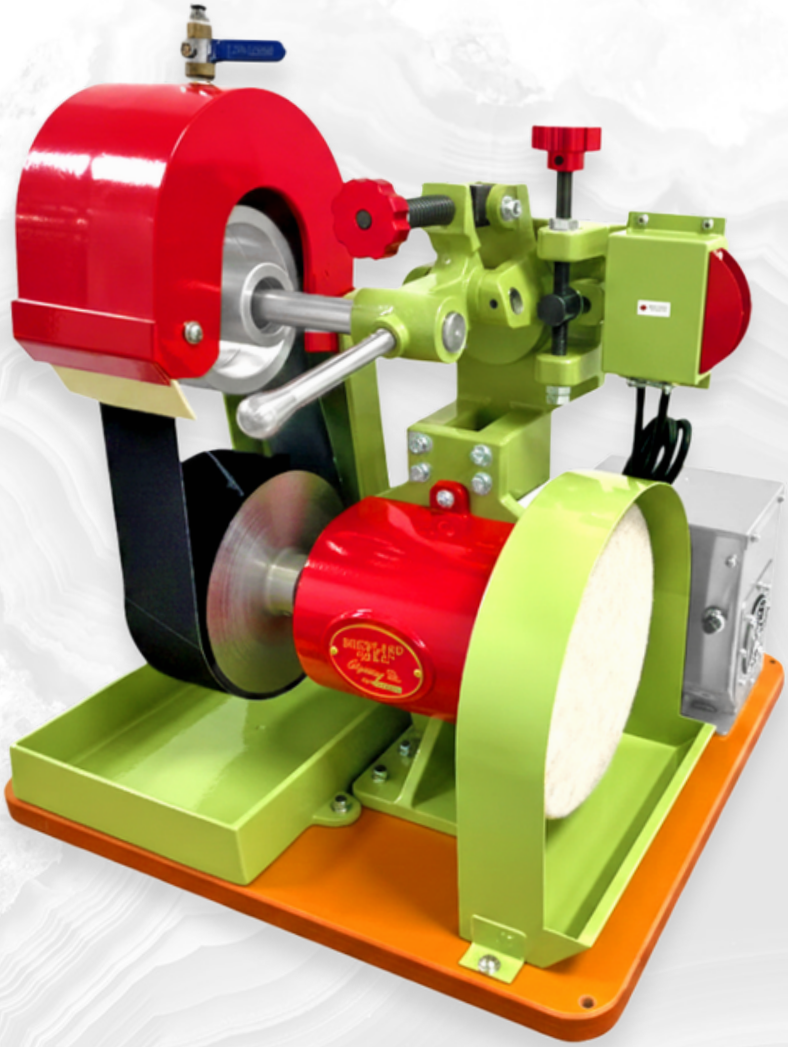
Owner's Manual and Operating Instructions

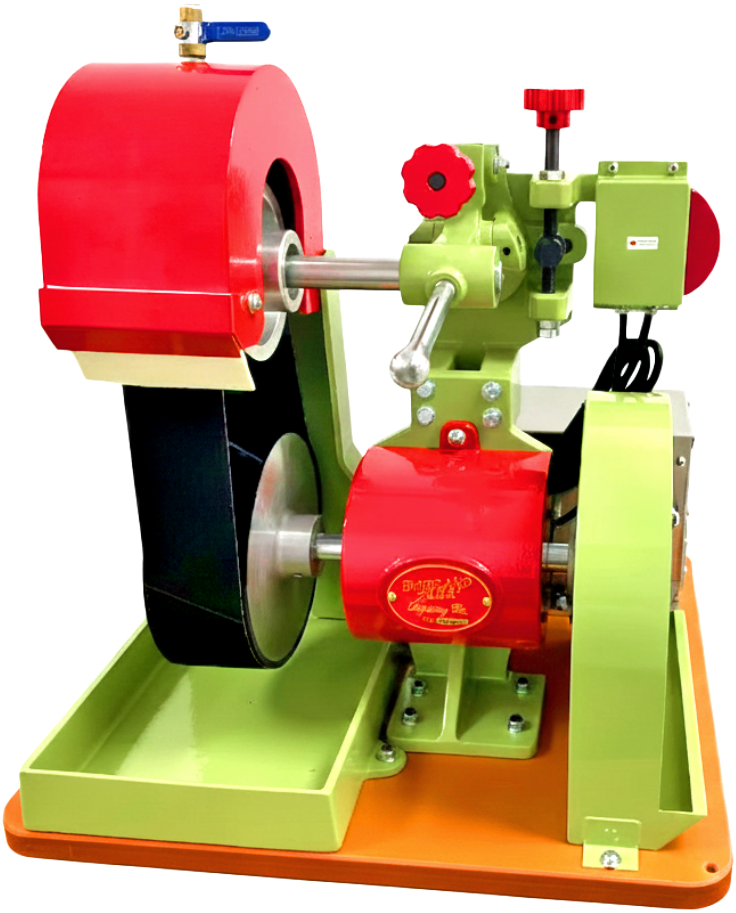
HIGHLAND PARK Lapidary Co.™

MODEL WBSV

Variable Speed Wet Belt Sander



Caution: **Read** and **Understand** all Safety and Operating Instructions before using this equipment



Introduction

The beautifully engineered Highland Park Lapidary WBSV Variable Speed Wet Belt Sander Machine is a versatile and effective machine for making cabochons, knives, domed specimens, flat specimens and a number of other creations. With its unique belt tension and tracking mechanisms, changing belts is simple and fast. The Model WBSV was built with the lapidarist in mind, designed to give comfort, high performance, and convenience to the user.

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Safety Precautions

Used incorrectly, all electrical equipment carries some risk. To eliminate danger to either yourself or the machine, please read and follow all safety, operating and maintenance instructions! Failure to *read, understand and follow* these instructions could result in injury or death to you or others, or result in damage and/or reduced equipment life.

EYE PROTECTION

Safety glasses should always be worn when operating this machine. Regular eyeglasses do not provide proper protection and may not prevent eye injury.

