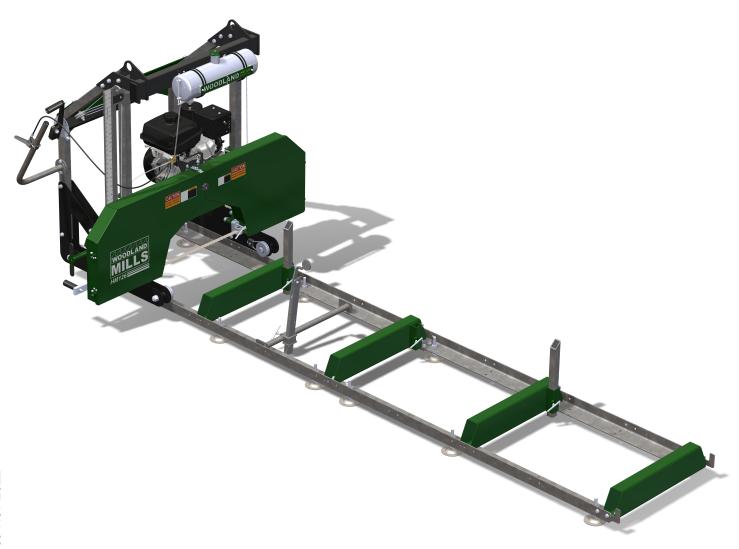
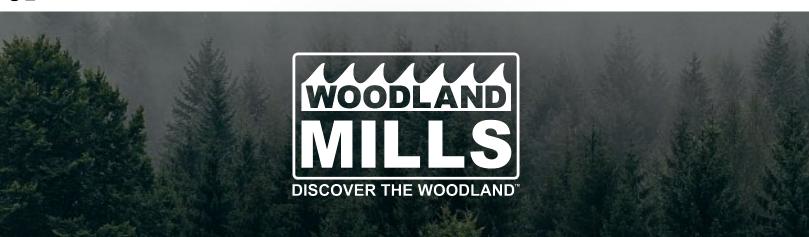
# **HM126 PORTABLE SAWMILL**

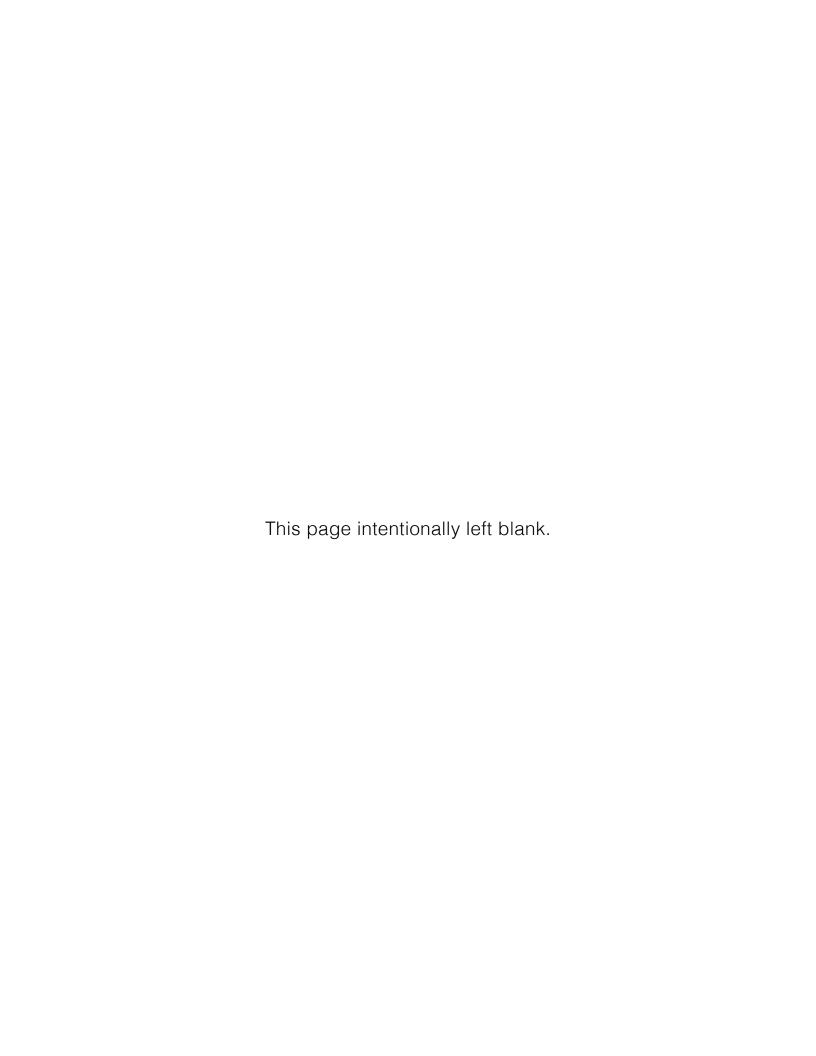
9.5 and 14 Horsepower Models



## **OPERATOR'S MANUAL**

0006110-M-EN: Rev B Publication Date: 09-Nov-2022







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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 sawmill. 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 sawmills are designed for acreage owners to aid in the milling of natural, untreated wood with the mill firmly supported on the ground. 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 there are safety, warning, and information symbols. Please heed and obey all warnings.

Symbol	Description
	Refer to instruction/operator's manual
	Wear protective gloves
	Wear safety footwear
	Wear eye protection
	Wear a face shield
	Wear a mask
	Wear ear protection
	Lift point
	Lockout electrical power (electric sawmills only)
<u>^</u>	General warning
4	Electricity warning
<b>e</b>	Instructions are different for electric sawmills. Refer to electric sawmill manual addendum for electric sawmill-specific instructions.
<b>@</b>	Instructions do not pertain to electric sawmills. Instructions can be skipped and ignored when working with an electric sawmill.

<sup>\*\*</sup>Look for symbols in the upper-right corner of the 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.





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.



#### **WORK AREA**

- Keep work area clean, free of clutter and well lit. Cluttered and dark work areas can cause accidents.
- Do not use your sawmill 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 alert 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.



#### 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
  which 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 nonskid safety shoes, hardhat, gloves, dust collection systems, and hearing protection when
  appropriate.
- **Do not overreach.** 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 make blade guide adjustments, remove or install blades, or conduct any other maintenance or make any other adjustments while the engine is running. Always shut the engine off, remove the ignition key, and turn the engine off before carrying out any of the aforementioned procedures. Consult your engine manual for safe shutdown procedures to prevent accidental ignition.



#### **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.
- **Never use the sawmill** with a malfunctioning switch or throttle. Any power tool that cannot be controlled with the switch is dangerous and must be repaired before using.
- 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.
- Secure logs with the log screw clamping device instead of with your hand or another individual's help. This safety precaution allows for proper tool operation using both hands.
- Storing sawmill. When the sawmill is not in use, store it in a dry, secure place or keep well covered and out of the reach of children. Inspect the sawmill for good working condition prior to storage and before re-use.
- Maintain your sawmill. It is recommended that the general condition of the sawmill be examined before it is used. Keep your sawmill in good repair by adopting a program of conscientious repair and maintenance in accordance with the recommended procedures found in this manual. If any abnormal vibrations or noise occurs, turn the sawmill off immediately and have the problem corrected before further use.
- **Keep saw blades sharp and clean.** Properly maintained bandsaw blades are less likely to bind and are easier to control.
- Cleaning and Lubrication. Use only soap and a damp cloth to clean your sawmill. Many household cleaners are harmful to plastic and rubber components on the sawmill.
- Use only accessories that are recommended by the manufacturer for your model.
   Accessories that may be suitable for another sawmill may create a risk of injury when used on the sawmill.
- Always operate 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 machine if any safety devices or quards are missing or inoperative.
- Never leave sawmill running unattended.
- Coiled blades can spring apart with considerable force and unpredictably in any direction. Always deal with coiled blades, including those packaged in boxes, with the utmost care.
- Never use the equipment to cut anything other than lumber or for any purpose other than cutting lumber as described in this manual.



#### **EQUIPMENT OPERATION**

1. Wear heavy-duty work gloves, ANSI-approved goggles behind a full face shield, steel-toed work boots, hearing protection, and a dust mask.



- 2. Operate only with assistance.
- 3. Cut-off branches from the lumber to be processed.
- 4. Place the lumber to be cut on the track supports.
- 5. Clamp the lumber firmly in place using the included log clamps and supports.
- 6. Fill the lubrication tank with clean water. Add no more than a teaspoon of liquid dish soap per full tank. The soap helps keep the blade clean(er) when excess pitch builds up.
- 7. Start and operate the engine according to the provided engine manual.
- 8. Depress the throttle to bring the blade up to speed—the throttle should be fully depressed while the saw is under load.
- 9. Roll the head assembly slowly along the track and against the lumber to make the cut.
- 10. Trim off the rounded sides of the log.
- 11. When the log is squared-off, boards or posts can be cut to standard or custom specifications.
- 12. To prevent accidents, turn off the engine and disconnect its spark plug wire after use. Wait for the engine to cool, clean external parts with a clean cloth, then store the equipment out of children's reach.



### **WARNING!**

To avoid death or serious injury, do not cut lumber containing embedded foreign objects such as nails, metal fragments, etc.



### **WARNING!**

The operator and any assistants must stay clear of the front and back of the blade whenever the engine is on.



#### **MAINTENANCE**

Proper and routine maintenance is critical to operator safety, achieving good milling results, and to prolong the life of your investment.

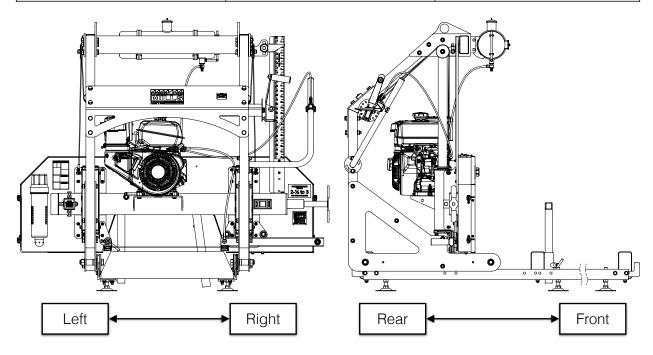
- Band Wheel Bearings Inspect before use to ensure they are not worn. Bearings are sealed and do not need to be greased.
- Blade Guide Bearings Inspect before use for excessive grooves or scoring in the bearing case. Replace if necessary.
- **Blade Tension** Grease tension handle threads when dry or as required. Use multipurpose, extreme-pressure grease.
- Log Clamps Spray the cam mechanism with dry silicone spray frequently.
- **Belts** Periodically check the condition and wear of the drive and idler belt. Ensure that the blade does not ride on the band wheels.
- **Drive Belt** Periodically check the tension of the drive belt.
- Carriage Posts (Front) Spray posts before use with a silicone spray lubricant such as "WD-40 Water Resistant Silicone Spray," "3-in-One Silicone Spray Lubricant," or "Jig-A-Loo."
- **Band Wheel Guards** Routinely remove any build-up of sawdust that may collect inside the band wheel guards.
- **Lubrication Tank** Fill with clean water. Add a teaspoon of liquid dish soap if pitch builds up on the blade. In winter months windshield washer fluid can be used. Do not leave water in tank if temperature falls below 32°F [0°C].
- Blade Lubricant Never use diesel fuel or kerosene as blade lubricant. These substances lead to premature wear of your belts and poor sawing performance. For winter operation, replace the water with windshield washer fluid.
- **Engine** Check the engine oil level before each use and maintain the engine per the instructions set out by the engine manufacturer in the engine manual. The engine is equipped with an oil alert system and will not start without adding oil before starting.
- Lifting Cables Before, during, and after operation, regularly inspect the cables for any wear or kinks. Ensure that the cables are in perfect condition. Oil the coiled part of the cable often to prevent premature wear. Replace with new cables as necessary.



### **TECHNICAL SPECIFICATIONS**

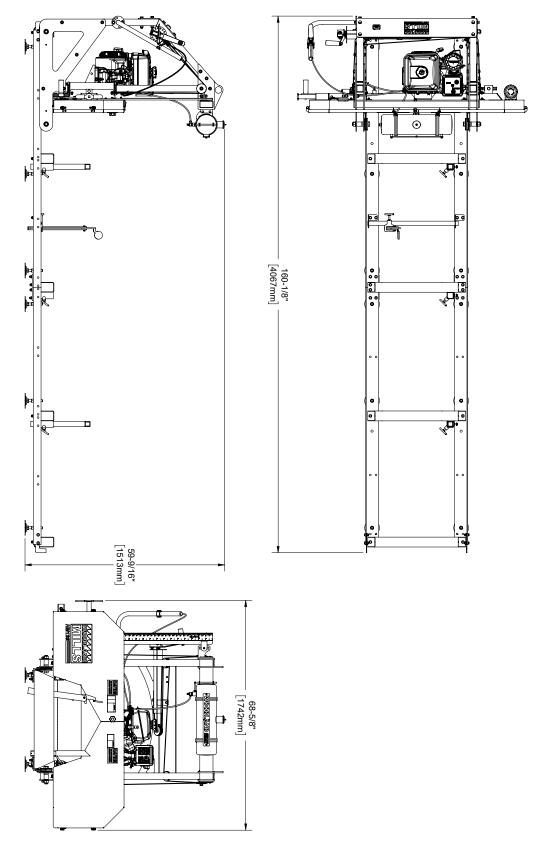
The HM126 sawmill comes in two variants: the *HM126-9.5* that utilizes a 9.5 horsepower engine and the *HM126-14* with a 14 horsepower engine and adjustable blade guide. Both versions are assembled and operated in the same manner. Pictures and graphics used in this manual display the HM126-14 sawmill but the instructions still apply to both.

Item	Item HM126-9.5 Specification HM12	
Gasoline Engine	9.5 hp Kohler Command Pro	14 hp Kohler Command Pro
Max Log Diameter	26 in [66	60 mm]
Max Board Width	24 in [6	10 mm]
Max Board Thickness	7 in [17	'8 mm]
Blade Size	1-1/4 x 144 in [32 mm x 3657 mm]	
Track Length	153-½ in [3900 mm]	
Track Width	30-½ in [775 mm]	
Track Height Adjustability (top of bunk)		
Product Weight	751 lb [341 kg] 771 lb [350 kg]	
Shipping Weight	935 lb [424 kg] 955 lb [433 kg]	





### **OVERALL DIMENSIONS**



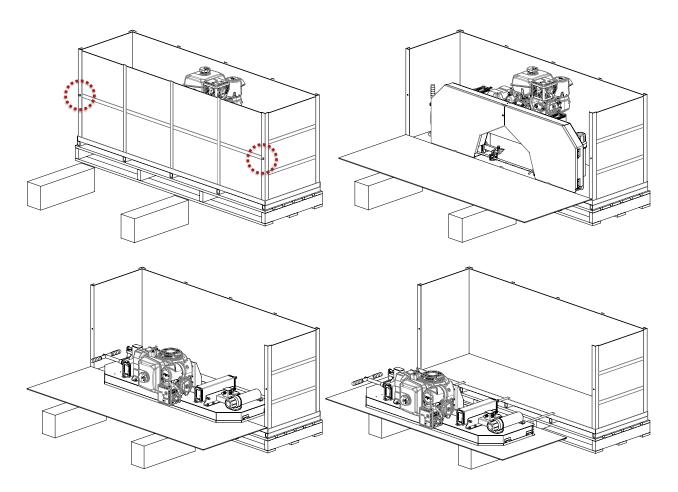


### **UNPACKING**

Unpack the contents of the crate except for the sawhead and the two long boxes in the bottom that contain the sections of track.

Unfasten the two (2) M8 bolts/nuts on the front of the crate using a socket/wrench. Place two (2) 6-8 in [150-200 mm] tall support blocks in front of the crate, bend the front of the crate down, and then lay the cardboard wall over it.

Carefully rotate the sawhead down onto the cardboard and support blocks and slide it out of the crate as shown below.



The two long track boxes can now be removed and the crate discarded.



### **COMPONENT LISTS**



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

4x	Track Rail [0001073]		2x	Bevelled Log Support [0001056]	
2x	Reinforcement Plate [0001072]		2x	Key Stop Log Support [0001465]	
1x	Centre Bunk [0001084]		3x	T-Bolt M10 X 40 mm [0001059]	
2x	Mid Bunk [0001080]		2x	Front Post [0001135]	
2x	End Bunk [0001075]		2x	Carriage Leg Assembly	
4x	Carriage Stop [0001055]		2x	Back Post [0002067]	
12x	Levelling Foot Base [0001071]		1x	Cross Beam [0001139]	
1x	Log Clamp Shaft/Bracket Weldment [0001062]	0	5x	Pulley [0001099]	
1x	Log Clamp Shaft Bracket [0001069]		4x	Spacer (12 mm Lg) [0002812]	
1x	Log Clamp Receiver [0001061]		1x	Spacer (5 mm Lg) [0002813]	

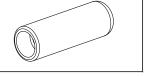


1x	Dashboard [0002066]		1x	Scale Indicator Bracket [Frnt] [0002098]	0
1x	Hour Meter [0002671]	NO AND THE COLUMN TO THE COLUM	1x	Scale Indicator Arrow [0002099]	0
1x	Lift Mechanism Assembly		1x	Knob M8 X 25 mm [0002764]	
1x	Lift Cable A (Right Side) [0003016]		1x	Lubrication Tank Assembly	EWOODLAND SEE
1x	Lift Cable B (Left Side) [0003015]		1x	Tank Bracket (Left) [0007795]	
1x	Scale Support [0002040]		1x	Tank Bracket (Right) [0007794]	
1x	Magnetic Scale (White) [0003235]	PROGRAMMA AND THE PLANT PLANTS OF THE PLANTS	2x	Bolt Clamp [0007528]	
1x	Magnetic Scale (Yellow) [0003233]	PORTURATION OF THE PROPERTY OF	1x	Drip Nozzle* [0001092] (*9.5 hp Only)	
1x	Scale Support Spacer Plate [0001038]		2x	Tubing [0002692 & 0002693]	
1x	Log Scale Mounting Bracket [0002096]	501	1x	Push Handle [0004511]	
1x	Scale Indicator Bracket [Rear] [0002097]		1x	Throttle Handle Assembly	



2x	Latch [0002248]	
1x	Knob M8 X 17 mm [0001659]	

1x Handle Grip\* [0004199] (\*14 hp Only)





### **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.

2x	HHB-MBE080FCJ	M6 X 1 X 25 mm HEX BOLT
4x	HHB-MBJ071FCJ	M8 X 1.25 X 16 mm HEX BOLT
1x	HHB-MBM080FCJ	M10 X 1.5 X 25 mm HEX BOLT
1x	HHB-MBR090FCJ	M12 X 1.75 X 35 mm HEX BOLT
14x	HHB-MBR135PCJ	M12 X 1.75 X 80 mm HEX BOLT
6x	HHB-MBR145PCJ	M12 X 1.75 X 90 mm HEX BOLT



1x	HHB-MBR155PCJ	M12 X 1.75 X 100 mm HEX BOLT
2x	HHB-MBR165PCJ	M12 X 1.75 X 110 mm HEX BOLT
1x	HHB-MBR175PCJ	M12 X 1.75 X 120 mm HEX BOLT
12x	HHB-MCA175FCJ	M16 X 2 X 120 mm HEX BOLT
34x	FHH-MBM080FCM	M10 X 1.5 X 25 mm FLANGED HEX BOLT
16x	<b>ГНН-МВМ090РСМ</b>	M10 X 1.5 X 35 mm FLANGED HEX BOLT

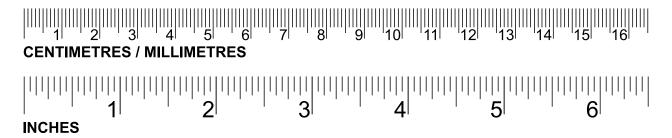


2x	FHH-MBM125PCJ	M10 X 1.5 X 70 mm FLANGED HEX BOLT
1x	SHC-MBR185FCP*	M12 X 1.75 X 130 mm SOCKET HEAD CAP SCREW
2x	PPH-MAW085FCE	M4 X 0.7 X 30 mm PHILLIPS PAN HEAD SCREW
8x	PFH-MAW059FCM	M4 X 0.7 X 10 mm PHILLIPS FLAT HEAD SCREW

\* M12 X 1.75 X 130 mm Socket Head Cap Screw not applicable on 9.5 hp sawmill

#### **SCALES**

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





### **WASHERS**

4x	FTW-MAW000AJ M4 FLAT WASHER				
52x	FTW-MBR000AJ** M12 FLAT WASHER				



<sup>\*\*</sup> Total M12 Flat Washer quantity 50x on 9.5 hp sawmill



### NUTS

6x	HXN-MBMCH M10 X 1.5 HEX NUT	36x	HXN-MCACH M16 X 2 HEX NUT
6x	HLN-MAWCH M4 X 0.7 LOCK NUT	2x	HLN-MBECH M6 X 1 LOCK NUT
4x	HLN-MBJCH M8 X 1.25 LOCK NUT	1x	HLN-MBMCH M10 X 1.5 LOCK NUT
26x	HLN-MBRCH*** M12 X 1.75 LOCK NUT	46x	FLN-MBMCL M10 X 1.5 FLANGED LOCK NUT

\*\*\* Total M12 X 1.75 Lock Nut quantity 25x on 9.5 hp sawmill



### **ASSEMBLY**

### 1. TOOLS REQUIRED

Tool	Specification			
Wrench/Socket	7 mm (2X)			
Wrench/Socket	10 mm (2X)			
Wrench/Socket	13 mm (2X)			
Wrench/Socket	14 mm (2X)			
Wrench/Socket	15 mm (2X)			
Wrench/Socket	16 mm (2X)			
Wrench/Socket	17 mm (2X)			
Wrench/Socket	18 mm (2X)			
Wrench/Socket	19 mm (2X)			
Wrench	24 mm or Adjustable Wrench (2X)			
Wrench	30 mm or Adjustable Wrench (2X)			
Hex Key	3 mm			
Hex Key	4 mm			
Phillips Head Screwdriver	No. 2			
Tape Measure	Standard Inch/Metric Tape Measure			

During several of the assembly steps, more than one socket or wrench of the same size may be required to assemble the hardware. A socket or box wrench in combination with an adjustable wrench can be utilized if multiple same size tools are in limited supply.



### **BOLT TORQUE WARNING!**

When assembling the sawmill, do <u>not</u> torque the bolts to hardware Class/Grade specifications. Snug the hardware, then tighten a further 14-12 turn. Tightening bolts to torque spec can crush metal tubing, ruining the components.



### 2. TRACK

Assemble the track with the provided components and hardware listed in the table below. It is important to assemble and level the track on a firm foundation before tightening all of the hardware and should ideally be 3-½-4 in [90-100 mm] off the ground. This will allow for easy cleanup of sawdust and log support height adjustments.

12x	M16 X 120 mm Hex Bolt	4x	Track Rail	
16x	M10 X 35 mm Flanged Hex Bolt	2x	Reinforcement Plate	
24x	M10 X 25 mm Flanged Hex Bolt	1x	Centre Bunk*	
36x	M16 Hex Nut	2x	Mid Bunk	
40x	M10 Flanged Lock Nut	2x	End Bunk	
12x	Levelling Foot Base	4x	Carriage Stop	

<sup>\*</sup> Centre bunk incorporates four (4) mounting holes at each end



If a Woodland Mills sawmill trailer was purchased with this sawmill, skip this track assembly section and follow the track assembly instructions in those manuals.





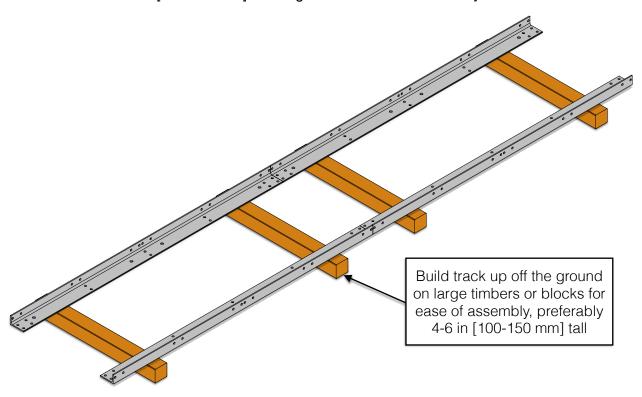
### **RAILS & CENTRE BUNK**

Assemble the centre bunk over the joint between both pairs of track rails using the components and hardware listed in the table below.

16x	M10 X 35 mm Flanged Hex Bolt	4x	Track Rail	
16x	M10 Flanged Lock Nut	2x	Reinforcement Plate	
		1x	Centre Bunk*	

<sup>\*</sup> Centre bunk incorporates four (4) mounting holes at each end.

