

Operator's Manual



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TABLE OF CONTENTS

TABLE OF CONTENTS	1
SPECIFICATIONS	2
SAFETY SIGNS	3
SAFETY	4
WORK AREA	4
INTERNAL COMBUSTION ENGINE SAFETY	4
PERSONAL SAFETY	4
TOOL USE AND CARE	5
START UP PROCEDURE - EQUIPMENT OPERATION	6
MAINTENANCE	6
ASSEMBLY	7
RAILS & CENTRE BUNK	8
MID & END BUNKS	9
SQUARING THE TRACK AND SETTING THE WIDTH	9
FEET	10
LIMIT PLATE	11
LOG CLAMPS	11
LOG SUPPORTS	11
SAWMILL HEAD ASSEMBLY	13
STANDING THE SAWHEAD UPRIGHT	15
CROSS BEAM & HEAD STOPS	15
LIFTING SYSTEM AND WATER TANK	17
LOG SCALE	18
THROTTLE HANDLE	20
LIFT CABLE ROUTING	21
TRANSPARENT WATER PIPE	21
ELECTRIC WIRE CONNECT	24
ENGINE	25

SAWMILL SET-UP PROCEDURES	26
BELT TENSION	26
BLADE TRACKING	26
ADJUSTING THE RIGHT HAND SIDE	27
ADJUSTING THE LEFT HAND SIDE	28
MOVING THE BLADE FORWARD	29
BLADE GUIDE ADJUSTMENT	29
BLADE TENSION	30
SAWMILL MAINTENANCE	32
CHANGING THE BLADE	32
REPLACING BELTS	32
TROUBLE SHOOTING	34
DIAGRAMENSEMBLE	36
DIAGRAM(A)BAND WHEEL HOUSEING	37
PARTS LIST(A)BAND WHEEL HOUSEING	38
DIAGRAM(B)CARRIAGE	40
PARTS LIST(B)CARRIAGE	41
DIAGRAM(C)GUIDE RAIL	43
PARTS LIST(C)GUIDE RAIL	44

SPECIFICATIONS

Model	SM-26
Engine	Ducar
Engine Displacement	420cc
Horsepower	15 hp
Engine Type	Single cylinder, 4 stroke, air-cooled, OHV
Start	E-start
Log Diameter	26"
Max Live Edge Width	22"
Standard Cutting Length	11'
Max Board Thickness	7"
Blade Engagement System	Centrifugal Clutch
Cast Iron Bandwheel Diameter	19"
Blade Wheel Engagement	Belt drive
Blade Guide	By roller
Blade Tension	By adjustable lever
Blade Size	144 x 1.25 in
Blade Pitch	7/8 in
Blade Lubrication	Water lube - manual valve
Lubricant Tank Size	2.6 gal
Track Width	30.5 in
Track Length	13 ft
Track Extension Length	6 ft 5 in
Levelling Feet	12
Log Rests	2 long and 2 short rests
Log Clamps	2x Quick Lock
Track Bunks	3*6 in
4 Post Head Design	Yes
Finish	Powder Coat Paint Galvanized Steel
Packing Size	88*26*34"
N.W./G.W.	728/816 lbs

SAFETY SIGNS

The rating plate on your machine may show symbols. These represent important information about the product or instructions on its use.



SAFETY



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



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

WARNING: Onloperate the engine in a well ventilated area. Carbon Monoxide produced by the engine during use can kill. Do not use indoors, near windowsor 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, so visitors should remain at 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 may 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 fueling. 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 ordeath.

- 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; 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 refueling the engine.
- DO NOT refuel a hot or running engine.
- DO NOT refuel the engine near an open flame.
- DO NOT spill fuel when refueling the engine.
- DO NOT run the engine near open flames.
- ALWAYS refill the fuel tank in a well ventilated area.
- ALWAYS replace the fuel tank cap after refueling.
- 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, exhaust fumes and solid surfaces.

PERSONAL SAFETY

 Stay alert. watch what you are doing and use common sense when operating a power tool. Donot use a power tool while 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.

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SM26 PORTABLE SAWMILL

- 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 as dust mask in dusty work conditions. This applies to all persons in the work area. Also use non-skid safety shoes, hardhat, gloves,dust collection systems, and hearing protection when appropriate.
- Do not over reach. Keep proper footing and balance at all times.
- Remove adjusting keys or wrenches before connecting to the power supply or turning on the tool. A wrench or key that is left attached to a rotating part of the tool may result in personal injury.
- Never make blade guide adjustments, remove or install blades or conduct any other maintenance or make any other adjustments when the engine is running. Always shut the engine off, remove the ignition key, and keep the engine off before carrying out any of the aforementioned procedures. Consult your engine manual for safe shutdown procedures to prevent accident ignition.

TOOL USE AND CARE

- Always be sure 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 hot and may cause burns.
- Always close fuel valve on engines when machine is not being operated.
- Avoid "kick-back" by knowing what conditions can create it.
- 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 band saw 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 SM26 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 guards 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 thancutting lumber as described in this manual.

START UP PROCEDURE - EQUIPMENT OPERATION

- Wear heavy-duty work gloves, ANSI-approved goggles behind a full face shield, steel-toed work boots, and a dust mask.
- Operate only with assistance.
- Ensure guide blocks are tight and track is level
- Fill the lubrication tank with clean water and washing up detergent.
- Start and operate the engine according to the provided engine manual.
- Depress the throttle to bring the blade up to full speed.
- Throttle should be fully depressed when the saw is under load.
- Cut branches off the lumber to be processed.
- WARNING: to avoid death or serious injury. Do not cut lumber with foreign objects in it such as nails, any metal pieces, etc.
- Place the lumber to be cut on the supports.
- WARNING: The operator and any assistants must stay clear of the front and back of the blade whenever the engine is on.
- Move the saw head slowly along the track and against the lumber to make the cut.
- Trim off the rounded sides of the log.
- When the log is squared-off, boards or posts can be cut to custom specifications.
- 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.

MAINTENANCE

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

1. Band wheel Bearings—Should be inspected before use to ensure they are not worn. Bearings are sealed and do not need to be greased.

2. Blade Guide Bearings—Inspect before use for excessive grooves or scoring in the bearing case. Replace if necessary.

3. Blade Tension—Grease threads of tensioning "T" handle when dry or as required. Use multipurpose, extreme-pressure grease.

4. Log Screws—Grease frequently.

5. Belts-Periodically check the condition and wear of the drive and idler belt. Ensure that the blade does not ride on the band-wheels.

6. Drive Belt—Periodically check the tension of the drive belt. It should deflect by no more than 1/2".

7. Saw-Head Locking Cam Handles—Grease assembly every 30 days or as required.

8. Saw-Head Vertical Posts—Spray posts before use with a silicone spray lubricant such as 3in-1 or Jig-A-Loo.

9. Band-Wheel Guards—Routinely remove any build-up of sawdust that may collect inside the band-Wheel guards.

10. Lubrication Tank-Only fill with a water/washing up detergent mixture(one to two caps) or in winter months, use windshield washer fluid. Do not leave lubricant in tank if temperatures fall below 0 degrees Celsius.

ASSEMBLY

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.



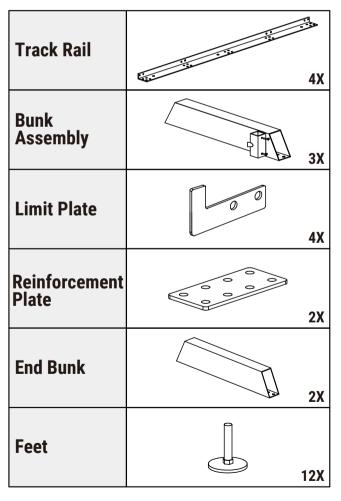
When assembling the sawmill, do not torque the bolts to hardware Class/Grade specifications. Snug the hardware, then tighten a further $\frac{1}{4}-\frac{1}{2}$ turn. Tightening bolts to torque spec can crush metal tubing, ruining the components.

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.

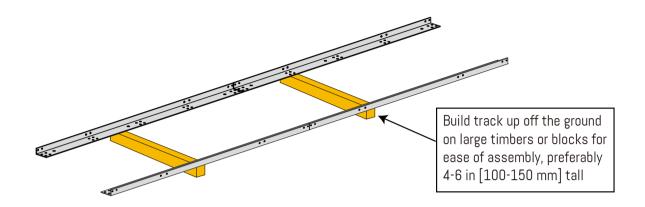
Assemble one of the bunk assemblies over the joint between both pairs of track rails using the components and hardware listed in the table below.

