

B18HP/B20HP

Firewood Processor Operators Manual



July 2026

**Blockbuster Inc.
800 E. 7th Street
Washington, IA 52353**

OVERVIEW

B18HP

- 22" Max Cut Diameter
- 24' Log Length
- Hydraulic Saw 18H 80cm Harvester Bar
- 5" x 24" Splitting Cylinder w/ 30-Ton Split Force
 - HP version: 2.5 second cycle time
- 8K lb. Axle w/ Trailer Brakes
- User-Friendly Operator's Station with Sliding Window Access

B20HP

- 24" Max Cut Diameter
- 24' Log Length
- Hydraulic Saw 18H 90cm Harvester Bar
- 6" x 24" Splitting Cylinder w/ 40-Ton Split Force
 - HP version: 3.7 second cycle time
- 10K lb. Axle w/ Trailer Brakes
- User-Friendly Operator's Station with Sliding Window Access

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Scan for videos and
additional resources

INTRODUCTION

This manual is an important part of your machine and should always remain with the machine.

Reading and understanding your Blockbuster Operator's Manual will help you and others avoid personal injury or damage to the machine.

The information given in this manual will provide the operator with the safest and most effective use of the machine.

Knowing how to operate this machine safely and correctly will allow you to train others who may operate this machine.

Sections in your operator's manual are laid out in such a way to help you understand all the safety messages and learn the controls so you can operate this machine safely.

This manual contains information about your machine. Please make sure you're referring to the relevant sections that apply specifically to your model.

Measurements in this manual are U.S. customary units, and their metric equivalents are in parenthesis. The RIGHT-HAND side of the machine is the side where the operator controls are located.

Record identification numbers below. Be sure to record all the numbers to help in tracing the machine if it is stolen.

Date of Purchase: _____

Engine Serial Number: _____

Machine Serial Number: _____

MANUFACTURER'S INTENDED PURPOSE OR USE

The B18HP & B20HP firewood processors are designed to cut logs into lengths that can be split into firewood suitable for use in fireplaces and wood burners. Logs ranging in various lengths can be loaded onto the machine using a lift truck or grappling device. Logs of various diameter can be cut. Logs are first cut into desired lengths and are then split into firewood using four, six, eight, twelve, sixteen, or 24--way splitting heads.

The B18HP & B20HP are designed to process logs only and can cope with seasoned or unseasoned hard and softwoods with or without bark. These firewood processors are designed for outside use only, in well-ventilated areas. They can be used in all kinds of weather and temperature.

The machine cannot handle bent logs with overall extremities that are greater than the width of the trough into which they must be loaded. Logs must have clean cut ends for feed mechanisms to get a good register.

The chain saw should be adequately lubricated by adjusting the saw chain oil valve. The attached, hydraulic chain saw uses a state of the art, 18H micro-chisel chain, which was specifically designed for use in most mechanical harvesters. The chain delivers top performance with a minimum amount of maintenance.

Manufacturer's Contact Information:

Blockbuster, Inc.

800 E. 7th St.

P.O. Box 869

Washington, IA 52353

www.blockbuster-inc.com

SAFETY INSTRUCTIONS

Safety Instructions

- Read and understand this Operator's Manual and all labels on the Blockbuster before attempting to start and operate this equipment.
- The Blockbuster was designed to process logs into firewood and should **NEVER** be used for anything other than what it was specifically designed for.
- **DO NOT** cut logs that are outside of the manufacturer's dimensional specifications as listed in the Standard Model Equipment & Specifications.
- For the operator's safety, **DO NOT** remove or modify equipment guards.
- **NEVER** let unauthorized personnel operate the machinery.
- **DO NOT** operate the machinery under the influence of alcohol or drugs.
- **DO NOT let personnel ride on the machinery during transport, regardless of distance.**
- National road traffic regulations for lamps, headlights, rear lights, flashing lights, and reflectors must be followed when the machine is transported.
- The Manufacturer recommends that Blockbuster operation is for daylight hours or is in conjunction with sufficient artificial lighting.
- Blockbuster operation is intended for outside and well-ventilated use only.
- **DO NOT MODIFY THE MACHINE IN ANY WAY. UNAUTHORIZED MODIFICATIONS MAY IMPAIR THE FUNCTION AND/OR SAFETY OF THIS MACHINE AND WILL VOID MANUFACTURER WARRANTY**
- **NEVER** leave any piece of machinery unattended while running.

Safety Protection

- **Safe distance for observers is a minimum of 50 feet (15.24m) from the work area.**
- Do not wear loose, torn, or bulky clothing around this machine. Clothing could catch on to the machine and result in personal injury.
- **Ensure EYE PROTECTION, EAR PROTECTION, and PROPER FOOT PROTECTION are worn when operating the Blockbuster.**

SAFETY INSTRUCTIONS

Safe Handling & Fire Prevention

- Always be careful and never hurry while operating a piece of machinery.
- WARNING – It is not recommended to run the engine in an enclosed area. Work should be performed outside in a well-ventilated area. Engine exhaust can be very harmful if allowed to accumulate.
- Be aware of any leaks of flammable fluids to avoid a fire .
- To prevent a fire, do not expose any dry, dusty material, oil or other combustible to the muffler or exhaust. Always keep the engine and muffler clean.
- Ensure all flammable fluids and liquids are stored away from the engine.
- Always shut off the machine before refueling or lubricating.
- Refuel in well-ventilated areas. Wipe up any spilled fuel or lubricants prior to operation.
- Do not mix gasoline or alcohol with diesel fuel. This mixture can cause a fire and costly fuel system damage.
- Do not smoke or allow flames or sparks in the work area.
- Escaping hydraulic fluid which is under pressure has sufficient force to penetrate skin causing serious personal injury. Always use caution when working with fluids under pressure.
- Be cautious of the saw dust created and its potential to ignite as it may have oil in it.
- Be sure that sawdust is regularly moved away from the machine and not allowed to accumulate on the machine to avoid risk of fire. Have a plan to keep the machine and areas around it clean of any and all flammable materials.

STANDARD SAFETY SIGNS

Read and recognize all standard signs. Be alert to the potential for personal injury with each of these signs. There are several safety signs located on your Blockbuster. Keep all safety signs clean and visible. Contact the Blockbuster parts department if any warning signs need replacement.

The manufacturer stresses that the new owner review all safety signs prior to the operation of their piece of equipment. The identification and acknowledgement of these signs will assist in the prevention of serious injury or death of the operator or any bystanders.



STANDARD SAFETY SIGNS



STANDARD SAFETY SIGNS

HYDRAULIC OIL

ATF/DEXRON III

DANGER

**BEFORE SERVICING
SHUT OFF MACHINE**



CAUTION

**KEEP HANDS
CLEAR**

CAUTION HOT

DIESEL FUEL
LOW SULFUR OR ULTRA LOW SULFUR FUEL ONLY

TRANSPORTING THE PROCESSOR

Prior to towing the processor:

- Make sure trailer ball coupling mechanism is operational and in good working condition.
- The B18HP & B20HP both utilize a standard 2 5/16" ball hitch.
- Check lugnut torque after the first 50 miles and periodically thereafter.
- Trailer tow chains are in good condition and hooked properly to the towing vehicle.
- The tires are in good condition and inflated to the specifications listed on the tire.
- Trailer brakes are hooked up and operational.
- Running lights are operational and in working conditions. (See page 11 for instructions)
- All items are securely stored and fastened to the machine.
 - Toolbox lid is latched
 - Keys are removed from the ignition and properly stored.
 - The operator's seat is securely pinned.
 - Deck legs are properly stowed and secured
 - The operator's cab and/or sliding access window are locked.
 - Last piece slide tray is fully retracted. (If equipped)
 - The attached elevator is properly secured with safety strap. (If equipped)
 - Extra splitting wedge is securely pinned. (If equipped)

Items to know regarding transporting the processor:

- THIS MACHINE SHOULD NEVER BE LIFTED
- This machinery is equipped with an axle and hitch and is meant to be towed, not lifted.
- The leveling and stiff legs and jacks are also used as tongue jacks for connecting and disconnecting from a towing vehicle.
- The towing vehicle used should be classified to meet or exceed the vehicle weight and tongue weight of the specific piece of equipment being towed.
- National road traffic regulations for lamps, headlights, rear lights, flashing lights, and reflectors must be followed when the machine is transported.

TRANSPORTING THE PROCESSOR

- Each Blockbuster Firewood Processor may come with a Magnetic LED Wireless Towing Light Kit or wired, magnetic running lights. This kit or set of lights is stored in the toolbox of each new processor.
- **Magnetic LED Wireless Towing Light Kit Operating Instructions**
 - Connect the transmitter to the four-pin connector that is located on the firewood processor, **(see below photo)** making sure that the transmitter is secured to the body or chassis of the processor.
 - Attach the lights to the processor so that they are visible to other motorists. Use the included lanyards to fasten the lights to the processor.
 - Press the Power button at the top of each light TWICE to turn it on. Each light will flash briefly when turned on and the LED battery level indicator will be illuminated.
 - The Towing Light Kit is now ready for use. It will automatically illuminate when running lamps, brake pedal, or turn signals in the towing vehicle are used.
 - Test each vehicle's function before towing, making sure that tow lights respond properly.
 - Lights should be fastened to the machine so that they are visible to other motorists on the roadway.



4-Pin connector for wireless transmitter
(Front of machine on inside of hitch)



4-Pin connector for wired lights (Rear of machine under auxiliary hydraulic ports)

- **Wired LED Towing Lights**
 - Wired LED Towing lights can be plugged directly into the 4-pin connector. It is located underneath the auxiliary hydraulic ports near the operator's station.
 - Test each vehicle's function before towing, making sure that tow lights respond properly.
 - Lights should be fastened to the machine so that they are visible to other motorists on the roadway.

