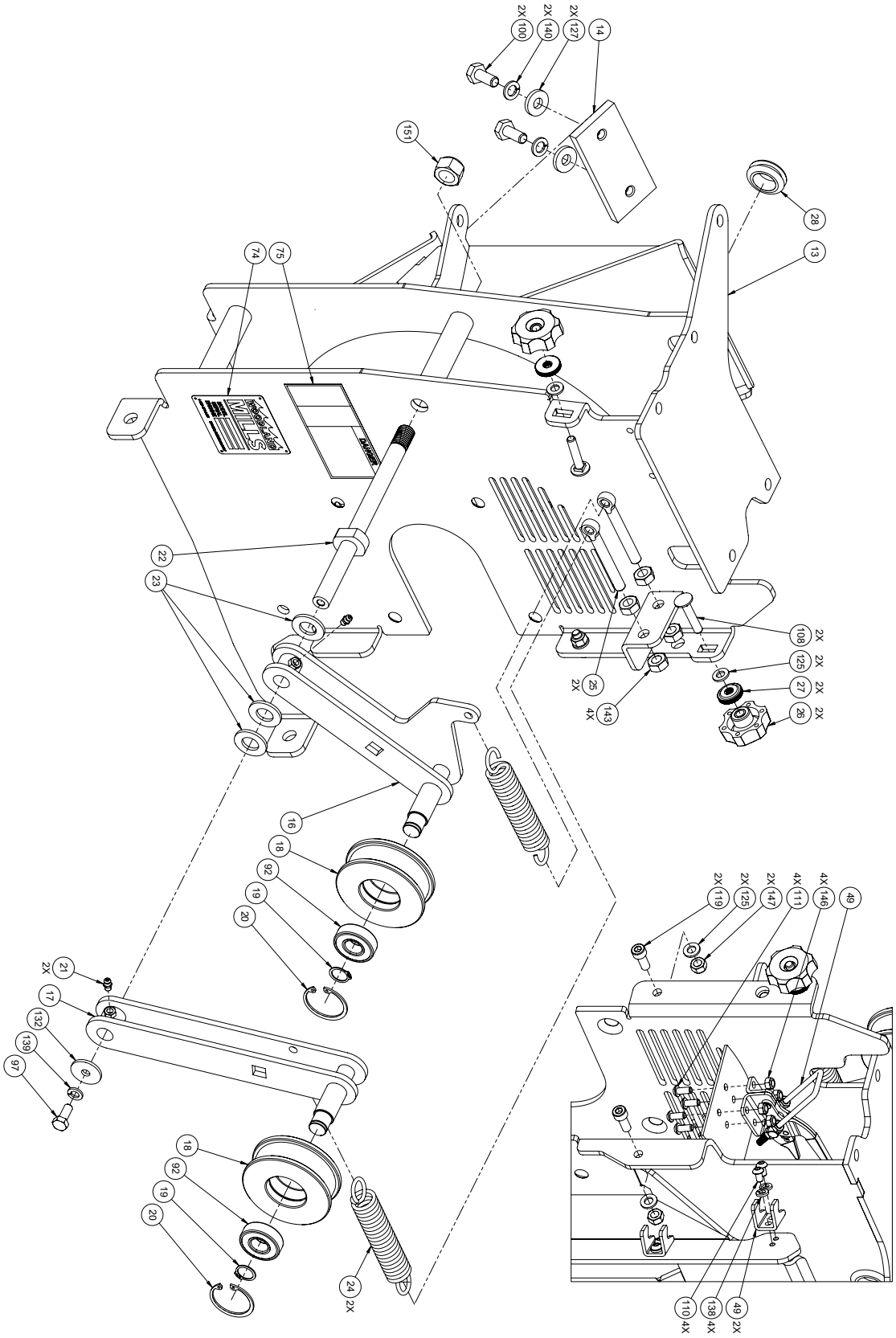
EXPLODED ASSEMBLY VIEWS
COMPLETE ASSEMBLY