Hex Nut M16	24X
Flanged Lock Nut M10	48X
Flanged Hex Bolt M10 X 30 mm	48X



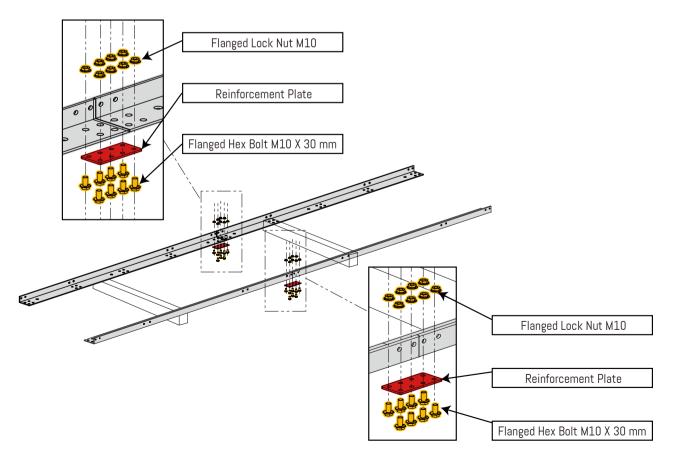
RAILS & CENTRE BUNK

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.



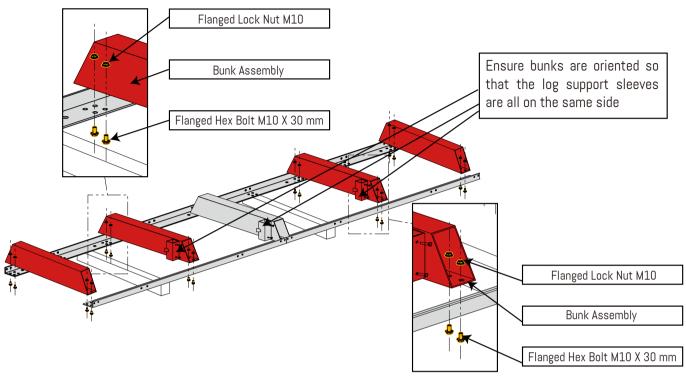
Next, assemble the bunk assembly over the rail joints with a reinforcement plate under the rails on both the left and right sides. Use eight M10 X 30 mm flanged hex bolts and M10 flanged lock nuts per side.

Keep the outer faces of the rails 22.4 in apart but do not 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

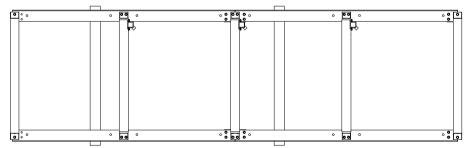
Use M10 X 30 mm flanged hex bolts and M10 flanged lock nuts at all end & mid bunk locations. Snug the hardware in the same manner as the centre bunk.



SQUARING THE TRACK AND SETTING THE WIDTH

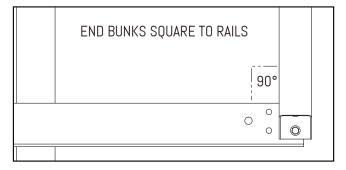
With the bunk hardware connections only snug-tight, the rails can be moved in or out as needed until the proper width is achieved along the entire length of the track.

When the width is uniform along the full length of the track, check its square by measuring diagonally from the railroad tip to the railroad tip.



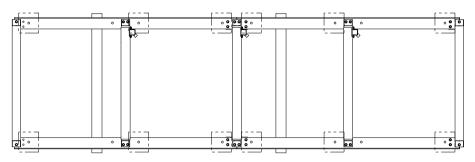
Ensure the end bunks are square to the rails.

Once the width is correct and the rails are square, tighten all M10 x 30 mm flange hex bolts and their nuts, working from the center toward the end, as shown above with the black arrow. Check the width and square of the track again after tightening. Readjust if necessary.

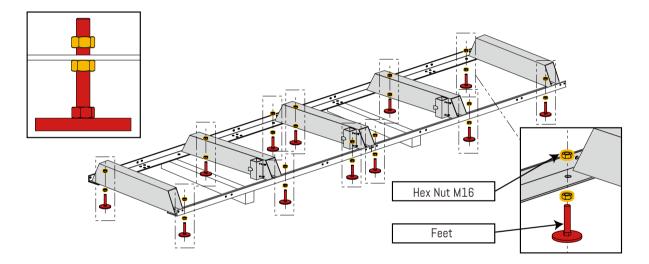


FEET

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

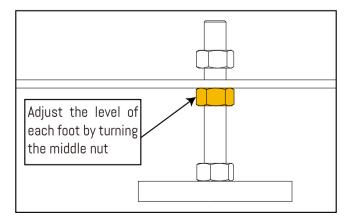


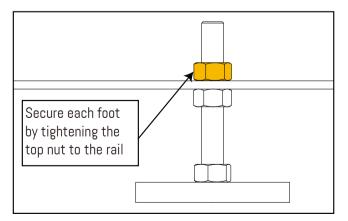
Assemble the leveling feet up through the bottom of the guide rail and thread the M16 hex nut to each foot. Do not tighten the nut. Leave it loose enough so that there is a noticeable gap between the nut and the track to allow the track level in later steps.



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.

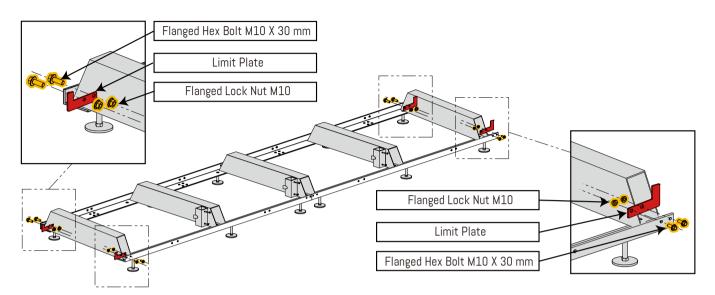
Turn the middle nut on each foot to fine-tune the level. Once level, secure each foot to the rail by tightening the M16 top nut.





LIMIT PLATE

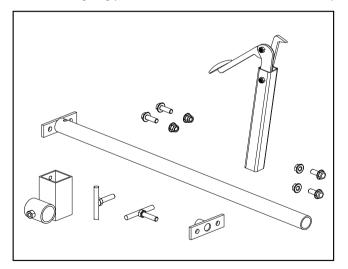
Use two (2) M10 X 30 mm flanged hex bolts and M10 flanged lock nuts to assemble each carriage stop to the inside of the track rails.

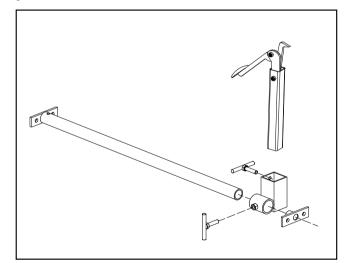


Use two (2) M10 X 30 mm flanged hex bolts and M10 flanged lock nuts to assemble each carriage stop to the inside of the track rails.

LOG CLAMPS

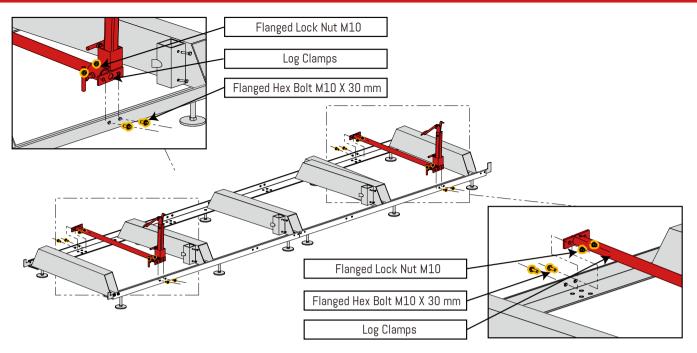
Assemble log dog pieces as shown below and use water proof grease on threaded handle and "T" handle.





Attach assembly to the track using the provided nuts & bolts and tighten. Attach log dog assembly totrack as shown below with the 4 nuts and bolts provided. Note that there are various locations along the track where this assembly can be bolted. Depending on how many track sections are being used, select a log clamp position that will secure the log firmly against the log supports.