HEARING PROTECTION

To reduce the possibility of hearing loss, always use hearing protection when operating this machine.

PROTECT YOUR LUNGS

An NIOSH certified respirator for dust dust (OV/R95) or equivalent should always be worn when running the machine, because rock dust can be hazardous to your health. While water on the wheels does reduce dust, dust particles can be carried in the mist coming off the wheels. This particle-filled mist can also be inhaled into the lungs, which is why we recommend always using a respirator when operating the cabbing machine.

WARNING: *Some materials contain minerals or metals that can be more toxic. For instance, metallic ores may contain some toxic materials, so before grinding and polishing any unfamiliar material, make certain that it will not produce toxic fumes or dust. Extra protection may be necessary for more toxic materials.*

AVOID LOOSE CLOTHING AND HAIR

Do not wear loose clothing, gloves, neckties, rings, bracelets or other jewelry that may be caught in moving parts. Wear protective hair covering to contain long hair. Non-slip footwear is also recommended.

DO NOT OPERATE MACHINE WITH GUARDS REMOVED

To prevent injury, never operate the machine without the guards in place.

CONNECTING AND DISCONNECTING POWER

- **DISCONNECTING** The machine should always be disconnected (unplugged) before servicing.
- **CONNECTING - REDUCE THE RISK OF UNINTENTIONAL STARTS** Make sure the ON/OFF switch is in the OFF position before plugging in the machine.

ELECTRICAL SAFETY

GFCI - When connecting this machine to power always use a GFCI (Ground Fault Circuit Interrupter). Because the

belt sander uses water for lubrication, the GFCI will prevent risk of electrical shock.

Never touch electrical wires or motor components while the motor is running. Exposed, frayed or worn electrical wiring and plugs can be sources of electrical shock that could cause severe injury or burns.

- If an extension cord is used, it must not be longer than 12 feet and must be at least 14-gauge wire with a ground.
- Use this tool only with the proper power source 120V 60 Hz.
- If the wiring becomes damaged or frayed, replace it immediately.
- Do not allow water to come in contact with electrical components, and do not connect or disconnect the power with wet hands.
- Disconnect the power before servicing the machine or changing the wheels

ROTATING OR MOVING PARTS

Keep hands, feet, hair, and clothing away from all moving parts to prevent injury. Never operate the motor with covers, shrouds or guards removed.

KEEP WORK AREA CLEAN

- Cluttered work areas invite accidents. **Keep your work area clean and organized.**
- **DO NOT USE IN DANGEROUS OR HAZARDOUS ENVIRONMENTS** Do not operate equipment in dangerous or hazardous environments. Do not use power tools in damp or wet locations nor expose them to rain. Always keep the work area well lighteVd. Always work in a well-ventilated area.
- **KEEP CHILDREN AWAY** All visitors and children should be kept at a safe distance from the work area.

WORK METHOD

- **DO NOT PRESS TOO HARD AGAINST THE Belt:** Your machine will do a better job, and the belts will last longer, if you use the appropriate degree of pressure against them. Pressing too hard can damage the belts.
- **USE THE RIGHT TOOLS TO SERVICE THE WET BELT SANDER MACHINE:** Do not force a tool or an attachment when servicing or operating this power tool. Use the correct tools for service or adjustments.
- **DO NOT OVERREACH:** Keep proper footing and balance at all times by not overreaching.
- **DO NOT OPERATE A TOOL WHEN TIRED:** When tired, take a break and relax.
- **NEVER LEAVE A TOOL RUNNING UNATTENDED – TURN POWER OFF:** Always turn the tool off when leaving the work area or when work is finished.
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MAINTAINING THE MACHINE

- **CHECK FOR DAMAGED OR WORN PARTS** Before using the machine, check for damaged parts or wires. A guard or any other part that is damaged or worn should be replaced. Regularly check moving parts for proper alignment or binding.
- **USE RECOMMENDED ACCESSORIES AND PARTS** Consult the owner's manual for recommended accessories and parts. Using improper parts and accessories may increase the risk of personal and/or bystander injury.

Specifications

Model	WBSV
Machine Weight	138 lbs
Motor Horsepower	1/2HP
Supply Voltage 110 volt / 60 Hz / Single phase	110V/60Hz/ Single Phase
Motor RPM	1725 RPM
Arbor Shaft	1 inch
Main Wheel Size	8” (203 mm) diameter
Sanding Belt Size	3” x 41.5”
Polish Wheel Size	10” diameter

MODEL WBS WET BELT SANDER MACHINE SPECIFICATIONS

Specifications:

MOTOR: The Model WBSV comes with a heavy duty 1/2 horsepower 0-1725 RPM, Brushless DC motor.

BELT: The WBS uses a V type belt

FRAME: The WBS heavy duty framework is constructed from heavy duty powder coated cast aluminum.

BASE: The Highland Park WBSV Wet Belt Sander Machine is built with a solid phenolic base that is impervious to water and will not warp or degrade like wood bases do.

DRAIN: The drain is positioned in the back of the tray

WATER DELIVERY: The Highland Park WBSV Variable Speed Wet Belt Sander has a drip feed water delivery system. The water feed fitting on the top of the sanding hood accepts 6mm poly tubing. The valve is positioned over the top drum and the felt wiper assists in the dispersion of the water across the face of the belt.

MAIN SHAFT AND BEARINGS: The WBSV Main Shaft is made from precision ground 45 grade steel and is mounted on 2 heavy duty 1” bearings for smooth vibration free operation and long bearing life

Setting Up The Machine

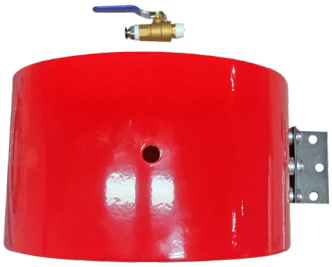
Finding a suitable work space where you can sit or stand in front of the machine, making sure it is on a solid, flat surface. The machine requires a 10-amp circuit; do not plug it in until completely assembled.

Assembling The Machine

The WBSV comes fully assembled, with only the top hood and water supply valve, belt release lever and drain hose requiring installation.