OPERATING

Machine Set-Up & Stability:

- It is important to keep the Blockbuster as stable as possible when setting up for operation. The machine should be placed on a level area, and the use of the stiff legs will assist in making the machine fully stable. The Blockbuster is not designed to operate on hills, slopes, or any unstable ground.
- If your model is equipped with handles on the log support, these should be utilized to ensure an excellent grip is maintained for the operator's safety while setting up the equipment.

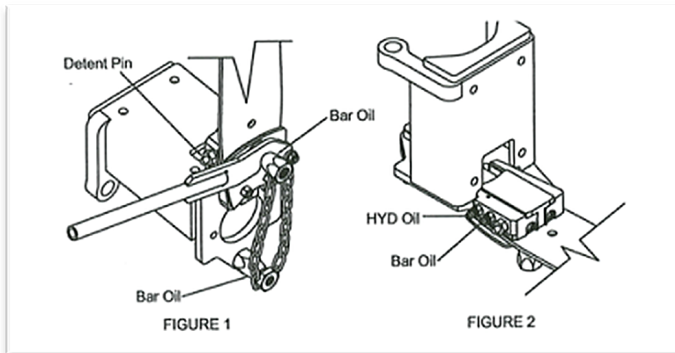
Prior To Operation:

- Ensure your Blockbuster is positioned on level ground and in a well-ventilated area.
- Unhook the equipment from the towing hitch.
- Crank the stabilizing leg into place. Manually lower the opposite stabilizing leg so the equipment is level.
- Deploy the 2nd stabilizer leg on models equipped with the 8' hydraulic folding deck and all B20HP models.
- Depending on log deck option, unpin the log deck strands and manually unfold or hydraulically unfold.
- Unpin the operators window and ensure it slides freely.
- Operator(s) should make sure hydraulic components are safe and secure for operation, and no fluid leaks are present.
- Check all fluids:
 - Engine oil
 - Engine Coolant
 - Hydraulic Fluid
- Ensure all guards and other protective equipment are in place and secure including the saw bar guard and the polycarbonate display window.
- Clear the work area of objects that might be hazardous to the operation.
- With the machine turned off, inspect that the chain is in good visible condition and properly tensioned.
- All hydraulic lever handles are tensioned properly and function accordingly.
- Contact Blockbuster with any operation's questions.
- Keep the machine's engine idling for at least 5 minutes:
 - Before running at operating speeds
 - Before shutting off the engine.
 - Be aware that colder temperatures can affect the amount of idling time needed for warming and cooling.

OPERATING AUTO TENSION

Auto Tension Bar & Chain (If Equipped):

- Always ensure the machine is off, and the ignition key is removed from the ignition when performing any adjustments to the bar or chain.
- **TO PREVENT DAMAGE, ALWAYS ENSURE THAT THE SAW BAR IS INSTALLED WHEN THE HYDRAULIC LINE IS HOOKED UP.**
- Insert saw bar fully with mount in vertical position. Ensure the sprocket is in line with the saw bar.
- Place the retract tool on the upper chain catcher and over lower chain catcher. Retract tensioner and push detent pin as shown in figure 1.
- Install chain. Retract tensioner with the tool and the detent will automatically retract. Release pressure on the tool and remove.
- Attach hoses, bar oil outside fitting, and inside fitting. See figure 2.
- **DO NOT TIGHTEN OR LOOSEN THE BOLTS FOR THE SAW CHAIN CATCHER AT ANYTIME**



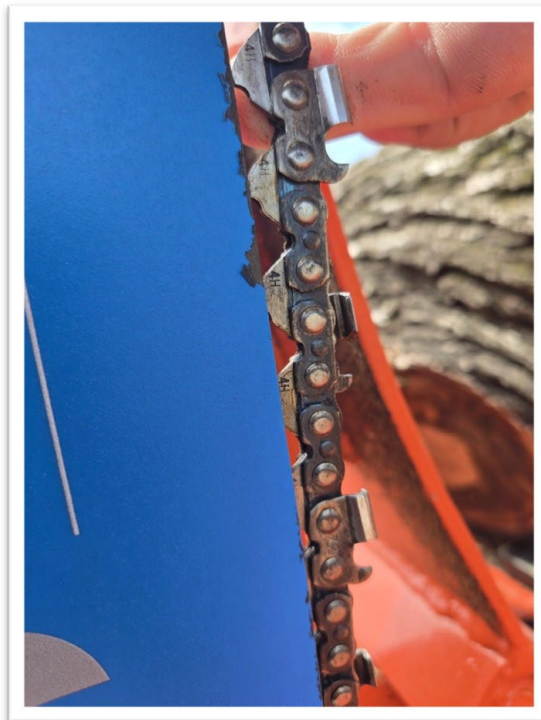
OPERATING (SAW)

Hydraulic Saw Operation:

The 18H, state of the art chain, has an aggressive, Micro-Chisel cutter with .050" (1.27mm) depth gauge setting, extra-thick .080"- gauge drive links, more chassis material below the rivet holes on cutters and tie straps, more material in the drive link tang. This chain has maximum performance and maximum durability.

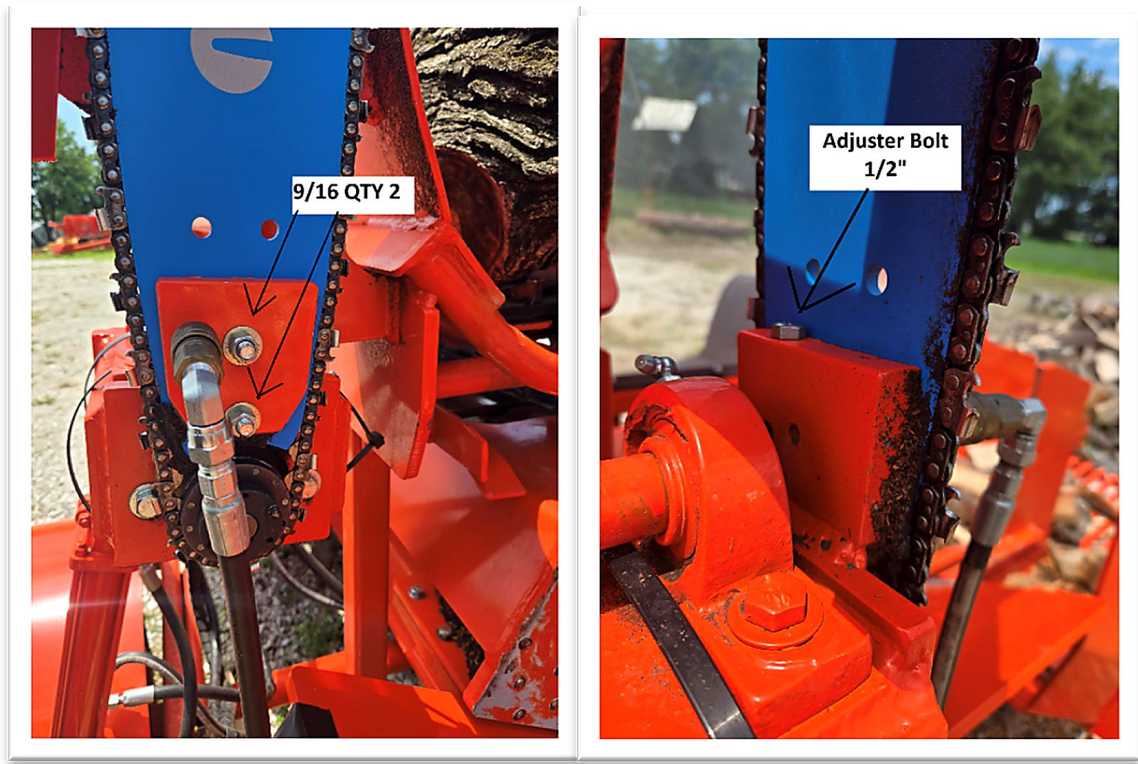
Tensioning Of Chain: (Non-Auto-Tension Models Only)

- Chain tension should be checked routinely. Always shut the machine off and wear gloves while checking chain tension.
- To check tension, lift the chain at the center of the bar. Ensure the drive links are not fully exposed and a small amount of the drive link stays within the bar groove.



- To tighten the chain, loosen both nuts on the bar using a 9/16" wrench. Using a 1/2" wrench, tight the adjuster nut by turning it clockwise. Once the chain is at the desired tension, tighten the 9/16" hex nuts on the bar.
- To loosen the chain, follow the same steps as above, but turn the adjustment nut counterclockwise. Once the chain is at the desired tension, tighten the 9/16" hex nuts on the bar.

OPERATING (SAW)



Chain Break In:

- It is critical that the chain is broken in properly.
Manufacturer recommends the chain be lubricated prior to use.
- If necessary, the chain tension should be adjusted after the first several minutes of use.

Sharpening Of Chain:

1. Clean all oil and grease from chain.
2. Inspect the chain for the following:
 - Proper installation of tie straps and drive links.
 - Cracked or broken cutters, cutter top plates, or tie straps.
 - Bent, cracked, or burred drive links.
 - Abnormal chain wear
 - Wear patterns on the chain that may indicate a worn bar or sprocket.
 - Any loose rivets.

OPERATING (SAW)

Sharpening Of Chain:

3. Use the sharpening specifications of the Micro-Chisel chain listed below:
 - Chain Type – 18H
 - Gauge - .080"
 - Pitch - .404"
 - 7/32" Round File
 - 3/16" Grinding Wheel
 - 7/32" Assembled File Guide
 - .050" Depth Gauge
 - Depth Gauge File
4. After sharpening the chain, adjust the depth gauge to the number stamped on each chain and file off the top of the depth gauges as required.
5. When complete, blow any particles off then rinse in solvent or diesel oil.
6. Heavily lubricate chain prior to use.