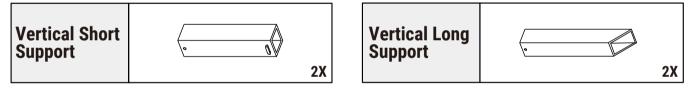




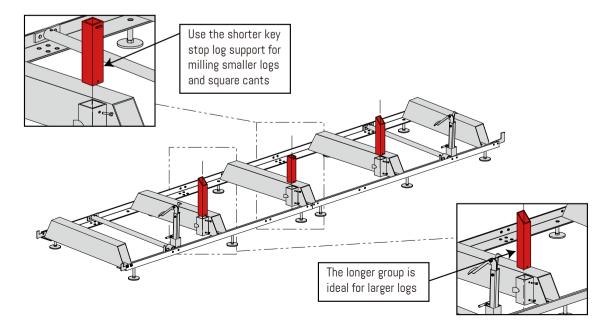
Ensure the log clamp tilts towards the log when clamping. If it tilts away from the log, remove the log clamp from the receiver, loosen the T-bolt, reverse the receiver on the shaft by rotating it 180°, and retighten the T-bolt. Insert the log clamp back into the receiver.

LOG SUPPORTS

Assemble the log supports into the sleeves bolted to the log bunks using the components listed in the table below.



The log supports can be installed into any bunk with a sleeve by simply sliding them down through the top of the sleeve and securing them with the T-bolt.

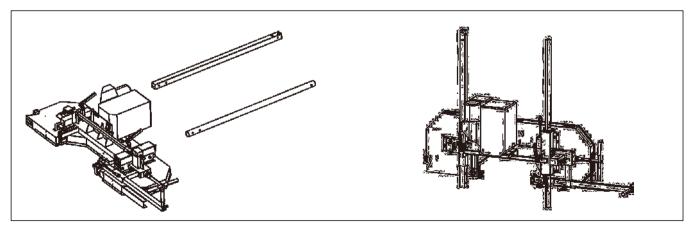


SAWMILL HEAD ASSEMBLY

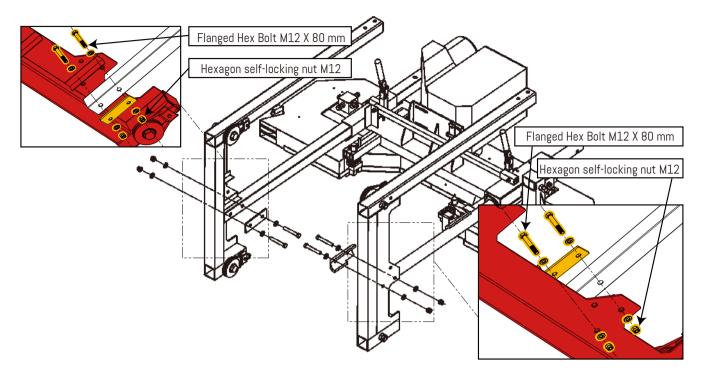
The sawmill head assembly is built in multiple steps. Follow the sub-sections below using the parts table at the top of each sub-section to gather the necessary components for each step.

Hexagon head bolt M6x20	2X	Wheel assembly	2X
Hexagon head bolt M12x80	6X	Front Post	۲
Hexagon head bolt M20x110	2X	Clamping piece	<u>ం</u>) 2X
Hexagon self-locking nut M20	2X	Rear Post	2X
Hexagon self-locking nut M12	6X	Wire rope brush	2X
Flat washer 12	12X	Clamping plate	0 2X
Bottom wheel spacer	2X	Bottom wheel	2X

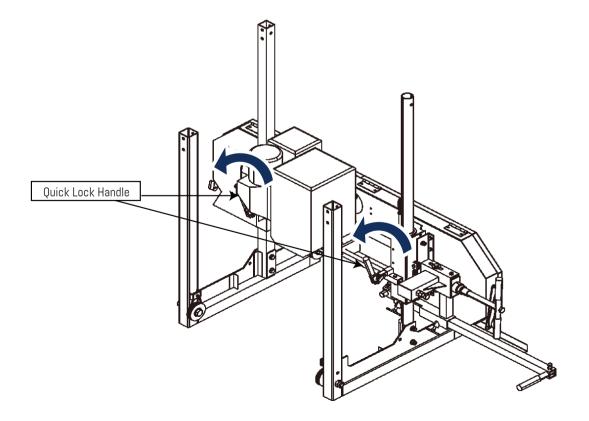
Then Insert vertical post assemblies into corresponding locations in head assembly.



Assemble front vertical post to wheel assembly using the two bolts and back plate. Repeat same step for the other front vertical post assembly.



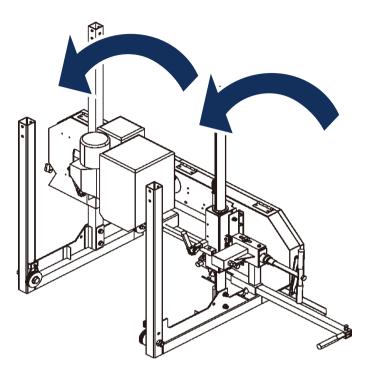
.Lock the cam handles on both the square post to prevent the head from moving when it is stood up in the coming steps. Ensure that when activating the cam handles, the clamps securely lock on the square vertical post.





STANDING THE SAWHEAD UPRIGHT

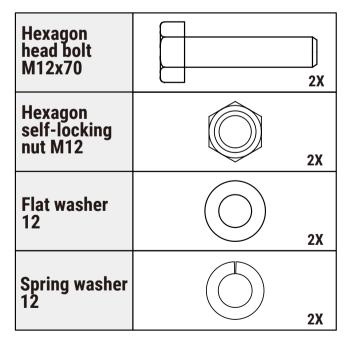
With the help of another person, stand the sawhead upright by rotating it around the rounded profiles at the front of the carriage legs. Do not set the sawhead on the track until instructed to do so later in the assembly process.



CROSS BEAM & HEAD STOPS

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

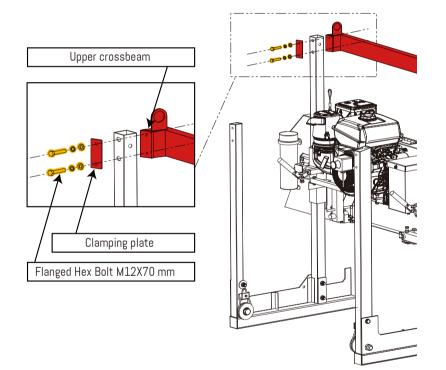
Hexagon head bolt M10x80		
Hexagon self-locking nut M10		10X
Flat washer 10	\bigcirc	10X
Spring washer 10		10X



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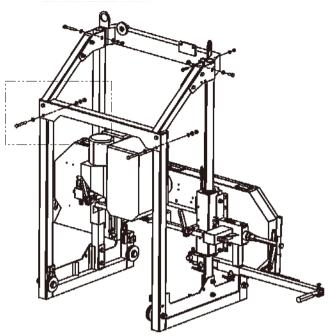
Bottom wheel	2X	Bottom wheel spacer	2X
Upper crossbeam	1X	Connecting plate	0 0 0 1X
Clamping plate	<i>⊘ ⊘</i> 2X	Connecting plate	0 0 3X

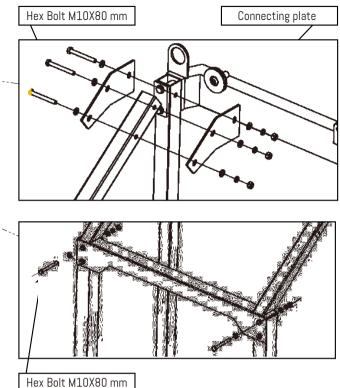
Slide the cross beam into the two square tube post. Boltt he topo f thesq uaretu be post and the cross beam.



Install uper welding bracket, align the post holes with the corresponding black top cross support holes.using wrench to hold the nut ,tighten the bolt.

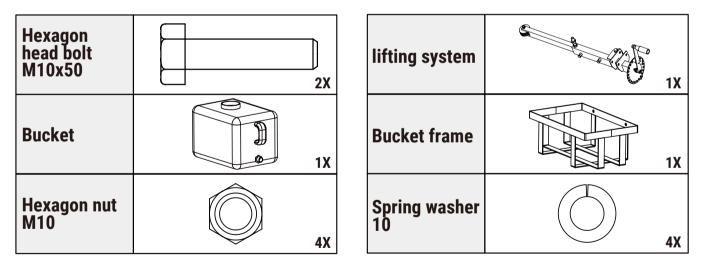
Install the connecting clamping plate, uper arch and steel cabler oller, using wrench to hold thenut, tighten the bolt.