UNPACKING THE MACHINE

Set the machine box on the floor upright. Cut the straps and lift off the lid. Remove the red sanding belt cover from the pocket in the top of the foam and set it aside to install later. Gently pull the large foam block up off the machine, then inspect the machine for any damage that might have occurred in shipping. Next, get someone to help you lift the machine up onto your bench.



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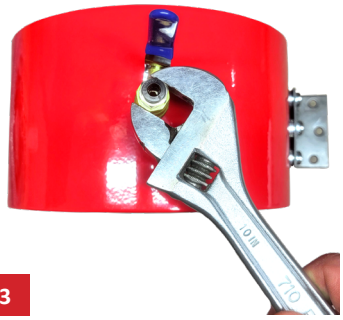

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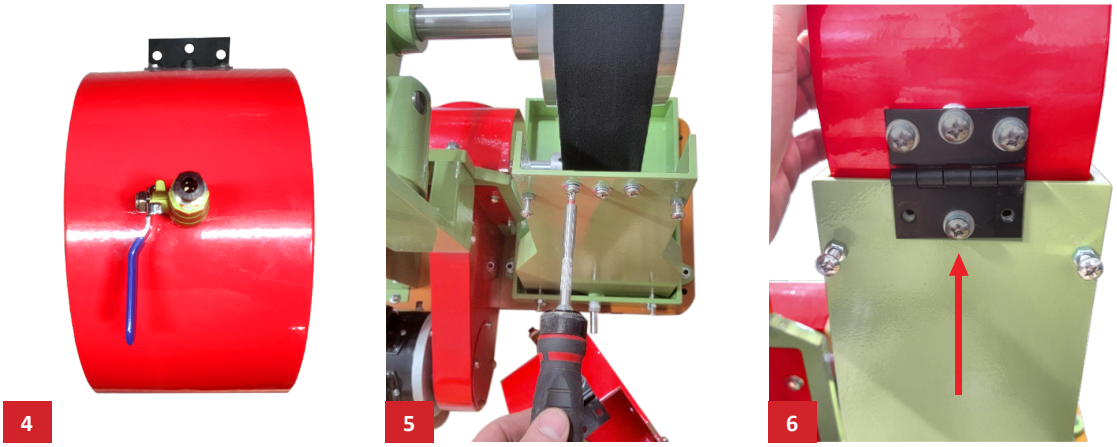
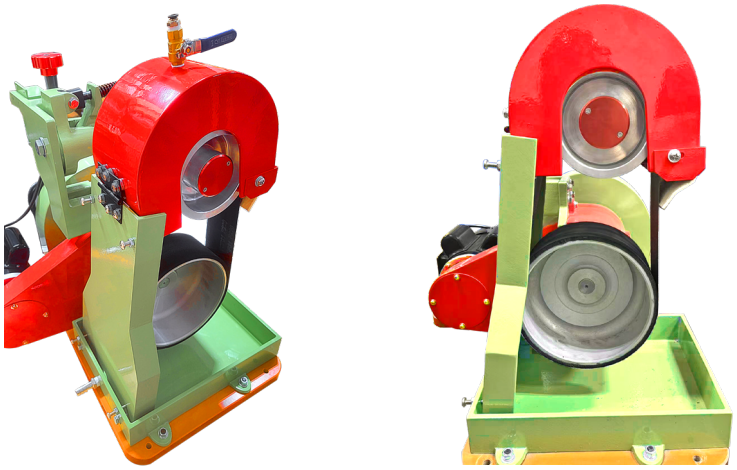
INSTALLING THE TOP HOOD

1. Remove the red top hood assembly from the foam packing
2. If the valve is not installed, then carefully thread the valve into the red hood.
3. Tighten the valve in the red hood so the valve handle is in a convenient position. (Do not overtighten as this can damage the threads in the hood.)



4. Note the recommended position
5. Remove the 3 provided screws from the back cover of the machine.
6. Put a lock washer, then a flat washer and then insert the screw through the hinge, then align the hinge with the holes on the lower back cover and put each screw in finger tight until all three screws are inserted.

7. Using a Phillips head screwdriver, tighten the 3 screws until the hood is secure. (Do not overtighten, as this can strip the screw threads.)
8. The adjustment of the hood can be accomplished by adjusting the two screws on each side of the hinge. Loosen the nuts and then turn the screw in clockwise to raise the hood and counterclockwise to lower the hood. Both screws need to be adjusted together allowing the hood to move up or down. Retighten the nuts after adjustment is complete. (do not over tighten)
9. The hood assembly also can be tilted forward or backward by the adjusting screws on the lower part of the back shield. This is generally not necessary but can be easily accomplished by loosening the four screws that hold the back shield, and then retightening them while you hold the shield in the desired position. Care must be taken when retightening these screws to not over tighten them!



Properly Adjusted Hood

INSTALLING THE WATER FEED AND DRAIN HOSE

1. This is the drain hose, along with tools you will use: a 7 mm nut driver (shown in photo #6).
2. This is the 6 mm water supply hose. You can connect it to a fresh water supply line, a pump or can use a gravity supply from a bucket.
3. The water supply line is inserted into the quick disconnect connector until it goes in about ⅜ of an inch. Pull on it some after insertion to ensure that the connection is good.

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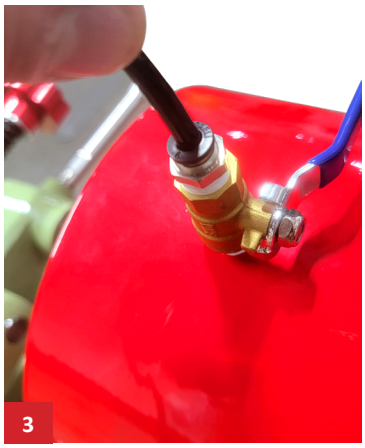

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4. The drain connector is on the back side of the water catch tray
5. Place the hose clamp loosely on the end of the hose.
6. Insert the hose onto the drain fitting on the back of the tray then slide the hose clamp into position over the fitting and tighten it with the nut driver.