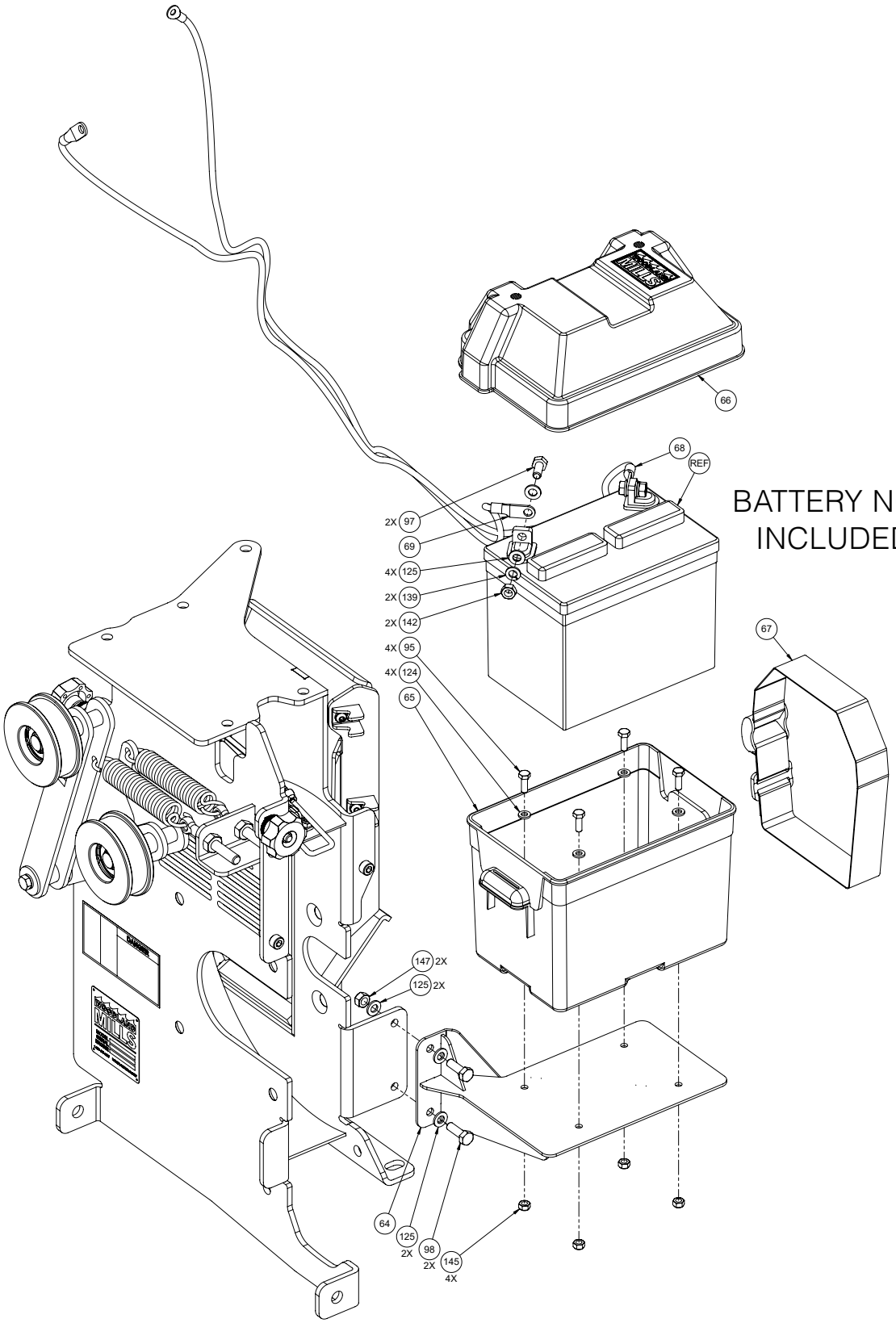
BASE


TOW HITCH
OPTIONS
REF
2X 10
12
12
4
8
2X 128
2X 100
2X 150
2X 128
131
7
9
11
99
147
TWIN FLYWHEEL
150 2X
128 4X
6
105 2X
85
130 4X
3 2X
2 2X
4 2X
1
150 2X
128 2X
137 4X
5 2X
103 2X
84