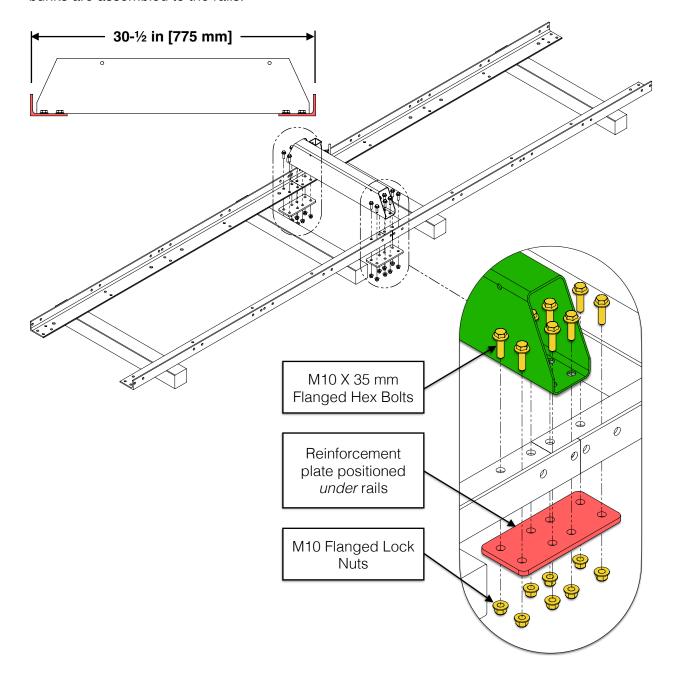
First, set the four (4) track rails on top of four pieces of lumber of equal height. It is ideal to keep the rails at least 4-6 in [100-150 mm] off the ground for ease of assembly..





Next, assemble the centre bunk over the rail joints with a reinforcement plate *under* the rails on both the left and right sides. Use eight (8) M10 X 35 mm flanged hex bolts and M10 flanged lock nuts per side.

Keep the outer faces of the rails 30-½ in [775 mm] apart but do <u>not</u> fully tighten the hardware. Snug the bolts enough so that minor adjustments to the track width can be made once all the bunks are assembled to the rails.



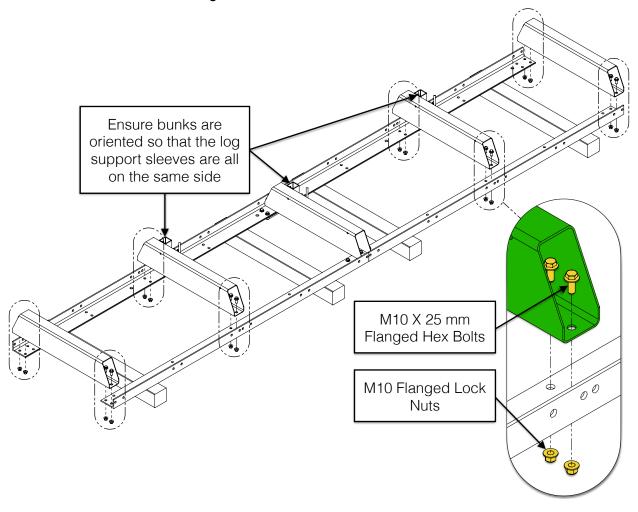


### MID & END BUNKS

Assemble the mid and end bunks in the locations shown using the components and hardware listed in the table below.

16x	M10 X 25 mm Flanged Hex Bolt	2x	Mid Bunk	
16x	M10 Flanged Lock Nut	2x	End Bunk	

Use sixteen (16) M10 X 25 mm flanged hex bolts and M10 flanged lock nuts (4 per bunk) at all end & mid bunk locations. Snug the hardware in the same manner as the centre bunk.

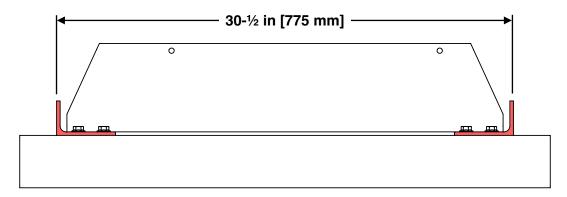




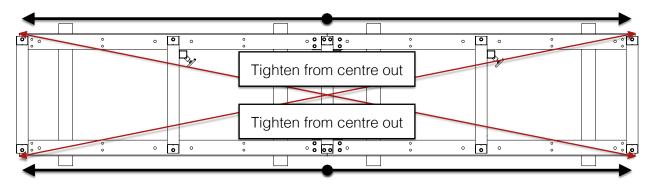
#### SQUARING THE TRACK AND SETTING THE WIDTH

The assembled track measures 30-½ in [775 mm] wide when measuring from the outside faces of the rails.

With the bunk hardware connections only snug-tight, the rails can be moved in or out as needed until the proper width is achieved along the entire length of the track.



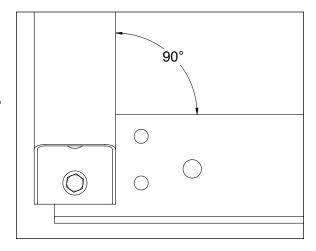
When the width is uniform along the full track length, check it for square by measuring diagonally from rail tip-to-rail tip as shown with the red arrows below.



Ensure the end bunks are square to the rails.

Once the width is correct and the track square, tighten all sixteen (16) M10 X 25 mm and sixteen (16) M10 X 35 mm flanged hex bolts and their nuts *working from the centre out towards the ends* as shown with the **black arrows** above.

Double-check the track width and squareness after tightening. Readjust if necessary.



**END BUNKS SQUARE TO RAILS** 

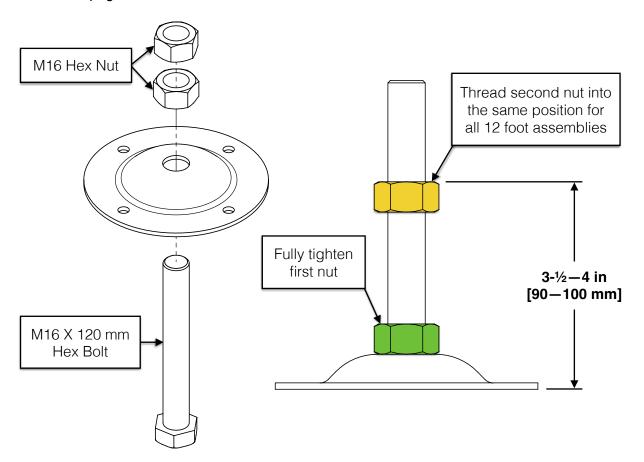


### LEVELLING FEET

Assemble the levelling feet using the components and hardware listed in the table below.

12x	M16 X 120 mm Hex Bolt	12x	Levelling Foot Base	0000
36x	M16 Hex Nut			

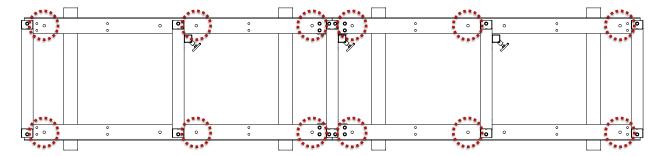
Assemble twelve (12) sets of levelling feet, each one with a levelling foot base, an M16 X 120 mm hex bolt, and two (2) M16 hex nuts. A third hex nut will secure the foot assembly to the rail on the next page.



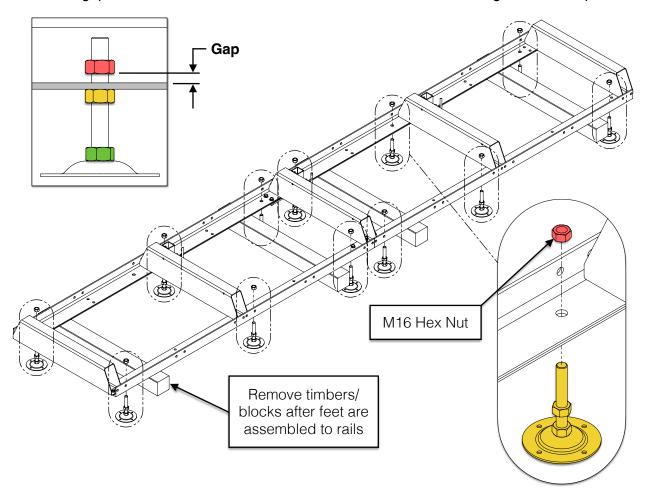
Fully tighten the bottom nut and position the second nut roughly  $3-\frac{1}{2}-4$  in [90-100 mm] from the bottom of the foot base. Ensure the position of the second nut is the same for all twelve (12) levelling foot assemblies.



Attach the twelve (12) levelling feet assemblies to the rails at the locations shown below.



Assemble the levelling feet up through the bottom of the rails and thread an M16 hex nut onto each of the M16 X 120 mm hex bolts. Do <u>not</u> tighten the nut. Leave it loose enough so a noticeable gap exists between the nut and the rail to allow for track levelling in a later step.

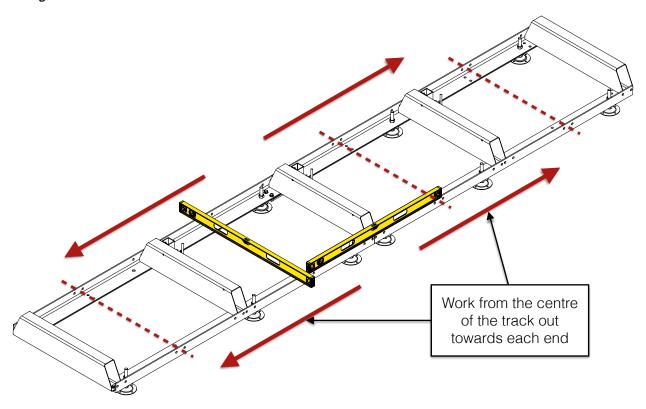


With the feet loosely assembled to the rails, remove the timber/block supports so the full weight of the track is resting on middle nuts of the levelling feet.

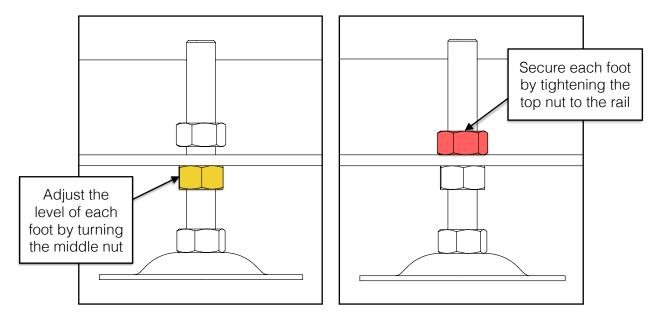


### LEVELLING THE TRACK

Working from the middle of the track out towards each end, check the rails for level lengthwise *along* the rails and widthwise *across* the rails.



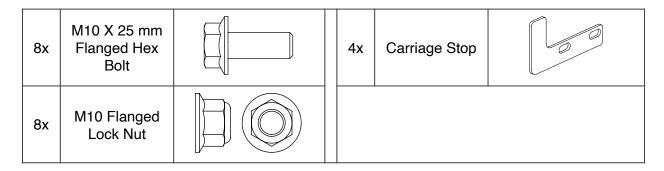
Turn the middle nut on each foot to fine-tune the level. Once level, secure each foot to the rail by tightening the M16 top nut.



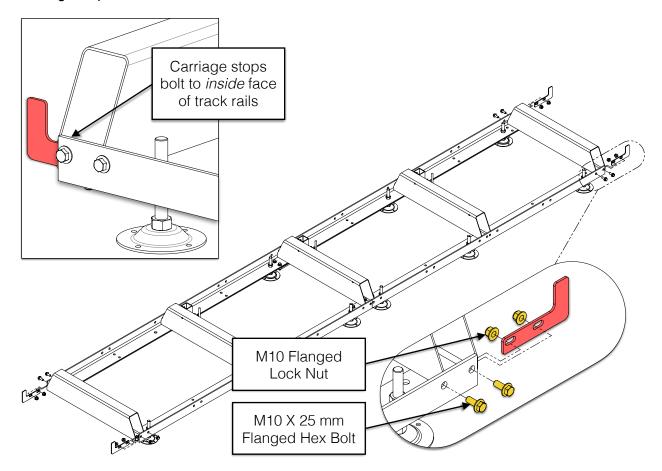


### **CARRIAGE STOPS**

Assemble the carriage stops to the *inside* face of the rails using the components and hardware listed in the table below.



Use two (2) M10 X 25 mm flanged hex bolts and M10 flanged lock nuts to assemble each carriage stop to the *insides* of the track rails.



Leave the carriage stops off one end if the sawmill head will be manually lifted onto the track. See section <u>PLACING THE HEAD ON THE TRACK (METHOD 2)</u>.

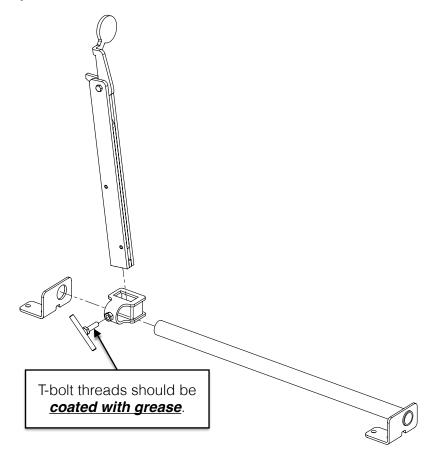


### LOG CLAMP

Assemble the log clamps using the components and hardware listed in the table below.

4x	M10 X 25 mm Flanged Hex Bolt	1x	Log Clamp Shaft/Bracket Weldment	0
4x	M10 Flanged Lock Nut	1x	Log Clamp Shaft Bracket	
1x	M10 X 40 mm T-Bolt	1x	Log Clamp Receiver	

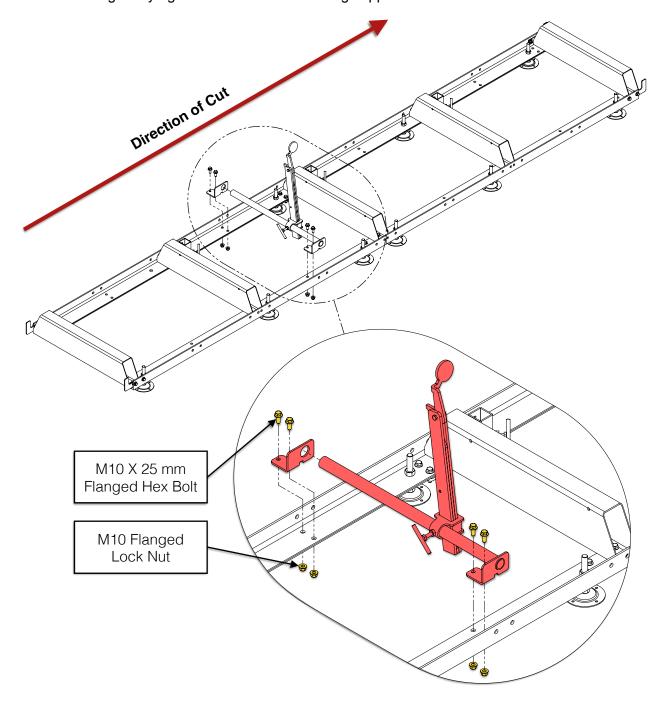
Slide the log clamp receiver with T-bolt over the shaft. Slide the log clamp into the receiver so that it angles away from the shaft weldment. Slide the shaft bracket over the end of the shaft.



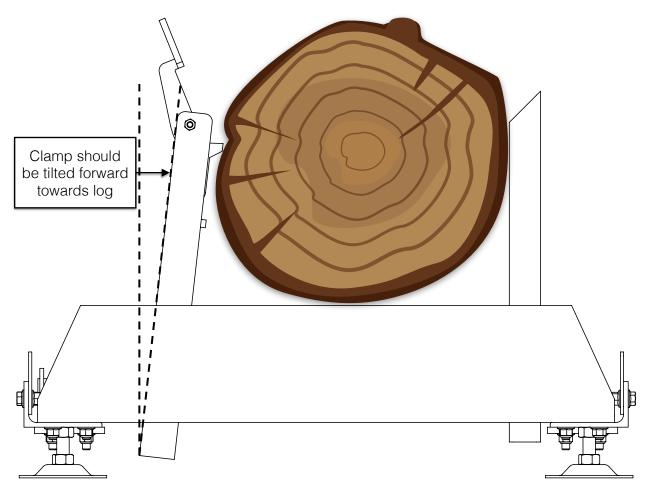


Attach the log clamp assembly to the rails as shown below using four (4) M10 X 25 mm flanged hex bolts and M10 flanged lock nuts.

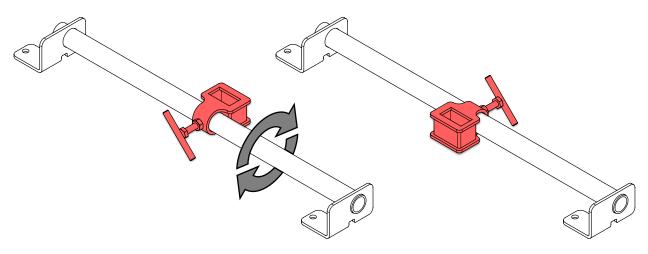
Note that there are multiple locations along the track where the log clamp can be bolted. Depending on how many track sections are being used, select a log clamp position that will secure the log firmly against a minimum of two log supports.







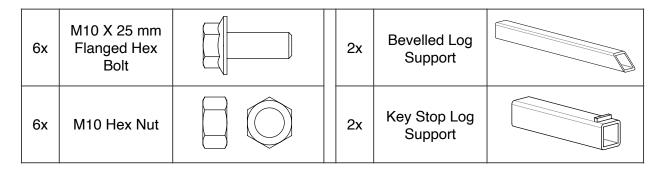
Ensure the log clamp tilts *towards* the log when clamping. If it tilts *away* from the log, remove the log clamp from the receiver, loosen the T-bolt, reverse the receiver on the shaft by rotating it 180°, and retighten the T-bolt. Insert the log clamp back into the receiver.



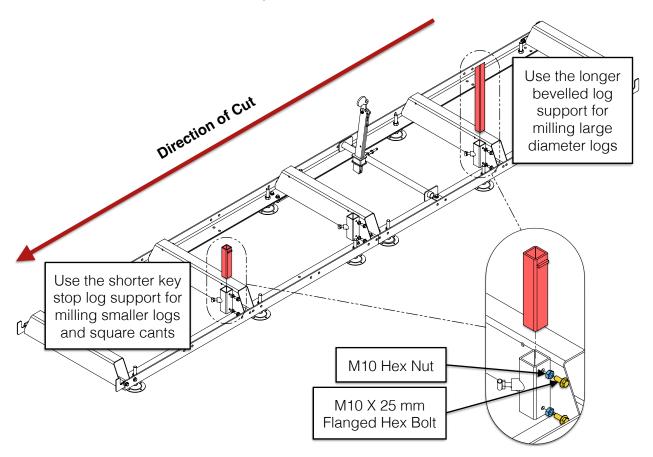


#### LOG SUPPORTS

Assemble the log supports to the centre and mid bunks using the components and hardware listed in the table below.



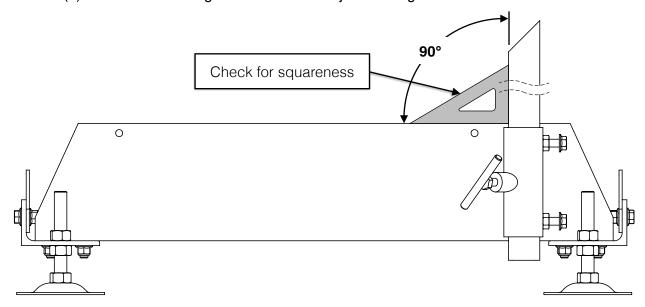
Assemble six (6) M10 X 25 mm flanged hex bolts and six (6) M10 hex jam nuts (2 each per bunk) into the threaded holes in the sleeves on the centre bunk and both mid bunks. These bolts are <u>not</u> used to secure the log supports—they help square the log support to the top face of the bunk if necessary. See next page for directions.



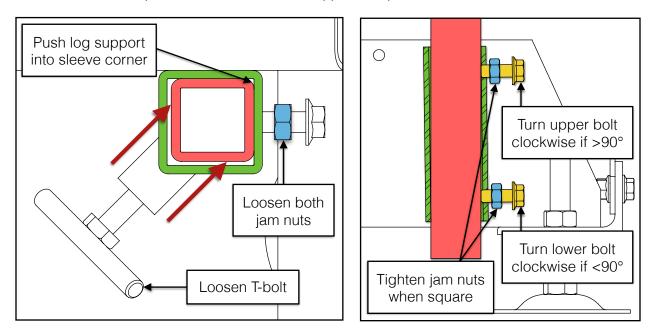
The log supports can be installed into any of the sleeves on the centre or mid bunks.



If the log support is not square (90°) to the top surface of the bunk when the T-bolt is tightened, the two (2) M10 X 25 mm flanged hex bolts can adjust the angle.



Loosen the T-bolt and push the log support into the corner of the bunk sleeve **making sure neither bolt protrudes into the sleeve**. Check for squareness. If the angle is less than 90°, turn the bottom bolt clockwise until the support is square with the bunk. If the angle is greater than 90°, turn the top bolt clockwise until the support is square with the bunk.



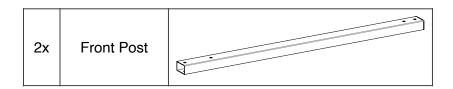
Once the log support is square with the top of the bunk, tighten both jam nuts. Secure the log support with the T-bolt. Repeat the process for the centre and mid bunks as necessary.



# 3. SAWMILL HEAD ASSEMBLY

The sawmill head assembly is built in multiple steps. Follow the sub-sections below using the parts table at the top of each sub-section to gather the necessary components for each step.

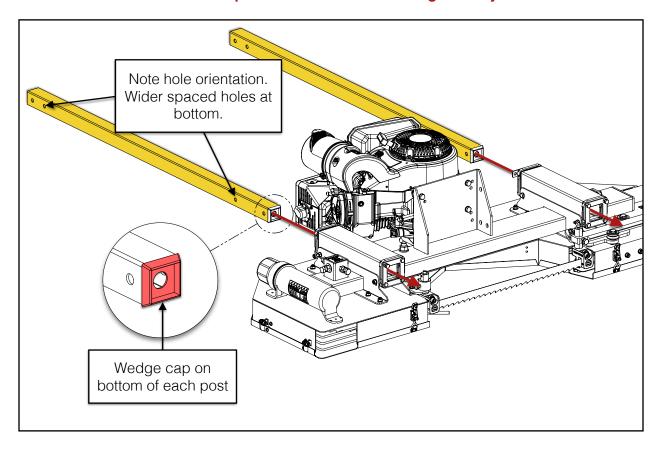
## FRONT POSTS



With the sawhead resting approximately 6 in [150 mm] above the ground, slide the two (2) front posts through the *top* of the post sleeves—do *not* assemble them from the bottom.

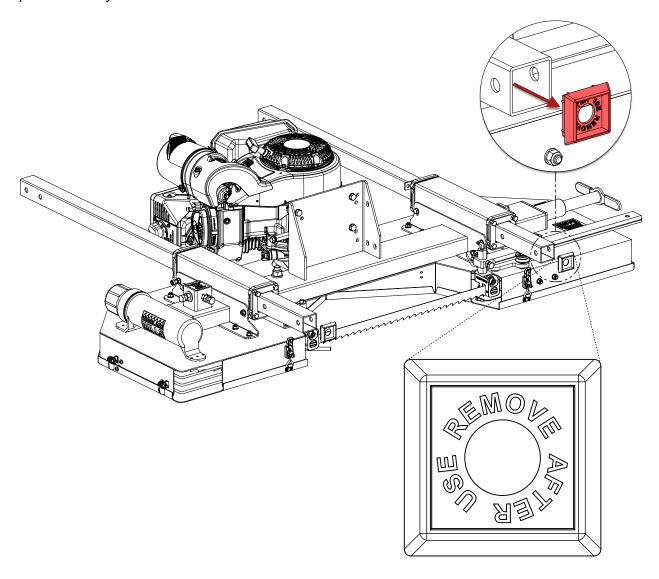
There are wedge-shaped caps on the bottom of each post to help aid the assembly of the posts through the nylon post sleeve bushings.

#### \*\*Orient both posts so the holes are facing sideways.\*\*





Remove the wedge-shaped caps from the bottom of both posts. They are only required for front post assembly.



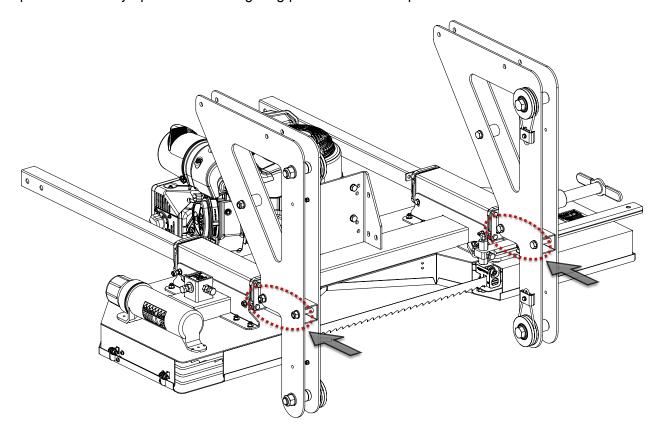


## **CARRIAGE LEGS**

The carriage leg sub-assemblies come loosely assembled from the factory. Final tightening of these bolts will be done in a later step. See the *CARRIAGE LEG, WHEEL, AND SWEEPER* exploded view for a more detailed part breakdown.