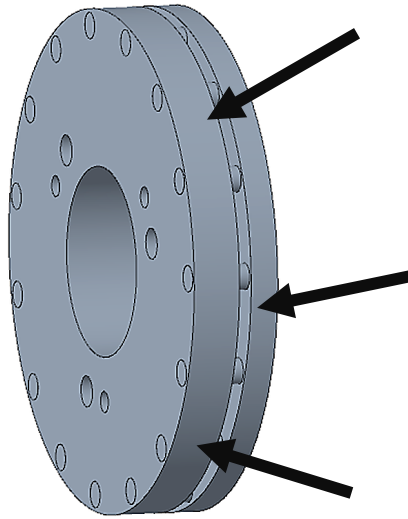
Guide-Bar Maintenance:

1. Check for a loose chain before and during use. Adequately tensioned chains will prolong bar and chain longevity.
2. Clean bar groove daily when being used for extended periods.
3. On a periodic basis do the following:
 - Clean oil holes.
 - Check bar groove and chain for straightness.
 - Keep the rail clean and operational.
4. Flip the bar regularly for more wear and maximum longevity of the bar.
5. Dress the rails routinely with a bar dresser or file to square up the edges and remove any burs.
6. Bar should be replaced if any of the following indicators are determined
 - Excessive chain wobble is indicated by being able to move a chain side-to-side in the groove.
 - Shallow groove depth is determined when the chain's drive links start to scrape the bottom of the bar's channel.
 - Warping or bending is easily indicated by laying the bar on a flat surface. If the bar rocks or has visible gaps underneath, it is bent and needs replaced immediately.

OPERATING (SAW)

Drive Sprocket Inspection:

A heavily worn drive sprocket, no matter which type, can cause problems with the saw bar. When you change the Harvester chain, inspect the sprocket and replace if necessary. Replace the drive sprocket when the worn surface is more than .3mm. Inspect and replace dowel pins if they are loose or missing. The Harvester chain will be damaged instantly if a worn drive sprocket is used.



Bar Dressing Procedure:

Dressing may be necessary at routine intervals to maintain performance and prolong the life of the bar and chain.

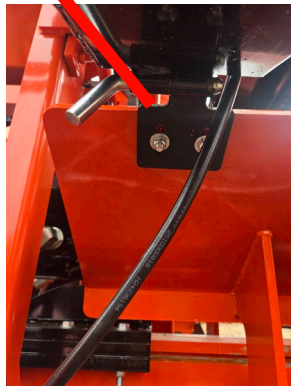
- Clean the bar groove: Use a groove cleaner to remove any sawdust, dirt or debris from the bar groove. This is crucial for proper lubrication and chain movement.
- File the bar rails: Use a flat file or dressing tool with a guide to keep the file at a 90-degree angle to the bar. File the top rails to remove any burrs and bring them back to a flat, even surface. The goal is to make sure the top of the rails are level and the entire top surface is smooth.
- Check and clean the oil hole: Ensure the oil hole on the bar is not clogged. If it is, clean it out as lack of lubrication will damage the bar and chain.

OPERATING (SAWDUST CHUTE)

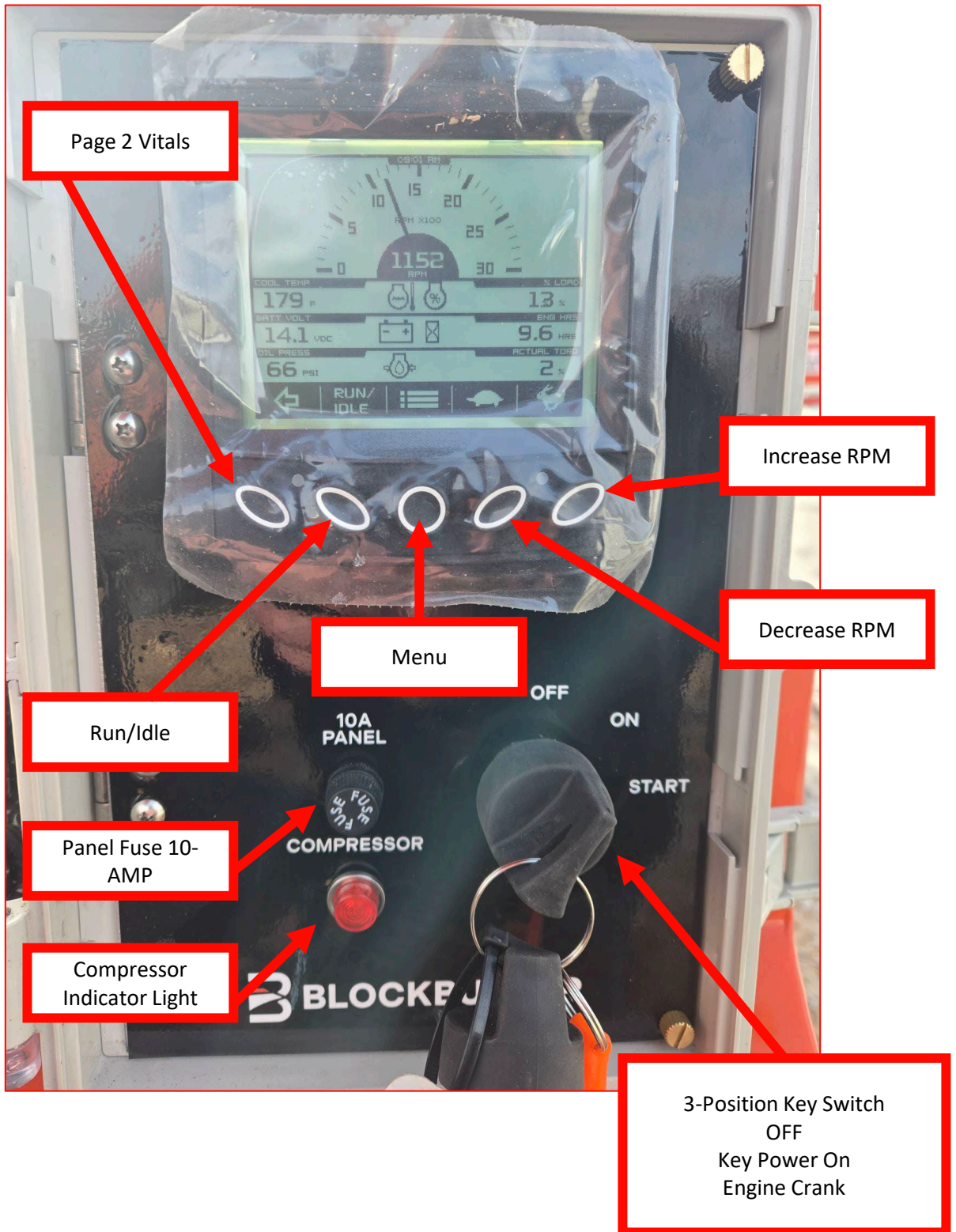
Sawdust Chute Adjustment:

The sawdust chute can be adjusted to assist with getting accumulated sawdust farther away or as close to the machine as desired. **Caution: Be sure that sawdust is regularly moved away from the machine and not allowed to accumulate on the machine to avoid risk of fire.**

The sawdust chute also pivots and can be folded down for immediate access for removal and adjustment of the bar and/or chain.



OPERATING (CONTROL PANEL)



OPERATING (CONTROL PANEL) CONTINUED

CONTROL PANEL OPERATION

- **3-Position Key Switch** – To start engine, turn key to “ON” position and wait until Preheating prompt on LED screen has gone away. Turn key to “START” to start engine.
 - Auxiliary functions such as the winch and operator’s lights will not operate unless key is turned to “ON”.
- **Run/Idle** – Used to simply run the machine up to operating RPM from an idle or to return to idle from operating RPM.
 - Upon machine startup the machine will “low idle”. Press the Run/Idle button once and it will go to normal idle. Once at normal idle, the machine will not go to low idle unless engine is shut off and started back up.
- **Increase RPM** – Press to slightly increase idle speed or hold button to increase idle speed.
- **Decrease RPM** - Press to slightly decrease idle speed or hold button to decrease idle speed.
- **Panel Fuse 10-AMP** – location of 10 AMP fuse for panel.
- **Compressor Indicator Light** – Light will illuminate when compressor is operating. Light should rarely illuminate. If light continues to stay on or keeps cycling on the air system should be checked for leaks. If light is on and compressor is not operating, inspect wiring and compressor relay.
- **Menu** – Button press will navigate to Menu page.
- **Page 2 Vitals** – Button press will display a different page and set of vital engine information.

OPERATING (LEVER OPERATION; OPERATOR STATION LAYOUT)



Splitter Valve

Auxiliary Valve Bank

Main Valve Bank

Control Panel

OPERATING (LEVER OPERATION; MAIN VALVE BANK)



Clamp/Saw: Push down on handle to activate log clamp. Once pressure is created saw motor will turn on and proceed to cut. Keep lever held down through entire cut. Once cut is complete, release lever and saw will return to its "home" position. Raise lever to release log clamp before advancing log.

Log trough: Push lever down to advance log towards the saw. Raise lever to reverse operation, if needed.

Log Deck: Push lever down to advance logs on the live deck towards the log trough. Raise lever to reverse direction. (Note: Do not operate Log Deck function unless the deck is completely out of transport mode and operating configuration.)

Slide Table: If equipped with Last Piece Slide Table, press lever down to retract table towards operator, raise lever to extend table away from operator.

OPERATING (LEVER OPERATION; AUXILIARY VALVE BANK)



Splitting Head: Lift lever to raise splitter head, lower lever to lower splitter head.

Elevator Pivot/Elevator Raise/Lower: Pivots attached elevator side to side. If not configured with attached elevator, it acts as the raise lower for a detached elevator.