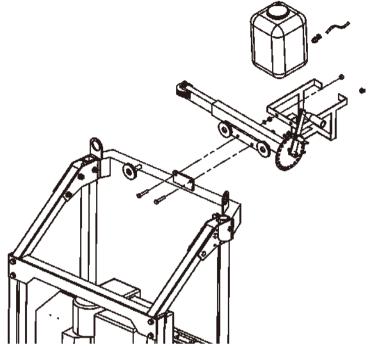


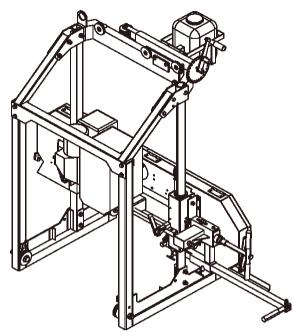
LIFTING SYSTEM AND WATER TANK

Use the hardware listed below.



Install the lifting system and cooling box bracket on the beam, using wrench to hold the nut , tighten the bolt. Then put the water tank into the bracket.





LOG SCALE

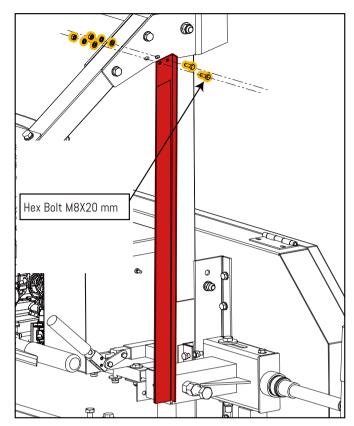
Use the hardware listed below.

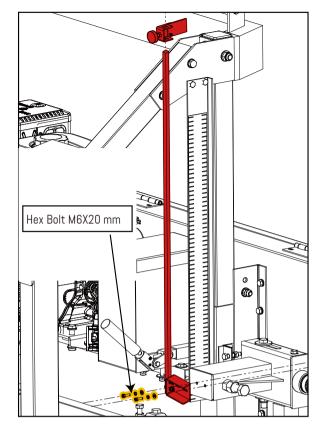
Hexagon head bolt M8x20	2X	Hexagon head bolt M6x20	2X
Hexagon nut M8	2X	Hexagon nut M6	2X
Flat washer 8	2X	Flat washer 6	2X
Spring washer 8	2X	Spring washer 6	2X

Place the measuring scale assembly, the assembly include ruler and height indicator.

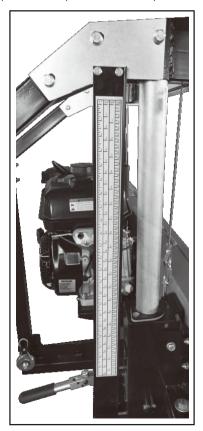
a- install ruler, using wrench to hold the nut , tighten the bolt.

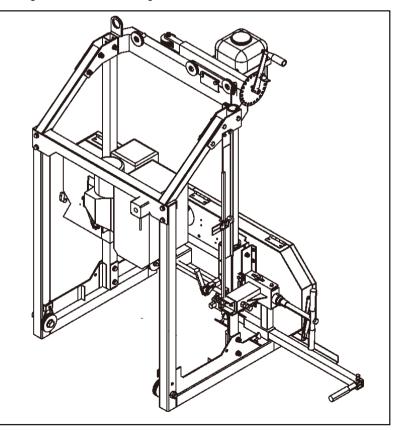
b- Install the square indicator rod to the sawmill using the two bolts and tighten. Slide the scale indicator over the square rod and tighten.





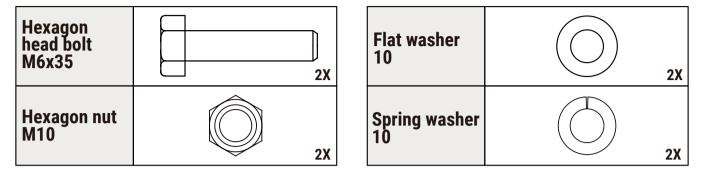
c- It is important to alternate tightening of the nuts (top then bottom) to ensure the black round clamp begins to compress evenly on both the top and bottom until flanges meet at outer edge.



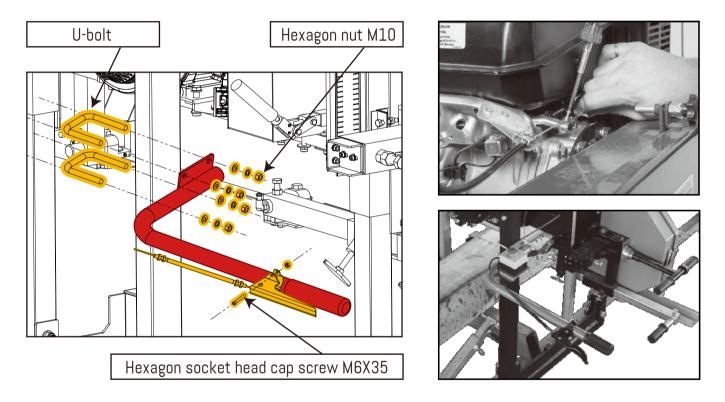


THROTTLE HANDLE

Assemble the throttle handle to the post using the hardware listed below.



Install throttle handle and emergency switch on square rod as shown.



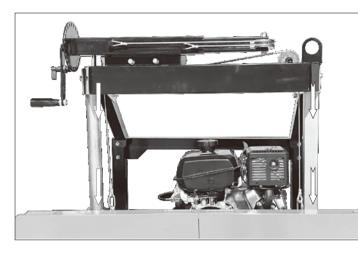
The idler screw needs to be wound fully out failure to do this will result in the engine not running at its full RPMs' which will result a poor cut.

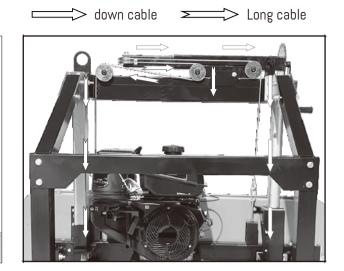




LIFT CABLE ROUTING

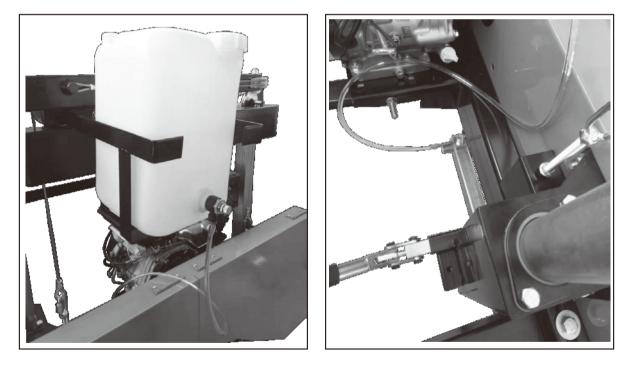
Route the cables on both sides as shown in the below image.





TRANSPARENT WATER PIPE

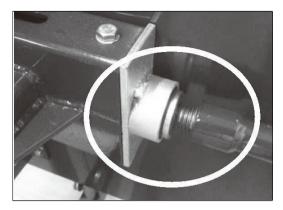
Connect the water pipe. After the connection is completed, check to ensure that there is no water leakage at the joints.



Please Note: We recommend adding some dish washing liquid to the tank to help lubricate the wood - two to three capfuls.

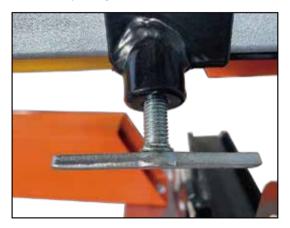
Add waterproof grease to the threads of the blade tension "T" handle and to the washer face that it meets before use. Proper blade tension is achieved when the blade deflects no more than a total of 1/8" - 1/4" up/down.





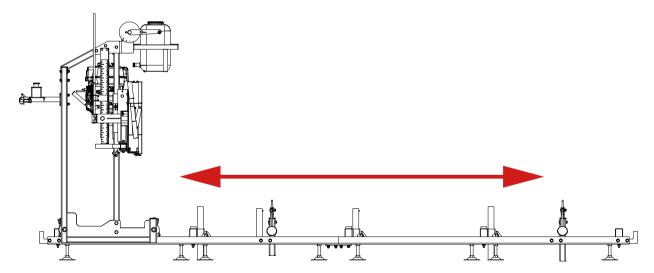
Note – It is very important to take the tension off of the blade by turning the "T" handle in the counter-clockwise direction when the sawmill is not in use. Failure to do so, will result in flat spots on the rubber belts. These flat spots will cause the mill to vibrate excessively during next use.