4x	M12 X 80 mm Hex Bolt	8:	M12 Flat Washer	
4x	M12 Lock Nut	2:	Carriage Leg Sub-Assembly	

Attach the two (2) carriage leg sub-assemblies to the front posts with four (4) M12 X 80 mm bolts, eight (8) M12 flat washers, and four (4) M12 lock nuts. Be sure the bolts point outward and the carriage wheels are positioned on the inside of the legs. Snug these four (4) M12 bolts just enough so that the plates are flush to the posts but do <u>not</u> fully tighten them. Push the posts all the way up until the carriage leg plates contact the post sleeves.

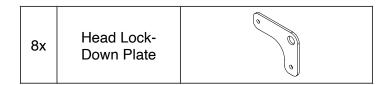




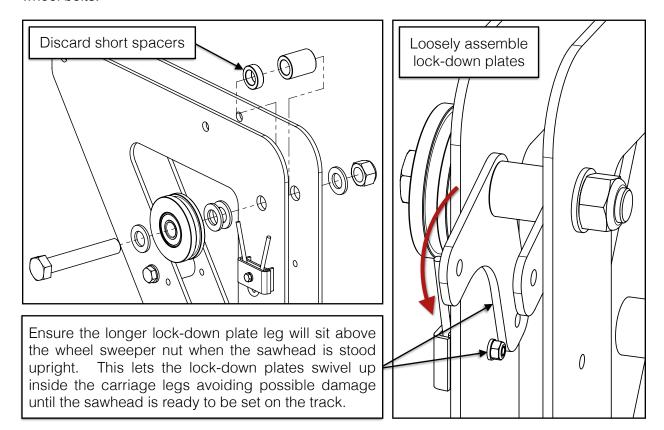
#### HEAD LOCK-DOWN PLATES

# \*\*Woodland Mills sawmill trailer owners only. If a sawmill trailer was not purchased, proceed to the next step.\*\*

If a Woodland Mills sawmill trailer was purchased with this sawmill, the head lock-down plates can be loosely installed prior to standing the sawhead upright. The lock-down plates come with the sawmill trailers and are not included with the sawmill.



Disassemble each carriage wheel and discard the short spacers as they are no longer necessary. Assemble one (1) lock-down plate on each side of the long spacers—between the carriage legs—and then reassemble the carriage wheels. Do <u>not</u> fully tighten the carriage wheel bolts.



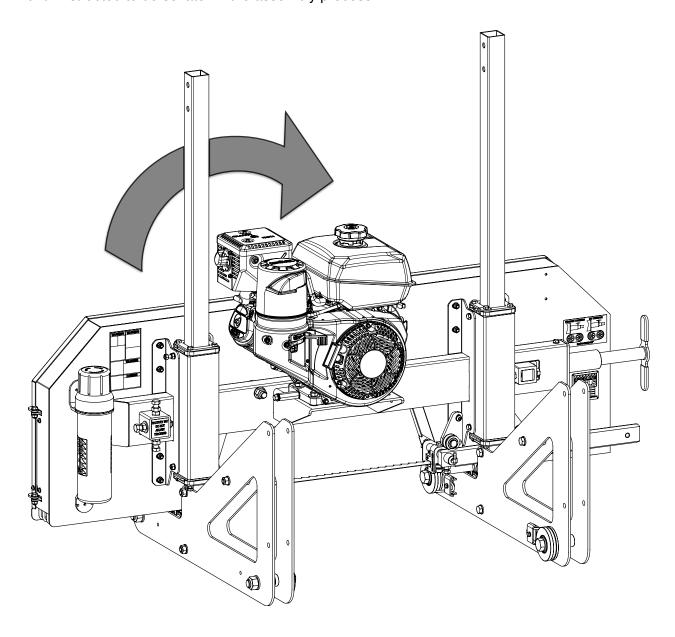
See section, *HEAD LOCK-DOWN PLATES*, in the sawmill trailer Operator Manuals to complete the lock-down plate installation once the sawmill is on the trailer.



## STANDING THE SAWHEAD UPRIGHT



With the help of another person, stand the sawhead upright by rotating it around the rounded profiles at the front of the carriage legs. Do <u>not</u> set the sawhead on the track until instructed to do so later in the assembly process.

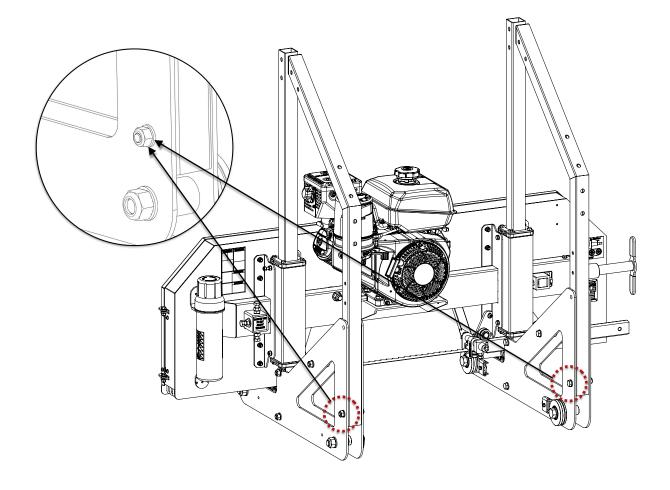




# **REAR POSTS**

Using the hardware listed below, attach the rear posts between the carriage leg plates using one (1) M12 X 80 mm bolt, two (2) flat washers, and one (1) lock nut per post.

2x	M12 X 80 mm Hex Bolt			
2x	M12 Lock Nut	2x	Rear Post	
4x	M12 Flat Washer			





## **CROSS BEAM**

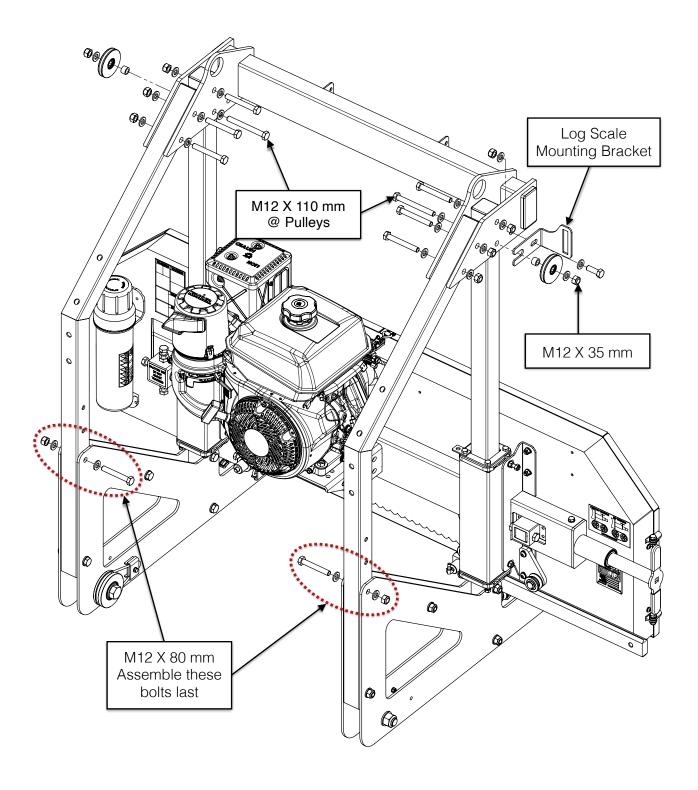
With the hardware listed below, assemble the cross beam to the carriage posts.

2x	M12 X 110 mm Hex Bolt	1x	Cross Beam	
6x	M12 X 90 mm Hex Bolt	1x	Log Scale Mounting Bracket	
2x	M12 X 80 mm Hex Bolt	2x	Pulley	
1x	M12 X 35 mm Hex Bolt	2x	Spacer [12 mm Lg]	
11x	M12 Lock Nut			
22x	M12 Flat Washer			

With the help of a second person, slide the cross beam over the carriage posts. Use six (6) M12 X 90 mm bolts and two (2) M12 X 110 mm bolts (with pulleys and spacers) to fasten it in place. Be sure to install the log scale mounting bracket on the right-side behind the pulley. Install all bolts so they are pointing outward. Use an M12 flat washer under every bolt head and lock nut.

Finally, install two (2) M12 X 80 mm bolts at the top of each carriage leg. Do *not* fully tighten these bolts at this time.







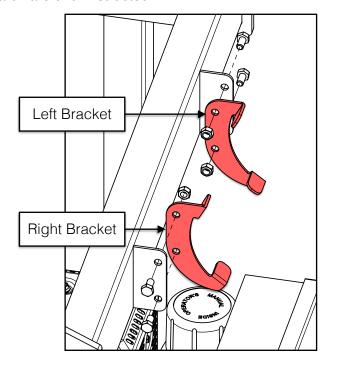
## **LUBRICATION TANK & TUBING**

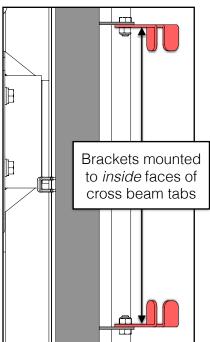


With the components and hardware listed below, assemble the lubrication tank to the front of the cross beam and route the plastic tubing.

4x	M8 X 16 mm Hex Bolt	1x	Lubrication Tank Backet [Left]	
4x	M8 Lock Nut	1x	Lubrication Tank Backet [Right]	
2x	Lubricant Tubing	2x	Bolt Clamp	
[1x]	Drip Nozzle [ <b>9.5 hp only</b> ]	1x	Lubrication Tank Assembly	[WOODLAND WE

Assemble the left and right lubrication tank brackets to the *inside* faces of the cross beam tabs using four (4) M8 X 16 mm bolts and lock nuts, ensuring the bolts point inward. Do *not* tighten the hardware until instructed.

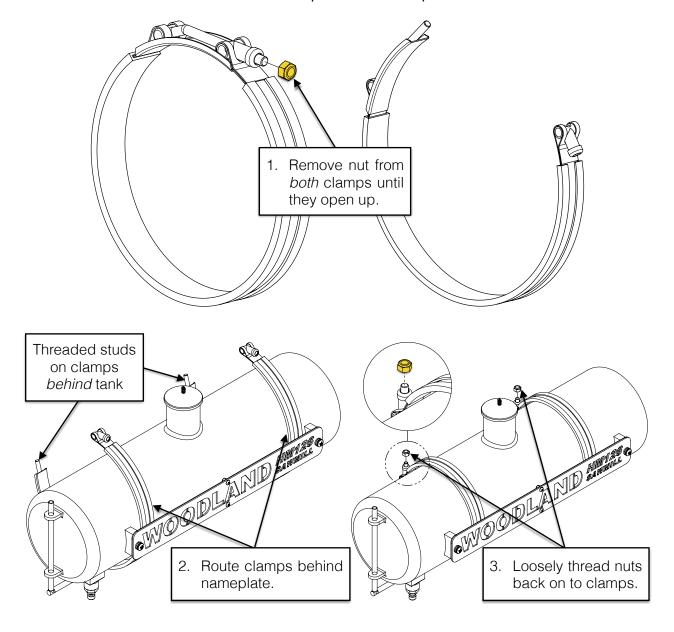






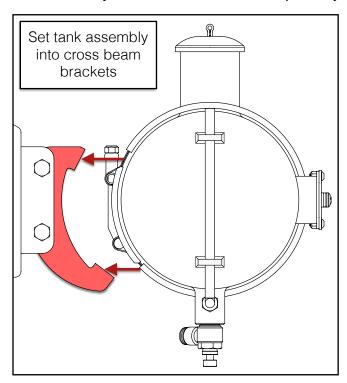
Before the lubrication tank can be attached to the cross beam, the bolt clamps need to be assembled to the tank as follows:

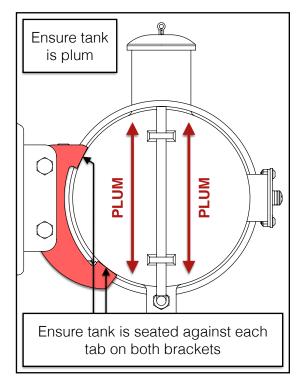
- 1. Remove the nut from each clamp so the clamp opens up.
- 2. Slide the clamps up from the bottom of the tank, going behind the nameplate on both sides, until they wrap around the tank.
- 3. Thread the nut back on to each clamp to close the loop but leave them loose.



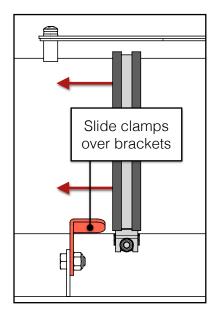


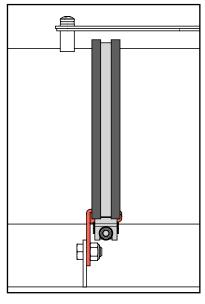
Set the tank assembly into the brackets on the cross beam, ensuring the tank is plum so water will drain freely. The tank must be held in place by hand until the clamps are in place.

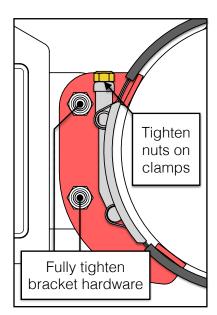




Slide the tank clamps over the tabs on the tank brackets on both sides. Verify the tank is still plum and then tighten the nuts on the clamps. Then fully tighten the bracket hardware until the tank is secure.





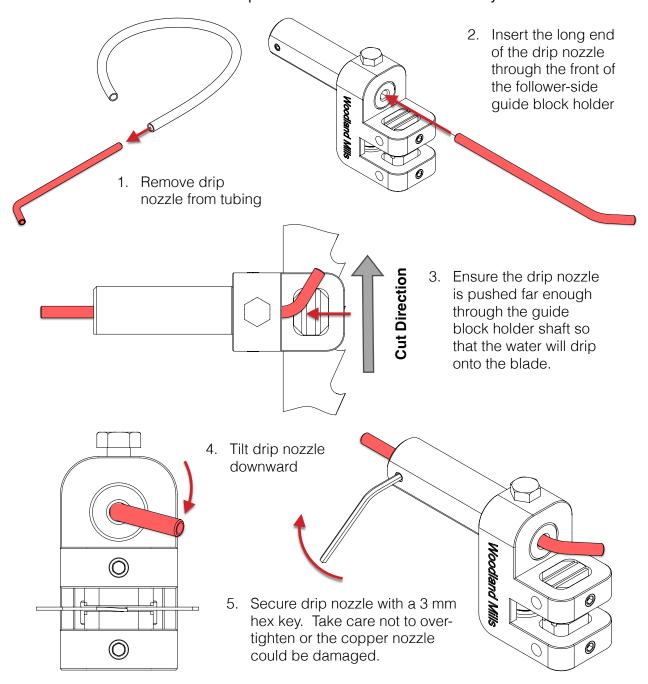


\*\*Do not over-tighten the clamps or the tank could be damaged.\*\*



# \*\*9.5 horsepower models only. However, if the optional adjustable blade guide kit was purchased for the 9.5 hp sawmill, ignore these steps.\*\*

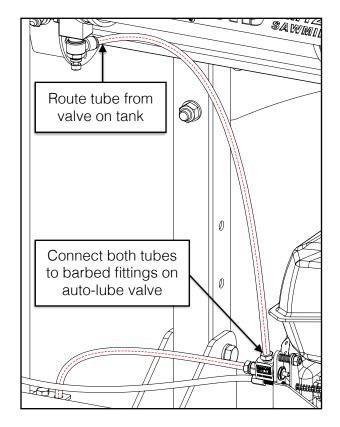
The copper drip nozzle comes assembled to one of the pre-cut lengths of tubing. Remove the the copper drip nozzle from the tubing and assemble it into the *follower-side* guide block holder as shown below. Other sawmill components have been removed for clarity.

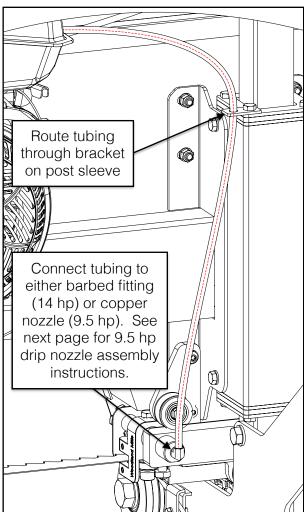




Route the shorter *tank-to-valve* tubing from the blue ring fitting on the tank to the <u>vertical</u> barbed fitting on the auto-lube valve.

Route the longer *valve-to-guide block* tubing from the <u>horizontal</u> barbed fitting on the auto-lube valve, down through the bracket on the post sleeve, then to either the barbed fitting (14 hp) or the copper drip nozzle (9.5 hp) on the guide block holder shaft.







## DASHBOARD & HOUR METER

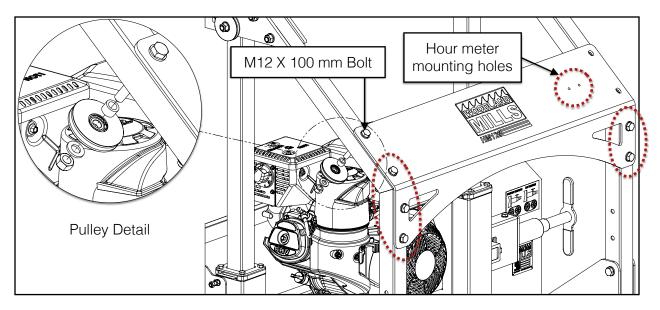


With the hardware listed below, assemble the dashboard to the rear carriage posts.

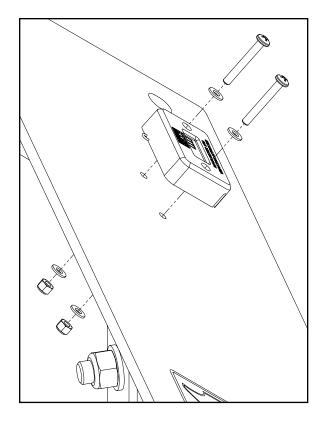
1x	M12 X 100 mm Hex Bolt	1x	Dashboard	
5x	M12 X 80 mm Hex Bolt	1x	Pulley	
2x	M4 X 30 mm Pan Head Screw	1x	Spacer [12 mm Lg]	
6x	M12 Lock Nut	1x	Hour Meter	STATE OF THE PARTY
2x	M4 Lock Nut			
12x	M12 Flat Washer			
4x	M4 Flat Washer			

Assemble the dashboard to the rear carriage posts with five (5) M12 X 80 mm bolts and one (1) M12 X 100 mm bolt (with pulley and spacer) as illustrated on the next page. Use an M12 flat washer under every bolt head and lock nut. Do *not* fully tighten these bolts at this time.





Assemble the hour meter to the right-side of the dashboard through the two (2) small holes. Use two (2) M4 X 30 mm pan head screws, four (4) flat washers (2 per screw), and two (2) lock nuts. Once the entire sawmill has been assembled, snip the wire loop at the top of the meter with either a razor or sharp knife. This will activate the meter to start measuring the vibration of the machine, recording the hours of use on the engine.





Cut wire loop on hour meter after sawmill is assembled



## LIFT MECHANISM

With the hardware listed below, assemble the lift mechanism to the carriage.

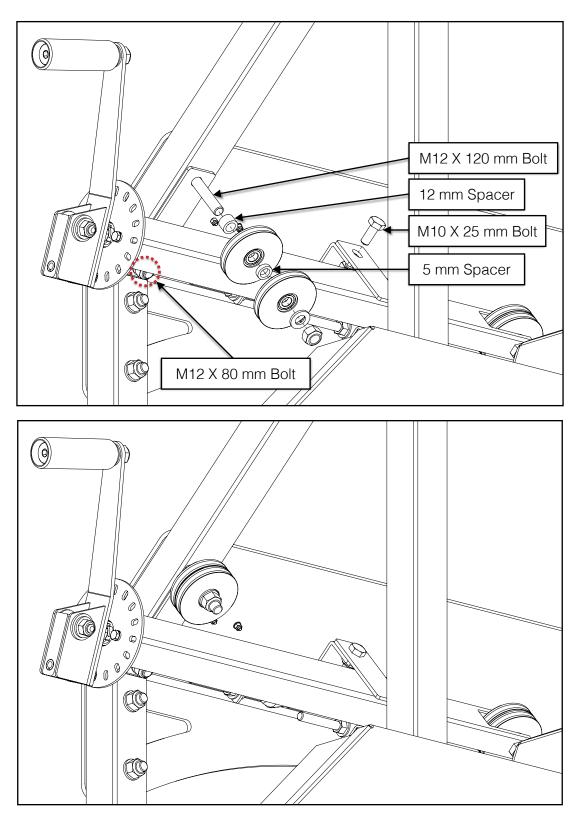
1x	M12 X 120 mm Hex Bolt	1x	Lift Mechanism Sub-Assembly	
1x	M12 X 80 mm Hex Bolt	2x	Pulley	
1x	M10 X 25 mm Hex Bolt	1x	Spacer [12 mm Lg]	
2x	M12 Lock Nut	1x	Spacer [5 mm Lg]	
1x	M10 Lock Nut			
4x	M12 Flat Washer			

Attach the lift mechanism assembly to the underside of the right-rear carriage post as shown on the next page.

Use one (1) M12 X 120 mm bolt (including the pulleys and 2 spacers—5 mm spacer *between* pulleys) and one (1) M12 X 80 mm bolt. Use an M12 flat washer under each bolt head and lock nut. Fasten the centre tab to the inside of the dashboard using an M10 X 25 mm bolt and nut.

Do not fully tighten these bolts at this time.







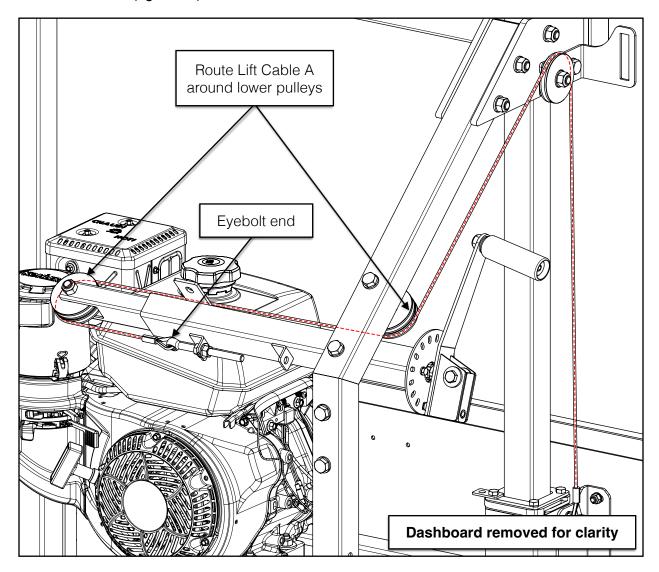
## LIFT CABLE ROUTING

Route the lift cables listed below.



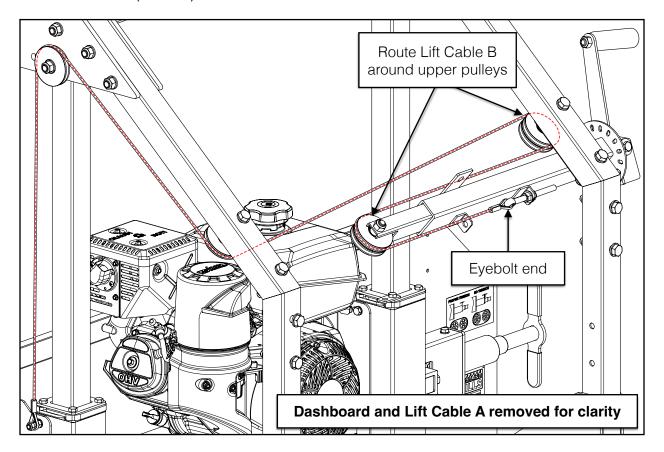
Each wire rope lift cable comes connected to the back beam at one end and a threaded eyebolt with two (2) M10 flange nuts at the other end. The cable lengths are unique to each side so do not swap them.

Route lift cable A (right side) as shown below.

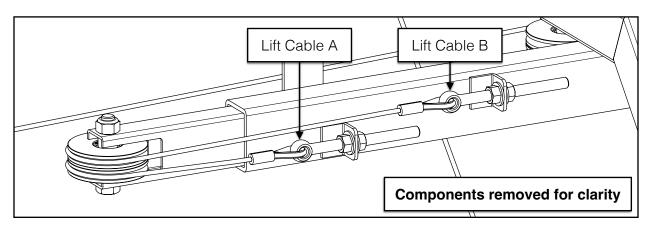




Route lift cable B (left side) as shown below.



Unthread one (1) M10 flanged nut from each eyebolt, then insert the eyebolt into the bracket on the bottom side of the lift mechanism housing. Secure the eyebolt to the bracket with the M10 flange nut that was removed, sandwiching the bracket between both flange nuts. Repeat the process for the other lift cable. Do not fully tighten this hardware.





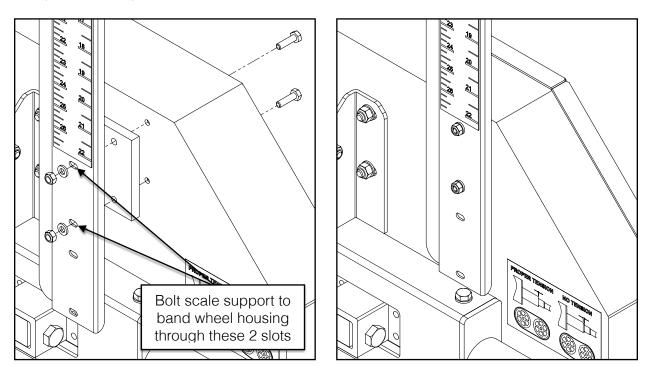
# LOG SCALE

With the hardware listed below, assemble the log scale components.