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INSTALLING THE SANDING BELT RELEASE LEVER


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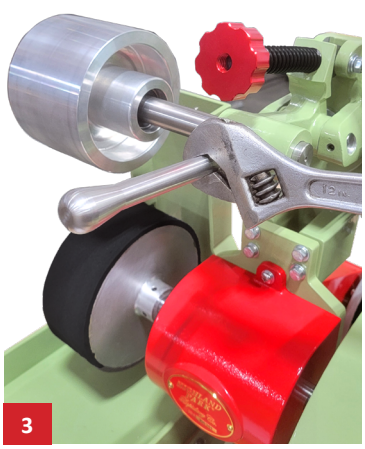
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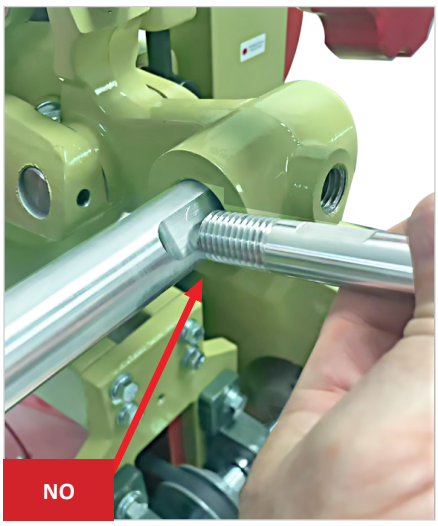
1. The machine is shipped with a retention bolt that holds the top drum in position during shipment.
2. Using an adjustable wrench, loosen this bolt and then remove it
3. Insert the threaded end of the sanding belt release lever and thread it in fully, making sure it is aligned with the flat surface on the top shaft.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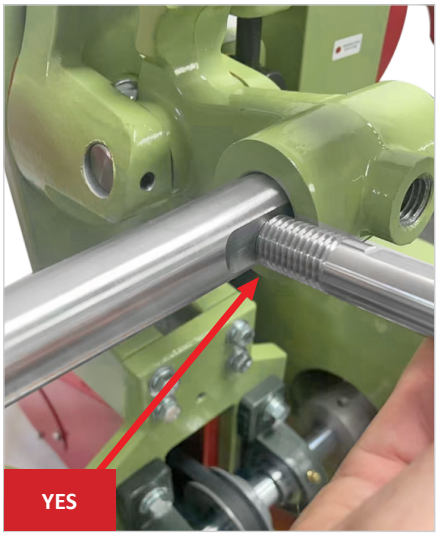
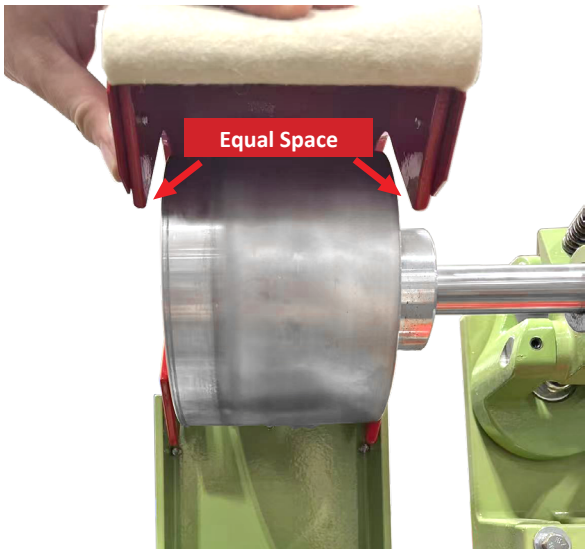
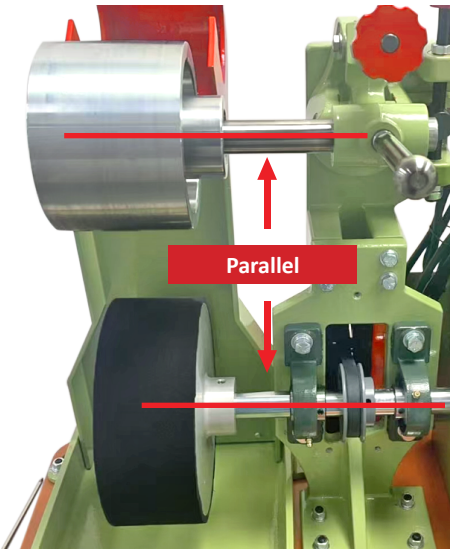

YES

4. Align the top drum so it is centered inside the top hood, then tighten the belt release lever using the adjustable wrench





INSTALLING A SANDING BELT

1. Select an 80 grit sanding belt
2. Using the Camber Adjusting knob on the right, adjust it until the top shaft is close to parallel to the bottom shaft. This will give a good starting point for adjusting the belt tracking.
3. Check for the arrow on the inside of the belt and position it so the arrow is pointing down in the front when the belt is mounted on the machine. Some belts are directional, some are not. If there is no arrow on the inside of the belt then it can be run in either direction.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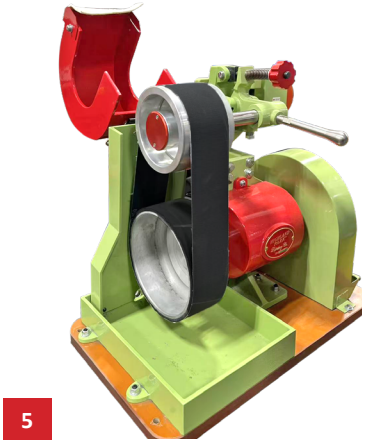
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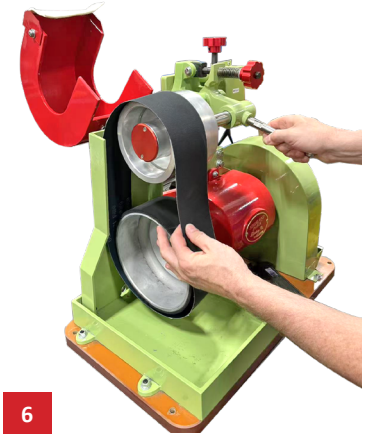
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4. Tilt the top hood back