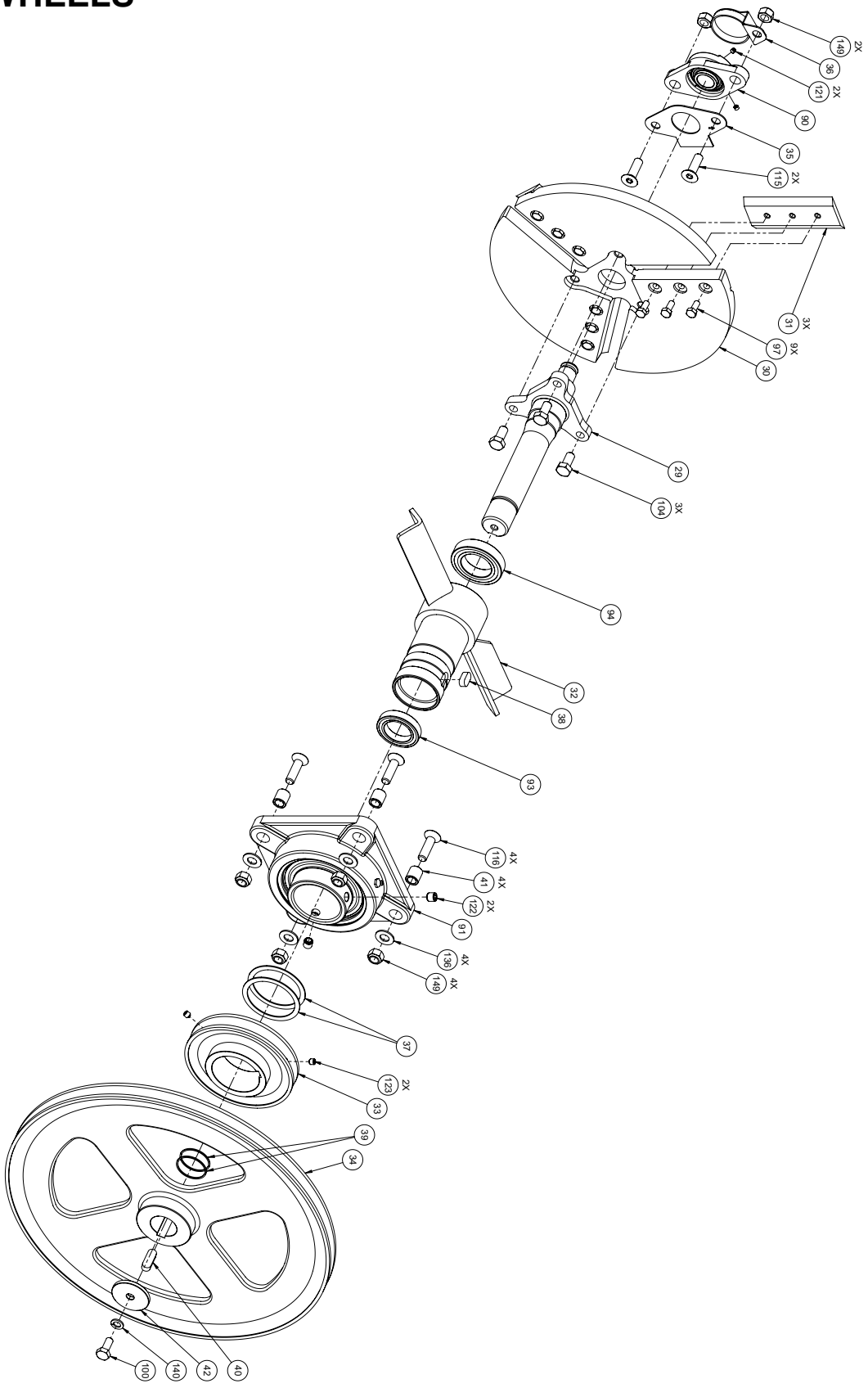
LOWER FLYWHEEL HOUSING



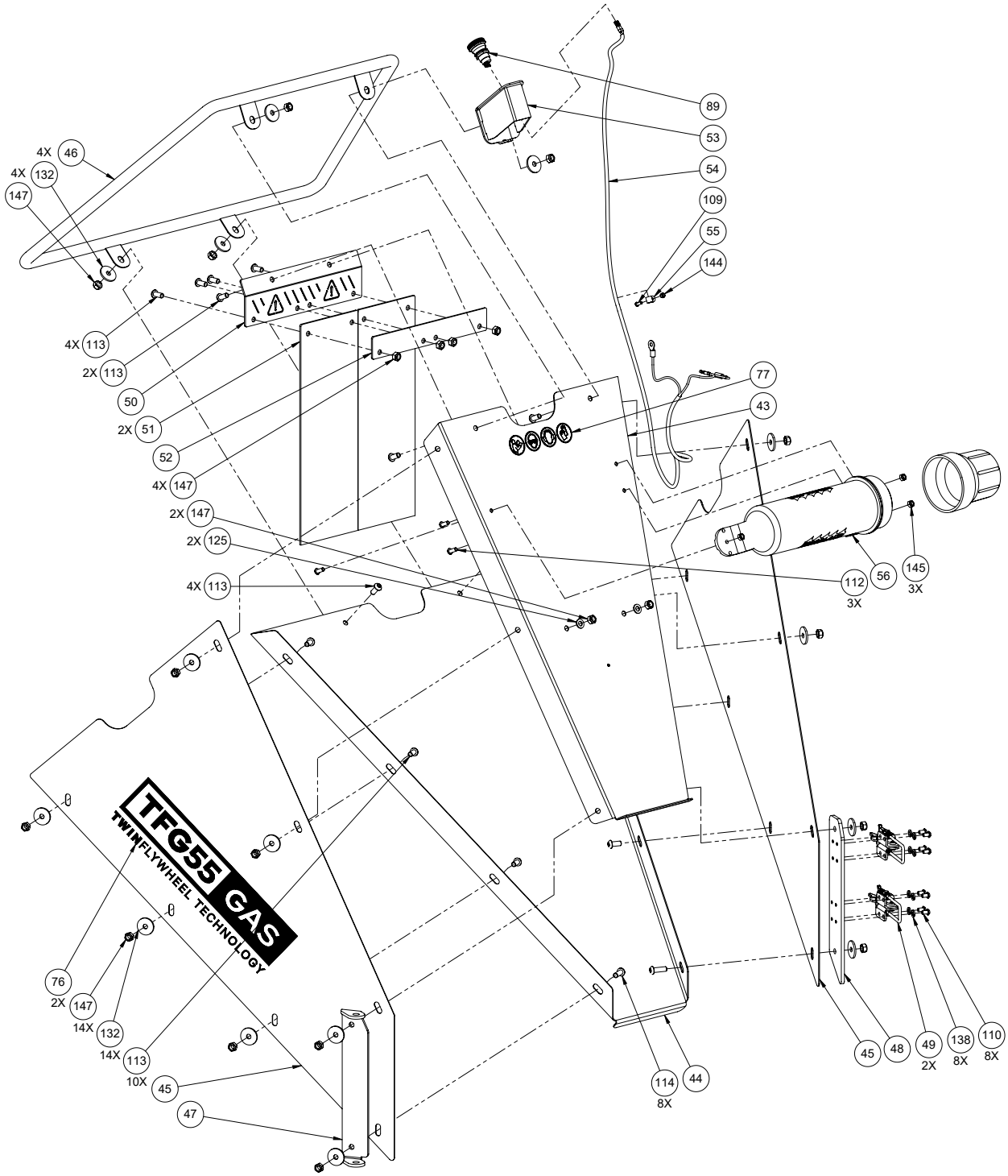
BATTERY MOUNTING



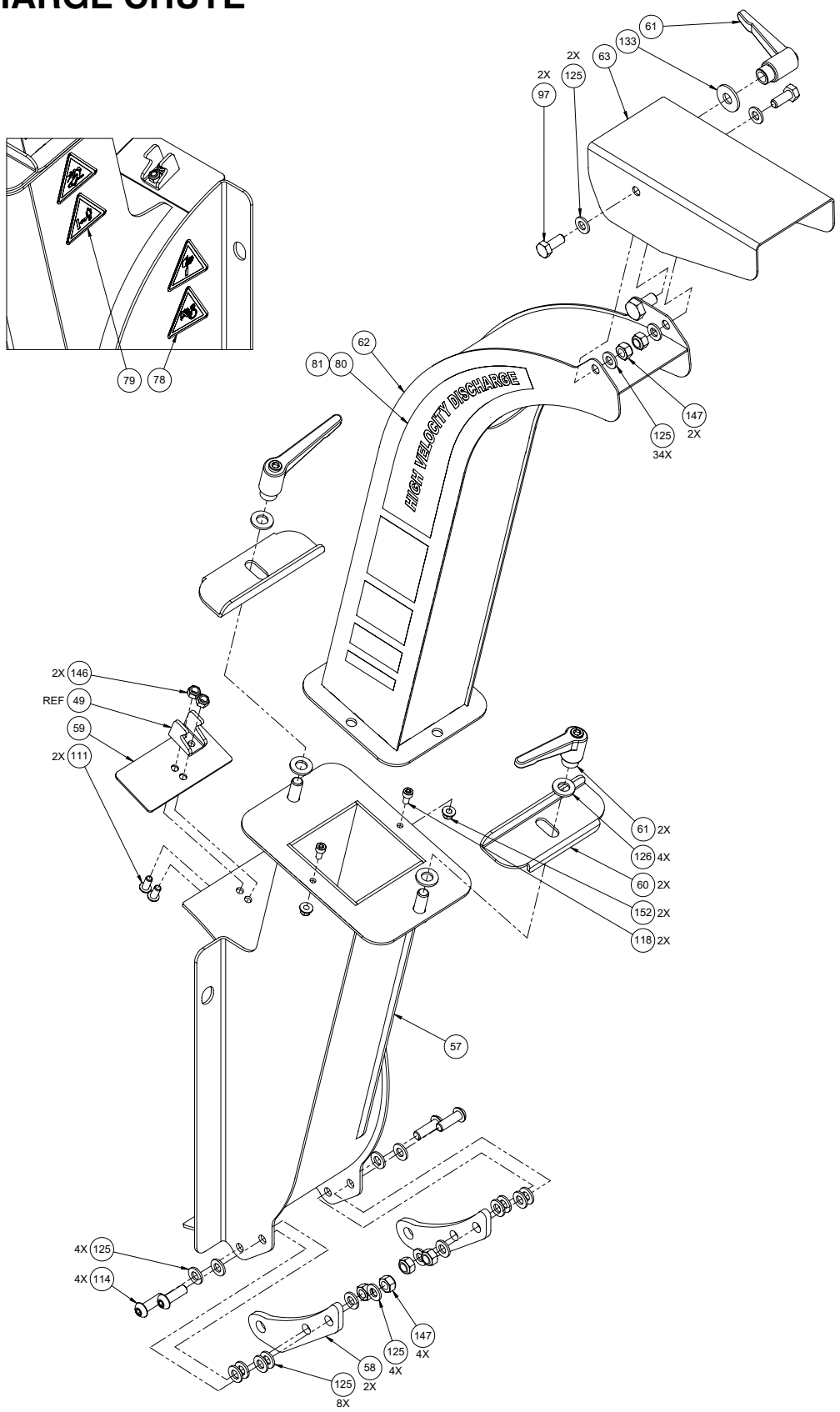
FLYWHEELS


149 2X
36
121 2X
90
35
115 2X
31 3X
97 9X
30
29
104 3X
94
32
38
93
116 4X
41 4X
122 2X
91
136 4X
149 4X
37
123 2X
33
39
34
100
140
42
40