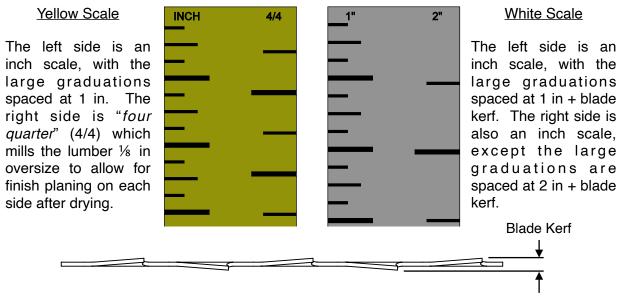
2x	M6 X 25 mm Hex Bolt		1x	Scale Support	
2x	M6 Lock Nut		1x	Magnetic Scale [White]	
2x	M6 Flat Washer		1x	Magnetic Scale [Yellow]	mgrangrangrangrangrangrangrangrangrangran
			1x	Scale Support Spacer Plate	0
			1x	Scale Indicator Arrow Bracket [Rear]	
			1x	Scale Indicator Arrow Bracket [Front]	0
			1x	Scale Indicator Arrow	0
			1x	M8 X 25 mm Knob	



Bolt the scale support and spacer plate to the band wheel housing with two (2) M6 X 25 mm bolts, flat washers, and lock nuts as shown below.



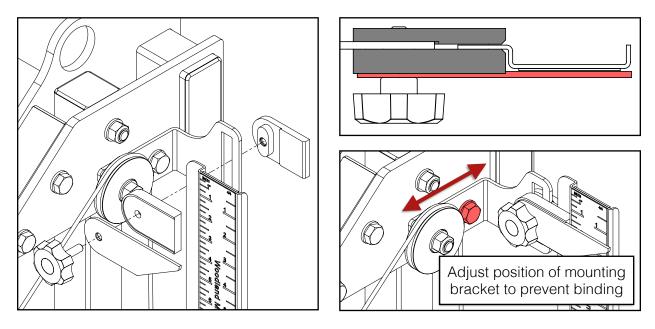
Note: the sawmill comes with two (2) different magnetic scales: one yellow, one white. Each with two different graduations down the left and right sides.



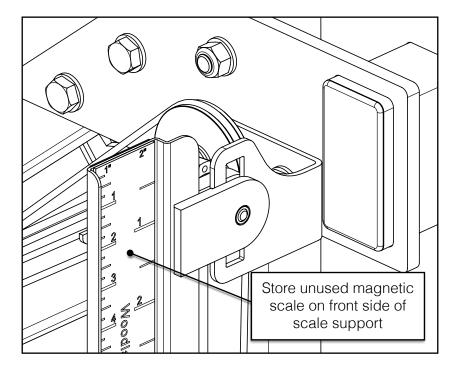
The graduations on the white magnetic scale make allowances for the blade kerf. On the yellow magnetic scale the kerf is not accounted for in the measurements.



Assemble the indicator arrow brackets and arrow to the log scale mounting bracket using the M8 threaded knob. Adjust the position of the mounting bracket forwards or backwards if the arrow locking plates bind on the log scale bracket as the sawhead is raised and lowered.



Store the other magnetic scale on the front side of the scale support when not in use.





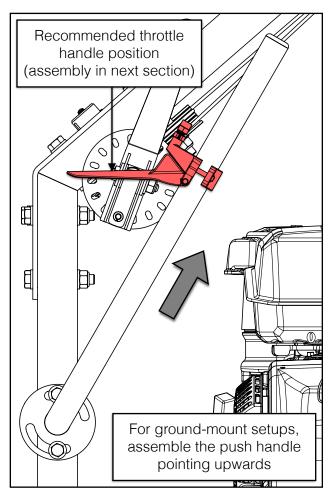
#### **PUSH HANDLE**



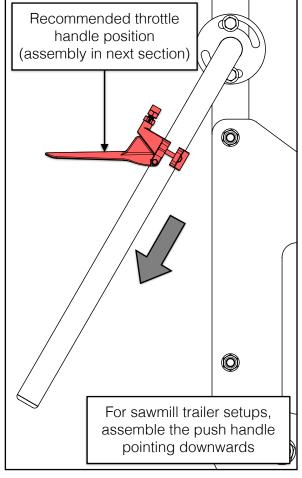
With the hardware listed below, assemble the push handle to the right rear carriage leg.

2x	M10 X 70 mm Flanged Hex Bolt		1x	Push Handle	
2x	M10 Lock Nut				

The push handle is installed in an upward position when the sawmill is ground-mounted (**below-left**). Or it can be rotated 180° if the sawmill is high above the ground on a sawmill trailer or on a purpose-built stand (**below-right**).



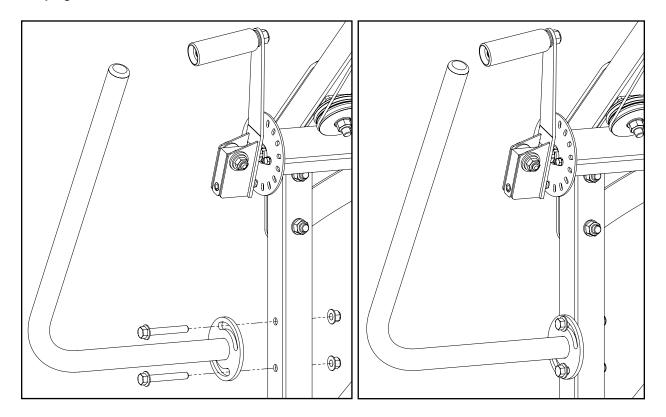
Ground-Mount Push Handle and Throttle Handle Recommended Position



Sawmill Trailer Push Handle and Throttle Handle Recommended Position



When a desired push handle orientation has been decided upon, attach the push handle to the side of the post using two (2) M10 X 70 mm bolts and M10 flanged lock nuts as shown below. Fully tighten these bolts.



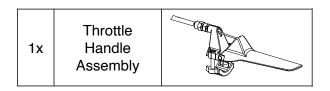
The push handle can be adjusted/rotated forwards or backwards to suit the ergonomics of the operator in either ground-mount or sawmill trailer configurations.



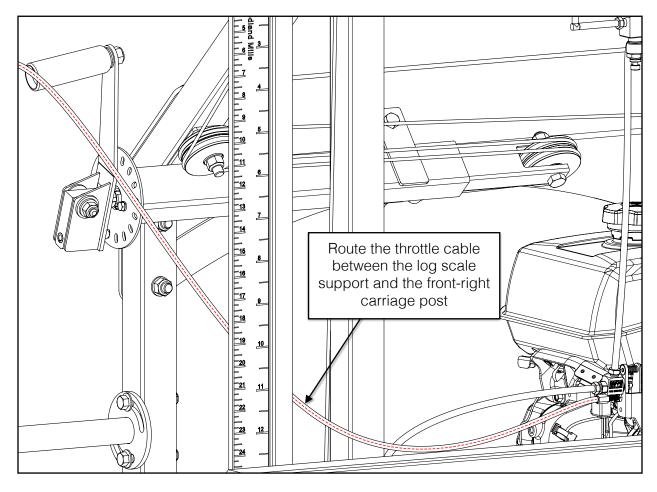
## THROTTLE HANDLE AND CABLE



The throttle handle and its mounting hardware come loosely assembled. The throttle cable is already connected between the handle and throttle lever on the engine.

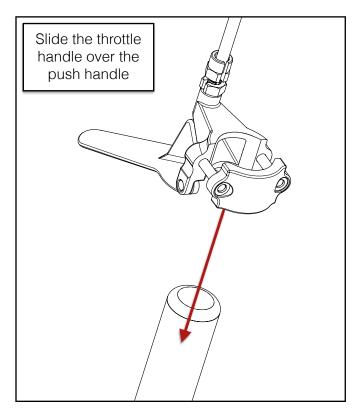


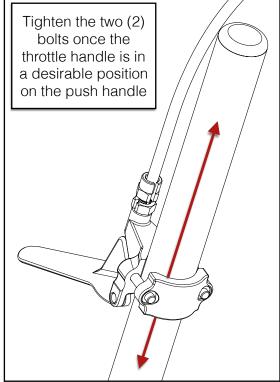
Before assembling the throttle handle to the push handle, ensure the throttle cable routes from the engine and then between the log scale support and the front-right carriage post as shown below.





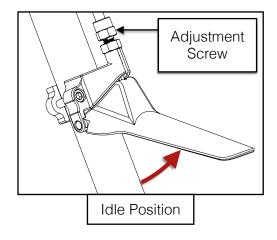
Slide the throttle handle assembly over the end of the push handle. The throttle can be positioned anywhere along the length of the push handle as desired by the operator. Fully tighten the two (2) bolts to secure the throttle handle.

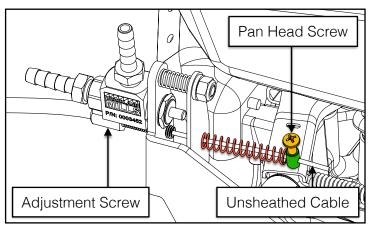




To take the slack out of the throttle cable, first loosen the M4 Phillips pan head screw where the unsheathed portion of the cable is attached to the engine. Pull the throttle handle all the way up until it stops (Idle Position). Ensure each end of the throttle cable is fully nested into both adjustment screws. Then use pliers to pull the unsheathed end of the cable until it is tight.

Tighten the Phillips pan head screw while the cable is being pulled tight to secure it.





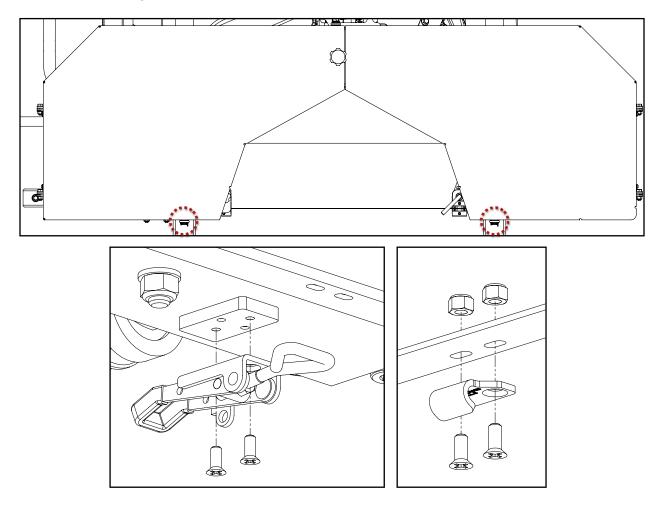


## BAND WHEEL DOOR LATCHES

Using the hardware listed below, assemble the two (2) bottom band wheel door latches.

8x	M4 X 10 mm Phillips Flat Head Screw	2x	Latch	
4x	M4 Lock Nut			

Use two (2) M4 X 10 mm flat head screws per latch. Assemble the latches to the pre-installed spacers on the bottom of the band wheel housing. On each band wheel door, install the hookshaped catch using two (2) M4 X 10 mm flat head screws with lock nuts.





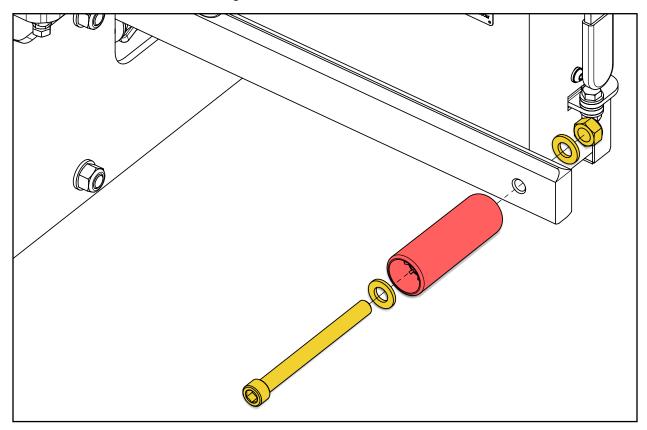
## ADJUSTABLE BLADE GUIDE HANDLE

\*\*14 horsepower models only. If the 9.5 horsepower model was purchased, proceed to the next step.\*\*

Using the hardware listed below, assemble the handle to the aluminum adjustable blade guide arm.

1x	M12 X 130 mm Socket Head Cap Screw	2x	M12 Flat Washer	
1x	M12 Lock Nut	1x	Handle Grip	

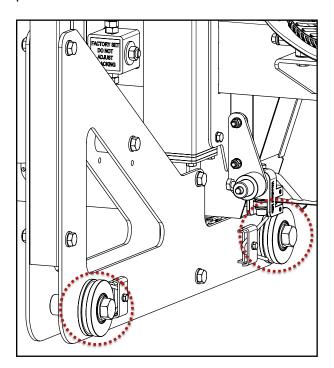
Assemble the handle by passing the M12 X 130 mm socket head cap screw through one (1) M12 flat washer and the handle, and thread it into the aluminum blade guide arm. Then secure it on the back side of the arm using the other M12 flat washer and M12 lock nut.

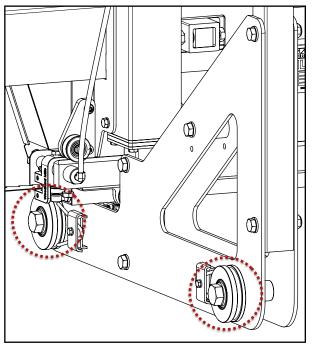




# TIGHTEN CARRIAGE WHEEL BOLTS

Tighten the four (4) M20 X 120 mm bolts that fasten the carriage wheels to the carriage side plates.





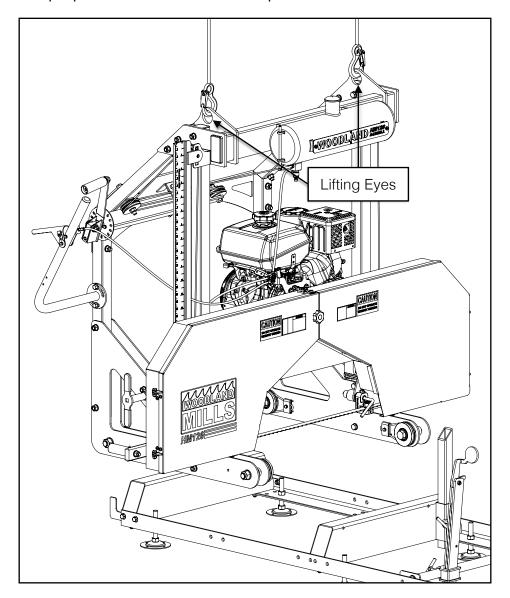


# 4. PLACING THE HEAD ON THE TRACK

At this point, most of the sawmill head bolts should only be hand tight. They will be fully tightened when the head is on the track and has settled in to a true and square state. There are two methods in which the sawmill head can be lifted onto the track assembly:

#### METHOD 1

If a tractor or forklift is available, the head can be lifted onto the track with a lifting strap or chain with a minimum rating of 1000 lb. [450 kg]. Attach the lifting strap/chain to the lifting eyes, raise the head up, and rest it on the track so that the grooves in the carriage wheels fit around the track rails. Two people are recommended for this procedure.

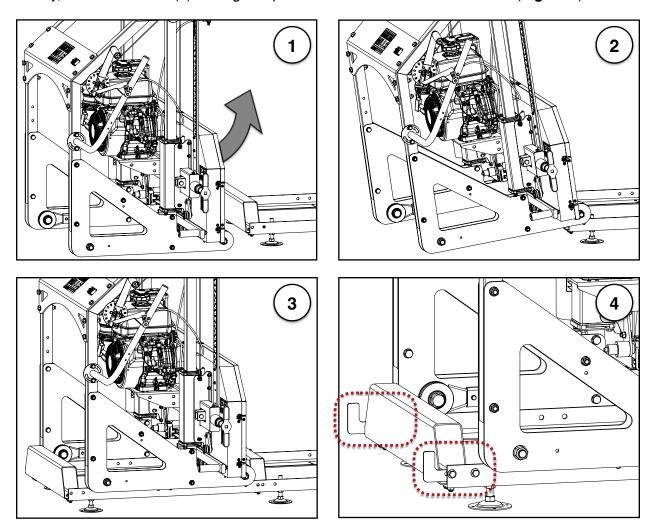




#### METHOD 2

At least two people are required for this step. Start by removing the two (2) carriage stops from one end of the track. The head can be walked over to the track until positioned behind it (**Figure 1**). Once in this position, tilt the head backwards so that the front two wheels are off the ground. Walk the head forward while the grooves in the two front carriage wheels ride along the track rails (**Figure 2**). Next, using at least two people, lift up the back end of the sawmill head and walk it forward until both rear carriage wheels are seated on the track (**Figure 3**).

Finally, reattach the two (2) carriage stops to the inner faces of the track rails (Figure 4).



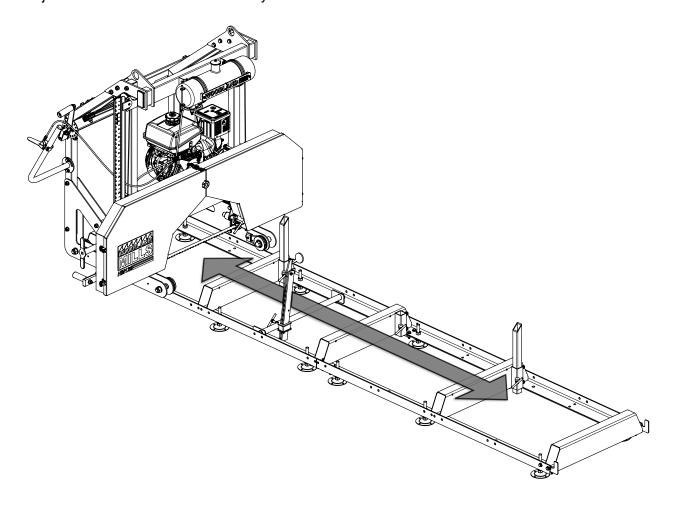
With the sawmill head assembly now resting on the track, grab hold of the one side of the cross beam and perform a shake-down of the head. Shaking the head will help settle the components into their proper position that may have become misaligned either due to tolerances during the assembly process or when the saw head was set on the track.

Afterwards, tighten all of the saw head bolts, post and cross beam hardware.



## ROLLING THE SAWMILL HEAD ASSEMBLY

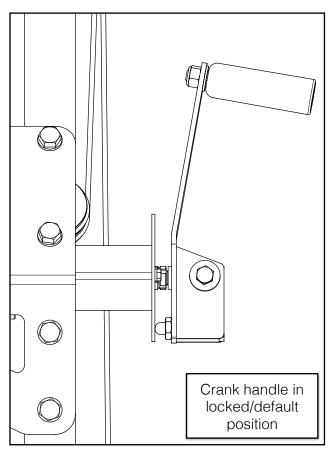
Roll the sawmill head assembly along the full length of the track to ensure it moves freely. If it binds or is difficult to push it is likely the track is not square, straight, and/or level. Make the necessary adjustments to the track and roll the head assembly again. Repeat the track adjustments until the head rolls freely.

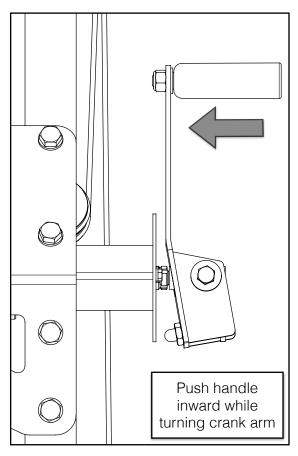


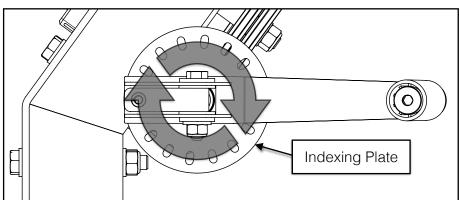


## RAISING & LOWERING THE SAWHEAD

The lift mechanism is equipped with a self-locking, spring-loaded crank arm that prevents the head from lowering during cuts. When winding the head up or down, the operator pushes the handle towards the mill as the crank arm is turned. When the desired cut depth is reached, releasing the handle will lock the arm into one of the slots in the indexing plate.



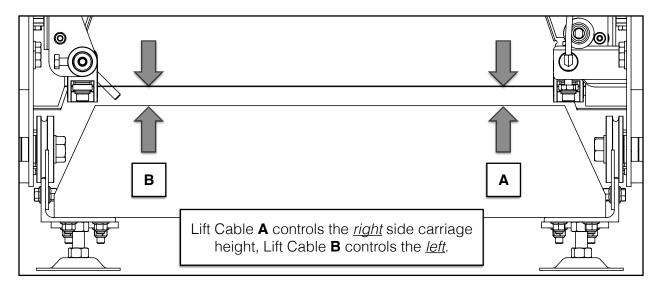






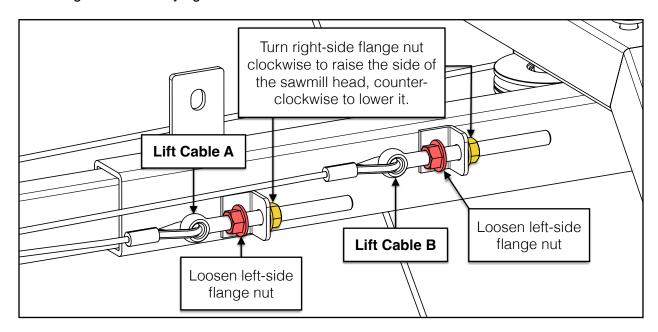
#### LEVELLING THE SAWMILL HEAD ASSEMBLY

Using a tape measure, measure the distance from the blade to the top of the log bunk on both the left and right side. The distance should be equal. If the measurements are not equal, adjust the lift cable ends under the lift mechanism sub-assembly to either raise or lower one side.



Loosen the left-side flange nuts on the lift cable eyebolts first. Turn the right-side flange nuts clockwise to raise one side of the sawmill head assembly, or counter-clockwise to lower it. Double-check the blade height as discussed in the previous step.

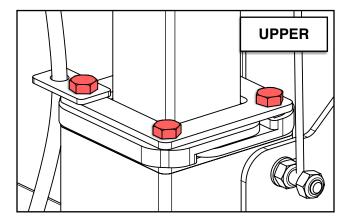
Once the measurements on both sides are equal and the sawmill head is level, tighten the leftside flange nuts securely against lift mechanism brackets.

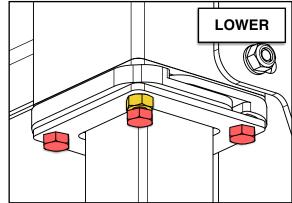




#### ADJUST THE POST SLEEVE BUSHINGS

Once the sawmill head assembly is level, loosen the eight (8) hex bolts (4 top, 4 bottom) just enough so the bushings can be pushed forwards and backwards. Do this for both sides of the sawhead.



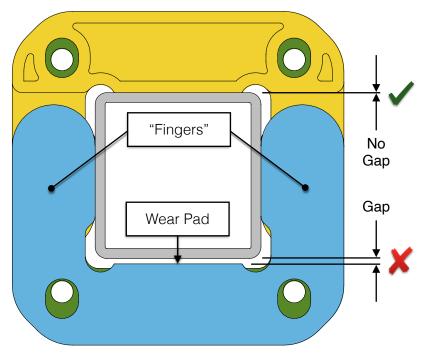


Push the bushings together (front-to-rear) so that there is no gap between the bushing wear pads and the front/rear faces of the post as shown below.

The bushing side "fingers" naturally push inwards so as they wear, continuous pressure is applied to each side of the carriage post.

However, the front & rear wear pads on the bushings do not self-adjust. As a gap appears over time due to wear, simply loosen two (2) bolts on one side and push the bushing towards the post until they are flush again.

The bushing holes are slotted to allow for this future adjustment.

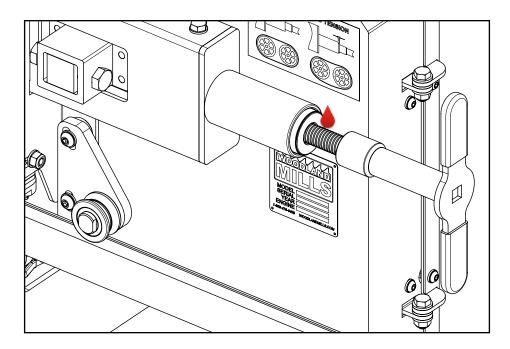


With the wear pads flush with the posts, tighten all the hex bolts and spray the posts with a water resistant silicone lubricant such as "WD-40 Water Resistant Silicone Spray" or "3-in-One Silicone Spray Lubricant."



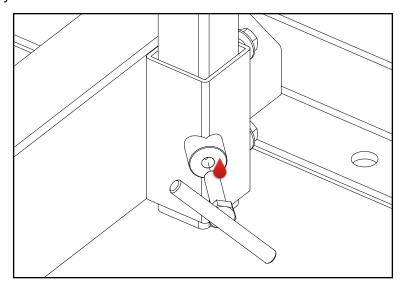
#### **GREASING THREADS**

Add waterproof grease to the tension handle threads and to the mating thrust bearing face prior to use.