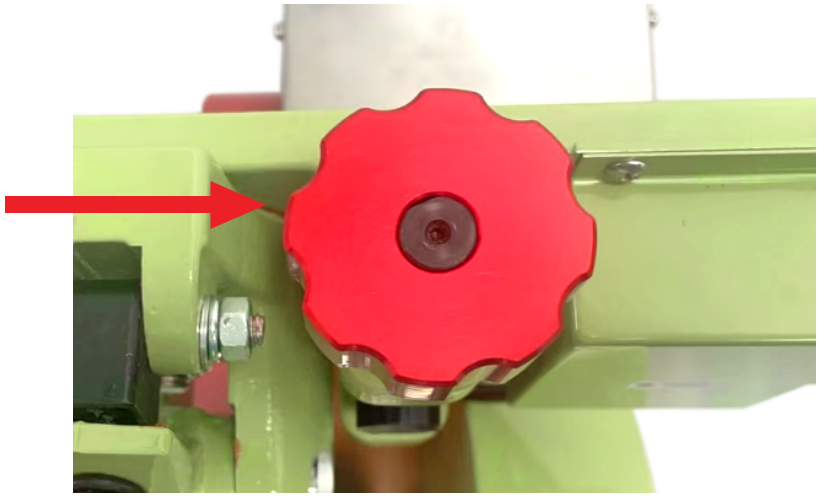
5. Carefully slide the belt past the back guard onto the lower drum
6. Pull down on the sanding belt tensioning lever and while holding the lever down slip the belt onto the top drum. Make sure that the belt is aligned with the edges of the lower drum and then slowly release the sanding belt tensioning lever.

ADJUSTING THE SANDING BELT TRACKING

1. With the hood tilted back and the belt centered on the lower main drum, you are now ready to adjust the sanding belt tracking
2. Flip the start switch momentarily so the main drum begins to spin a little. Notice the direction of the sanding belt's movement to either the right or left.
3. If the belt moves to the left, this tells us that the upper shaft is tilted down a bit to the left. This means that the camber knob needs to be turned counter-clockwise a little. *(Pro tip - pressing down a bit on the sanding belt release lever will allow the camber knob to be turned more easily, as it relieves the tension)*

If belt is tracking right, turn CLOCKWISE

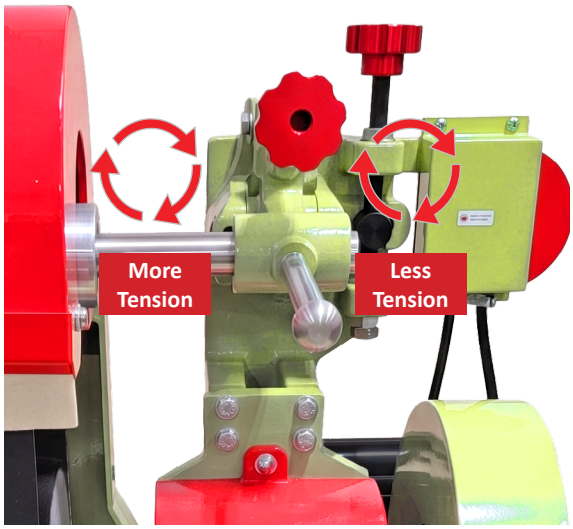
If belt is tracking left, turn COUNTER CLOCKWISE



4. If the belt moves to the right, the upper shaft is tilted down a bit to the right. Turn the camber knob clockwise a little to adjust.
5. Make small adjustments and test the results each time by turning on the power switch momentarily until the belt is holding steady in the center position.

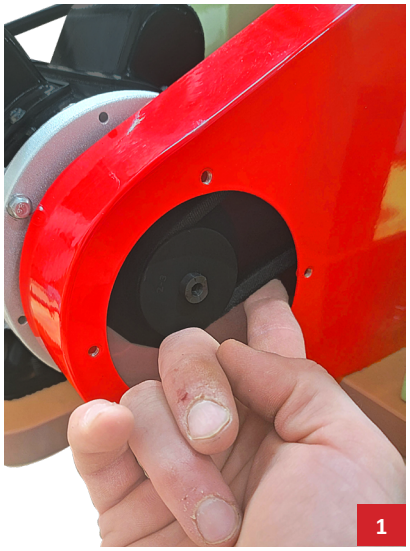
ADJUSTING THE SANDING BELT TENSION

1. The sanding belt tension adjustment allows the ability to decrease or increase the sanding belt deflection when sanding. A lower belt tension can be useful when doing dome polishing, allowing more of the sanding belt to contact the workpiece. Increasing the sanding belt tension can help improve belt tracking and in grinding and polishing flat pieces using the back plate (SKU WBS0050).
2. To increase the sanding belt tension, turn the tension knob clockwise. To decrease the sanding belt tension, turn the tension knob counterclockwise. (If the tension is set too light, then you may experience difficulty with sanding belt tracking drift.)



ADJUSTING THE MOTOR BELT

1. Remove the rear belt guard cover and check the tension of the belt. If it has more than 1/2” movement with light pressure, then the belt should be adjusted.



2. Identify the four mounting bolts that hold the motor in place. There are two on the front, and two on the back. The preferred tool is a 7/16” wrench with a pivot head. Loosen the nuts on the mounting bolts, but do not remove them.