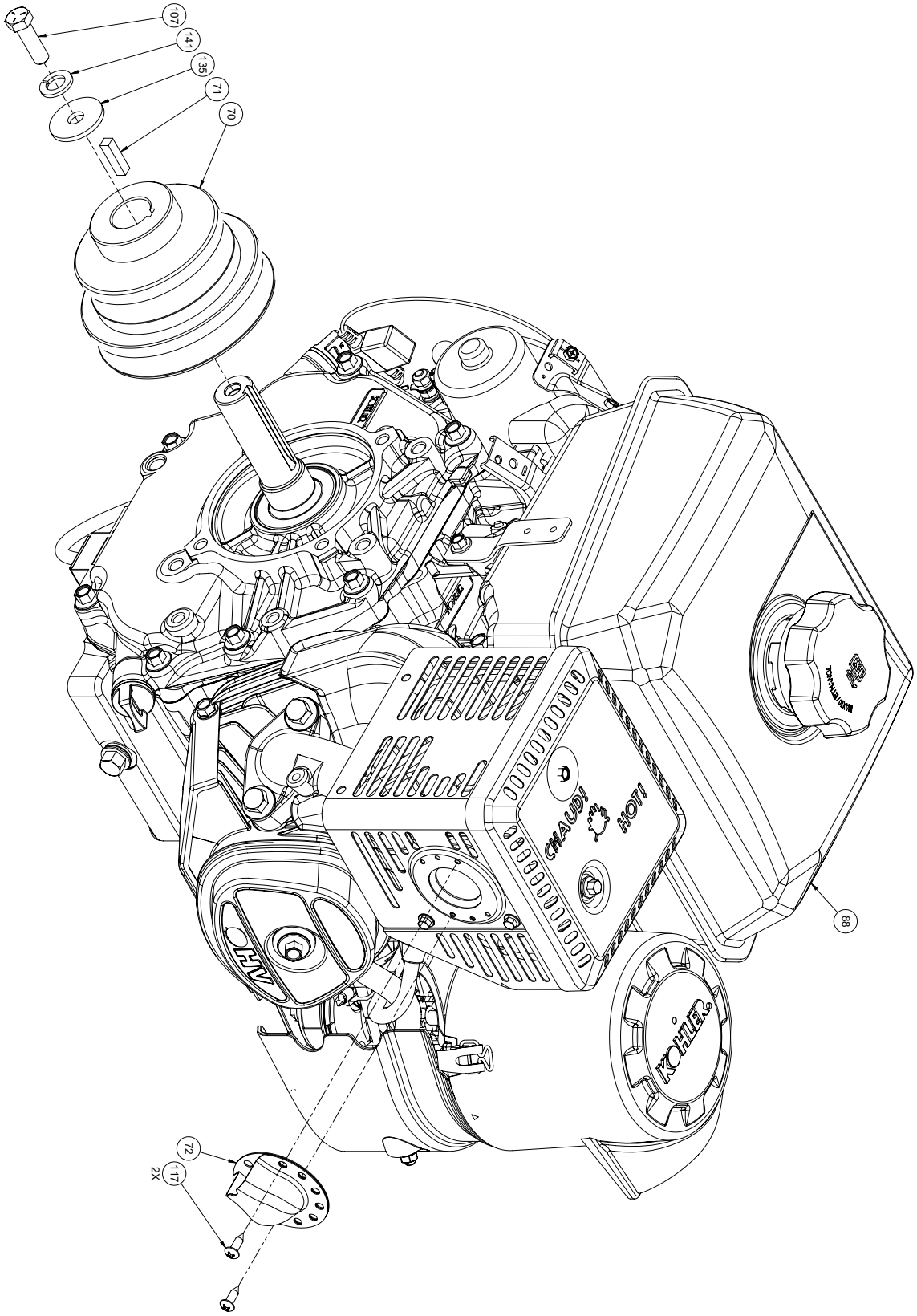
INFEED CHUTE



DISCHARGE CHUTE



ENGINE



PARTS LIST

Item	Qty	Part No.	Description
1	1	0009398	BASE
2	2	0010912	AXLE
3	2	0004758	COTTER PIN, 4 mm DIA, 32 mm LG
4	3	0004728	LOCKING PIN, ROUND, 1/4 in DIA, 1-3/8 in USABLE LG, 2 in LG
5	2	0002812	SPACER, 12 ID X 18 OD X 12 mm LG
6	1	0010111	BASE LEG
7	1	0008995	TOW BAR
8	1	0001381	HITCH BALL COUPLER, 2 in [50.8 mm] BALL, NORTH AMERICA
9	1	0008996	STAND, TOW HITCH
10	2	0009011	TOW PIN RECEIVER PLATE
11	1	0004723	LOCKING PIN, SQUARE, 8 mm DIA, 60 mm USABLE LG, 70 mm LG
12	1	0009832	HANDLED CLEVIS PIN, 12.5 mm DIA, 90 mm USEABLE LG
13	1	0010458	LOWER FLYWHEEL HOUSING
14	1	0009160	BED PLATE, 112 X 52 X 9.4 mm
15	1	0010411	BED PLATE GAP TOOL
16	1	0009371	BELT TENSIONER ARM, SECONDARY FLYWHEEL BELT
17	1	0009419	BELT TENSIONER ARM, PRIMARY FLYWHEEL BELT
18	2	0008985	IDLER PULLEY, SINGLE BEARING, 21 mm WD, 80 mm DIA
19	2	0004798	RETAINING RING, EXTERNAL, 17 mm SHAFT (16.2 mm GROOVE)
20	2	0004816	RETAINING RING, INTERNAL, 40 mm BORE (42.5 mm GROOVE)
21	2	0004707	GREASE FITTING, STRAIGHT, M6 X 1 TAPERED THD
22	1	0008999	IDLER PIVOT PIN, 16 mm DIA, 75 mm LG, M16 X 2 THD
23	3	0005560	SPACER, 17 ID X 32 OD X 3 mm LG