\*\*Note: It is very important to take the tension off the blade by turning the tension handle in the counter-clockwise direction when the sawmill is not in use. Failure to do so will result in flat spots on the rubber belts. These flat spots will cause the mill to vibrate excessively during subsequent uses.\*\*

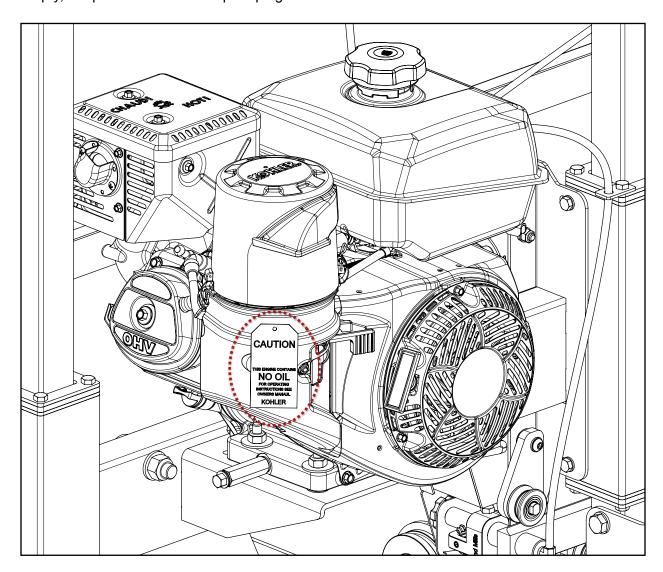
Add grease to all T-bolt threads on the sawmill track: three (3) on the bunks and one (1) on the log clamp assembly.





#### **ENGINE OIL**

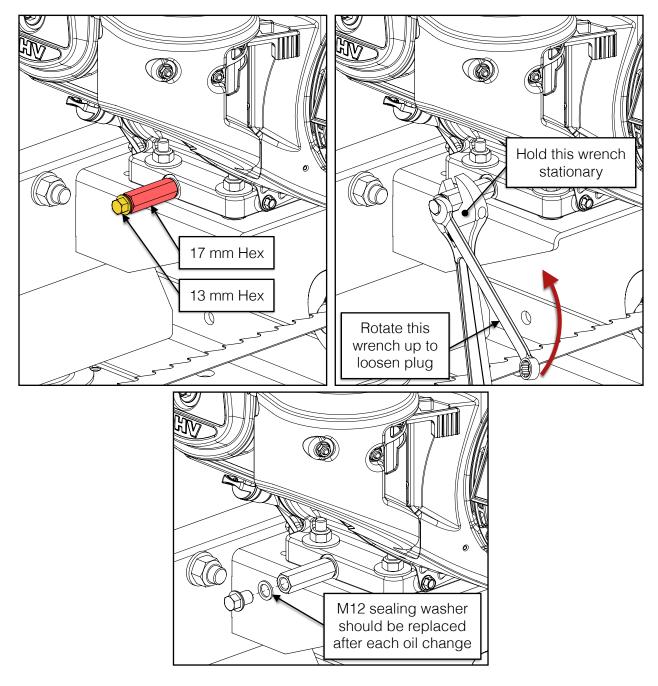
Refer to the engine manual before using your sawmill. Please note that the engine does not contain any gasoline or engine oil when it is shipped. Furthermore, the engine is equipped with an oil alert system, meaning that if the crankcase oil level is low or empty, the power is cut to the spark plug and it will not start.



When changing the engine oil, follow the instructions on the next page.



The engine comes with a brass oil drain extension to make oil changes easier. When removing the drain plug, use a wrench to hold the brass extension stationary while a second wrench loosens the plug. Failure to follow this procedure could damage the threads in the aluminum engine block and void the warranty.



Repeat the process in reverse to re-install the drain plug. Remember to hold the brass extension stationary with a second wrench when tightening the plug.



### PRE START-UP CHECKLIST

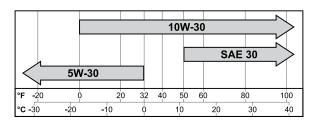




- 1. Fill the engine with high octane (low ethanol) premium gas only. Never run low grade gasoline in the sawmill.
- 2. Fill the engine with oil using the table below based on your engine model and operating air temperatures:

9	I	1

Engine	Model	Horsepower	Capacity	
			US Quarts (qt)	Litres (L)
Kohler	CH270	7 hp	0.63	0.6
Kohler	CH395	9.5 hp	1.16	1.1
Kohler	CH440	14 hp	1.16	1.1



\*\*Note: Engines are <u>not</u> 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. **Do not run lubricant for the initial 30 minutes of milling.** Run the blade dry to break-in the belts. After the belts have been broken-in, the below lubricant can be used:



**34°F** [1°C] and warmer: Water with 1 tsp [5 ml] of liquid dish soap per tank. **32°F** [0°C] and colder: Winter windshield washer fluid.

\*\*Never use diesel fuel or other chemicals as they will prematurely deteriorate the rubber belts and can stain the wood.\*\*



. Test the **blade tracking** to ensure the blade band is centred on both band wheels.



5. Check blade tension to ensure it is *fully tensioned*. Refer to the label on the back of the blade guard near the tension handle.



6. Ensure the wire loop on the dashboard hour meter has been cut so it will record the hours of use on the machine.



7. To start the engine and begin milling: turn the choke and gas on. Pull the engine cord or turn key (electric-start engine models only). Once the engine starts, turn the choke off slowly and let the engine warm up for 1 minute. *Always mill at full throttle*.

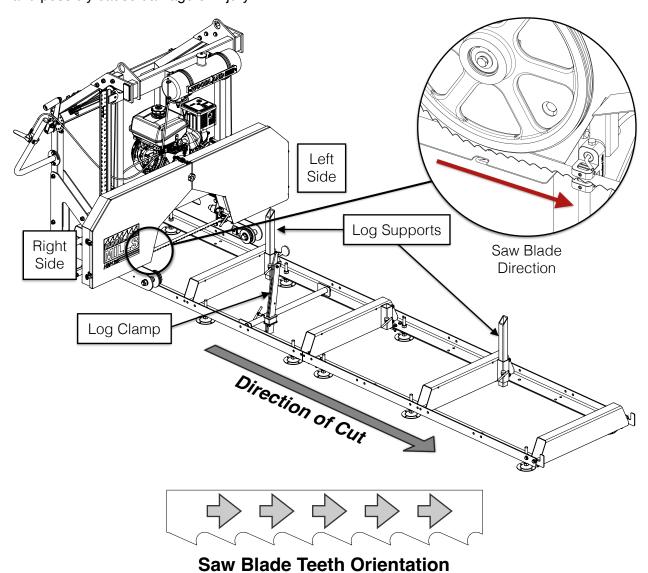


8. After the first hour of use, inspect the drive belt tension and adjust if required. Refer to the operator's manual for detailed tensioning instructions.



# SAWMILL SET-UP PROCEDURES DIRECTION OF CUT

Always cut in the direction shown below. The log clamp is located to the right side of the log with the log supports on the left. Failure to cut in this direction can cause the log to come loose and possibly cause damage or injury.



Always ensure the saw blade teeth are orientated such that they are cutting *into* the wood and not being dragged backwards across it. Some blade manufacturers ship their saw blades inside out (backwards) due to manufacturing processes and they must be flipped prior to installation.

\*\*Please follow the instructions throughout the <u>SAWMILL SET-UP PROCEDURES</u> section. Failure to do so may result in poor sawing performance, damage or injury.\*\*



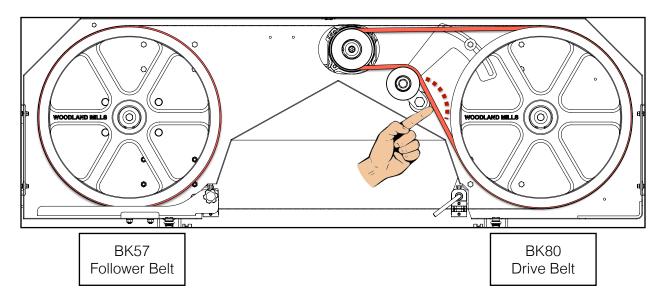
#### **DRIVE BELT TENSION**



Make sure the blade is under proper tension when setting the drive belt tension. This ensures the belt is fully seated into the pulley grooves when the deflection is checked. See section, <u>BLADE TENSION</u>, for more information.



To check the drive belt tension, push against it firmly and measure the deflection. There should be no more than ¼ in [6 mm] of movement. If the belt deflection exceeds this amount it will need to be tightened as described below.

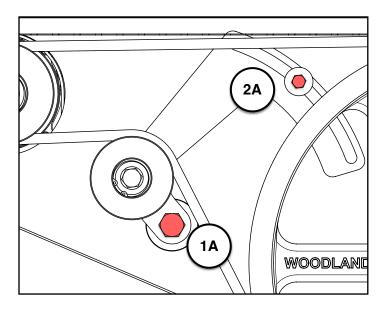


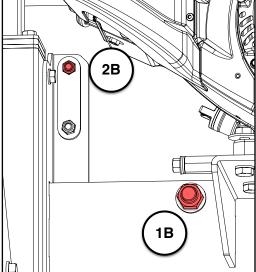
\*\*Never attempt to adjust the belt tension with the engine running. As a safety precaution, remove the spark plug cap.\*\*

Start by loosening the M16 hex bolt (1A) and lock nut (1B) that secure the belt tensioner mechanism to the sawhead. Then loosen the M8 bolt (2A) in the curved slot—its nut (2B) is secured in place by an anti-rotation device and does not require a second wrench or socket.

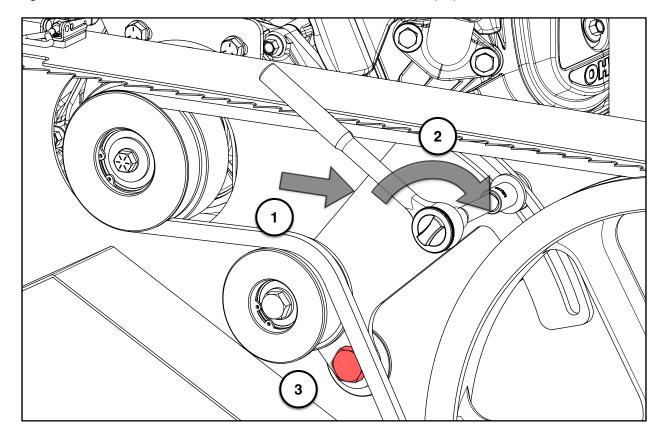
\*\*Only loosen the bolts approx. one turn—do not remove them.\*\*







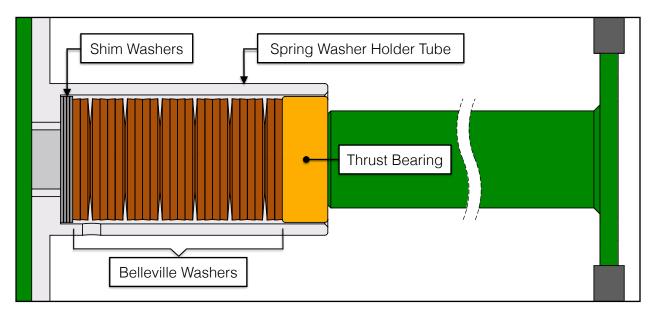
Once both bolts are loose, firmly push the belt tensioner towards the band wheel until the belt is tight (#1), then tighten the upper bolt in the curved slot in a clockwise direction using a 13 mm socket (#2). Re-check the belt tension to ensure a maximum of ¼ in [6 mm] deflection and then tighten the M16 bolt and lock nut when the deflection is correct (#3).





#### **BLADE TENSION**

The 2020 and newer Woodland Mills sawmills use an ACME threaded rod for blade tensioning mounted within an assembled stack of Belleville washers for blade cushioning. This combined assembly allows for predictable and repeatable tensioning throughout all temperature ranges with minimal wear and maintenance.



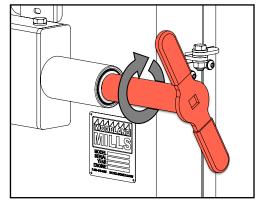
Below is a table comparing the positive and negative effects of low and high blade tension.

Low Tension 2→2-½ Turns	Recommended Tension 2-½→3 Turns	High Tension 3→3-½+ Turns
Unpredictable tracking	Holds tracking properly	Accelerated belt wear
Wavy cuts	Cuts accurately. Optimal blade life	Unpredictable tracking
Blades rely more on guides	Optimal bearing life	Overheated blades. Blade breakage
	Optimal belt life	Accelerated bearing wear

#### TENSIONING METHOD

**Count Turns**: Spin the tension handle to remove slack in the blade and snug the handle up to the thrust bearing. From this point, 2-½ to 3 full turns will put the blade tension within the recommended range.

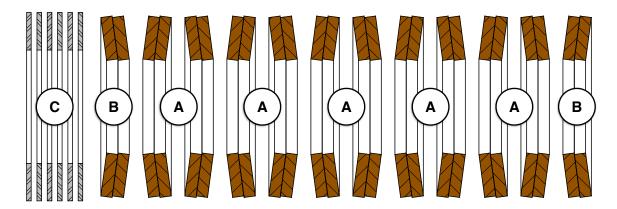
This will account for wear and settlement without any future calibration.





#### BELLEVILLE WASHER STACK

If the spring washer holder is removed for maintenance (e.g. greasing or replacement), ensure the twenty-four (24) Belleville washers inside are oriented and installed as shown below. There are five (5) groups of four washers (4)—each containing two (2) opposing nested pairs (A)—with a single nested pair (B) at each end. There may also be up to six (6) shims (C) installed on the left (inner) end of the stack.

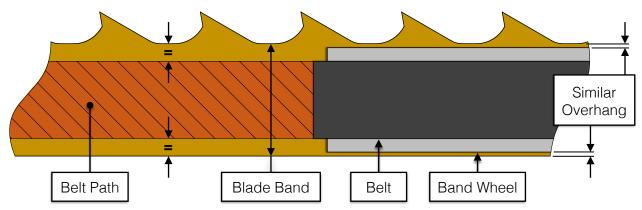




#### **BLADE TRACKING**

Blade tracking is the fine-tuning of the band wheel angles to "hold" the blade during cutting. This "hold" position maintains the blade's location during most sawing conditions, with the guide bearings and blocks acting as occasional supports. A properly tracked sawmill will hold the band portion of the blade centred on the belts without any guides in contact with the blade.

This image shows the "ideal position" with the blade band centred on the belts & band wheels.



Precise measurements are not required to centre the blade band with the belts & band wheels. Visually confirming the front and back of the blade overhang a similar amount is adequate.

#### What Happens when Tracking is "Off?"

- ► Excessive blade guide bearing wear
- ▶ Wavy cuts caused by uneven tension within the blade
- Overheating blades / blade breakage
- ► Excessive belt wear
- ▶ Blade will not stay on the belts

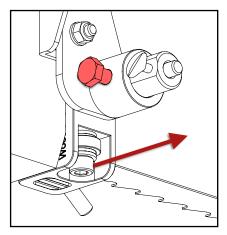
#### **Important Points**:

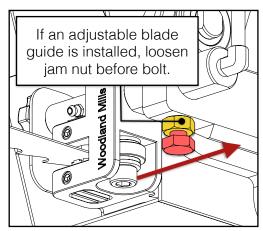
- ► Tracking testing can only be made with a blade installed.
- ► Tracking testing is done under full blade tension. A fully tensioned blade is when the tension handle is snugged to the thrust bearing and then rotated a further 2-½ to 3 full turns.
- ► Tracking *adjustments* are made at three (3) turns off full blade tension.
- ▶ The blade should run in the same location on both the follower and drive-side belts.
- ▶ Guide assemblies should *always* be pushed all the way back, clear of the back of the blade. Nothing should ever be in contact with the blade when testing or making tracking adjustments.
- ► The following test and adjustments should only be attempted with drive and follower belts that are in good repair and keeping the blade up off the cast iron band wheels.
- ► Tuning the blade tracking is a process of testing and adjusting—re-testing and adjusting—re-testing and adjusting. The number of cycles is determined by how far off the tracking was at the start of the process.
- ▶ Please see the following pages for testing and adjustment procedures.



#### TEST PROCEDURE

- 1. Always wear safety gloves and eyewear. Never attempt to adjust the blade tracking with the engine running. Remove the spark plug cap as a safety precaution.
- 2. Loosen the blade guide assemblies, push them back as far as possible, and secure. This will ensure the guide blocks and bearings will not touch the blade during the test.



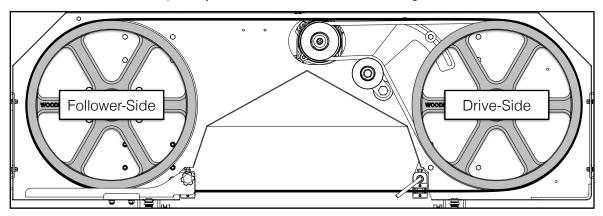


- 3. Install a blade if one is not already installed.
- 4. Fully tension the blade by snugging the tension handle to the thrust bearing and rotate it a further 2-½ to 3 full turns.
- 5. Start rotating the band wheels by hand in the direction of cut observing how the blade moves *forward* or *rearward* on the belts to find its "hold" position.

\*\*If the blade looks as if it is going to come off during hand rotations—STOP—and proceed to the *Follower-Side* or *Drive-Side Adjustment* as required.\*\*

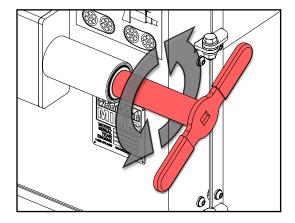
#### **Important Points Before Making Adjustments:**

- ► Start adjusting the side that is furthest out of spec first.
- ► Since adjustments made to one side can affect the other side, always adjust one side first, rerun this test procedure, then adjust the other side if needed.
- ▶ Because ¼ turn adjustment increments are recommended, it is common to run this test a few times between multiple adjustments before correct tracking is achieved.



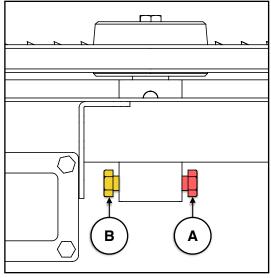


#### **FOLLOWER-SIDE ADJUSTMENT**



1. Back off the blade from full tension by three (3) full turns of the tension handle.

\*\*Ensure blade guides are still pushed back and clear of the blade.\*\*



2. Adjust the blade position:

FORWARD

To move the blade *forward* on the belt:

- i. Loosen the right-side bolt **(A)** ¼ turn.
- ii. Tighten the left-side bolt (B) to clamp the follower shaft back in place.

-OR-

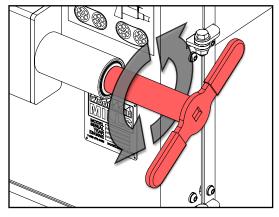
IEARWARD

To move the blade *rearward* on the belt:

- i. Loosen the left-side bolt ® ¼ turn.
- ii. Tighten the right-side bolt (A) to clamp the follower shaft back in place.
- 3. Repeat the *Test Procedure* to see if further adjustment is needed.
- 4. Repeat the follower-side adjustment steps and test procedure as many times as necessary until the blade is tracking properly.

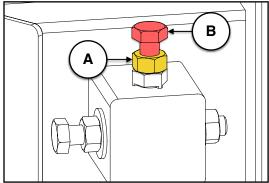


#### **DRIVE-SIDE ADJUSTMENT**

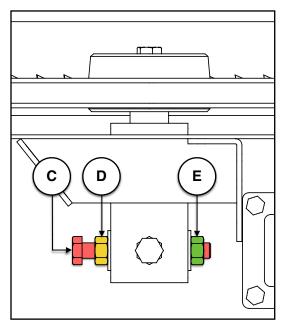


1. Back off the blade from full tension by three (3) full turns of the tension handle.

\*\*Ensure blade guides are still pushed back and clear of the blade.\*\*



- 2. Loosen the jam nut (A) on the upper bolt.
- 3. Loosen the upper bolt **B** ½ turn.



4. Adjust the blade position:

To move the blade *forward* on the belt:

- i. Hold the horizontal bolt © stationary with a wrench.
- ii. Loosen the right-side nut © ¼ turn.
- iii. tighten the left-side nut **D**.

-OR-

**EARWARD** 

To move the blade *rearward* on the belt:

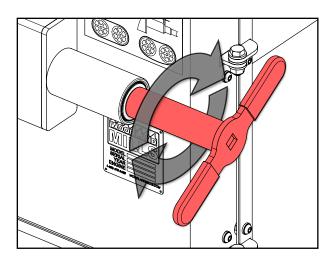
- i. Hold the horizontal bolt © stationary with a wrench.
- ii. Loosen the left-side nut **D** ¼ turn.
- iii. tighten the right-side nut E.
- 5. Re-tighten the upper bolt **(B)** followed by the upper jam nut **(A)**.
- 6. Repeat the *Test Procedure* to see if further adjustment is needed.
- 7. Repeat the drive-side adjustment steps and test procedure as many times as necessary until the blade is tracking properly.

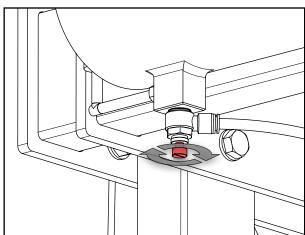


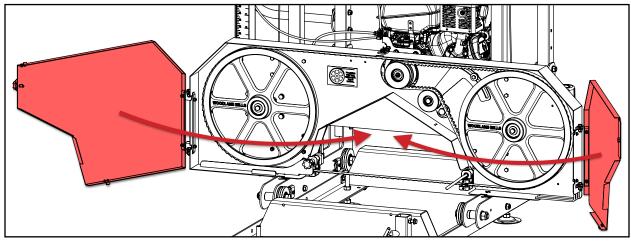
#### TRACKING RUN-IN

Once the band wheel angles have been tuned and the blade's "hold" position is correct as per the test procedure:

- 1. Fully tension the blade by snugging the tension handle to the thrust bearing and rotate it a further  $2-\frac{1}{2}$  to 3 full turns.
- 2. Disable lubrication by closing the valve on the tank.
- 3. Close and latch the band wheel housing doors.
- 4. Start the engine.
- 5. Take the engine slowly up to half throttle for fifteen (15) seconds, then full throttle for an additional fifteen (15) seconds, and then turn the engine off and wait for the blade to stop spinning.
- 6. Open the band wheel housing doors and confirm the tracking settings have held.
- 7. Bring the guides forward into place and set as per the following section, **BLADE GUIDE ADJUSTMENT**.



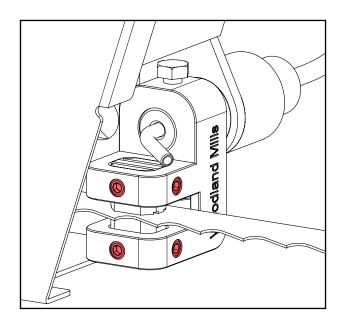




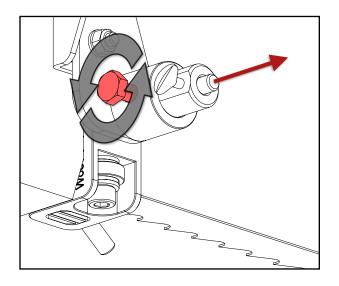


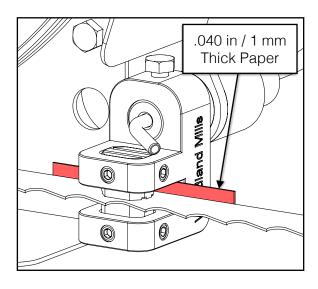
#### **BLADE GUIDE ADJUSTMENT**

Never attempt to adjust the guide blocks or the guide bearing with the engine running. As a safety precaution, remove the spark plug cap. It is also advised to confirm that the blade is tracking properly before performing the steps below. Blade tracking is covered in the **BLADE TRACKING** section. Using a 4 mm hex key, loosen the blade guide blocks on both the left and right sides. They should be free to slide up and down.



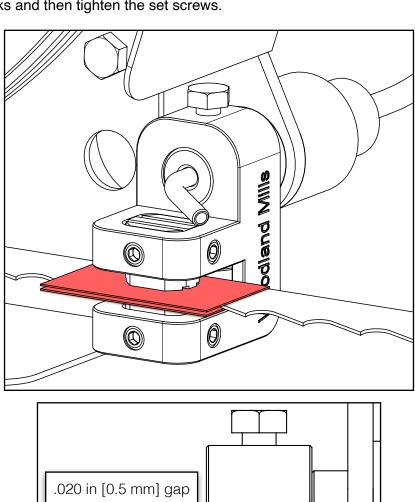
Loosen the blade guide assembly bolts on both guide block holders so that the round shaft is free to slide back and forth. Position it so that there is a thick paper-sized gap (.040 in or 1 mm) between the bearing and the back of blade. Re-tighten the bolt against the flat on the shaft to secure the assembly into position.

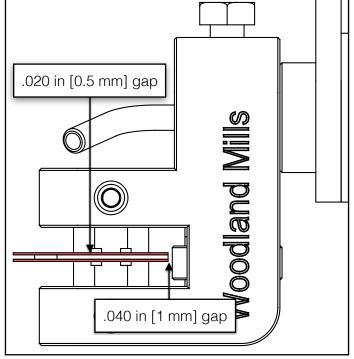






Using a feeler gauge or thick piece of paper (.020 in / 0.5 mm), place it between the blade and both guide blocks and then tighten the set screws.