Add water proof grease to all "T" handle threads on the sawmill.



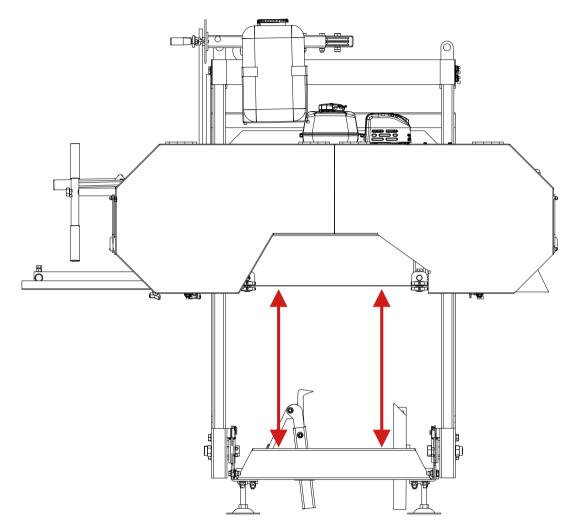


Push the saw head up and down, the track system to ensure that the width of the track allows for the saw head to move freely. If it binds, the "L" rails will need to be set further or closer together to achieve a consistent width along the entire track system. Once the desired width is achieved, all nuts and bolts can be tightened to the log bunks





Using a tape measure, take a measurement from the blade to the top of the log bunk on both the left and right side. The distance should be equal on both sides. If it isn't, you will need to adjust the cable ends at the rear handle to either raise or lower one side.

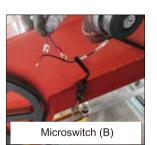


ELECTRIC WIRE CONNECT

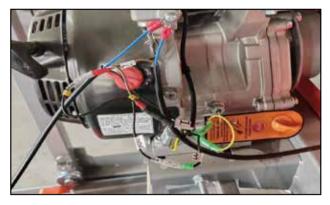


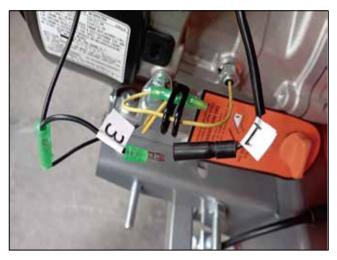
Step. 1: Find the BLACK connect(2pcs)



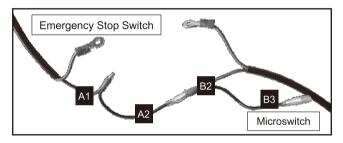


Step. 3: Find the Emergency Stop Switch(A)and the Micros witch (B)

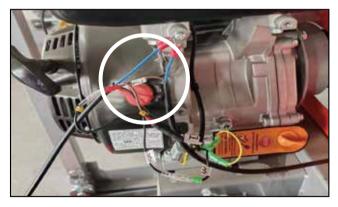




Step. 2: Disconnect BLACK(1and3) wire



Step. 4: Connect the A2 and B2



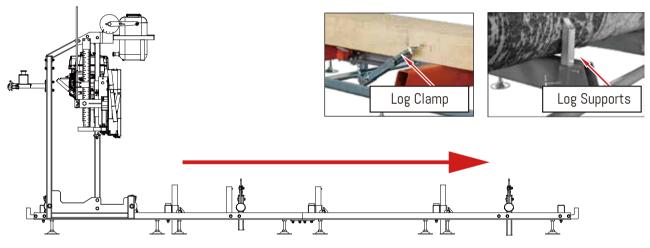
Step.6: Connect chassis

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ENGINE



Refer to the engine manual before using your sawmill. Please note that the engine does not contain any petrol 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.



Always cut in the direction shown above. The log clamp should always be on the right side of the log and the log supports should always be on the left. Failure to cut in this direction can cause the log to come lose and possibly even cause damage or injury.

Now that your sawmill is assembled, please run through the "SAWMILL SET-UPPROCEDURES" in the following section. Failure to do so may result in poor sawing performance, damage or injury. See next page.

SAWMILL SET-UP PROCEDURES

BELT TENSION



To check the belt tension, with your hand, firmly try to deflect the belt up and down. There should be no more than 1/4" of deflection in both directions (1/2" total). If the belt deflects more than this, it will need to be tightened as described below.





To tighten the drive belt, start by loosening the four bolts that secure the engine to the engine mount using a 16mm wrench.

Now that the engine is free to slide on the engine mounting plate, turn the 16mm nut on the horizontal stud In the clockwise direction. This will pull the engine towards the stud and apply more tension on the belt. Do this step incrementally while checking the belt for proper deflection. It is also important to ensure that the engine remains perpendicular to the drive belt. Over tightening can cause the engine to twist on the mounting plate, resulting in belt alignment issues and premature wear. Once the desired belt tension is set, tighten the four engine bolts. Alternatively, if the drive belt is too tight, the 16mm nut on the horizontal stud can be turned counter-clockwise.

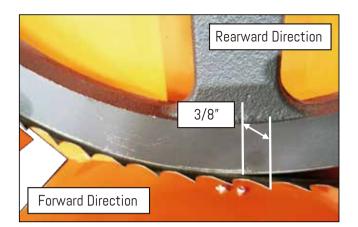


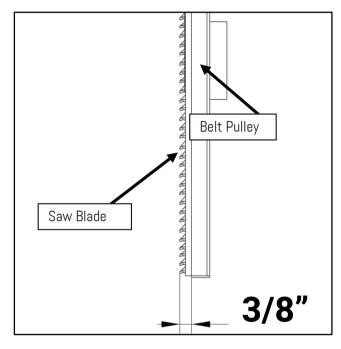
BLADE TRACKING

Never attempt the below with the engine running. As a safety precaution, remove the spark plug cap. It is also advised to wear gloves and safety glasses when working with the blade as it is extremely sharp.

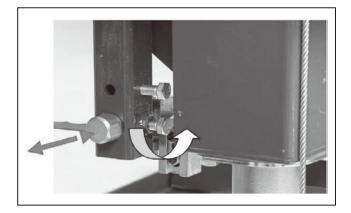




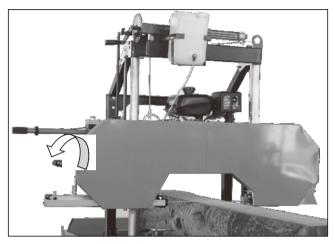




The blade should run with the same tooth to bandwheel face distance on both sides. 3/8" is ideal. Measure the distance from the tip of the blade tooth to the front face of the bandwheel on both sides. If an adjustment on either side is required, the below steps will detail this procedure.



Loosen the blade guide assembly bolt with a socket. The round shaft should now be free to slide rearward and out of the way. Perform this step on both guide assemblies. This will ensure that the guide bearings do not influence tracking of the blade while adjusting.



Take some tension off of the blade by turning the "T" handle in the counter-clockwise direction one full turn from full tension position.

ADJUSTING THE RIGHT HAND SIDE



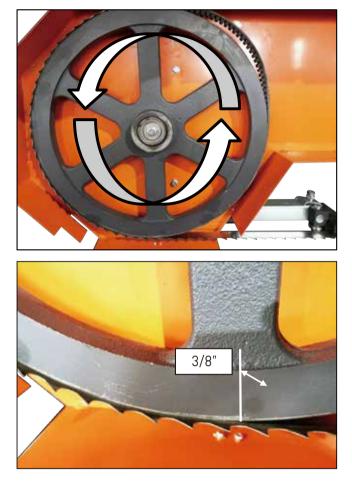
Loosen the tracking alignment locking nut with an adjustable wrench.



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The alignment bolt can now be turned to change the angle of the bandwheel and track the blade. To move the blade more rearward on the bandwheel, this bolt will need to be turned clockwise. Alternatively, turning the bolt in the counter-clockwise direction would force the blade to run more forward on the bandwheel. Turn the bolt a 1/2 turn and re-tension the blade.