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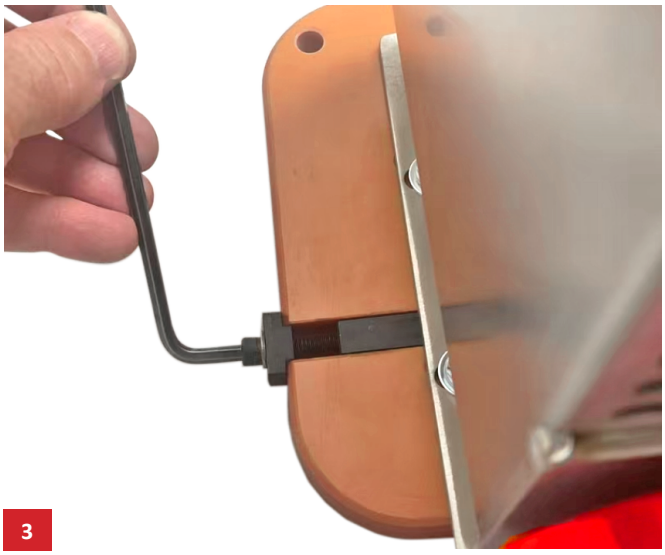
3. With a 3/16” allen wrench the belt tension can be adjusted by turning the screw on the motor adjusting bar at the back of the machine. To tighten the belt, turn the screw clockwise and to loosen the belt turn the screw counterclockwise.
4. Once the proper belt tension is achieved, then tighten the nuts on the motor mounting bolts. Do not overtighten and strip the threads.



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The Highland Park Wet Belt Sander can be used to do a wide variety of grinding, finishing and polishing work.

- Cabochons
- Finishing flat face specimens
- Finishing Domed Specimens
- Knife handles

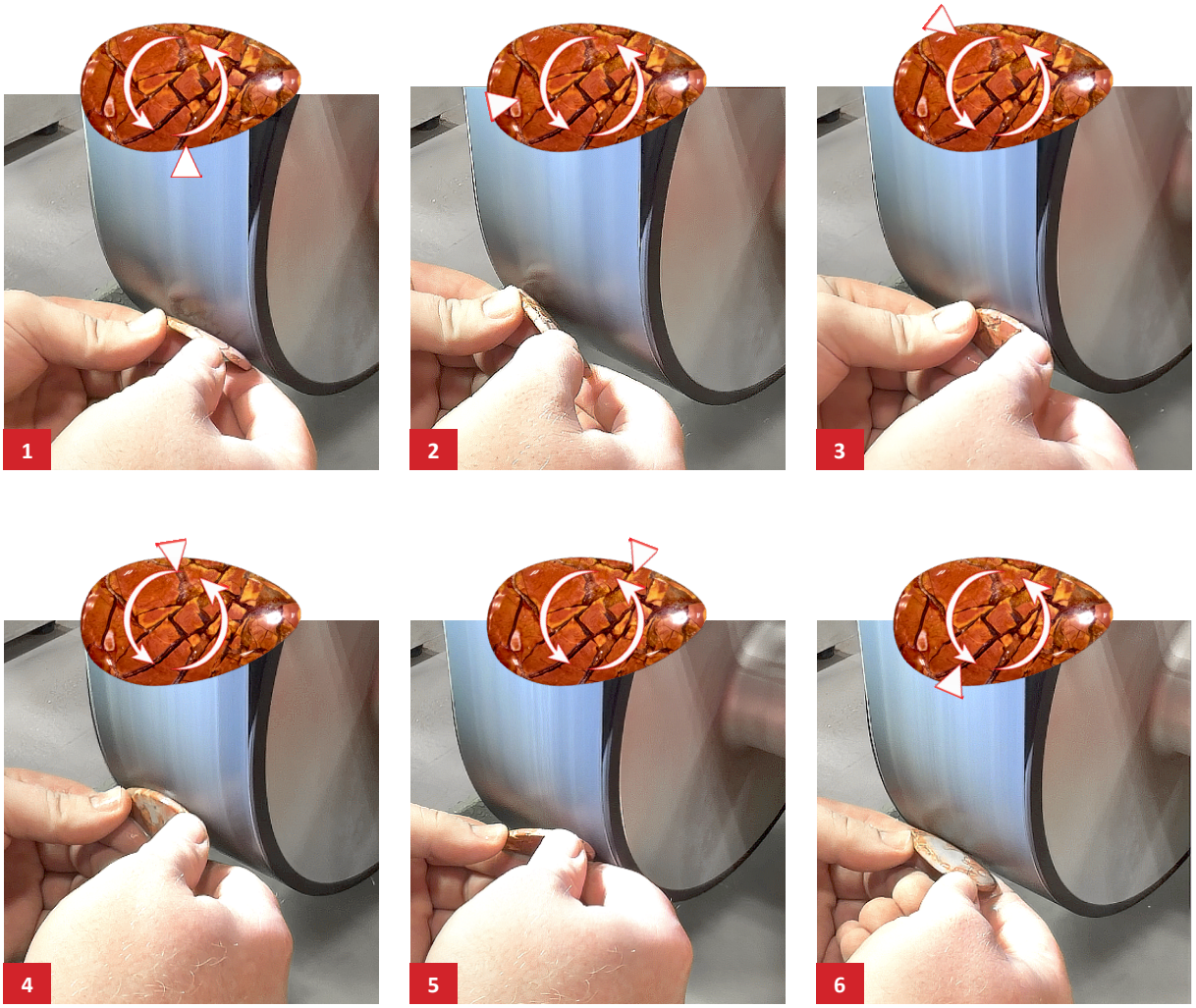
Using The Machine

SHAPING THE PRE-FORM

1. Start working on your 80 grit belt. The first step is to get the appropriate water flow on the wheel; make sure the flow is enough to keep debris from accumulating on the wheel, but not so much that water is splashing everywhere. The water will keep the stone lubricated, reducing friction that creates unwanted heat.
2. Using both hands, hold the pre-form at 90 degrees to the belt and allow the belt to smooth the edges. If you have used a template for the shape, grind down to the line you made. If making a cabochon for stone setting, grind a slight angle (6-11 degrees) along the edge, with the bottom tapering to the top

SHAPING THE DOME

Once you have ground your preform into the perfect shape, the next step is to start the dome. Cabochons must have a dome, whether high or low, in order to eliminate flat spots and allow the entire face to take a great polish. This step requires practice and patience.