Elevator FWD/REVERSE: Lift lever to operate elevator conveyor in the forward motion. Lower lever to reverse conveyor direction. (Elevator is not designed to run in reverse constantly, only for short instances to remove debris or alleviate a jammed/stuck elevator)

Deck Raise/Lower: If equipped with hydraulic folding deck, this lever will raise and lower the hydraulic live deck.

Elevator Up/Down: This switch operates the electric winch. Key power must be on to operate. Press up to retract winch; down to extend winch cable.

OPERATING (LEVER OPERATION; SPLITTER VALVE)



Split Boost: Press button to turn on Split Boost. When Split Boost is turned on the splitting cylinder will perform at nearly 2 times its normal operating speed. Pressing the button again or opening the sliding door will disengage split boost. (If door is open, split boost light indicator may still be illuminated, but the function will be inactive.)

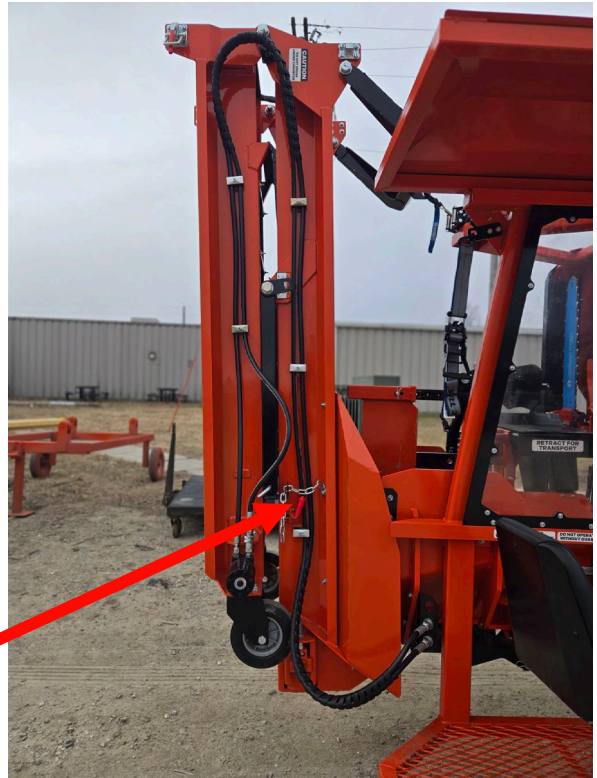
Splitter Handle: Pull to extend splitter. Splitter should automatically return to “retracted” position. If excess force is required to split a log, the splitter handle will need to be held back through the completion of the split.

OPERATING (ATTACHED ELEVATOR) ELEVATOR DEPLOYMENT

1. Remove Tow Safety Strap and store in toolbox when not in use.



2. Uncouple the latch that holds the upper leg of the elevator



OPERATING (ATTACHED ELEVATOR) ELEVATOR DEPLOYMENT



3. Proceed to lower the elevator until the guide wheels contact the ground. Once the wheels contact the ground, you may have to pull gently on the elevator to get it to go over center as shown.



4. Lower the elevator all the way to the ground until it lies flat.

OPERATING (ATTACHED ELEVATOR) ELEVATOR DEPLOYMENT



5. Couple both mechanical latches.

6. Raise elevator to desired height. Uncouple the elevator stand and set legs to desired height. Lower the elevator so that the elevator stand supports the weight of the elevator. Be sure to raise the elevator before pivoting the elevator side to side. Always store the elevator in the tow position before transporting any distance or damage may occur.
Note: Winch cable is not intended for transport support. Please use included ratchet tie-down device for securing elevator for transport



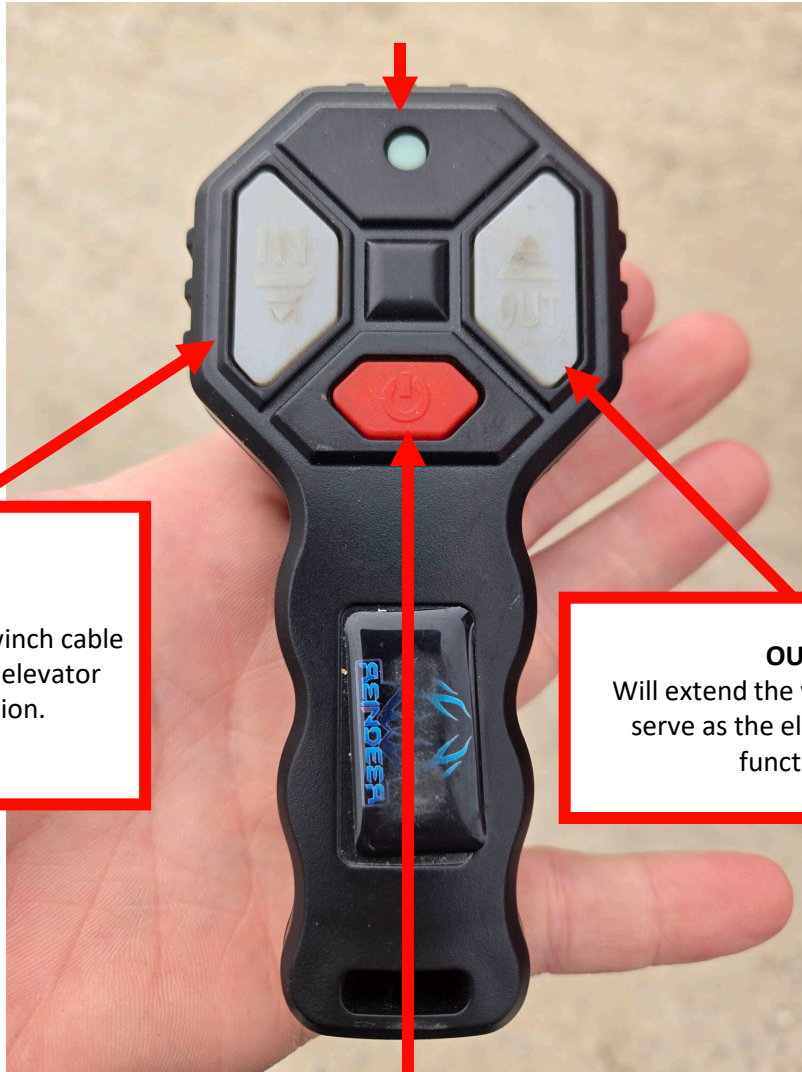
OPERATING (ATTACHED ELEVATOR) ELEVATOR FOLD-UP

To fold the attached elevator back up, repeat the deployment steps in the reverse order.

1. Pivot elevator so that is aligned and completely centered with the processor.
2. Raise elevator slightly to remove the weight off of the elevator stand.
3. Lift elevator stand legs and pin them up in the highest position.
4. Fold the elevator stand up against the elevator and secure it with the attached chains to keep it from falling.
5. Lower elevator all the way to the ground.
6. Uncouple both mechanical latches.
7. Raise elevator all the way up until the elevator is visually straight up and down.
8. Install and tighten tow safety strap.
9. Latch the outer elevator to the inner elevator to prevent it from moving during transport.

OPERATING (WINCH)

LED Indicator Light
Green = Remote Active



IN

Will retract the winch cable
or serve as the elevator
raise function.

OUT

Will extend the winch cable or
serve as the elevator lower
function.

POWER BUTTON

Press & hold 3 seconds to turn the remote "ON".
LED Indicator Light should turn green when
powered on. Remote will automatically power off
after 5 minutes of no use. KEY SWITCH POWER
MUST BE ON FOR REMOTE TO FUNCTION

MAINTENANCE

Hydraulic Pressure Settings

Always Use Caution When Operating Equipment

Pressure settings are pre-set at the factory and should require NO adjusting. Resetting pressures on a properly working processor could result in improper operation. Contact Blockbuster for any issues pertaining to pressure settings. Make sure the engine IS NOT running when making any adjustment. The hydraulic cylinders have a pressure-controlled by-pass. The hydraulic pressurized hoses have been designed in a way that moving parts cannot crush or pinch them.

All functions should be checked with engine at full operating RPM.