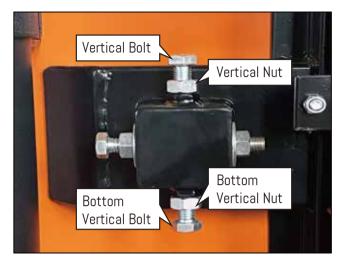


Wearing gloves, spin the bandwheel with your hand and observe how the blade has changed tracking. Measure the distance again and repeat the above step to further compensate if required. The ideal measurement is 3/8".



Once satisfied with the measurement, tighten the locking nut clockwise.

ADJUSTING THE LEFT HAND SIDE



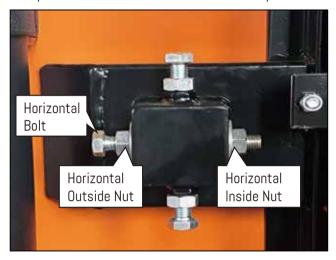


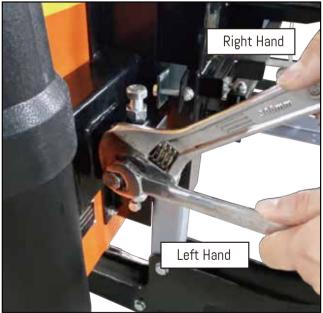
To adjust the left side of the sawmill, again start by taking the tension off of the blade by turning the "T" handle one turn in the counter-clockwise direction. Using a 16mm wrench, loosen the "vertical nut" a ½ turn. Do the same on the "bottom vertical nut". Next, loosen both "vertical bolts" a ½ turn. This will take the clamping force off of the bandwheel shaft caused by these two bolts and allow it to move freely in the following steps.

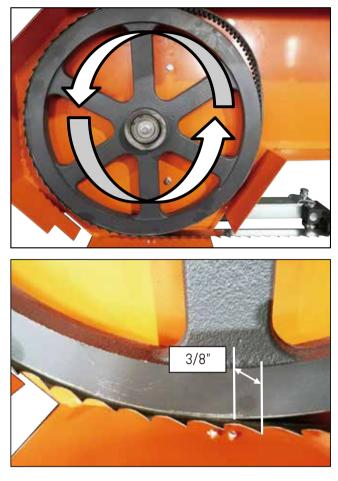


MOVING THE BLADE FORWARD

Using a 16mm wrench, hold the "horizontal bolt" stationary with a wrench and turn the "horizontal outside nut" counter-clockwise a ½ turn. Still holding the "horizontal bolt" stationary, turn the "horizontal inside nut" clockwise a ½ turn. This step has now shifted the "horizontal bolt" and bandwheel shaft, causing the blade to track more forward. Tighten the vertical bolts, then nuts to clamp the bandwheel shaft back into vertical position.







Re-tension the blade by turning the "T" handle a full turn in the clockwise direction. Wearing gloves, spin the bandwheel with your hand and observe how the blade has changed tracking. Measure the distance again and repeat the above step to further compensate if required. The ideal measurement is 3/8".

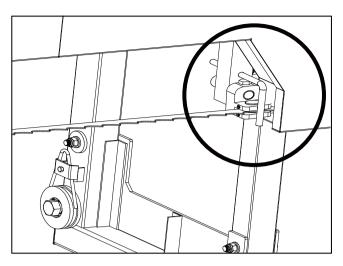
Once the blade is tracking true, bring the blade guide assemblies back up to the blade. Keep a paper width distance between the blade guide bearing and the back of the blade. More information on this set up can be found in the next section – "BLADE GUIDE ADJUSTMENT"

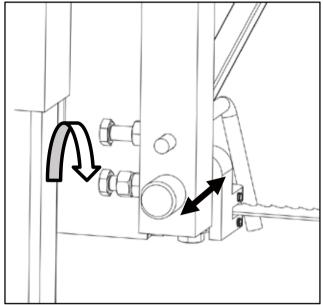
BLADE GUIDE ADJUSTMENT

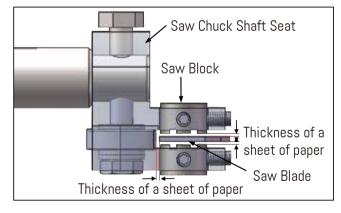
Never attempt the below with the engine running. As a safety precaution, remove the spark plug cap. It is also advised to confirm that the blade is tracking properly before performing the below. Blade tracking is covered in the previous page.

Using a 6mm allen 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 bolt with a 16mm socket. The round shaft should now be free to slide back and forth. Position it so that there is a paper width gap between the bearing and the back of blade. Tighten bolt against the flat on the shaft to secure assembly back in position.



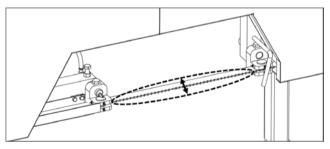
Adjusting the gap above the saw blade.



Adjust the gap below the saw blade.

Using a piece of paper in between the blade and blade guide blocks, tighten the allen key bolts.

BLADE TENSION



Proper blade tension is achieved when the blade deflects no more than a total of 1/8" - 1/4" up/down when it is firmly moved by hand at the center location of the blade guide blocks. Turning the blade tension "T" handle in the clockwise direction will add tension to blade.

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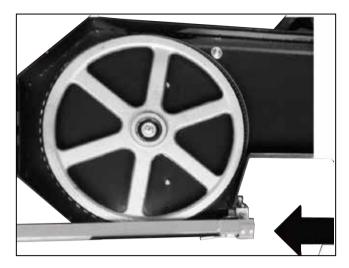
When tensioning the blade, make sure the tracking adjustment bolt sitting behind the T handle (pictured) is sitting back in its recess after you have finished and before the mill is run. Failure to do this will result in the blade being thrown and possibly broken.



Tracking adjustment bolt out of recess, of it looks like this DO NOT start the mill until it is resting back in its recess

Tracking adjustment bolt sitting in recess. It should look like this before the mill is started back up.





Ensure the blade support arm is locked into place after tensioning the blade.

SAWMILL MAINTENANCE

CHANGING THE BLADE

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



Remove the tension in the blade by turning the "T" handle in the counter-clockwise direction and then open the blade guard cover. The blade should now be loose and free to pull straight out the front. The new blade can now be installed, guards closed and proper blade tension set.

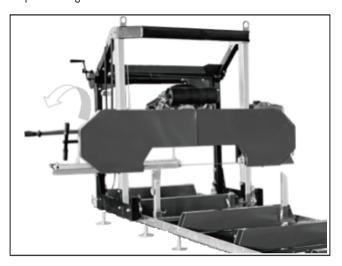
REPLACING BELTS

Never attempt the below 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 rubber "V" belts on the sawmill and they should be replaced as a set. It is not advised to replace individual belts separately. It is recommended to use a BX77 cogged belt for the drive side and a BX58 follower belt.

Remove the tension in the blade by turning the "T" handle in the counter-clockwise direction and then open the blade guard cover. The blade should now be loose and free to pull straight out the front.





To change the drive side belt, loosen the four bolts that secure the engine to the engine mount using a 16mm wrench.



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Now that the engine is free to slide on the engine mounting plate, turn the 16mm nut on the horizontal stud in the counter-clockwise direction. This will allow the engine to move and will also take the tension off of the belt. The old belt can be removed and the new belt can be installed. Tension the new belt and refer to the BELT TENSION instructions described in the sawmill set up section of themanual.



The follower belt can now be changed by simply pulling it off and installing the new one. The blade can now be re-installed, guards closed and proper blade tension set.

Note that blade tracking is likely to change and need adjusting when new belts are installed. Refer to "BLADE TRACKING" for more information.