24	2	0009006	EXTENSION SPRING, HOOK ENDS, 25 mm OD, 3.5 mm DIA WIRE, 120 mm LG
25	2	0010116	EYEBOLT, DIN444, M10 X 1.5, 80 mm LG
26	2	0010440	KNOB, MULTI-LOBE, 48 mm OD, M8 X 1.25, THRU HOLE
27	2	0010439	KNOB, KNURLED, 24 mm OD, M8 X 1.25, THRU HOLE
28	1	0010455	PUSH-IN GROMMET, 23 mm ID, 38 mm OD, 13 mm WIDE, 28 mm HOLE, 6 mm MAT'L
29	1	0009366	FLYWHEEL SHAFT
30	1	0009170	PRIMARY FLYWHEEL
31	3	0010422	FLYWHEEL BLADE, 140.5 X 57 X 7 mm, TAPPED
32	1	0009163	SECONDARY FLYWHEEL
33	1	0009378	V-BELT PULLEY, 70 mm SHAFT, 159.5 mm DIA, 90 DIA X 40 mm LG COLLAR
34	1	0009379	V-BELT PULLEY, 40 mm SHAFT, 480 mm DIA, 81 DIA X 35.8 mm LG COLLAR
35	1	0009656	FLYWHEEL SHAFT DUST COVER, UCFL205 BEARING
36	1	0011280	FLYWHEEL SHAFT COVER, UCFL205 BEARING
37	2	0009377	SPACER, 70.6 ID X 84.5 OD X 1.5 mm THK
38	1	0009380	PARALLEL KEY, 12 X 8 mm, 23 mm LG
39	2	0009367	SPACER, 40.6 ID X 44 OD X 1.5 mm THK
40	1	0009852	PARALLEL KEY, 12 X 8 mm, 35 mm LG
41	4	0009383	SPACER, 12.5 ID X 18.5 OD X 20 mm THK
42	1	0009381	FLYWHEEL SHAFT RETAINING PLATE
43	1	0010461	INFEED CHUTE TOP PANEL
44	1	0010462	INFEED CHUTE BOTTOM PANEL
45	2	0010459	INFEED CHUTE SIDE PANEL
46	1	0010463	ROUND EDGE BAR, INFEED CHUTE