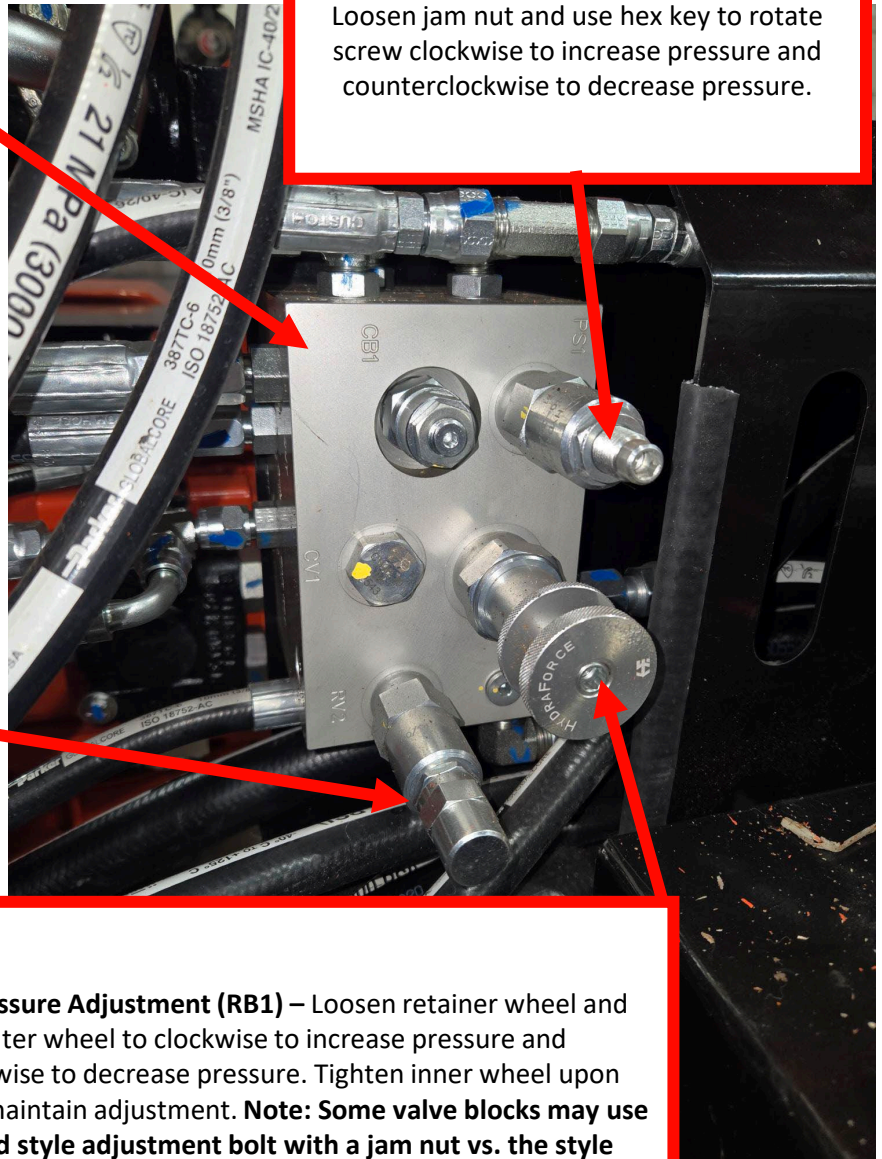
Function	When To Check	Gauge Range	Desired Pressure
Saw Motor Pressure	Handle down; While actively Cutting	0 - 3,000 PSI	500 – 2,300 PSI (If chain sticks and causes motor to stall, pressure should be at 2,300 psi.)
Saw Cylinder Pivot Pressure	Handle down; While actively cutting	0 – 600 PSI	210 (+/- 20) PSI
Splitting Cylinder Pressure	Splitting lever held down with splitter fully extended	0 - 3,000 PSI	2,700 (+/- 100) PSI
Clamp Pressure	Handle down; While actively cutting	0 - 3,000 PSI	800 – 900 PSI W/O Auto Saw Tensioner 1,200 – 1,300 PSI w/ Auto Saw Tensioner
Air Tank Pressure	Gauge is located on top of the air tank and can be checked at anytime.	0-300psi	145 (+/- 10) PSI

MAINTENANCE

Hydraulic Pressure Settings



Saw Clamp Pressure Adjustment (PS1) – Loosen jam nut and use hex key to rotate screw clockwise to increase pressure and counterclockwise to decrease pressure.

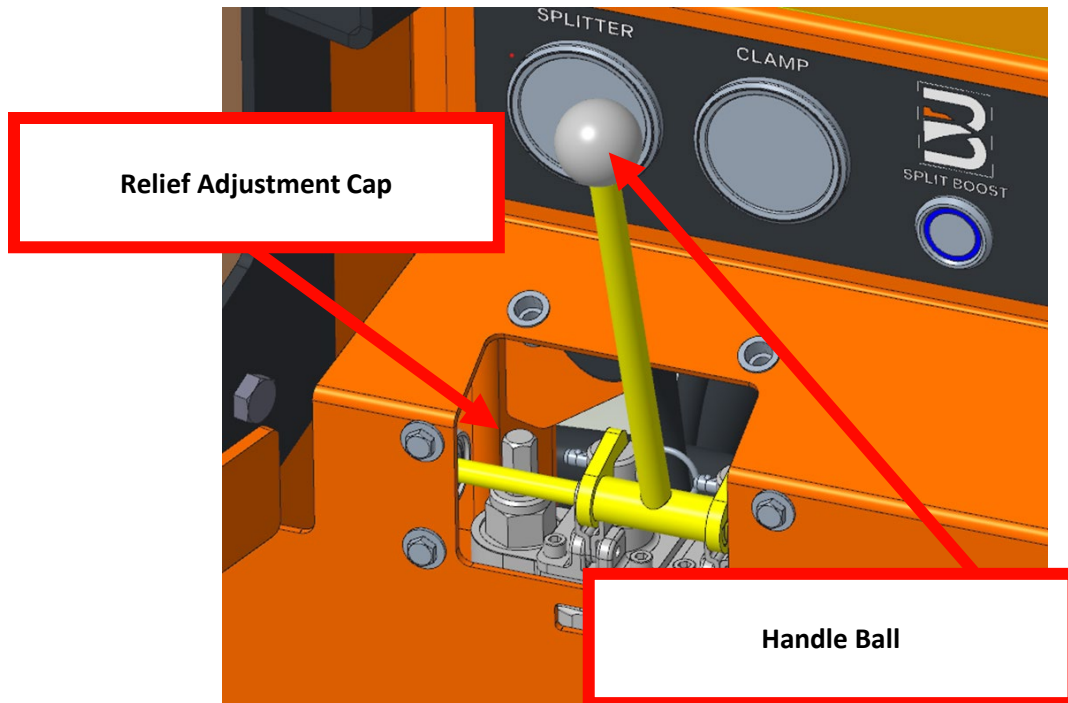


Relief Valve (RV2) – DO NOT ADJUST

Saw Pivot Pressure Adjustment (RB1) – Loosen retainer wheel and rotate outer wheel to clockwise to increase pressure and counterclockwise to decrease pressure. Tighten inner wheel upon completion to maintain adjustment. **Note: Some valve blocks may use an Allen head style adjustment bolt with a jam nut vs. the style shown in the picture.**

MAINTENANCE

Splitter Valve Adjustment

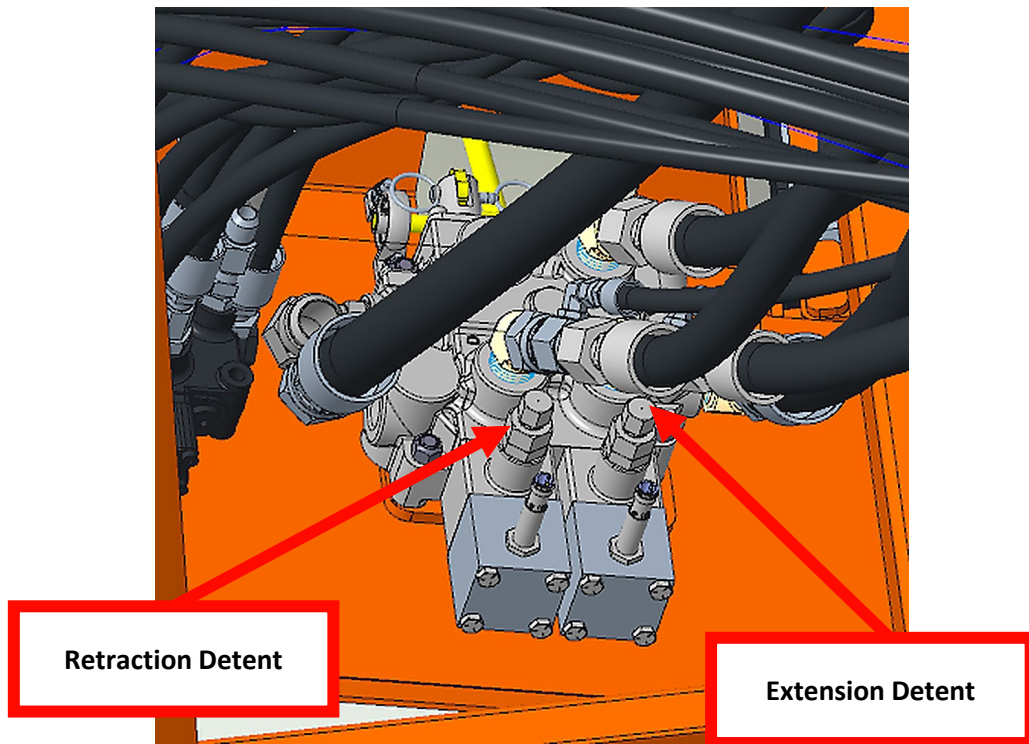


Setting Main Splitter Valve Pressure Relief

1. Oil should be at normal operating temperature.
2. Remove handle ball, cover plate, and relief adjustment cap.
3. Turn Off Split Boost.
4. Set engine speed to full throttle.
5. Pull and hold splitter handle while watching the "Splitter" pressure gauge, let the cylinder extend fully and observe the pressure reading. (Cylinder should be "dead heading" while obtaining this pressure reading.
6. Adjust the relief accordingly to achieve 2,700 (+/- 100psi)
 1. Rotating hex screw clockwise will increase pressure.
 2. Rotating hex screw counterclockwise will decrease pressure