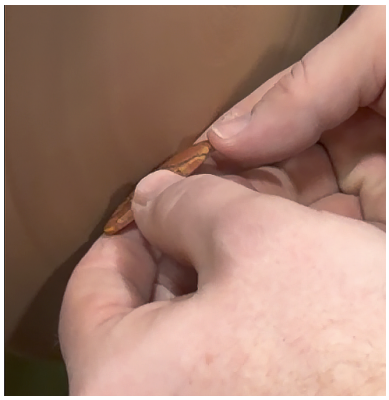
- To make a dome, hold your preform in both hands with the face parallel (flat) to the 80-grit wheel. (The arrow in the above photo indicates where the stone is touching the belt). Tilt the bottom edge to make contact with the wheel, and begin grinding around the edges at a slight angle (about 15-25 degrees, depending on how thick your stone is), tracing an angled circle around the preform's outer edge. The grinding motion to get a dome using a circular rocking motion that can either be done counterclockwise or clockwise. The small arrow on the diamond represents where the cab contacts the wheel.

- Some users prefer to use a dop stick to hold their cabochons, to keep their fingers away from the wheel or provide better leverage At left is the HP Dop Pro (SKU: DOP001)
- Once you have made an angle cut all the way around the stone, continue the circular motion working inward, making smaller and smaller rotations until you get to the center of the stone. It helps to envision this as a spiral, moving from the outside to the very center, always keeping the preform at a slight angle. Another helpful image is to picture a coin spinning, making smaller and smaller movements until it reaches the center. Spin a coin. Watch the motion of the coin as it starts to get flat on the table. Imagine doing that same motion with the cabochon on the belt - only slower.

Next, turn the stone 180 degrees and do the same thing, working from the outside to the center. Again, imagine that you are tracing a spiral on the stone with the wheel. The hand motion to accomplish this takes practice, but once you master it, your cabochons will be perfect every time.

FINAL POLISH

Your Wet Belt Sander comes with a leather wheel. The leather wheel used with cerium oxide is ideal for polishing agates and jaspers and most hard stones. Buffing your cabochon to a mirror polish takes a very fine grit, either diamond powder, cerium oxide or another polishing agent.



To renew the charge, take a teaspoon of cerium oxide (SKU: PP0102) and start mixing water in until it becomes a smooth, thin paste. Use a toothbrush, old paintbrush or your finger to apply the paste over the face of the wheel.

To charge the leather wheel for the first time, make a paste that is 1/2 cerium oxide (Part #) and 1/2 water. Work the paste into the wheel and let it dry flat overnight. Charging the felt wheel with diamond is a similar process, depending on whether you use spray or paste.

MAKING A DOMED SPECIMEN:

Making a domed specimen is similar in process to making a cabochon - your movements just will be bigger. Grind away the edges (working from the outside edge to the center) until there is a visible dome from edge to edge. Remember that the dome doesn't have to be huge - just enough to allow the wheel to touch all the faces of the surface. Since the wheels are round, polishing a flat surface is very difficult, so doming is necessary.

Once the rock is domed, follow the same order of wheels and procedures as for cabochons. After polishing, you will have an attractive specimen for your collection - or someone else's!

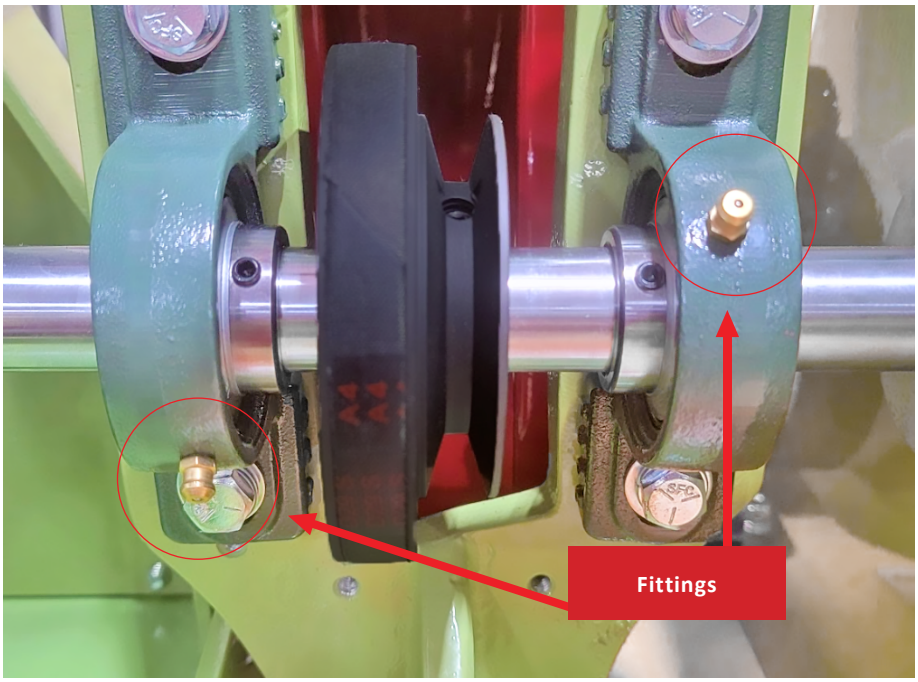
GREASING THE BEARINGS

1. The bearings should be greased with an NLGI-2 using a standard grease gun, once every three to four months with light use (approximately 60 hrs/month.) If you use it heavily, grease it more often. The grease fittings are located behind the front cover. Remove the 3 screws to access the bearings; there is one on the top of the cover and two on the bottom of the cover.

2. The two bearings grease fittings are easily accessible now.

3. Using a standard grease gun and NLGI-2 general purpose lithium grease, put one to two pumps in each bearing, watching for when the grease starts to come out around the seal. When grease starts to appear at the seal, the bearing is full.

4. Wipe off the excess grease and then replace the front cover and reinsert the 3 screws. Do not cross thread or overtighten them.