Item	Qty	Part No.	Description
47	1	0010465	INNER HINGE, INFEED CHUTE
48	1	0010466	LATCH PLATE, INFEED CHUTE
49	3	0001304	LATCH-STYLE TOGGLE CLAMP, SAFETY LOCK
50	1	0009809	CURTAIN BRACKET
51	2	0009810	CURTAIN
52	1	0009811	CURTAIN PLATE
53	1	0009397	EMERGENCY STOP BRACKET
54	1	0009816	SWITCH WIRE
55	1	0009820	CABLE CLAMP, 8 mm ID, 21.5 mm LG, NYLON
56	1	0001655	MANUAL TUBE
57	1	0009168	DISCHARGE SIDE HOUSING
58	2	0010199	HINGE PLATE, DISCHARGE SIDE HOUSING
59	1	0010229	DUST COVER, DISCHARGE SIDE HOUSING
60	2	0009804	DISCHARGE CHUTE RETAINER PLATE, CLAMPING
61	3	0001786	HANDLE, ADJUSTABLE POS, 78 X 54 mm, M10 X 1.5 FEM THD
62	1	0009675	DISCHARGE CHUTE
63	1	0008301	DISCHARGE CHUTE DEFLECTOR
64	1	0010452	BATTERY TRAY
65	1	0005558	BATTERY BOX BASE, U1 BATTERY SIZE, WM LOGO
66	1	0005559	BATTERY BOX LID, U1 BATTERY SIZE, WM LOGO
67	1	0005734	CINCHING STRAP, 38 mm WD, 1050 mm LG
68	1	0010450	BATTERY CABLE, POSITIVE (RED), 6 AWG, 40 in LG
69	1	0010451	BATTERY CABLE, NEGATIVE (BLACK), 6 AWG, 40 in LG
70	1	0009412	V-BELT PULLEY, DUAL, 25.4 mm SHAFT, 117/95.3 mm DIA
71	1	0001137	PARALLEL KEY, 1/4 X 1/4 in, 1 in LG
72	1	0001136	EXHAUST REDIRECT, 9.5 & 14 hp KOHLER ENGINES
73	1	0009165	BELT GUARD
74	1	0001839	SERIAL NUMBER PLATE, GAS
75	1	0002770	LABEL, DANGER: MOVING PARTS CUT/CRUSH
76	2	0010429	LABEL, TFG55 GAS TWIN FLYWHEEL TECHNOLOGY
77	1	0010920	LABEL, CHIPPER MANDATORY SYMBOLS
78	1	0010921	LABEL, CHIPPER INFEED WARNING SYMBOLS
79	1	0010922	LABEL, CHIPPER DISCHARGE WARNING SYMBOLS
80	1	0010427	LABEL, HIGH VELOCITY DISCHARGE
81	1	0010428	LABEL, HIGH VELOCITY DISCHARGE [REVERSE]
82	1	0010425	LABEL, TFG55 GAS W/ WOODLAND MILLS LOGO
83	1	0009635	LABEL, TWIN FLYWHEEL TECHNOLOGY
84	1	15X6.00-6L	WHEEL, 15X6.00-6, 15 in OD TIRE, 6 in WIDE, 6 in DIA RIM, LEFT-HAND
85	1	15X6.00-6R	WHEEL, 15X6.00-6, 15 in OD TIRE, 6 in WIDE, 6 in DIA RIM, RIGHT-HAND
86	1	BK53	V-BELT, KEVLAR, BK53
87	1	BK75	V-BELT, KEVLAR, BK75
88	1	CH440-3275	ENGINE, KOHLER COMMAND PRO HORIZONTAL, 14 hp, ELECTRIC START
89	1	LAS1-AGQ19	SWITCH, EMERGENCY STOP, PULL/TWIST RESET, 32 mm DIA, SOLDER LEADS
90	1	UCFL205	FLANGE BEARING, OVAL, 2-BOLT, 25 mm SFT, 99 mm C-C
91	1	UCF214	FLANGE BEARING, SQ, 4-BOLT, 70 mm SFT, 152 mm C-C
92	2	6203-2RS	BALL BEARING, SEALED, 17 mm SFT, 40 mm HSG, 12 mm WD
93	1	6908-2RS	BALL BEARING, SEALED, 40 mm SFT, 62 mm HSG, 12 mm WD
94	1	6009-2RS	BALL BEARING, SEALED, 45 mm SFT, 75 mm HSG, 16 mm WD
95	4	HHB-MBE073FCJ	HEX HEAD BOLT, CLS 8.8, M6 X 1, 18 mm LG, FULL