MAINTENANCE

Extension Detent Adjustment



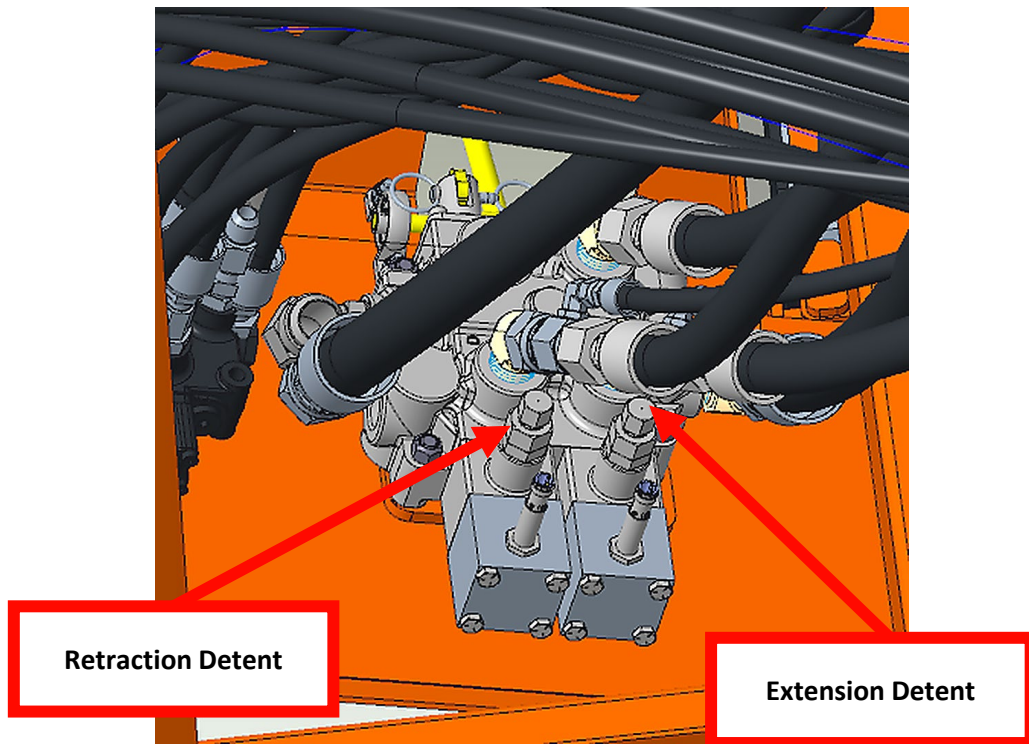
Setting Extension Detent Pressure

1. Oil should be at normal operating temperature.
2. Loosen the 7/8" jam nut, the adjustment hex is 5/8".
3. Set engine speed to full throttle.
4. Enable Split Boost.
5. Turn the extension detent clockwise until desired kickout pressure is achieved.
 1. NOTE: If setting is too high, the retraction detent will also kick out at the same time or neither will kick out at relief pressure.
6. The extension detent is now set. Hold the 5/8" adjustment hex steady and tighten the jam nut.

If extension detent pressure is set too high, the valve will not kick out of detent at the end of the splitting cylinder stroke. If the extension detent pressure is set too low, it will easily kick out of detent while splitting logs.

MAINTENANCE

Retraction Detent Adjustment



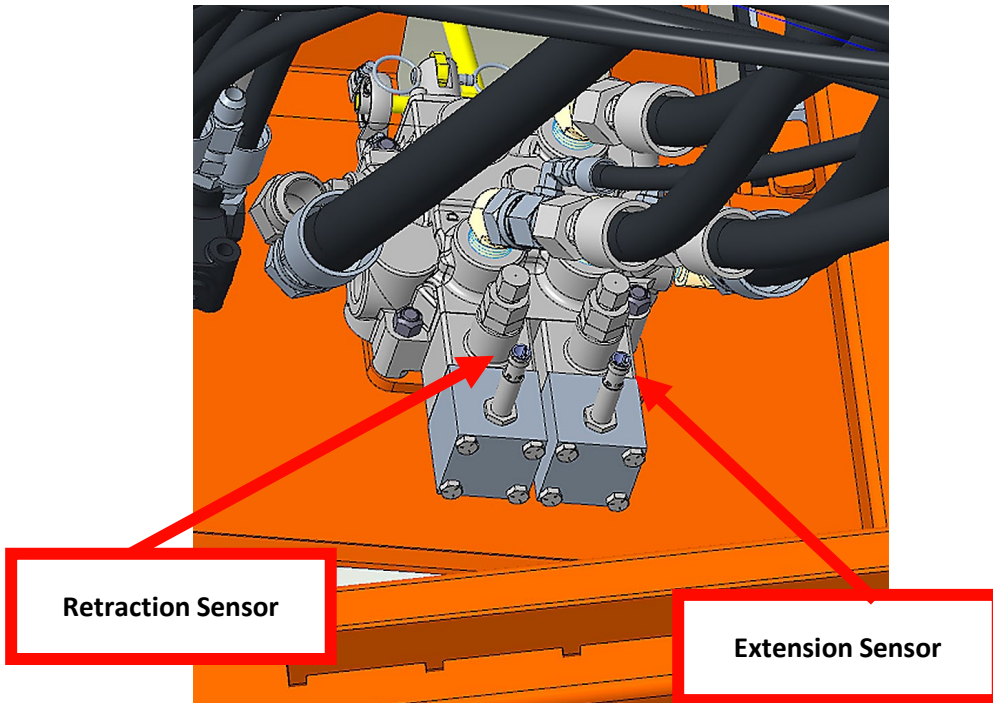
Setting Retraction Detent Pressure

1. Oil should be at normal operating temperature.
2. Loosen the 7/8" jam nut, the adjustment hex is 5/8".
3. Turn the Extension Detent counterclockwise to reduce it's setting. (Be careful not to fully unthread the adjustment)
4. Set engine speed to full throttle.
5. Enable Split Boost.
6. Turn the retraction detent clockwise until the spool does not kick out when the cylinder fully retracts.
7. Now turn the retraction detent counterclockwise until the spool reliably kicks out once the cylinder is retracted.
8. The retraction detent is now set. Hold the 5/8" adjustment hex steady and tighten the jam nut.

If retraction detent pressure is set too high, the valve will not kick out of detent at the end of the splitting cylinder stroke. If the extension detent pressure is set too low, it will easily kick out of detent on the return stroke.

MAINTENANCE

Splitting Valve Sensor Adjustment



Proximity Sensor Adjustment

Note: Proximity sensors should never require adjustment unless a sensor has been removed or replaced.

1. Ensure the splitting valve spool is in the neutral position
2. Thread sensor in the block by hand until it touches the spring assembly.
3. Turn sensor counterclockwise 1 full rotation and tighten jam nut.

Proximity Sensor Operation

1. The extension sensor contains an LED light at the end of the sensor that should illuminate anytime the splitting cylinder is extending.
2. The retraction sensor contains an LED light at the end of the sensor that should illuminate anytime the splitting cylinder is extending or retracting.

MAINTENANCE

Routine Service Intervals

Daily (every 8 hours)

- Check all fluid levels
 - Engine Fuel Level (No bio-diesel or soy blends permitted; Fuel should follow ASTM D975 Grade 2-D S15 specs)
 - Engine Oil (10W-30 or 10W-40: With Diesel Spec)
 - Engine Coolant Level (Peak Final Charge; Global)
 - Hydraulic Fluid (ATF/Dexron III/Mercon Specs)
- Check condition of saw chain and ensure proper tension.
- Inspect the bar saw for any defects and to ensure it is straight.
- Check for proper tension of infeed conveyor chain and live deck chains. Adjust if needed.
- Check for proper tension of attached elevator chain. The elevator chain should be loose with the adjustment of the bearings set at the least amount of tension. (If Equipped)
- Inspect wedge(s) for any damage or cracked welds.
- Drain Air Tank (End of Day)
- **Lubricate the following: (Reference next page for grease zerk locations)**
 - Infeed conveyor chain bearings (2 zerks rear; 1 zerk front)
 - Live deck chain bearings (3 zerks)
 - Saw pivot jackshaft (2 zerks)
 - Log Clamp (1 zerk)
 - Attached elevator; If equipped (5 zerks)

Break In (After first 50 hours of operation)

- Change engine oil and filter
- Replace hydraulic filter

Periodically (every 250 hours)

- Replace hydraulic oil filter
- Lubricate the tongue jack(s) (1 zerk each)

Annually or every 500 hours

- Change engine oil and replace engine oil filter
- Replace engine fuel filters
 - Fill new filter with fuel before installing and pump bleeder until the plunger becomes hard to press.
- Inspect engine air filter (clean or replace)
- Inspect wheel hubs (Re-pack with grease if needed)
- Inspect engine fan and alternator belts (replace if needed)
- Cooling fan belt (Inspect annually and replace every 3,000 engine hours)

MAINTENANCE

GREASE ZERK LOCATIONS



Deck Shaft (Qty 3)
Every 8 hours
(Only 1 shown)



Deck Idler (Qty 3)
Every 8 hours
8' Deck Only
(Only 1 shown)



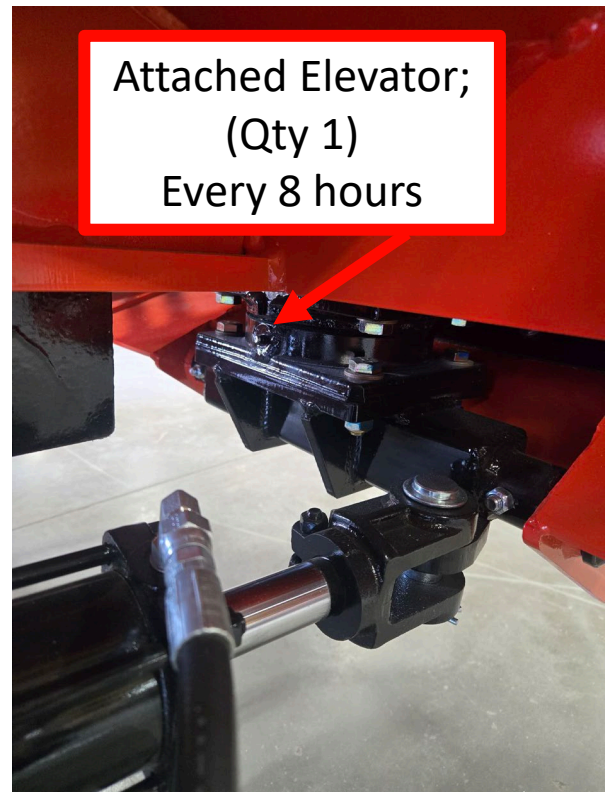
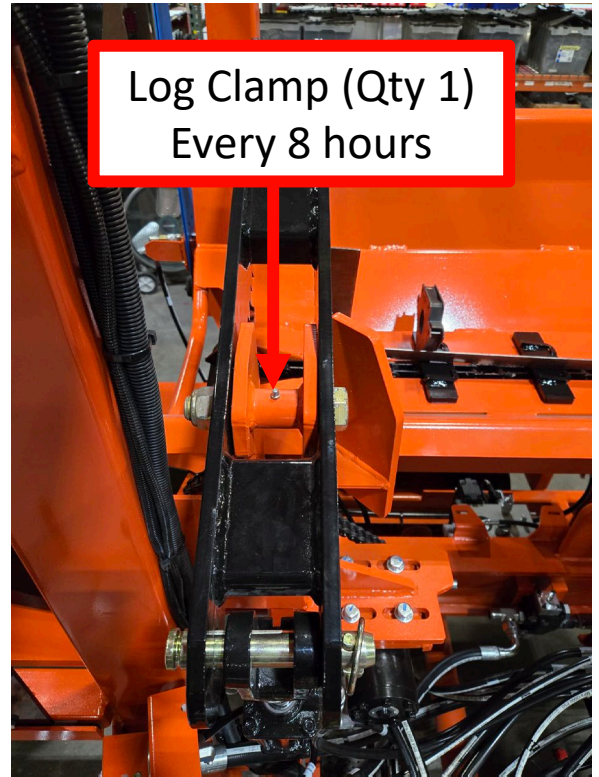
Infeed Trough Idler
Sprocket (Qty 1)
Every 8 hours