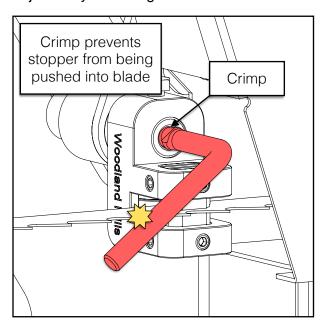


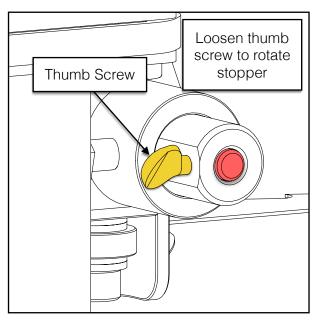




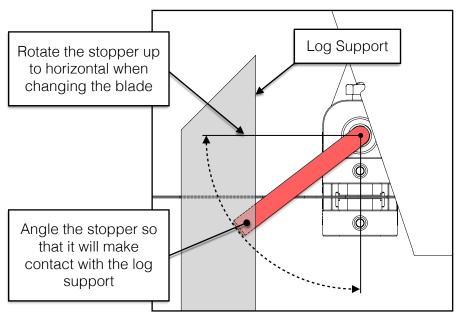
#### **BLADE STOPPER ADJUSTMENT**

The drive-side guide block holder is equipped with a blade stopper. The stopper prevents the blade from running into the log supports during a cut. There is a crimp on the stopper shaft that also prohibits it from being pushed backwards into the blade. The angle of the stopper is adjusted by loosening the thumb screw located at the rear of the guide block holder shaft.





Angle the stopper so that it will make contact with the log support as shown below. The sawhead may have to be *lowered*—or the log support *raised*—to verify contact between the two prior to making cuts. Note: rotate the stopper up to horizontal when changing the blade.



#### Steps:

- 1. Loosen the thumb screw.
- 2. Set the stopper angle.
- 3. Tighten the thumb screw.

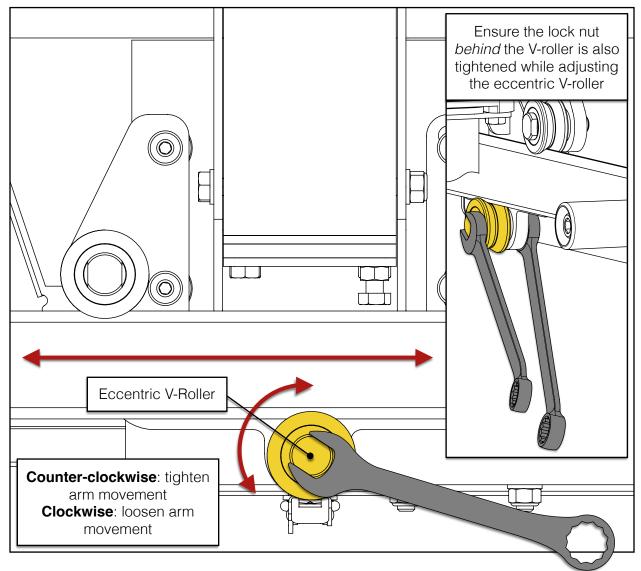


#### ADJUSTABLE BLADE GUIDE CALIBRATION

14 hp Sawmill Owners (Optional on 9.5 hp Sawmills)

#### **ECCENTRIC V-ROLLER ADJUSTMENT**

Slide the adjustable blade guide (ABG) arm in and out to check that it moves smoothly between the V-rollers. If it feels too loose or too tight, adjust the bottom eccentric roller using a wrench. Turning it counter-clockwise will tighten the arm movement; turning it clockwise will loosen the movement.

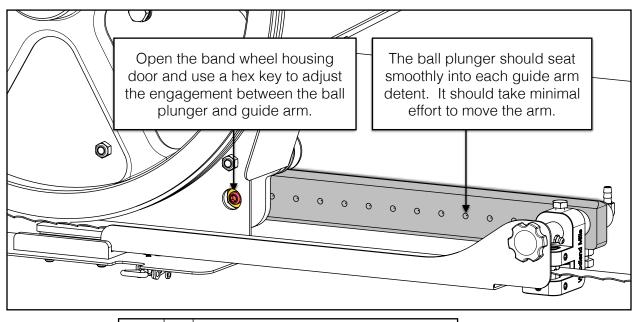


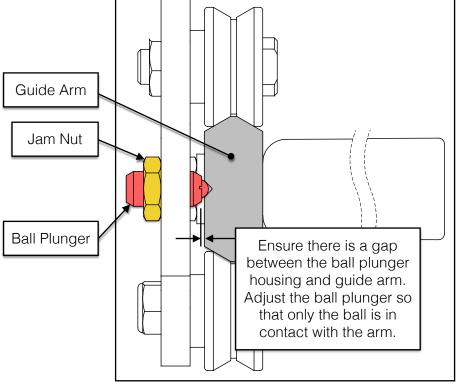
\*\*Some components removed for clarity.\*\*



#### BALL PLUNGER ADJUSTMENT

If extending and retracting the guide arm is still difficult after adjusting the eccentric V-roller, the ball plunger may require adjustment. Slide a wrench between the band wheel housing and ABG carriage and loosen the ball plunger jam nut.





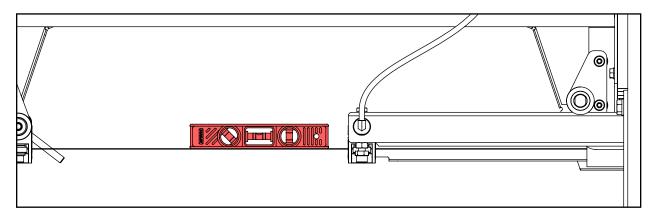
After adjusting the ball plunger, slide the guide arm in and out a few times to verify the movement feels smooth and that there is positive engagement between the ball plunger and guide arm detents. If not, adjust the ball plunger with the hex key again and repeat the process until satisfied.

Once the guide arm is moving well, tighten the ball plunger jam nut.



#### CARRIAGE & GUIDE ARM ADJUSTMENT

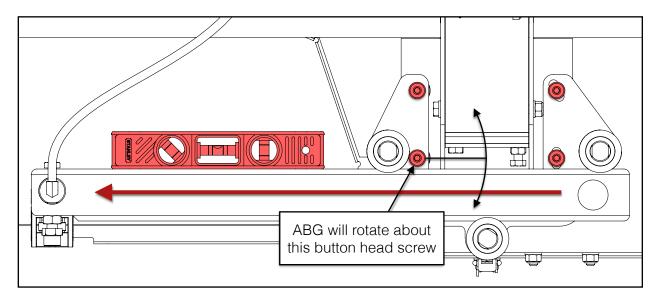
If the guide arm does not extend parallel with the blade, apply full tension to the blade and place a spirit level on the blade to check its level.



Loosen the four (4) button head screws just enough to the carriage can rotate. The carriage will rotate about the lower-left screw as shown below.

Fully extend the guide arm and set the level on top of the arm.

Rotate the ABG carriage and guide arm until it matches the blade level so both are parallel. Slide the guide arm in-and-out to verify that the gaps between the guide blocks and the blade are uniform. See previous section, **BLADE GUIDE ADJUSTMENT**, for more information.



Once the ABG is properly adjusted, fully tighten the four (4) button head screws on the carriage.





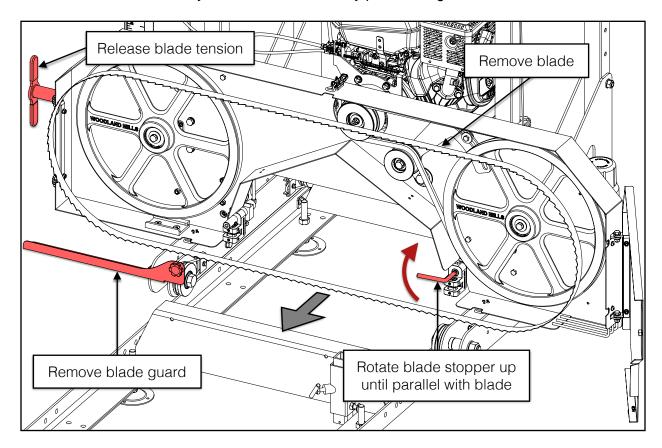
#### **CHANGING THE BLADE**

Never attempt to change the blade with the engine running. As a safety precaution, remove the spark plug cap. Gloves and safety glasses must be worn when changing the blade.

Follow these steps to remove an old/worn blade from the sawmill:

- 1. Turn the belt tension handle counter-clockwise to release the tension from the blade until it is loose.
- 2. Open the band wheel housing doors.
- 3. Remove the yellow blade guard [14 hp sawmills models only].
- 4. Rotate the blade stopper up on the drive-side guide block holder.

The blade is now sufficiently loose and can be easily pulled straight out the front.

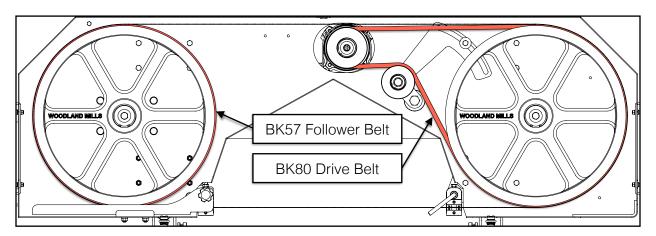


Install a new blade following the reverse order of steps and then set the proper blade tension. The tracking should not have to be adjusted after changing blades. See section, **ADJUSTING THE FOLLOWER SIDE TRACKING**, for more information.

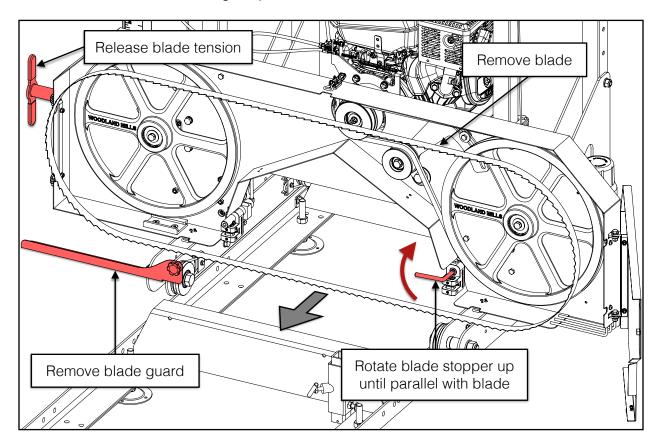


#### **REPLACING BELTS**

Never attempt to replace the belts with the engine running. As a safety precaution, remove the spark plug cap. Gloves and safety glasses must be worn when replacing the belts. There are two V-belts on the sawmill: a BK80 Kevlar belt on the drive side and a BK57 Kevlar belt on the follower side.

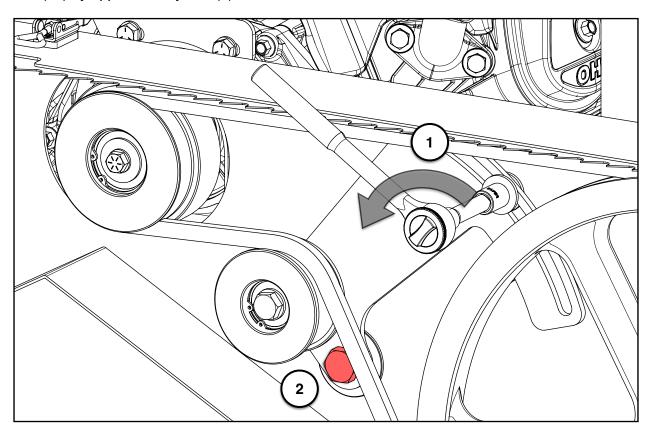


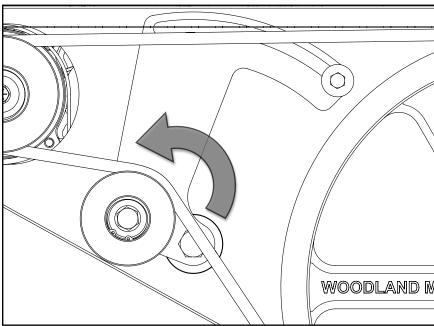
First, remove the blade following the procedure outlined in section, *CHANGING THE BLADE*.





Next, remove the tension from the drive belt by loosening the M8 hex bolt (#1) and the M16 hex bolt (#2) by approximately one (1) turn—do not remove the bolts.



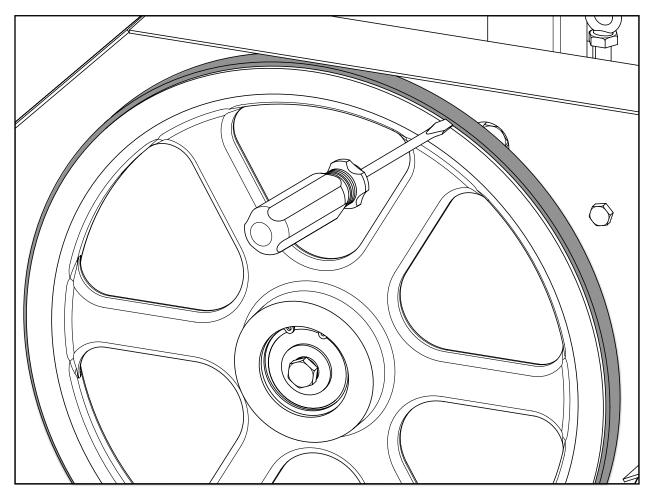


Once both bolts are loose, the belt tensioner will rotate counter-clockwise until the idler pulley comes to rest on the band wheel housing. The belt can now easily be removed by hand and a new belt installed.

Tension the belt following the same procedure as outlined in section, *DRIVE BELT TENSION*.



The BK57 follower belt is changed by prying it off and installing the new one with the aid of a slotted screwdriver.



The blade can now be re-installed, band wheel housing doors closed, and proper blade tension set.

\*\*Note that blade tracking should <u>not</u> have changed after replacing the belts. The RapidChange™ blade system maintains the band wheel pitch angle while the blade is removed. Refer to section, <u>BLADE TRACKING</u>, for more information.\*\*



# **TROUBLESHOOTING**

Problem/Issue	Possible Causes	Resolution Options
Producing wavy cuts	<ol> <li>Inadequate blade tension.</li> <li>Improper blade guide set up.</li> <li>Improper blade tracking.</li> <li>Sap build up on blade.</li> <li>Dull blade.</li> <li>Pushing mill too quickly.</li> </ol>	<ol> <li>Tighten blade. Refer to page 80.</li> <li>Gap between guide blocks and blade are incorrect. Refer to page 87.</li> <li>Adjust blade tracking. Refer to page 82.</li> <li>Install new blade. Refer to page 93. Always use blade lubricant.</li> <li>Install new blade. Refer to page 93.</li> <li>Slow feed rate down and push head slower through log.</li> </ol>
Last board is tapered or narrow in middle	1. Track is not level.	Track needs to be checked for level and adjusted so it is square. Track should also be set up on a firm, sturdy base so deflection does not occur from heavy logs or the sawmill head.
Blade dulls quickly	<ol> <li>Logs are not clean.</li> <li>Foreign objects in log.</li> </ol>	Logs may contain dirt/sand causing blades to wear prematurely.     Tree may contain nails, staples, old fencing etc.
Blade comes off band wheels	<ol> <li>Inadequate blade tension.</li> <li>Improper blade guide set up.</li> <li>Improper blade tracking.</li> <li>Belts are worn.</li> <li>Dull blade.</li> <li>Pushing mill too quickly.</li> <li>Too much water on blade.</li> <li>New belts not dressed.</li> <li>Belt tensioner idler pulley not adjusted properly.</li> </ol>	<ol> <li>Tighten blade. Refer to page 80.</li> <li>Gap between guide blocks and blade are incorrect. Refer to page 87.</li> <li>Adjust blade tracking. Refer to page 82.</li> <li>Install new belts. Refer to page 94.</li> <li>Install new blade. Refer to page 93.</li> <li>Slow feed rate down and push head slower through log.</li> <li>Valve on water tank is letting out too much water. Reduce flow by turning dial on valve.</li> <li>Run the sawmill without lubrication for 30 minutes in order to dress new belts sufficiently before adding water for lubrication. Refer to page 76 (#3).</li> <li>Call Woodland Mills Technical Support.</li> </ol>
Blades are breaking	<ol> <li>Too many blade sharpenings.</li> <li>Inadequate blade tension.</li> <li>Improper blade guide set up.</li> <li>Improper blade tracking.</li> <li>Pushing mill too quickly.</li> </ol>	<ol> <li>Replace blade. Refer to page 93.</li> <li>Binding between guide blocks when blade is too loose. Tighten blade. Refer to page 80.</li> <li>Gap between guide blocks and blade are incorrect. Refer to page 87.</li> <li>Adjust blade tracking. Refer to page 82.</li> <li>Slow feed rate down and push head slower through log.</li> </ol>
Blade is slowing down or stopping when milling	<ol> <li>Inadequate blade tension.</li> <li>Improper drive belt tension.</li> <li>Pushing mill too quickly.</li> </ol>	<ol> <li>Tighten blade. Refer to page 80.</li> <li>Belts are worn or too loose. Replace. Refer to page 94.</li> <li>Slow feed rate down and push head slower through log.</li> </ol>
Mill is not cutting or cutting very slowly	Dull blade.     Blade is on backwards.	<ol> <li>Install new blade. Refer to page 93.</li> <li>Remove blade and flip it inside out. The teeth should be facing in the direction of the log supports.</li> </ol>

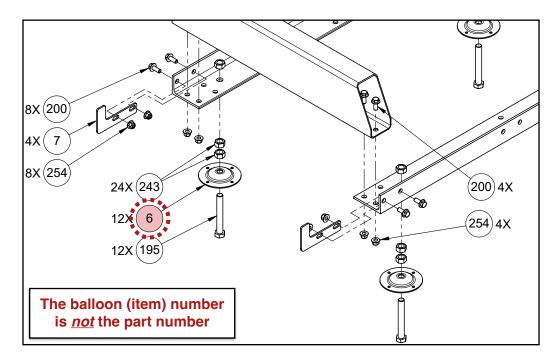


Problem/Issue	Possible Causes	Resolution Options
Mill is vibrating excessively	<ol> <li>Log is not clamped securely.</li> <li>Belts are deformed.</li> <li>Band wheel bearing issue.</li> <li>Pushing mill too quickly.</li> <li>Loose bolts.</li> <li>Post sleeve bushings worn.</li> </ol>	<ol> <li>Ensure log is clamped firmly resting on log bunks and against log supports.</li> <li>Belts may have flats in them from leaving blade tension tight when not in use. Replace them. Refer to page 94.</li> <li>Inspect and replace the band wheel bearings if worn.</li> <li>Slow feed rate down when milling.</li> <li>Check all bolts to ensure they are tight.</li> <li>Adjust the post sleeve bushings or replace them. Refer to page 72.</li> </ol>
Adjustable blade guide arm is difficult to move or too loose	<ol> <li>Eccentric V-roller not adjusted properly.</li> <li>Ball plunger over-engaged or not enough engagement.</li> <li>Guide arm is not parallel with blade.</li> </ol>	<ol> <li>Adjust the bottom eccentric V-roller clockwise to loosen the guide arm or counter-clockwise to tighten the guide arm movement. Refer to page 90.</li> <li>Adjust the ball plunger. Refer to page 91.</li> <li>Rotate the adjustable blade guide carriage until parallel with the blade. Refer to page 92.</li> </ol>
Sawhead difficult to raise or lower	Sawhead not level.     Front posts not lubricated.	Level the sawhead by adjusting the lift cable ends under the lift mechanism. Refer to page 71.     Spray front posts with water resistant silicone lubricant.



#### REPLACEMENT PARTS ORDERING

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



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

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

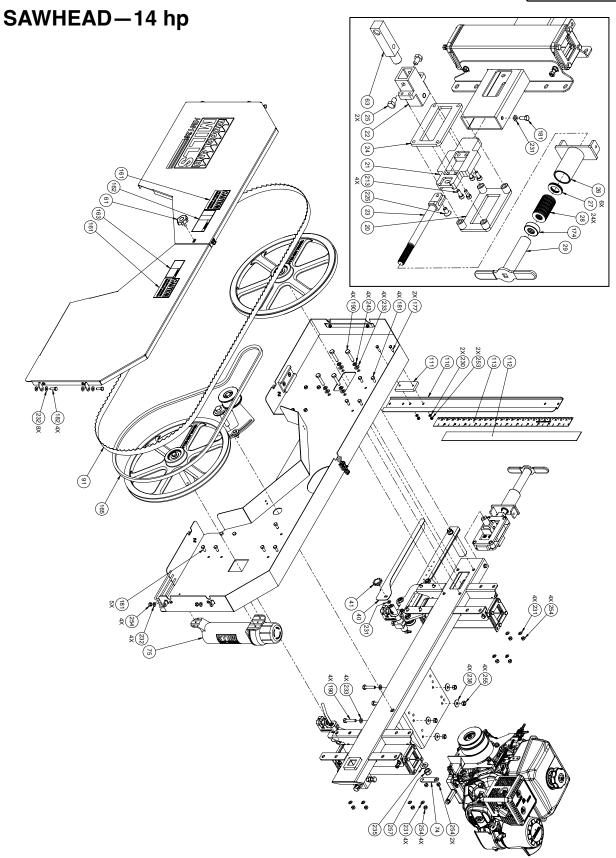
Record the part number (e.g. 0001071, HHB-MBM080FCJ, etc.) from the "Part No." column.

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.