TROUBLE SHOOTING

Problem/Issue	Possible Causes	Resolution Options
Producing wavy cuts.	 Inadequate blade tension. Improper blade guide set up. Improper blade tracking. Sap build up on blade. Dull blade. Pushing mill too quickly. 	 Tighten blade. Gap between guide blocks and blade are incorrect. Adjust blade tracking. Install new blade. Always use blade lubricant. Install new blade. Slow feed rate down and push head slower through log.
Last board is tapered or narrow in middle.	1. Tracks are not level.	 Tracks need to be checked with level and adjusted to be square. They also need to be set up on firm, sturdy round/base so deflection does not occur from logs or sawmill head.
Blade dulls quickly.	1. Logs are not clean. 2. Foreign objects in log.	 Logs may contain dirt/sand causing them to wear prematurely. Tree may contain nails, staples, old fencing etc.
Blade comes off of bandwheels.	 Inadequate blade tension. Improper blade guide set up. Improper blade tracking. Belts are worn. Dull blade. Pushing mill too quickly 	 Tighten blade. Gap between guide blocks and blade are incorrect. Adjust blade tracking. Install new belts. Install new blade. Slow feed rate down and push head slower through log.
Blades are breaking.	 Too many blade sharpening. Inadequate blade tension. Improper blade guide set up. Improper blade tracking. Pushing mill too quickly. 	 Replace blade. Binding between guide blocks when blade is too loose. Tighten blade. Gap between guide blocks and blade are incorrect. Adjust blade tracking. Slow feed rate down and push head slower through log.
Blade is slowing down or stopping when milling.	 Inadequate blade tension. Improper drive belt tension. Pushing mill too quickly. 	 Tighten blade. Belts are worn or too loose. Replace. Slow feed rate down and push head slower through log.
Mill is not cutting/cutting very slowly	1. Dull blade. 2. Blade is on backwards.	 Install new blade. Remove blade and flip it inside out. The teeth should be facing in the direction of the log supports.

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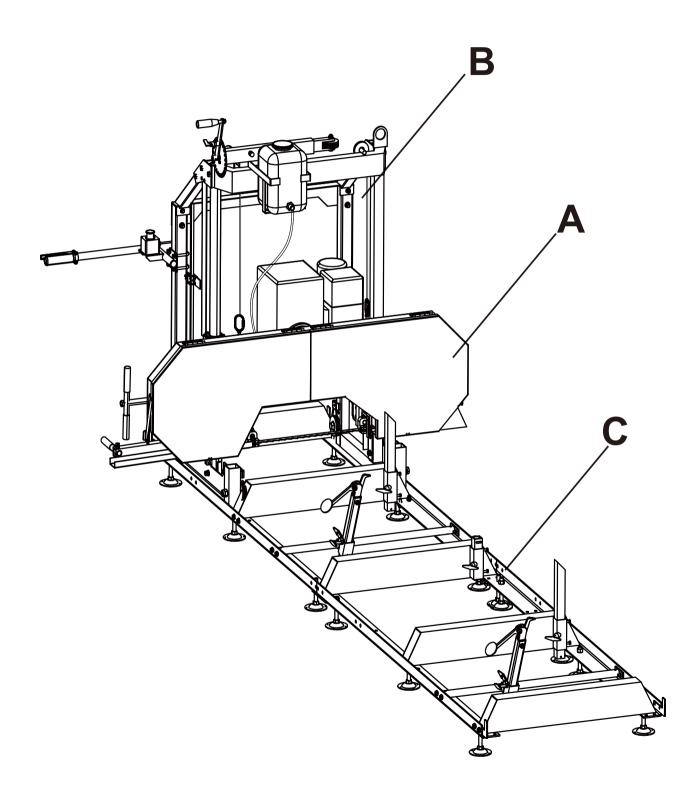
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Problem/Issue	Possible Causes	Resolution Options
Mill is vibrating excessively.	 Log is not clampedsecurely. Belts are deformed. Bandwheel bearing issue. Pushing mill too quickly. Loose bolts. 	 Ensure log is clamped firmly resting on log bunksand against log supports. Belts may have flats in them from leaving blade tension tight when not in use. Replace them. Inspect and replace the bandwheel bearings if worn. Slow feed rate down when milling, Check all bolts to ensure they are tight.





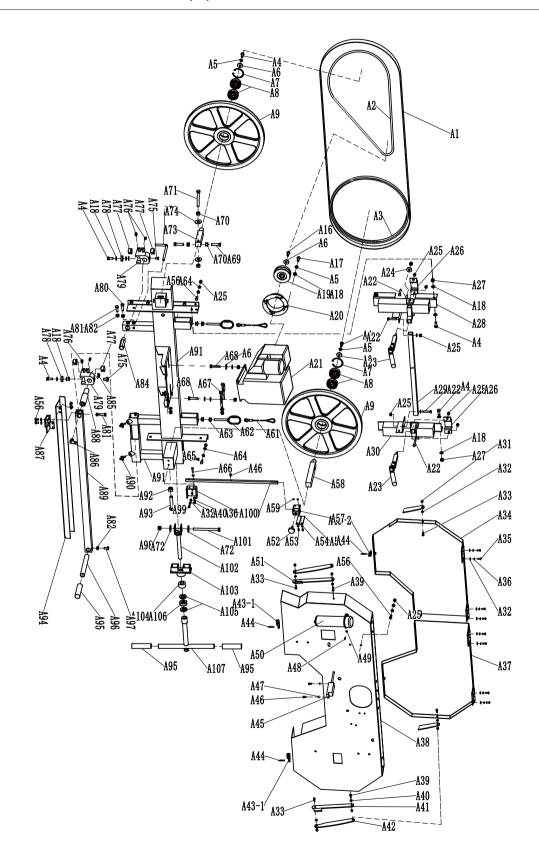
DIAGRAM--ENSEMBLE



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DIAGRAM (A) --BANDWHEEL HOUSEING



PARTS LIST(A)--BAND WHEEL HOUSEING

REF	DESCRIPTION
A1	Saw blade
A2	Bi2400 V-belt
A3	Bi1473 V-belt
A4	Hexagon bolt M10x25
A5	Spring washer 10
A6	Large side flat pad 10(φ 10*35*3.0)
A7	Circlip for hole 62
A8	Deep groove ball bearing 6305
A9	Pulley
A10	Circlip for shaft 17
A11	Circlip for hole 40
A12	Deep groove ball bearing 6203-2RS
A13	Tensioner wheel
A14	Tension Shaft
A15	Flat washer 16
A16	American 3/8x24x25
A17	American 3/8x16x25
A18	Flat washer 10
A19	Clutch
A20	Clutch shield welding
A21	Engine
A22	Hexagon bolt M8x40
A23	Quick locking (assembly)
A24	Large washer 10
A25	Non metal insert hexagonlock nut M8
A26	Locking plate weldment
A27	Non metal insert hexagonlock nut M10
A28	Right lifting locking welding
A29	Tube drawing

REF	DESCRIPTION
A30	Left lifting locking welding
A31	Non metal insert hexagonlock nut M6
A32	Flat washer 6
A33	Hexagon head bolt M6X16
A34	Right hood door welding 1
A35	Cross pan head screw M6x16
A36	Spring washer 6
A37	Left hood door welding
A38	Welding of shield body
A39	Hexagon head bolt M6X20
A40	Hexagon nut M6
A41	Side pull plate 3
A42	Side pull plate 1
A43	Buckle
A44	Pop rivet 4X10
A45	Limit switch YBLX
A46	Cross recessed pan headscrew M5X12
A47	Spring washer 5
A48	Pop rivet 4X16
A49	Large flat washer 4
A50	Instruction cartridge
A51	Side pull plate 2
A52	M8X40 floral handle
A53	Cross recessed pan head screw M4x12
A54	Flat washer 4
A55	Scale plate
A56	Hexagon head bolt M8X20
A57	Scale holder
A58	Passive saw wheel shaft