Infeed Trough (Qty 2)
Every 8 hours

MAINTENANCE

GREASE ZERK LOCATIONS



MAINTENANCE

TRAILER TIRES/AXLES



- Regularly inspect tires for wear, checking, and tire pressure.
- Inflating or servicing tires can be dangerous. Whenever possible, trained personnel should be called to service and/or mount tires
- Re-Torque lugnuts after 50 miles of wheel installation.
- Wheel bearings should be greased annually when processor is routinely pulled at highway speeds. (B18HP Only - B20HP uses gear oil lubrication, see table below)

Model	B18HP	B20HP
Tire Size	235/85R16	235/75R17.5
Max Speed	75 MPH	75 MPH
Inflation Pressure	110 PSI	125 PSI
Lug Torque Spec	110 lbs. 8-Bolt	140 lbs. 10-Bolt
Wheel Hub Lubrication Type	High Temp Wheel Grease	SAE 80W-90 Gear Oil
Load Range	14-PLY	16-PLY

TROUBLESHOOTING

If you are experiencing a problem with your Blockbuster that is not listed or resolved from this chart, please contact the manufacturer.

Oil should be at normal operating temperatures when checking pressures or before making any adjustments. If oil is cold, or not at normal operating temperature, certain functions may not operate correctly.

UNLESS NECESSARY, NEVER MAKE ANY ADJUSTMENTS OR DO ANY TROUBLESHOOTING STEPS WHILE THE ENGINE IS RUNNING.

IF	CHECK
Issues pertaining to Engine	1. Refer to engine manual
Engine not cranking	1. Check for dead battery 2. Check for loose battery connections 3. Blown Fuse 4. Bad Relay
Engine turns over slow/struggle to turn over.	1. Ensure that splitting valve is in neutral position. 2. Ensure that elevator on/off valve is in neutral position.
Reason for Dead Battery	1. Check the breakaway switch for the electric brakes to ensure it is not removed. 2. Key left in run position or Accessory position. 3. Alternator is not charging battery.
Chain on Log Trough or Log Deck Not Moving	1. Check all sprockets, set screws , and keyways to make sure they are tight and in place. 2. Make sure the roller chain is in place and properly tensioned. 3. Check to ensure the hydraulics are working properly.
Hydraulic Chain Saw Not Lowering	1. Make sure the engine is running at the suggested operating speed. (Full engine RPM will yield the best results.) 2. Saw Clamp pressure is set incorrectly. 3. Ensure the hydraulic pressure setting is correct for saw pivot function. 4. With engine shut off, remove the cylinder pin and make sure the saw pivots up and down freely with no obstructions or binding.)
Saw Bar Pivot Cylinder Won't Retract	1. Inadequate air pressure 2. Saw bar cylinder requires new seal kit

TROUBLESHOOTING

If you are experiencing a problem with your Blockbuster that is not listed or resolved from this chart, please contact the manufacturer.

UNLESS NECESSARY, NEVER MAKE ANY ADJUSTMENTS OR DO ANY TROUBLESHOOTING STEPS WHILE THE ENGINE IS RUNNING.

IF	CHECK
Hydraulic Chain Saw Not Raising	1. Check for proper amount of air pressure. Air tank pressure should be between 110 and 145psi. 2. With engine shut off and all air bled from the compressor tank, remove the cylinder pin and make sure the saw pivots up and down freely with no obstructions or binding.)
Chain Saw will Not Cut Through Log	1. Check chain for dullness or damage. 2. Check chain for proper, balanced sharpening. 3. Check to ensure the rails on the saw bar are not worn. 4. Check to ensure the saw bar is not bent. 5. Insufficient bar oil. 6. Check to make sure saw chain is not installed backwards. 7. Ensure proper saw pivot pressure
Chain Stops While Cutting Log	1. Ensure the saw pivot hydraulic pressure setting is correct. 2. Check chain tension. 3. Insufficient bar oil. 4. Check to ensure the saw bar is not bent. 5. Saw motor pressure is low. 6. Low air pressure.
Chain On Saw Will Not Move	1. Check for proper Saw Motor Pressure. 2. Missing/Severed key stock on saw motor shaft
Chain Keeps Derailing Off The Bar	1. Inadequate Chain Tension 2. Saw Sprocket is Not Aligned With the Bar 3. Log Clamp Pressure is Too Low (Auto Tension Only)

TROUBLESHOOTING

If you are experiencing a problem with your Blockbuster that is not listed or resolved from this chart, please contact the manufacturer.

UNLESS NECESSARY, NEVER MAKE ANY ADJUSTMENTS OR DO ANY TROUBLESHOOTING STEPS WHILE THE ENGINE IS RUNNING.

IF	CHECK
Burned Paint or Bluish Discoloration on Guide-Bar Rail	1. Check to make sure the chain is properly lubricated. 2. Check to ensure the saw pivot down pressure is not too high. Check the chain's sharpness. 3. Check guide bar for possible replacement.
Splitter Head Will Not Adjust	1. Make sure the engine is running at the suggested operating speed. (Full engine RPM will yield the best results.) 2. Ensure splitter head moves freely and is free of all foreign material.
Splitting Cylinder Does Not Return	1. Retract Detent needs decreased 2. Extend or retract sensors out of adjustment. 3. Extend or retract sensors plugged in backwards.
Splitting Cylinder Returns But Does Not Kick Out Of Detent	1. Detent on return needs decreased. 2. Extend or retract sensors out of adjustment. 3. Extend or retract sensors plugged in backwards.
Splitting cylinder is slow to retract	1. Mechanical Binding of push plate weldment 2. MSL Valve requires inspection - Inspect for broken or worn spring - Unscrewed Screw Stop - Swollen Quad Rings

TROUBLESHOOTING

If you are experiencing a problem with your Blockbuster that is not listed or resolved from this chart, please contact the manufacturer.

UNLESS NECESSARY, NEVER MAKE ANY ADJUSTMENTS OR DO ANY TROUBLESHOOTING STEPS WHILE THE ENGINE IS RUNNING.

IF	CHECK
Splitting Cylinder Does Not Extend	1. Extend or retract detent out of adjustment. 2. Extend or retract sensors out of adjustment. 3. Extend or retract sensors plugged in backwards.
Splitting Cylinder Extends But Does Not Kick Out of Detent	1. Extend Detent Pressure Needs Decreased. 2. Extend or retract sensors out of adjustment. 3. Extend or retract sensors plugged in backwards.
Splitting Cylinder Extends But Keeps Kicking Out of Detent	1. Extend Detent Pressure Needs Increased.
Bar Stuck In Cut	1. SHUT OFF ENGINE – Use Block of wood to push bar up (DO NOT USE YOUR HAND; BACK PRESSURE WILL ALLOW MOTOR TO ROTATE WHEN FREED) 2. Check bar for rail wear and cutting crooked.
Split Boost will not function	1. Split Boost is not turned on. 2. Operator station door is not shut. 3. Proximity sensor above operator door is out of adjustment. 4. Faulty switch
Hydraulic Fluid Overheating (Should Never exceed 180° F)	1. 12V Cooling Fan is not operating 2. Oil Level is Low 3. Hydraulic Filter needs replaced

TROUBLESHOOTING MSL VALVE

MSL Valve Inspection and Troubleshooting:

On the B18HP & B20HP, the MSL valve allows oil to shift and return back to tank without flowing back through the retract valve body. If the splitting cylinder is slow to retract or will not retract, inspect the MSL valve for the following items.

1. Remove the bottom cap of the MSL valve. It should contain 4 bolts with Allen heads. (3/16" Allen head)
2. Upon removal, there should be a spring installed. Ensure the spring has good tension and is not rusty or damaged.
3. Ensure the screw stop is threaded into the MSL plunger valve all the way. If loose, remove, install Loctite, and tighten. Note: the screwstop does not have a hex head cap or Allen head to tighten, you must use a pair of vise grips.