Item	Qty	Part No.	Description
96	2	HHB-MBE085FCJ	HEX HEAD BOLT, CLS 8.8, M6 X 1, 30 mm LG, FULL
97	14	HHB-MBJ075FCJ	HEX HEAD BOLT, CLS 8.8, M8 X 1.25, 20 mm LG, FULL
98	2	HHB-MBJ080FCJ	HEX HEAD BOLT, CLS 8.8, M8 X 1.25, 25 mm LG, FULL
99	1	HHB-MBJ085FCJ	HEX HEAD BOLT, CLS 8.8, M8 X 1.25, 30 mm LG, FULL
100	3	HHB-MBM080FCJ	HEX HEAD BOLT, CLS 8.8, M10 X 1.5, 25 mm LG, FULL
101	4	HHB-MBM105FCJ	HEX HEAD BOLT, CLS 8.8, M10 X 1.5, 50 mm LG, FULL
102	2	HHB-MBR115PCJ	HEX HEAD BOLT, CLS 8.8, M12 X 1.75, 60 mm LG, 30 mm LG THD
103	4	HHB-MBR120PCJ	HEX HEAD BOLT, CLS 8.8, M12 X 1.75, 65 mm LG, 30 mm LG THD
104	3	HHB-MBU080FCJ	HEX HEAD BOLT, CLS 8.8, M12 X 1.25, 25 mm LG, FULL
105	2	HHB-MBR125PCJ	HEX HEAD BOLT, CLS 8.8, M12 X 1.75, 70 mm LG, 30 mm LG THD
106	2	HHB-MBR135PCJ	HEX HEAD BOLT, CLS 8.8, M12 X 1.75, 80 mm LG, 30 mm LG THD
107	1	HHB-UBV025FGE	HEX HEAD BOLT, GR 5, 3/8-24, 1-1/4 in LG, FULL
108	2	SNC-MBJ095FCJ	CARRIAGE BOLT, SQ NECK, CLS 8.8, M8 X 1.25, 40 mm LG, FULL
109	1	BHS-MAW063FCM	BUTTON HEAD SCREW, CLS 10.9, M4 X 0.7, 12 mm LG, FULL
110	12	BHS-MBE059FCM	BUTTON HEAD SCREW, CLS 10.9, M6 X 1, 10 mm LG, FULL
111	6	BHS-MBE067FTA	BUTTON HEAD SCREW, SST, M6 X 1, 14 mm LG, FULL
112	3	BHS-MBE071FCM	BUTTON HEAD SCREW, CLS 10.9, M6 X 1, 16 mm LG, FULL
113	20	BHS-MBJ073FCM	BUTTON HEAD SCREW, CLS 10.9, M8 X 1.25, 18 mm LG, FULL
114	8	BHS-MBJ080FCM	BUTTON HEAD SCREW, CLS 10.9, M8 X 1.25, 25 mm LG, FULL
115	2	HFH-MBR095FCM	SCREW, HFH, CLS 10.9, M12 X 1.75, 40 mm LG, FULL
116	4	HFH-MBR100FCM	SCREW, HFH, CLS 10.9, M12 X 1.75, 45 mm LG, FULL
117	2	PST-UBC015FAJ	SCREW, PPH, ST, NO. 10, 5/8 in LG
118	2	SHC-MBA059FCP	SHCS, CLS 12.9, M5 X 0.8, 10 mm LG, FULL
119	2	SHC-MBJ075FCP	SHCS, CLS 12.9, M8 X 1.25, 20 mm LG, FULL
120	4	HHS-MBM057069AJ	SHLDR SCREW, HEX HEAD, ALLOY, 11 X 15 mm LG SHLDR, M10 X 1.5 X 20 mm LG THD
121	2	KCS-MBE051GR	SET SCREW, KNURLED CUP POINT, GR 45H, M6 X 1, 6 mm LG
122	2	KCS-MBT063GR	SET SCREW, KNURLED CUP POINT, GR 45H, M12 X 1.5, 12 mm LG
123	2	KCS-MBJ055GR	SET SCREW, KNURLED CUP POINT, GR 45H, M8 X 1.25, 8 mm LG
124	6	FTW-MBE000AJ	FLAT WASHER, M6
125	34	FTW-MBJ000AJ	FLAT WASHER, M8
126	10	FTW-MBM000AJ	FLAT WASHER, M10
127	2	FTW-MBM165AJ	FLAT WASHER, DIN7349, M10, 4 mm THK
128	20	FTW-MBR000AJ	FLAT WASHER, M12
129	8	FTW-MBR000NA	FLAT WASHER, M12, NYLON
130	4	FTW-MCC000AJ	FLAT WASHER, M18
131	1	FTW-MCF000AJ	FLAT WASHER, M20
132	19	FDW-MBJ079000AJ	FENDER WASHER, M8, 30 mm OD
133	1	FDW-MBM075000AJ	FENDER WASHER, M10, 26 mm OD
134	4	FDW-MBM079000AJ	FENDER WASHER, M10, 30 mm OD
135	1	FDW-MBM084000AJ	FENDER WASHER, M10, 35 mm OD
136	4	FDW-MBR076145AJ	FENDER WASHER, M12, 27 mm OD, 2 mm THK
137	4	FDW-MBR086000AJ	FENDER WASHER, M12, 37 mm OD
138	12	SLW-MBEAJ	SPLIT LOCK WASHER, M6
139	3	SLW-MBJAJ	SPLIT LOCK WASHER, M8
140	3	SLW-MBMAJ	SPLIT LOCK WASHER, M10
141	1	SLW-MBRAJ	SPLIT LOCK WASHER, M12
142	2	HXN-MBJCH	HEX NUT, CLS 8, M8 X 1.25
143	4	HXN-MBMCH	HEX NUT, CLS 8, M10 X 1.5

Item	Qty	Part No.	Description
144	1	HLN-MAWCH	LOCK NUT, CLS 8, M4 X 0.7
145	9	HLN-MBECH	LOCK NUT, CLS 8, M6 X 1
146	6	HLN-MBETA	LOCK NUT, SST, M6 X 1
147	35	HLN-MBJCH	LOCK NUT, CLS 8, M8 X 1.25
148	8	HLN-MBMCH	LOCK NUT, CLS 8, M10 X 1.5
149	6	HLN-MBTCH	LOCK NUT, CLS 8, M12 X 1.5
150	10	HLN-MBRCH	LOCK NUT, CLS 8, M12 X 1.75
151	1	HLN-MCACH	LOCK NUT, CLS 8, M16 X 2
152	2	FLN-MBACH	LOCK NUT, FLANGED, CLS 8, M5 X 0.8

NOTES


WOODLAND
MILLS