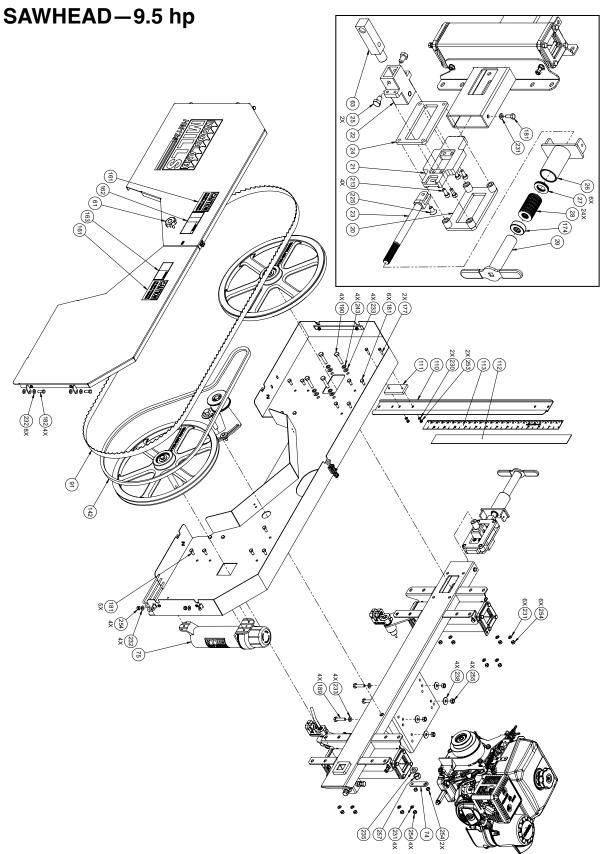


**EXPLODED ASSEMBLY VIEWS TRACK O** 

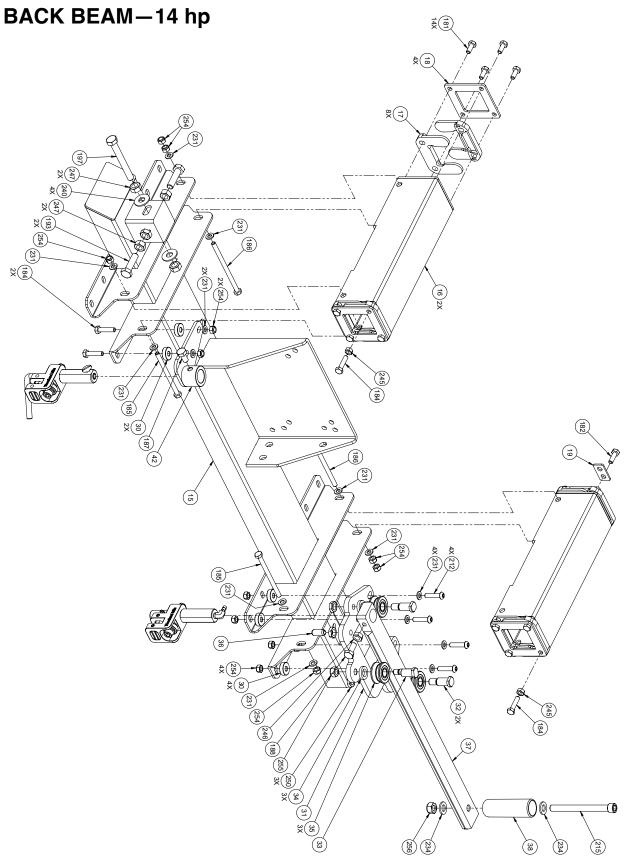






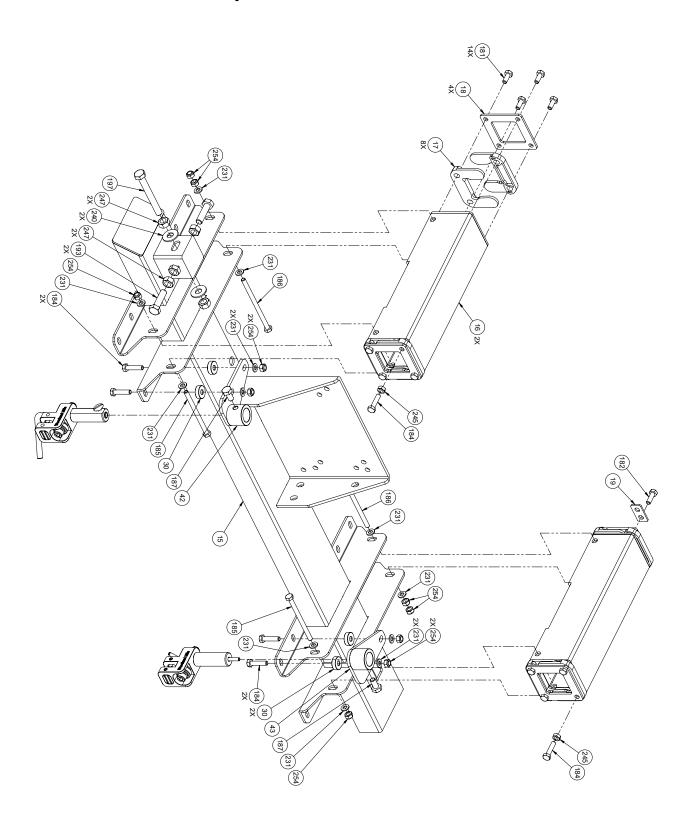






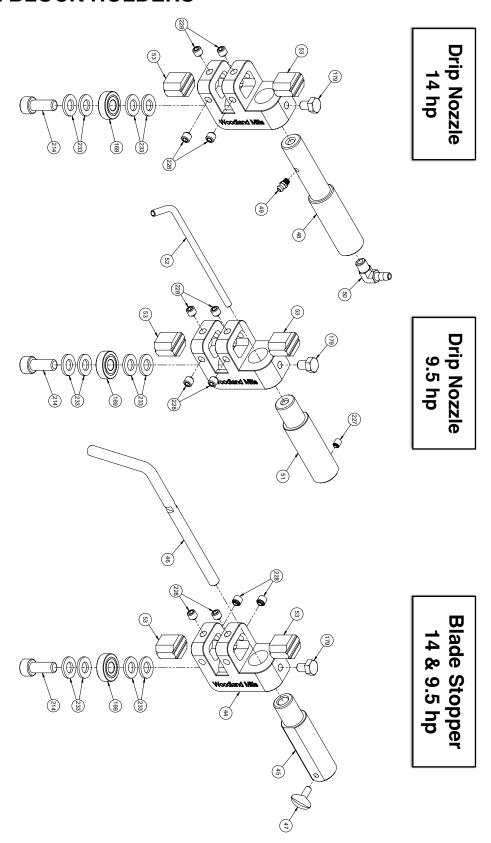


# BACK BEAM-9.5 hp



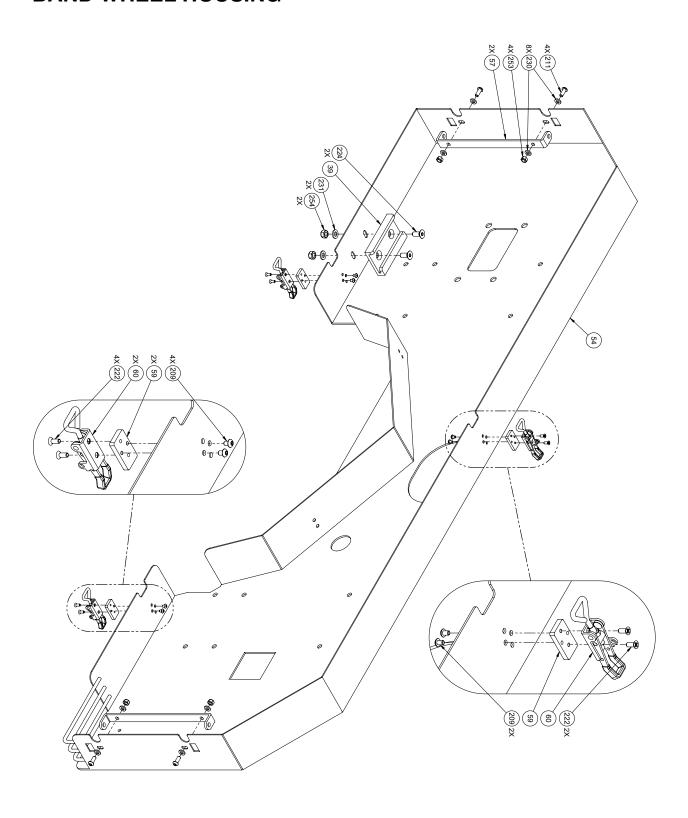


# **GUIDE BLOCK HOLDERS**



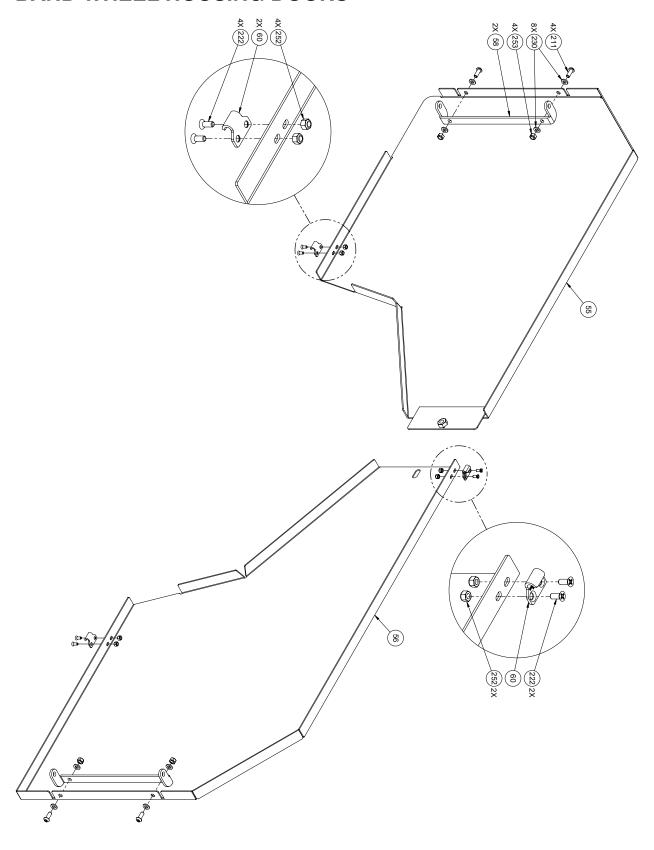


## **BAND WHEEL HOUSING**



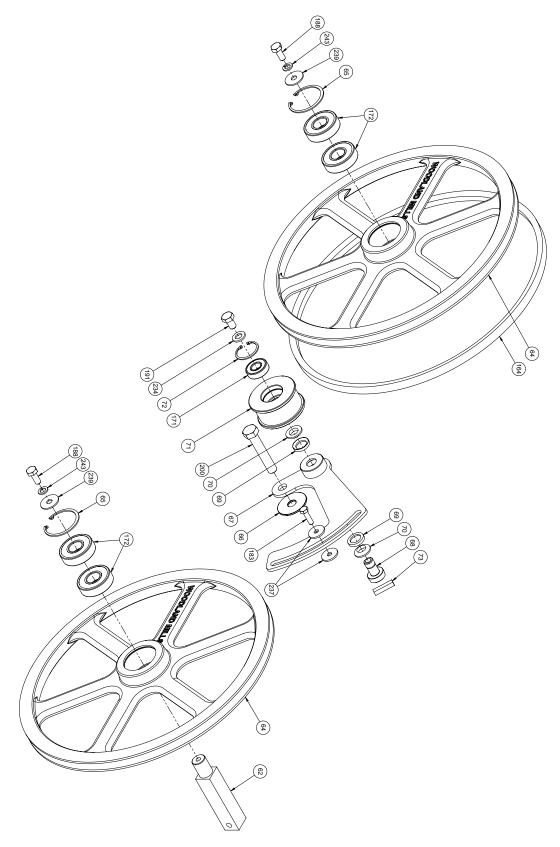


### **BAND WHEEL HOUSING DOORS**



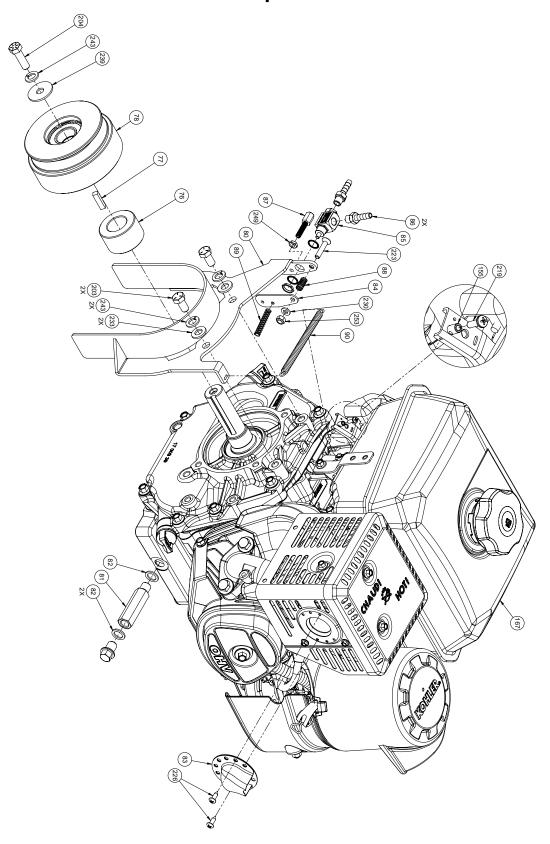


#### **BAND WHEELS AND BELT TENSIONER**





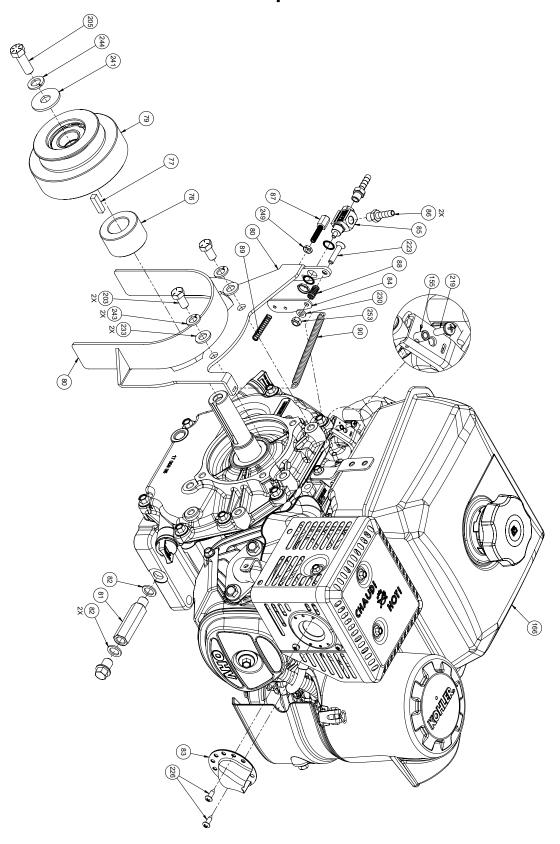
# **ENGINE COMPONENTS—14 hp**





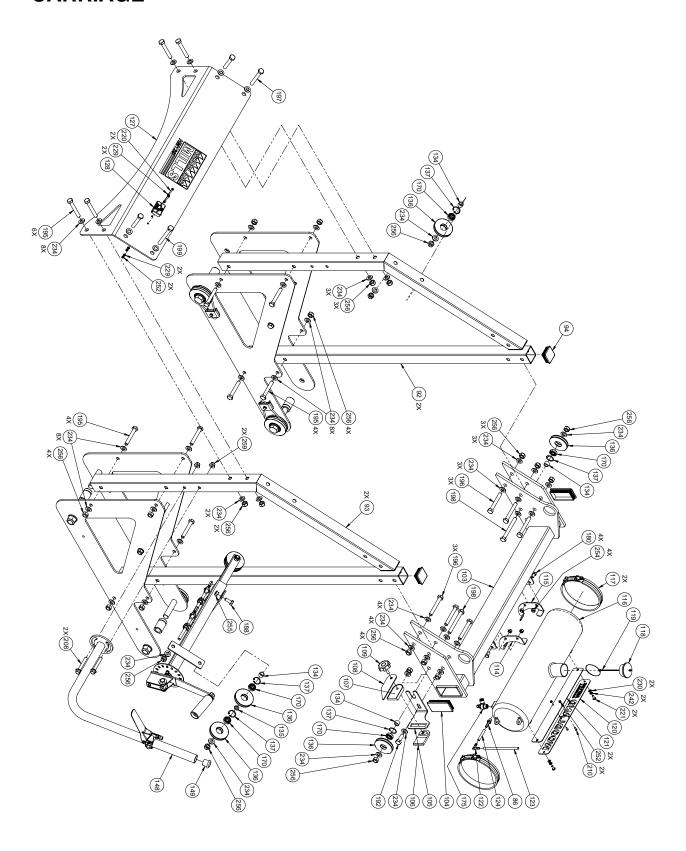
09-Nov-2022

# **ENGINE COMPONENTS—9.5 hp**



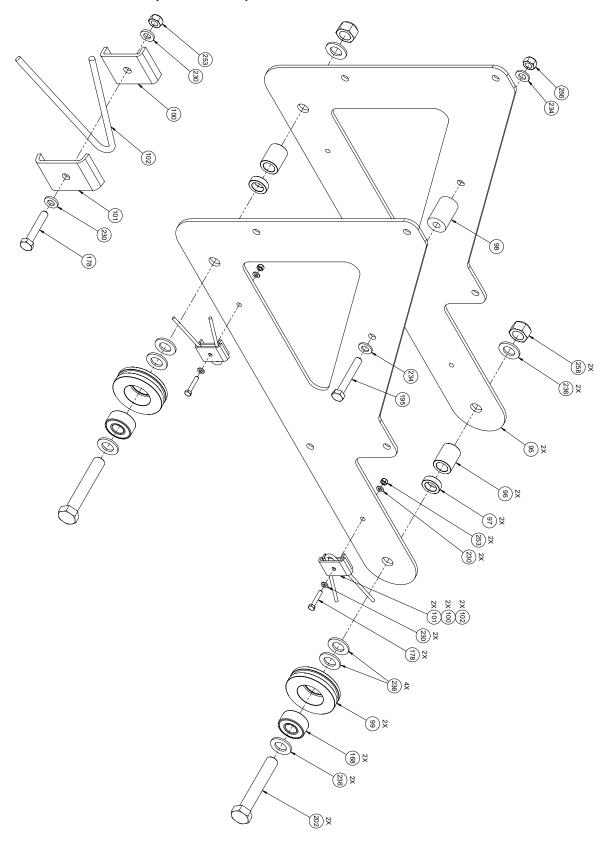


#### **CARRIAGE**



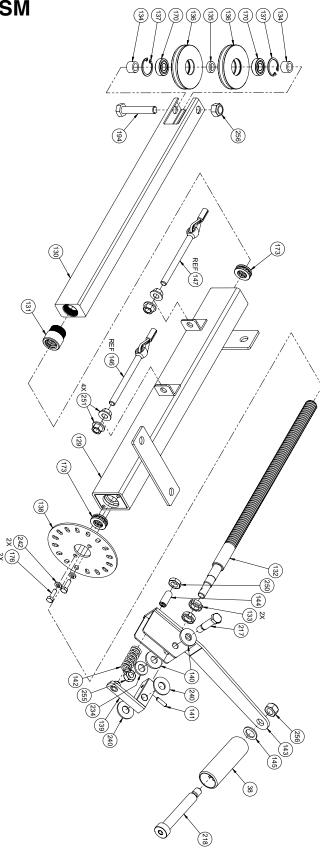


# **CARRIAGE LEG, WHEEL, AND SWEEPER**



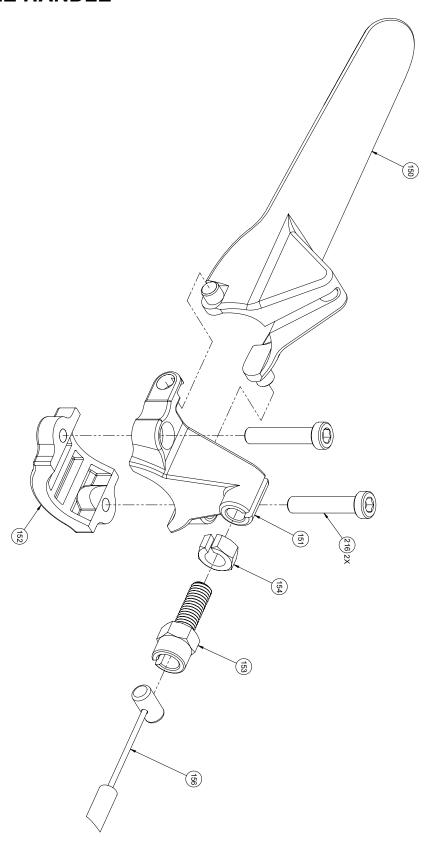


#### **LIFT MECHANISM**



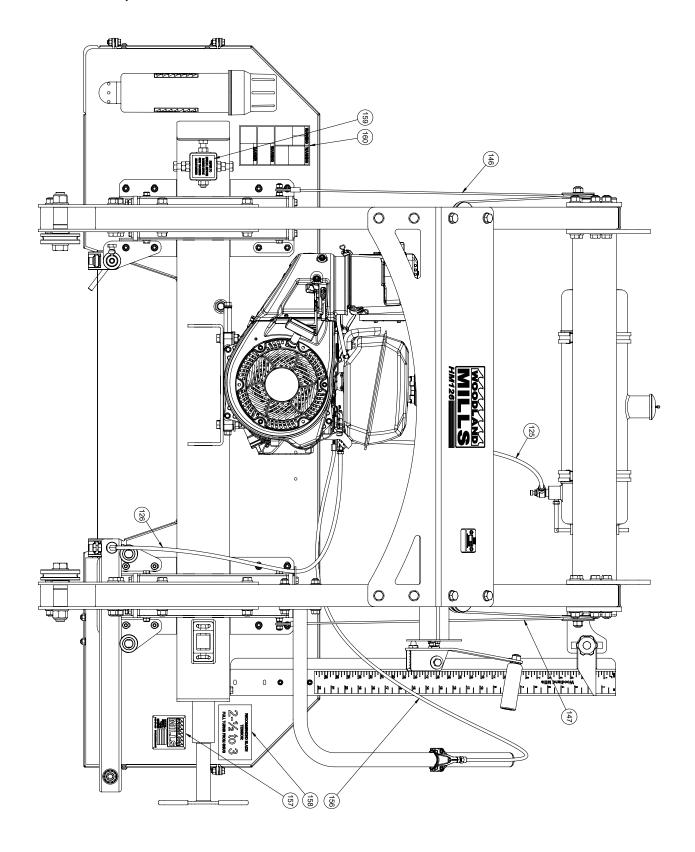


### **THROTTLE HANDLE**





### **CABLES, TUBING & LABELS**





# **PARTS LIST**



Highlighted rows are items specific to HM126-14 (14 Horsepower) sawmill.

	Quantity				
Item			Part No.	Description	
1	4	9.5 hp 4	0001073	TRACK RAIL, 100 X 58.5 mm, 1950 mm LG	
2	2	2	0001075	LOG BUNK, END	
3	2	2	0001073	LOG BUNK, MID	
4	1	1	0001084	LOG BUNK, CENTER	
5	2	2	0001004	REINFORCEMENT PLATE, 90 X 200 mm	
6	12	12	0001072	LEVELLING FOOT BASE	
7	4	4	0001071	CARRIAGE STOP	
8	1	1	0001033	SHAFT WELDMENT, QUICK-LOCK LOG CLAMP	
9	1	1	0001069	MOUNTING BRACKET, QUICK-LOCK LOG CLAMP	
10	1	1	0001069	RECEIVER, QUICK-LOCK LOG CLAMP	
				· ·	
11	1	1	0001211	QUICK-LOCK LOG CLAMP	
12	2	2	0001056	LOG SUPPORT, BEVELLED, 450 mm LG	
13	2	2	0001465	LOG SUPPORT, KEY STOP, 190 mm LG	
14	4	4	0001059	T-BOLT, M10 X 1.5, 40 mm LG	
15	1	1	0001949	BACK BEAM	
16	2	2	0001127	POST SLEEVE	
17	8	8	0004235	POST SLEEVE BUSHING, U-SHAPED, 50 X 50 mm POST	
18	4	4	0001126	POST SLEEVE LOCKING PLATE, 50 X 50 mm POST	
19	1	1	0001020	LUBRICATION TUBING BRACKET, FLAT	
20	1	1	0002052	RAPIDCHANGE MOUNTING PLATE, 160 X 100 mm	
21	1	1	0002053	RAPIDCHANGE TENSION BLOCK, 160 X 100 mm	
22	1	1	0002054	RAPIDCHANGE SHAFT SLEEVE	
23	1	1	0005457	TENSION ROD, RAPIDCHANGE, TR18X3 THD, 220 mm LG	
24	1	1	0002056	RAPIDCHANGE BACK PLATE, 160 X 100 mm	
25	2	2	0002350	HEX BOLT, M12 X 1.25, 20 mm LG, 2.5 mm CHAMFER	
26	1	1	0003116	SPRING WASHER HOLDER, RAPIDCHANGE, 120 X 50 mm	
27	6	6	0002637	SPRING WASHER SHIM, 25 ID X 41.5 OD X 1 mm THK	
28	24	24	0006088	BELLEVILLE WASHER, 20.4 ID, 40 OD, 2.5 THK, 3.45 mm TALL, 2111 lb WORKING LOAD	
29	1	1	0005452	TENSION HANDLE, RATCHET MOUNT, OFFSET THD, 139 mm LG	
30	6	4	0002023	SPACER, ADJUSTABLE BLADE GUIDE	
31	1	-	0003529	ADJUSTABLE BLADE GUIDE ROLLER CARRIAGE, 41 mm X 120° ROLLERS	
32	2	-	0003525	TRACK ROLLER SHAFT W/ HEAD, CONCENTRIC, M12 X 1.75 THD	
33	1	-	0003527	TRACK ROLLER SHAFT W/ HEAD, ECCENTRIC, M10 X 1.5 THD	
34	3	-	0003528	TRACK ROLLER SHAFT SPACER, 15 ID X 23 OD X 5 mm THK	
35	3	-	0002657	TRACK ROLLER, V-GROOVE, 120°, 41 mm DIA X 20 mm WD	
36	1	-	0002661	BALL-NOSE SPRING PLUNGER, HEX DRIVE, NON-LOCKING, M12 X 1.75, 26 mm LG	
37	1	-	0002660	ADJUSTABLE BLADE GUIDE ARM, 120° TRACK ROLLERS, 575 mm LG	
38	2	1	0004199	HANDLE, STRAIGHT, 35 mm DIA, 105 mm LG, M16 THRU	
39	1	-	0002666	BLADE GUARD GUIDE, ADJUSTABLE BLADE GUIDE	
40	1	-	0002665	BLADE GUARD, ADJUSTABLE BLADE GUIDE	
41	1	-	0002667	KNOB, MULTI-LOBE, 38 mm OD, M8 X 1.25, 12 mm LG	