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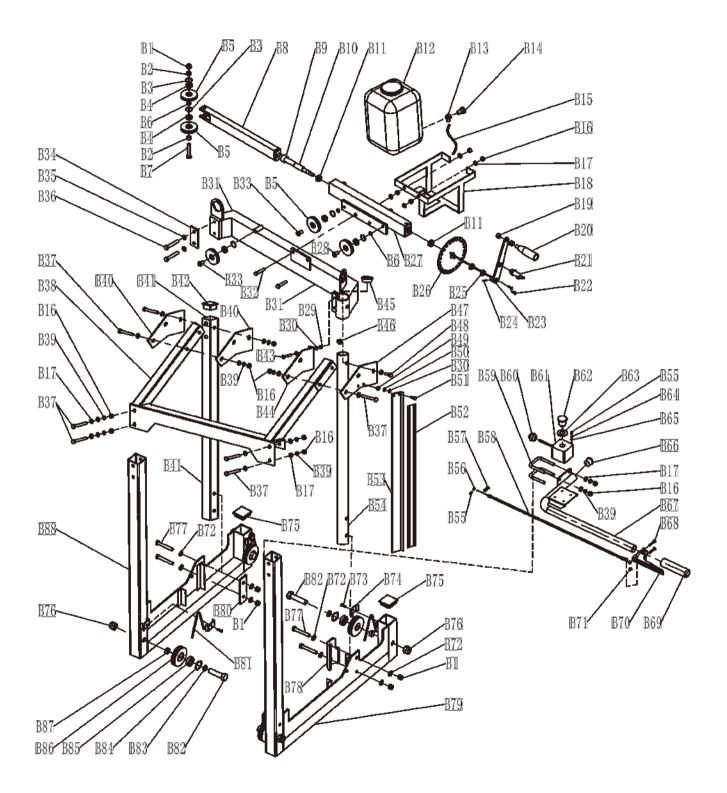
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REF	DESCRIPTION
A59	Hexagon nut M
A60	7101-150010 height indicator
A61	Lifting wire
A62	Lifting ring
A63	Hexagon flange nut M10
A64	Flat washer 8
A65	Hexagon head bolt M8X16
A66	Hexagon head bolt M6X25
A67	Tension plate
A68	Hexagon bolt M10X50
A69	Hexagon bolt M12X45
A70	Hexagon nut M12
A71	Hexagon head bolt full thread M12X100
A72	Large washer 12(φ12*35*3.0)
A73	Driving saw wheel shaft
A74	Saw guard hook
A75	Hexagon bolt M10X12
A76	Hexagon socket set screw with concave point M6X12
A77	Aluminum seat
A78	Deep groove ball bearing 6200-2RS
A79	Aluminum Saw Clamp Shaft Seat 2
A80	Hexagon bolt M10 x 35
A81	Hexagon bolt M10X30
A82	Hexagon nut M10
A83	Non metal insert hexagon lock nut M16
A84	Right saw clamp shaft for aluminum seat
A85	One M6 90 degree oil cup
A86	1/4 elbow externally connected(connected to 8.0 gas pipe)
A87	Saw guard plate 1 welding
A88	Left saw clamp shaft
A89	Push rod

REF	DESCRIPTION
A90	Triangular handle M10X40X30
A91	Beam welding
A92	Hexagon nut M16
A93	Hexagon bolt M16X80
A94	Saw guard 2
A95	25 Tube rubber handle
A96	Push-pull handle
A97	Hexagon bolt M10 x 20
A98	Non metal insert hexagon lock nut M12
A99	Hexagon socket head cap screw M6X14
A100	Scale base
A101	Hexagon bolt M12X150 half thread
A102	Welding of tension rod
A103	Welding of tie bar seat
A104	Cushion
A105	Tensioning gasket(φ21*38*4.5)
A106	Thrust ball bearing 51204
A107	Welding of tensioning handle

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DIAGRAM(B)--CARRIAGE



PARTS LIST(B)--CARRIAGE

REF	DESCRIPTION
B1	Hexagon lock nuts with nonmetallic insert M12
B2	Spacer 1
B3	Circlips for holes 28
B4	Bearings 6001RS
B5	Lifting wheel
B6	Spacer 2
B7	Hexagon head bolt M12X65
B8	Telescopic tube 1 welding
B9	Copper nut
B10	Lifting screw
B11	Thrust ball bearings 51102
B12	10 liter bucket
B13	Quick connect CSL8-04
B14	Throttle valve
B15	PU high pressure trachea
B16	Hex nut M10
B17	Flat washer 10
B18	Warter Bucket
B19	Hex nut M12
B20	13 hole handle
B21	Knob plunger
B22	Hexagon head bolt M6X16
B23	Handle welding
B24	Elastic cylindrical pin 5X24
B25	Small round nut M14X1.5
B26	Dial
B27	Telescopic tube 2 welding
B28	Hexagon socket flat head screw M12X20
B29	Hexagon lock nuts with nonmetallic inserts M8

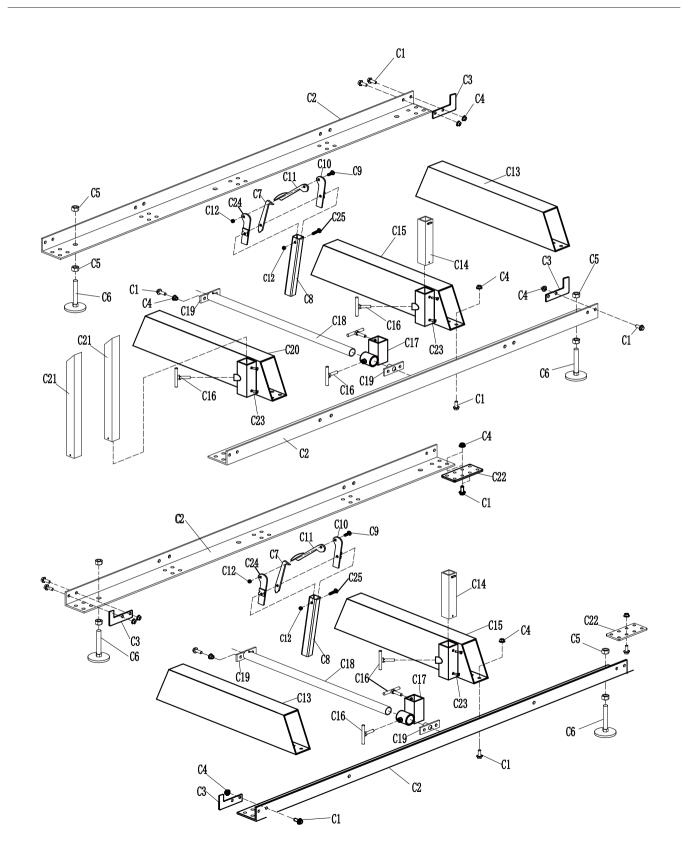
REF	DESCRIPTION
B30	Flat washer 8
B31	Upper beam welding
B32	Hexagon head bolt M10X50
B33	Hexagon socket flat head screw M12X25
B34	Clamping plate
B35	Spring washer 12
B36	Hexagon head bolt M12X70 half wire
B37	Hexagon head bolt M10X80
B38	7203-231000 upper welding parts
B39	Spring washer 10
B40	7203-230010 Connecting board 1
B41	Cubic tube 50
B42	50X50 square pipe plug
B43	Hexagon head bolt M8X40
B44	7203-230010 Connecting board 2
B45	50 round pipe plug
B46	Hexagon lock nut M10
B47	7203-230030 Connecting board 3
B48	Hexagon bolt M10 x 30
B49	Hex nut M8
B50	Spring washer 8
B51	Hexagon head bolt M8X20
B52	Scale
B53	Scale seat
B54	Vertical pipe
B55	Cross recessed pan head screw M4X12
B56	Wire clip
B57	Throttle tension spring
B58	Throttle Cable

REF	DESCRIPTION
B59	U-bolt
B60	M20
B61	Emergency stop switch box
B62	Emergency stop switch
B63	Emergency stop sign
B64	Spring washer 4
B65	Flat washer 4
B66	Round pipe plug
B67	Push handle welding
B68	Hexagon socket head screw M6X35
B69	Handle cover φ32
B70	Throttle handle
B71	Hex nut M6
B72	Flat washer 12
B73	Hexagon head bolt M6X20
B74	Splint 2
B75	60×60 square pipe plug
B76	Hexagon lock nuts with nonmetallic inserts M20
B77	Hexagon head bolt M12X80 half wire
B78	Left Clamping plate
B79	Left bottom wheel frame welding
B80	Right Clamping plate
B81	Wire rope brush
B82	Hexagon head bolt M20X110 half wire
B83	Bottom wheel spacer 1
B84	Circlip for hole 42
B85	Bearings 6004
B86	Bottom wheel
B87	Bottom wheel spacer 2
B88	Right bottom wheel frame welding





DIAGRAM(C)--GUIDE RAIL



PARTS LIST(C)--GUIDE RAIL

REF	DESCRIPTION
C1	Hexagon flange bolts M10*30
C2	Guide rail
C3	Limit plate
C4	Hexagon flange self-locking nuts M10
C5	Hex nut M16
C6	Leveling Feet M16
C7	Hook
C8	Telescopic tube welding
C9	Hexagon socket head screw M10X35
C10	Telescopic left plate welding
C11	Eccentric compression welding
C12	Hexagon lock nut
C13	Two-hole guide rail beam (not welded)
C14	Log suppor
C15	Two-hole guide rail beam welding
C16	T-Screw M10*40
C17	Log clamp receiver
C18	Slide tube
C19	Sliding tube base welding
C20	Four-hole rail beam welding
C21	Log support
C22	Rail connecting plate
C23	Hex Bolts M8*30
C24	Telescopic right plate welding
C25	Half round head square neck



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