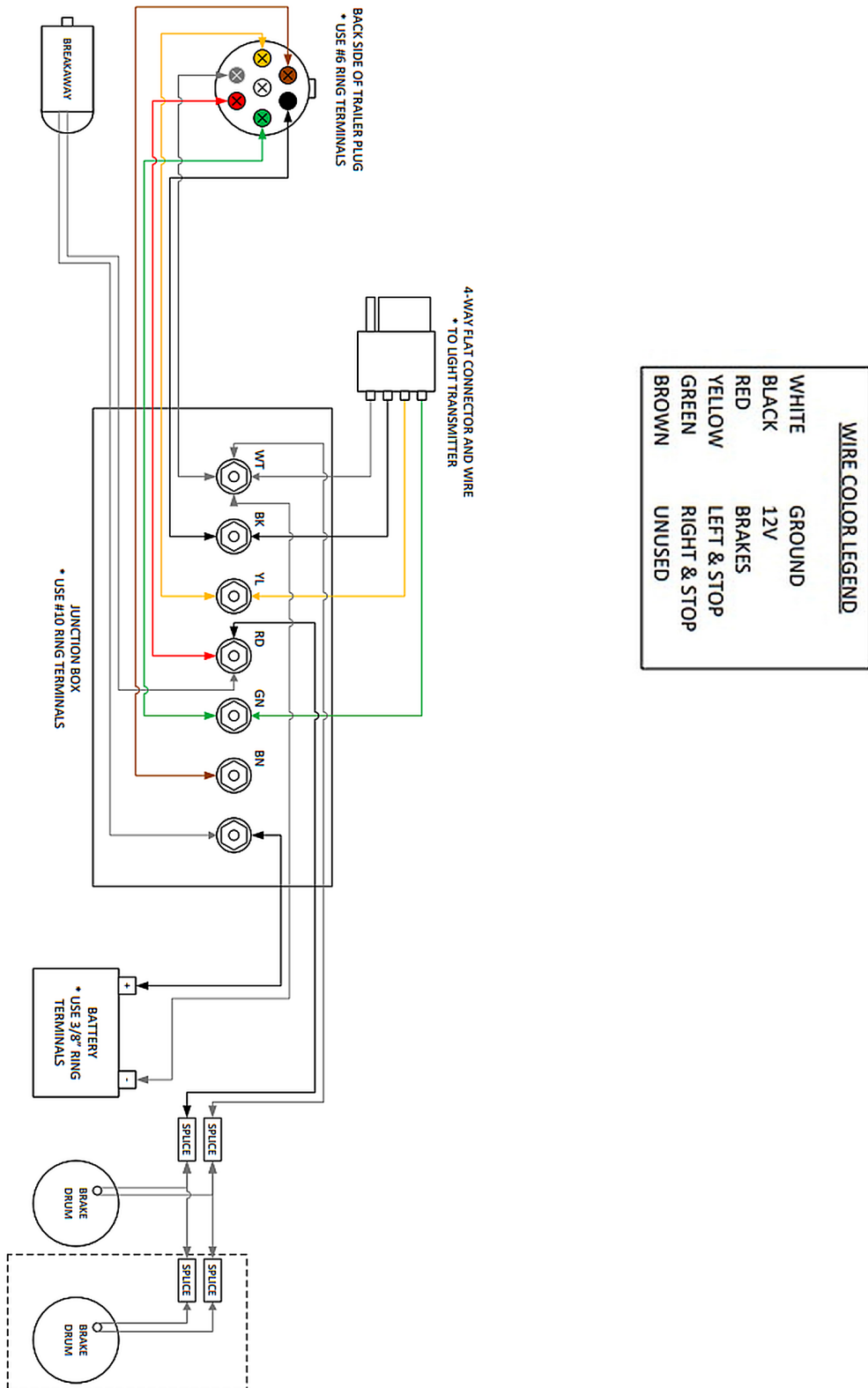
MSL Valve Location



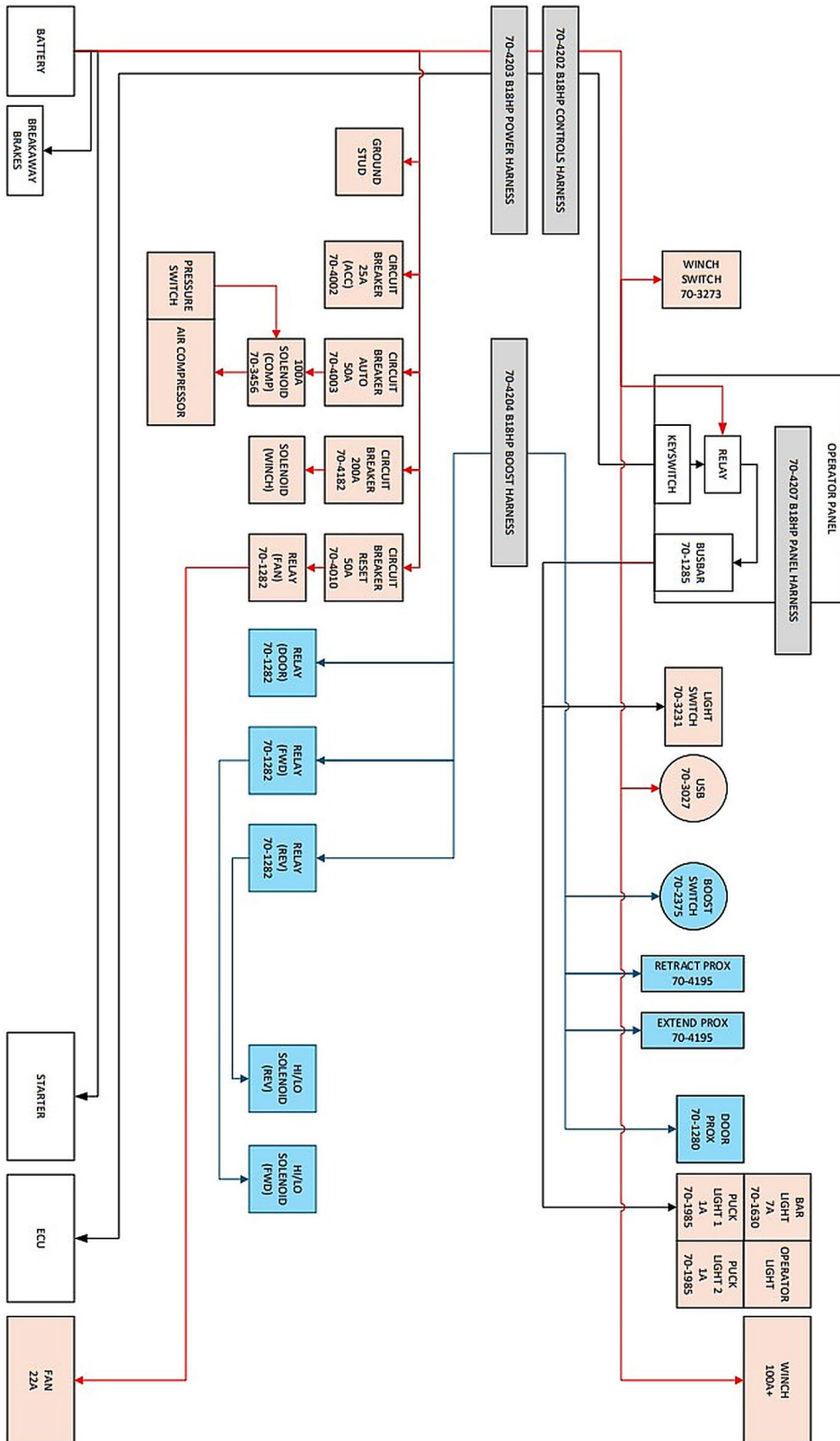
Screwstop



TROUBLESHOOTING TRAILER WIRING DIAGRAM



TROUBLESHOOTING WIRING DIAGRAM



WARRANTY

BLOCKBUSTER WARRANTY POLICY

This warranty document contains the sole explanation of any and all warranty coverage and is subject to the provisions expressed below.

Customer Responsibility

It is the customer's responsibility to maintain the equipment in accordance with the instructions provided in the operator's manual.

If a failure in the product occurs, it is the customer's responsibility to cease operation until the proper repairs have taken place. *Damage which occurs from the continued operation after a failure may not be covered by warranty.*

Limited Warranty Coverage

New manufactured equipment comes standard with a 1-year limited warranty, beginning at the date the equipment was invoiced to the original purchaser. We guarantee the manufactured product to be free of material defects or workmanship issues.

In the event a failure occurs during normal operational use, Blockbuster will replace, repair, or credit the product or part at our discretion.

Blockbuster has the right to inspect the customer's equipment or request additional information to determine if a defect in materials or workmanship exists.

Certain products sold by Blockbuster are covered under the original manufacturer's warranty. This includes diesel and gasoline engines.

We do not guarantee our products to meet local municipal, state, or national laws or regulations.

WARRANTY

BLOCKBUSTER WARRANTY POLICY

This warranty does not cover used equipment or failures caused by:

- Accidents
- Alterations or modifications
- Abusive operation
- Improper repairs
- Misuse or neglected maintenance
- Use beyond original design intention (as specified in the Operator's Manual)
- Unapproved attachments or accessories
- Natural wear and tear

Contact Blockbuster to begin the warranty process. **To be considered for approval, claims on equipment must be submitted within 30 days of the date the issue occurred.**

If you need replacement parts to repair the failure, Blockbuster will ship them out as soon as possible via Ground Delivery. (If an alternate method of shipping is requested by customer, they will be subject to full cost of shipping method.) After parts have shipped, you will receive an invoice with 60-day terms. *

If Blockbuster informs you that parts need to be returned as part of your warranty evaluation, a Return Material Authorization** (RMA) will be sent to you, and you will have 30 days to return the items.

Upon receipt of the failed replacement parts, a warranty evaluation will be performed to determine a disposition. If approved, a credit will be issued in full.

Blockbuster will send your approval or denial via email for your records.

Continued on next page

WARRANTY

BLOCKBUSTER WARRANTY POLICY

*We understand that evaluation, especially when involving a third party, may exceed past 60 days. However, if the claim is in process and the items were returned by the expected return date on the RMA, no finance charges will be assessed.

*This change is only applicable to warranty orders that require parts to be shipped when warranty coverage is not approved, or the problem is not easily identified. Manufactured products containing material defects or workmanship issues, or instances where Blockbuster is undeniably at fault for the problem, will continue to be processed with no additional charges.

**Issuance of RMA does not guarantee credit or approval of warranty coverage.