Item	Quantity		Part No.	Description		
itein	14 hp	9.5 hp				
42	1	1	0002022	GUIDE BLOCK HOLDER BRACKET, LEFT		
43	-	1	0002020	GUIDE BLOCK HOLDER BRACKET, RIGHT		
44	2	2	0001093	GUIDE BLOCK HOLDER		
45	1	1	0001096	GUIDE BLOCK HOLDER SHAFT, BLADE STOPPER		
46	1	1	0002759	SAW BLADE STOPPER, CRIMPED, 82.5 mm LG		
47	1	1	0006891	THUMB SCREW, SPADE-HEAD, SST, M6 X 1, 10 mm LG		
48	1	-	0002663	GUIDE BLOCK HOLDER SHAFT, DRIP NOZZLE, GUARD MOUNT		
49	1	-	0002664	GREASE FITTING, STRAIGHT, 14 mm LG, M6 TPR THD, MODIFIED		
50	1	-	0005116	FITTING, ELBOW, 90°, BARBED, 1/8 in NPT, 1/4 in HOSE		
51	-	1	0001091	GUIDE BLOCK HOLDER SHAFT, DRIP NOZZLE		
52	-	1	0001092	DRIP NOZZLE, 6 mm DIA		
53	4	4	0001090	GUIDE BLOCK		
54	1	1	0001951	BAND WHEEL HOUSING		
55	1	1	0001952	BAND WHEEL DOOR, LEFT		
56	1	1	0001953	BAND WHEEL DOOR, RIGHT		
57	2	2	0001954	BAND WHEEL HOUSING INNER HINGE BRACKET		
58	2	2	0001955	BAND WHEEL HOUSING OUTER HINGE BRACKET		
59	3	3	0003161	LATCH SPACER		
60	3	3	0002248	ADJUSTABLE DRAW LATCH		
61	1	1	0001659	KNOB, MULTI-LOBE, 48 mm OD, M8 X 1.25, 17 mm LG		
62	1	1	0001104	DRIVE SHAFT, 30 mm SQ, 125 mm LG, 25 mm DIA		
63	1	1	0001993	FOLLOWER SHAFT, RAPIDCHANGE, 30 mm SQ, 108.5 mm LG, 25 mm DIA		
64	2	2	0001105	BAND WHEEL, 19 in		
65	2	2	0004820	RETAINING RING, INTERNAL, 62 mm BORE (65 mm GROOVE)		
66	1	1	0002017	BELT TENSIONER SHAFT SPACER		
67	1	1	0002643	BELT TENSIONER ARM		
68	1	1	0002644	BELT TENSIONER IDLER SHAFT		
69	2	2	0005282	LEVELLING WASHER, FEMALE, M16		
70	2	2	0005283	LEVELLING WASHER, MALE, M16		
71	1	1	0003265	IDLER PULLEY, SPHERICAL ALIGNMENT, 33 mm WD, 80 mm DIA		
72	1	1	0002043	RETAINING RING, INTERNAL, 40 mm BORE (42.5 mm GROOVE)		
73	1	$\overline{}$		PARALLEL KEY, 8 X 8 mm, 37 mm LG		
74	1	1	0002646	NUT LOCKING PLATE		
			0002019	MANUAL TUBE		
75	1	1	0001655			
76	1	1	0001217	CLUTCH SPACER, 27 ID X 50.5 OD X 30 mm LG		
77	1	1	0001137	PARALLEL KEY, 1/4 X 1/4 in, 1 in LG		
78	1	-	0003930	CLUTCH ASSEMBLY, HEAVY-DUTY, 1 in [25.4 mm] SHAFT, 108 mm DIA PULLEY		
79	-	1	0001823	CLUTCH ASSEMBLY, 1 in [25.4 mm] SHAFT, 87 mm DIA PULLEY		
80	1	1	0007082	CLUTCH HOUSING GUARD, VALVE MOUNT BRACKET, 9.5 & 14 hp		
81	1	1	0002079	OIL DRAIN EXTENSION, 56 mm LG, M12 X 1.5 THD		
82	2	2	0006224	SEALING WASHER, M12		
83	1	1	0001136	EXHAUST REDIRECT, 9.5 & 14 hp KOHLER ENGINES		
84	1	1	0006978	VALVE ACTUATION TAB, 9.5 & 14 hp		
85	1	1	0003452	STEM VALVE, 1/8 in NPT FEMALE, 1/8 in STEM TRAVEL		
86	3	3	0005127	FITTING, ADAPTER, BARBED, 1/8 in NPT MALE TO 1/4 in HOSE		
87	1	1	0001985	CABLE ADJUSTMENT SCREW, 2 mm CABLE, M6 X 1, 25 mm LG		
88	1	1	0004982	COMPRESSION SPRING, CLOSED GROUND ENDS, 8.5 mm OD, 0.9 mm DIA WIRE, 27 mm LG		



Itam ——		ntity	Part No.	Description		
	14 hp	9.5 hp				
89	1	1	0005578	COMPRESSION SPRING, CLOSED GROUND ENDS, 7.49 mm OD, 0.81 mm WIRE DIA, 40 mm LG, 0.21 lb/mm		
90	1	1	0005103	EXTENSION SPRING, HOOK ENDS, 8.5 mm OD, 1.5 mm DIA WIRE, 100 mm LG		
91	1	1	0001123	SAW BLADE, 7/8 in PITCH, 165 TEETH, 1-1/4 WD X 144 LG X .042 in THK		
92	2	2	0001135	FRONT POST, 50 X 50 mm, 1315 mm LG		
93	2	2	0002067	BACK POST, 50 X 50 mm		
94	2	2	0001660	PLASTIC END CAP, SQ, 50 X 50 mm		
95	4	4	0001143	CARRIAGE SIDE PLATE		
96	4	4	0001966	SPACER, 20.5 ID X 32 OD X 40 mm LG		
97	4	4	0001967	SPACER, 20.5 ID X 32 OD X 10 mm LG		
98	2	2	0001102	SPACER, 13 ID X 33.5 OD X 50 mm LG		
99	4	4	0001037	CARRIAGE WHEEL		
100	4	4	0001019	WHEEL SWEEPER INNER BRACKET		
101	4	4	0001017	WHEEL SWEEPER OUTER BRACKET		
102	4	4	0001018	WHEEL SWEEPER CABLE		
103	1	1	0001139	CROSS BEAM		
104	2	2	0001661	PLASTIC END CAP, RECT, 100 X 50 mm		
105	1	1	0002096	LOG SCALE MOUNTING BRACKET		
106	1	1	0002097	SCALE INDICATOR ARROW BRACKET, REAR		
107	1	1	0002098	SCALE INDICATOR ARROW BRACKET, FRONT		
108	1	1	0002099	SCALE INDICATOR ARROW		
109	1	1	0002764	KNOB, MULTI-LOBE, 48 mm OD, M8 X 1.25, 25 mm LG		
110	1	1	0002040	SCALE SUPPORT		
111	1	1	0001038	SCALE SUPPORT SPACER PLATE		
112	1	1	0003233	MAGNETIC SCALE, 27 in, YELLOW		
113	1	1	0003235	MAGNETIC SCALE, 27 in, WHITE		
114	1	1	0007794	LUBRICATION TANK BRACKET, RIGHT		
115	1	1	0007795	LUBRICATION TANK BRACKET, LEFT		
116	1	1	0007543	LUBRICANT TANK, 10 L [2.6 gal], NO TABS		
117	2	2	0007528	TIGHT-SEAL BOLT CLAMP, M6 X 1		
118	1	1	0001132	TANK CAP		
119	1	1	0005221	BEAD CHAIN, 3 mm BEAD, 140 mm LG		
120	1	1	0002037	NAMEPLATE, HM126		
121	1	1	0002038	NAMEPLATE BACKING		
122	1	1	0005117	FITTING, ELBOW, 90°, BARBED, 6 mm ID TUBE, WHITE		
123	1	1	0002809	SIGHT LEVEL TUBING, LUBRICATION TANK		
124	1	1	0002691	LUBRICATION TUBING, TANK-TO-ELBOW, 2-3/16 in [55 mm] LG		
125	1	1	0002692	LUBRICATION TUBING, TANK-TO-VALVE, 8 mm OD, 22-1/4 in [565 mm] LG		
126	1	1	0002693	LUBRICATION TUBING, VALVE-TO-BLADE, 8 mm OD, 32-1/2 in [825 mm] LG		
127	1	1	0002066	DASHBOARD		
128	1	1	0002671	HOUR METER		
129	1	1	0001120	LIFT MECHANISM HOUSING		
130	1	1	0001121	LIFT MECHANISM EXTENSION ARM		
131	1	1	0001048	BRONZE NUT, LH TR20X4 FEM THD, M27 X 1.5 MALE THD		
132	1	1	0001134	LEAD SCREW, LH TR20X4 X 335 mm LG THD		
133	2	2	0006079	SLOTTED NUT, ROUND, M14 X 1.5		
134	6	6	0002812	SPACER, 12 ID X 18 OD X 12 mm LG		
135	2	2	0002813	SPACER, 12 ID X 18 OD X 5 mm LG		



Item	Quantity		Part No.	Description		
	14 hp	9.5 hp				
136	7	7	0001099	WIRE ROPE PULLEY, 6001-2RS BEARING, 73 mm DIA		
137	7	7	0004813	RETAINING RING, INTERNAL, 28 mm BORE (29.4 mm GROOVE)		
138	1	1	0002520	CRANK HANDLE INDEX PLATE, 125 mm DIA, SST		
139	1	1	0002632	SELF-LOCKING CRANK HANDLE ARM LUG		
140	2	2	0002675	SPACER, 12.5 ID X 30 OD X 3.3 mm LG		
141	1	1	0004777	SPRING PIN, SLOTTED, 5 mm DIA, 20 mm LG		
142	1	1	0004975	COMPRESSION SPRING, CLOSED GROUND ENDS, 0.720 in OD, 0.096 in DIA WIRE, 1.750 in LG, 86 lb/in RATE		
143	1	1	0002633	SELF-LOCKING CRANK HANDLE ARM		
144	1	1	0006040	SET SCREW, FULL ROUND, M12 X 1.75, 30 mm LG		
145	1	1	0004214	SPACER, 16.5 ID X 25 OD X 2 mm LG, NYLON		
146	1	1	0003015	WIRE ROPE LIFT CABLE W/ EYEBOLT, LEFT, 4 mm DIA, 122.5 in [3110 mm] LG		
147	1	1	0003016	WIRE ROPE LIFT CABLE W/ EYEBOLT, RIGHT, 4 mm DIA, 78 in [1980 mm] LG		
148	1	1	0004511	PUSH HANDLE, ADJUSTABLE, CLAMPING THROTTLE HANDLE		
149	1	1	0001662	PLASTIC END CAP, ROUND, 32 mm OD		
150	1	1	0004245	THROTTLE HANDLE GRIP		
151	1	1	0004246	THROTTLE HANDLE TOP CLAMP, 32 mm TUBE		
152	1	1	0004247	THROTTLE HANDLE BOTTOM CLAMP, 32 mm TUBE		
153	1	1	0004248	CABLE ADJUSTMENT SCREW, SPLIT, 2 mm CABLE, M8 X 1.25, 22 mm LG		
154	1	1	0005666	HEX NUT, CLS 8, M8 X 1.25, SPLIT		
155	1	1	0001112	THROTTLE CABLE BARREL CLAMP		
156	1	1	0001117	THROTTLE CABLE, 70.5 in [1790 mm] LG CABLE, 60 in [1525 mm] LG SHEATH		
157	1	1	0001839	LABEL, SERIAL NUMBER		
158	1	1	0006993	LABEL, RECOMMENDED BLADE TENSION BY TURNS		
159	1	1	0005688	LABEL, DRIVE-SIDE TRACKING		
160	1	1	0002769	LABEL, DANGER/WARNING COLLAGE		
161	2	2	0002766	LABEL, CAUTION: DO NOT OPERATE WITHOUT GUARDS		
162	1	1	0002770	LABEL, DANGER: MOVING PARTS CUT/CRUSH		
163	1	1	0002771	LABEL, DANGER: BANDSAW BLADE WILL CUT		
164	1	1	BK57	V-BELT, KEVLAR, BK57		
165	1	1	BK80	V-BELT, KEVLAR, BK80		
166	-	1	CH395-3149	ENGINE, KOHLER COMMAND PRO HORIZONTAL, 9.5 hp		
	1	1		ENGINE, KOHLER COMMAND PRO HORIZONTAL, 14 hp		
167	'	-	CH440-3149			
168	4	4	5204-2RS	BALL BEARING, SEALED, ANG-CONT, DOUBLE ROW, 20 mm SFT, 47 mm HSG, 20.6 mm WD		
169	2	2	6000-2RS	BALL BEARING, SEALED, 10 mm SFT, 26 mm HSG, 8 mm WD		
170	7	7	6001-2RS	BALL BEARING, SEALED, 12 mm SFT, 28 mm HSG, 8 mm WD		
171	1	1	6203-2RS	BALL BEARING, SEALED, 17 mm SFT, 40 mm HSG, 12 mm WD		
172	4	4	6305-2RS	BALL BEARING, SEALED, 25 mm SFT, 62 mm HSG, 17 mm WD		
173	2	2	51102	THRUST BEARING, SINGLE DIR, 15 mm SFT, 28 mm HSG, 9 mm WD		
174	1	1	51204	THRUST BEARING, SINGLE DIR, W/ HSG, 20 mm SFT, 40 mm HSG, 14 mm WD		
175	1	1	SLS-03-08	FLOW CONTROL VALVE, RA, 3/8 NPT, 8 mm QUICK-CONNECT TUBE		
176	2	2	HHB-MBE075FCJ	HEX HEAD BOLT, CLS 8.8, M6 X 1, 20 mm LG, FULL		
177	2	2	HHB-MBE080FCJ	HEX HEAD BOLT, CLS 8.8, M6 X 1, 25 mm LG, FULL		
178	4	4	HHB-MBE090FCJ	HEX HEAD BOLT, CLS 8.8, M6 X 1, 35 mm LG, FULL		
179	2	2	HHB-MBJ063FCJ	HEX HEAD BOLT, CLS 8.8, M8 X 1.25, 12 mm LG, FULL		
180	4	4	HHB-MBJ071FCJ	HEX HEAD BOLT, CLS 8.8, M8 X 1.25, 16 mm LG, FULL		
181	23	25	HHB-MBJ075FCJ	HEX HEAD BOLT, CLS 8.8, M8 X 1.25, 20 mm LG, FULL		



Item	em Quantity 14 hp 9.5 hp		Part No.	Description	
182	5	5	HHB-MBJ080FCJ	HEX HEAD BOLT, CLS 8.8, M8 X 1.25, 25 mm LG, FULL	
183	1	1	HHB-MBJ085FCJ	HEX HEAD BOLT, CLS 8.8, M8 X 1.25, 30 mm LG, FULL	
184	4	6	HHB-MBJ090FCJ	HEX HEAD BOLT, CLS 8.8, M8 X 1.25, 35 mm LG, FULL	
185	2	2	HHB-MBJ165PCJ	HEX HEAD BOLT, CLS 8.8, M8 X 1.25, 110 mm LG, 22 mm LG THD	
186	2	2	HHB-MBJ185FCJ	HEX HEAD BOLT, CLS 8.8, M8 X 1.25, 130 mm LG, FULL	
187	1	2	HHB-MBM075FCJ	HEX HEAD BOLT, CLS 8.8, M10 X 1.5, 20 mm LG, FULL	
188	4	3	HHB-MBM080FCJ	HEX HEAD BOLT, CLS 8.8, M10 X 1.5, 25 mm LG, FULL	
189	-	4	HHB-MBM100FCJ	HEX HEAD BOLT, CLS 8.8, M10 X 1.5, 45 mm LG, FULL	
190	8	4	HHB-MBM105FCJ	HEX HEAD BOLT, CLS 8.8, M10 X 1.5, 50 mm LG, FULL	
191	1	1	HHB-MBR075FCJ	HEX HEAD BOLT, CLS 8.8, M12 X 1.75, 20 mm LG, FULL	
192	1	1	HHB-MBR090FCJ	HEX HEAD BOLT, CLS 8.8, M12 X 1.75, 35 mm LG, FULL	
193	2	2	HHB-MBR100FCJ	HEX HEAD BOLT, CLS 8.8, M12 X 1.75, 45 mm LG, FULL	
194	1	1	HHB-MBR120PCJ	HEX HEAD BOLT, CLS 8.8, M12 X 1.75, 65 mm LG, 30 mm LG THD	
195	16	16	HHB-MBR135PCJ	HEX HEAD BOLT, CLS 8.8, M12 X 1.75, 80 mm LG, 30 mm LG THD	
196	6	6	HHB-MBR145PCJ	HEX HEAD BOLT, CLS 8.8, M12 X 1.75, 90 mm LG, 30 mm LG THD	
197	2	2	HHB-MBR155FCJ	HEX HEAD BOLT, CLS 8.8, M12 X 1.75, 100 mm LG, FULL	
198	2	2	HHB-MBR165PCJ	HEX HEAD BOLT, CLS 8.8, M12 X 1.75, 110 mm LG, 30 mm LG THD	
199	1	1	HHB-MBR175PCJ	HEX HEAD BOLT, CLS 8.8, M12 X 1.75, 120 mm LG, 30 mm LG THD	
200	1	1	HHB-MCA145PCJ	HEX HEAD BOLT, CLS 8.8, M16 X 2, 90 mm LG, 38 mm LG THD	
201	12	12	HHB-MCA175FCJ	HEX HEAD BOLT, CLS 8.8, M16 X 2, 120 mm LG, FULL	
202	4	4	HHB-MCF175PCJ	HEX HEAD BOLT, CLS 8.8, M20 X 2.5, 120 mm LG, 46 mm LG THD	
203	2	2	HHB-UBU017FGE	HEX HEAD BOLT, GR 5, 3/8-16, 3/4 in LG, FULL	
204	1	-	HHB-UBV025FGJ	HEX HEAD BOLT, GR 8, 3/8-24, 1-1/4 in LG, FULL	
205	-	1	HHB-UCA025FGJ	HEX HEAD BOLT, GR 8, 7/16-20, 1-1/4 in LG, FULL	
206	34	34	FHH-MBM080FCM	HEX BOLT, FLANGED, CLS 10.9, M10 X 1.5, 25 mm LG, FULL	
207	16	16	FHH-MBM090PCM	HEX BOLT, FLANGED, CLS 10.9, M10 X 1.5, 35 mm LG, 26 mm LG THD	
208	2	2	FHH-MBM125PCJ	HEX BOLT, FLANGED, CLS 8.8, M10 X 1.5, 70 mm LG, 26 mm LG THD	
209	6	6	BHS-MAW051FTA	BUTTON HEAD SCREW, CLS 10.9, M4 X 0.7, 6 mm LG, FULL	
210	2	2	BHS-MAW059FCM	BUTTON HEAD SCREW, CLS 10.9, M4 X 0.7, 10 mm LG, FULL	
211	8	8	BHS-MBE071FCM	BUTTON HEAD SCREW, CLS 10.9, M6 X 1, 16 mm LG, FULL	
212	4	-	BHS-MBJ090FCM	BUTTON HEAD SCREW, CLS 10.9, M8 X 1.25, 35 mm LG, FULL	
213	4	4	SHC-MBJ075FCP	SHCS, CLS 12.9, M8 X 1.25, 20 mm LG, FULL	
214	2	2	SHC-MBM080FCP	SHCS, CLS 12.9, M10 X 1.5, 25 mm LG, FULL	
215	1	-	SHC-MBR185FCP	SHCS, CLS 12.9, M12 X 1.75, 130 mm LG, FULL	
216	2	2	LSH-MBE085PCP	SHCS, LP, CLS 12.9, M6 X 1, 30 mm LG, 18 mm LG THD	
217	1	1	HHS-MBM057090AJ	SHLDR SCREW, HEX HEAD, ALLOY, 11 X 35 mm LG SHLDR, M10 X 1.5 X 18 mm LG THD	
218	1	1	SHS-MBR063145CP	SHLDR SCREW, SH, CLS 12.9, 16 X 90 mm LG SHLDR, M12 X 1.75 X 18 mm LG THD	
219	1	1	PPH-MAW063FTA	SCREW, PPH, SST, M4 X 0.7, 12 mm LG, FULL	
220	2	2	PPH-MAW085FCE	SCREW, PPH, CLS 4.8, M4 X 0.7, 30 mm LG, FULL	
221	2	2	PPH-MBE067FCE	SCREW, PPH, CLS 4.8, M6 X 1, 14 mm LG, FULL	
222	12	12	PFH-MAW059FCM	SCREW, PFH, CLS 10.9, M4 X 0.7, 10 mm LG, FULL	
223	1	1	HFH-MBE085PCM	SCREW, HFH, CLS 10.9, M6 X 1, 30 mm LG, 18 mm LG THD	
224	2	-	HFH-MBJ075FCM	SCREW, HFH, CLS 10.9, M8 X 1.25, 20 mm LG, FULL	
225	1	1	HFH-MBM075FCM	SCREW, HFH, CLS 10.9, M10 X 1.5, 20 mm LG, FULL	
226	2	2	PST-UBC015FAJ	SCREW, PPH, ST, NO. 10, 5/8 in LG	
227	-	1	KCS-MBE055TA	SET SCREW, KNURLED CUP POINT, SST, M6 X 1, 8 mm LG	



Itom	Quantity		Part No.	Description		
Item	14 hp	9.5 hp	Part No.	Description		
228	8	8	KCS-MBJ055TA	SET SCREW, KNURLED CUP POINT, SST, M8 X 1.25, 8 mm LG		
229	4	4	FTW-MAW000AJ	FLAT WASHER, M4		
230	29	29	FTW-MBE000AJ	FLAT WASHER, M6		
231	26	23	FTW-MBJ000AJ	FLAT WASHER, M8		
232	12	12	FTW-MBJ000NA	FLAT WASHER, M8, NYLON		
233	18	18	FTW-MBM000AJ	FLAT WASHER, M10		
234	58	56	FTW-MBR000AJ	FLAT WASHER, M12		
235	1	1	FTW-MCA000AJ	FLAT WASHER, M16		
236	16	16	FTW-MCF000AJ	FLAT WASHER, M20		
237	2	2	FDW-MBJ079000AJ	FENDER WASHER, M8, 30 mm OD		
238	4	4	FDW-MBM079000AJ	FENDER WASHER, M10, 30 mm OD		
239	3	2	FDW-MBM083000AJ	FENDER WASHER, M10, 34 mm OD		
240	4	4	FDW-MBR080000AJ	FENDER WASHER, M12, 31 mm OD		
241	-	1	FDW-MBR086000AJ	FENDER WASHER, M12, 37 mm OD		
242	4	4	SLW-MBEAJ	SPLIT LOCK WASHER, M6		
243	9	8	SLW-MBMAJ	SPLIT LOCK WASHER, M10		
244	-	1	SLW-MBRAJ	SPLIT LOCK WASHER, M12		
245	2	2	HXN-MBJCH	HEX NUT, CLS 8, M8 X 1.25		
246	7	6	HXN-MBMCH	HEX NUT, CLS 8, M10 X 1.5		
247	4	4	HXN-MBRCH	HEX NUT, CLS 8, M12 X 1.75		
248	36	36	HXN-MCACH	HEX NUT, CLS 8, M16 X 2		
249	1	1	THN-MBECC	HEX NUT, THIN, CLS 4, M6 X 1		
250	4	1	THN-MBRCC	HEX NUT, THIN, CLS 4, M12 X 1.75		
251	4	4	FHN-MBMCH	HEX NUT, FLANGED, CLS 8, M10 X 1.5		
252	10	10	HLN-MAWCH	LOCK NUT, CLS 8, M4 X 0.7		
253	15	15	HLN-MBECH	LOCK NUT, CLS 8, M6 X 1		
254	32	30	HLN-MBJCH	LOCK NUT, CLS 8, M8 X 1.25		
255	7	6	HLN-MBMCH	LOCK NUT, CLS 8, M10 X 1.5		
256	30	29	HLN-MBRCH	LOCK NUT, CLS 8, M12 X 1.75		
257	1	1	HLN-MCACH	LOCK NUT, CLS 8, M16 X 2		
258	4	4	HLN-MCFCH	LOCK NUT, CLS 8, M20 X 2.5		
259	46	46	FLN-MBMCL	LOCK NUT, FLANGED, CLS 10, M10 X 1.5		
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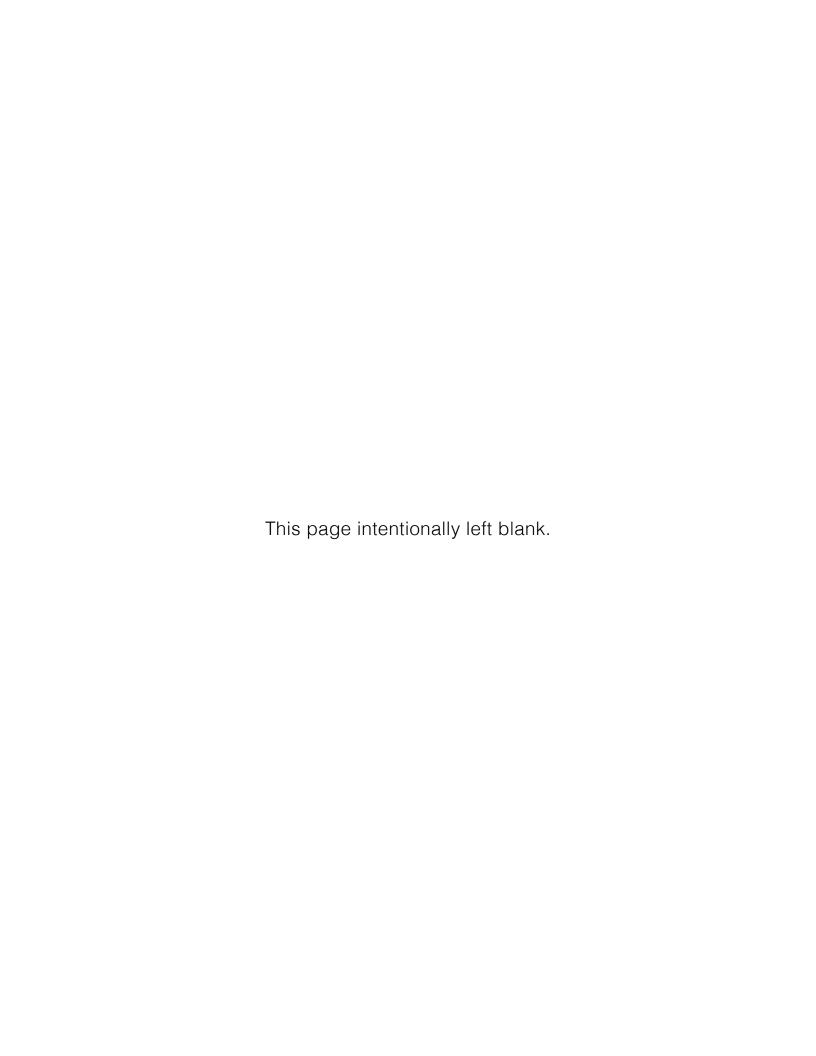


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