Troubleshooting

ISSUE	SOLUTION
Parts are missing or something was damaged during shipment.	Contact us directly at 512-348-8528.
Unit vibrates when running	Try removing the polish wheel from the machine and see if the vibration goes away. If this corrects the vibration, then contact your sales representative for assistance
Belt squeals when starting up	Belt tension may need to be adjusted (see page 11)
Felt makes rubbing sound when starting up	No fix needed; the felt will become quieter as it gets wet and the material relaxes.
New machine doesn't start, motor hums (non-variable speed)	Turn off the machine immediately and make sure the wheel rotates freely. If the machine is humming and not running, it WILL damage the motor. If your machine is new, contact your Highland Park Lapidary sales representative. Machines are covered under warranty for one year.
Turned on the machine, doesn't start, no hum	For variable speed motors, there is about a five-second delay as the controller boots up for variable speed drive. If your machine doesn't start after this delay, make sure the speed control knob is rotated enough that the wheel will start turning. If the dial is on zero, the wheels won't turn
Water is only on the center of the sanding belt	Adjust the felt to be sure it is riding against the sanding belt because its purpose is to spread the water across the surface of the belt. It may be necessary to adjust the angle of the top cover to get the felt to contact the belt more fully.
Water flow is weak or doesn't flow.	Check to make sure there is sufficient water in the reservoir. If so, check the valve for debris blocking the flow.

Warranty Coverage

Machines, Polishers, Diamond Blades & Core Bits and Motors
Highland Park warrants to the original purchaser for a period of one year except as noted, from the date of purchase all products covered by this Warranty to be free of defects in materials and workmanship. This warranty is non-transferable and applies only to the original purchaser.

This Warranty shall not apply to any parts that have been subjected to misuse or improper service, that had been damaged in transit or handling, or that have been altered or repaired by unauthorized representatives. This Warranty does not cover defects caused by or resulting from misuse, abuse, neglect, or damage caused by accident or the failure to provide reasonable maintenance. This Warranty is void if the product or any of its individual components is altered or modified by the purchaser or if the product is used in a manner or with a blade not recommended by the manufacturer.

Any claim arising under this Warranty must be submitted by the original purchaser within the warranty period specified above and shall include proof of purchase. During said warranty period Highland Park shall, at its option, either replace or repair, at no charge to the original purchaser, any parts or components that are found to be defective by Highland Park. Highland Park shall not be responsible for or obligated to pay for freight or other transportation-related costs or expenses in connection with any defective products or components that are either returned to Highland Parks facility or any authorized repair station and/or any replacement products or components that are shipped from Highland Park pursuant to this Warranty.

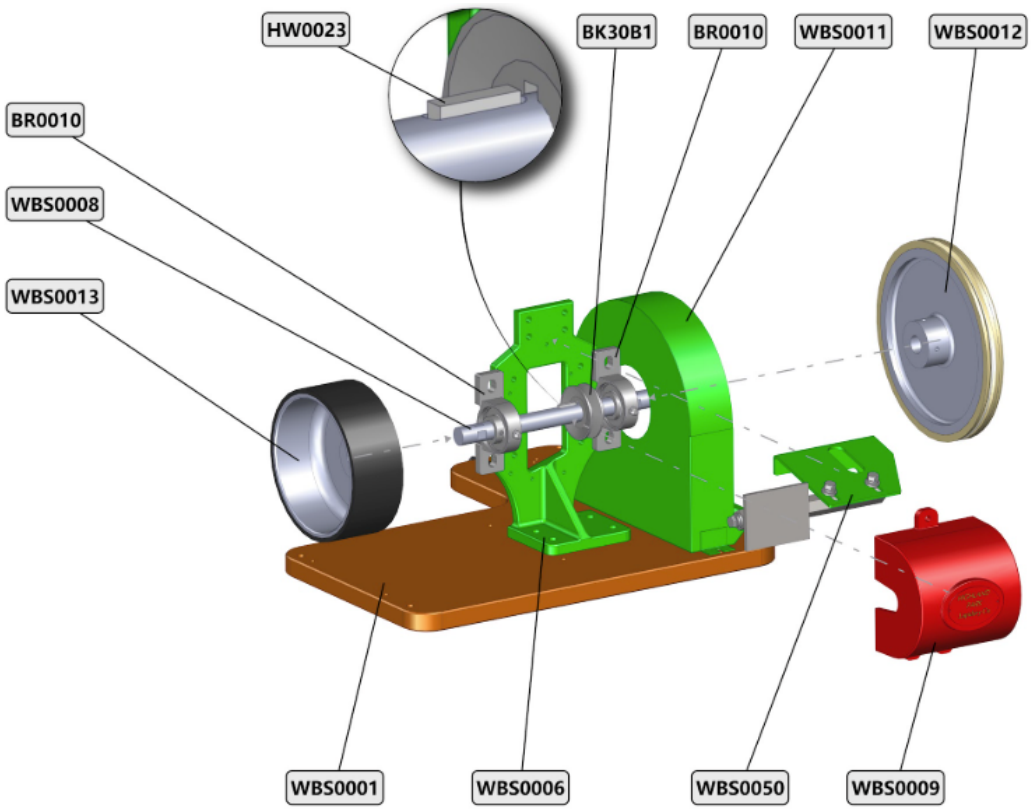
Parts and labor needed to maintain products and the replacement of components due to normal use are the purchaser's responsibility and are not covered by this Warranty. All products or components replaced under warranty become the property of Highland Park. All replacement parts will be considered to be part of the original product and any warranty on such parts will expire coincidentally with the original Warranty. Replacement part(s) installed by anyone else will be provided without a charge for such replacement part(s), but this Warranty will not apply to labor charges in connection therewith.

IN NO EVENT SHALL ANY LIABILITY UNDER THIS WARRANTY EXCEED THE REPLACEMENT COST OF ANY DEFECTIVE PRODUCT OR COMPONENT THEREOF, AND HIGHLAND PARK SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES OR FOR ANY OTHER DAMAGE OR LOSS NOT EXPRESSLY ASSUMED AS SET FORTH HEREIN.

The foregoing constitutes an expressed warranty on the terms set forth above and is the only warranty or warranties applicable to the products it covers. All other warranties, including, without limitation, the implied warranty of merchantability and/or fitness for a particular purpose or use being denied. This limited warranty is expressly in lieu of all other warranties, whether expressed or implied.

Exploded Views

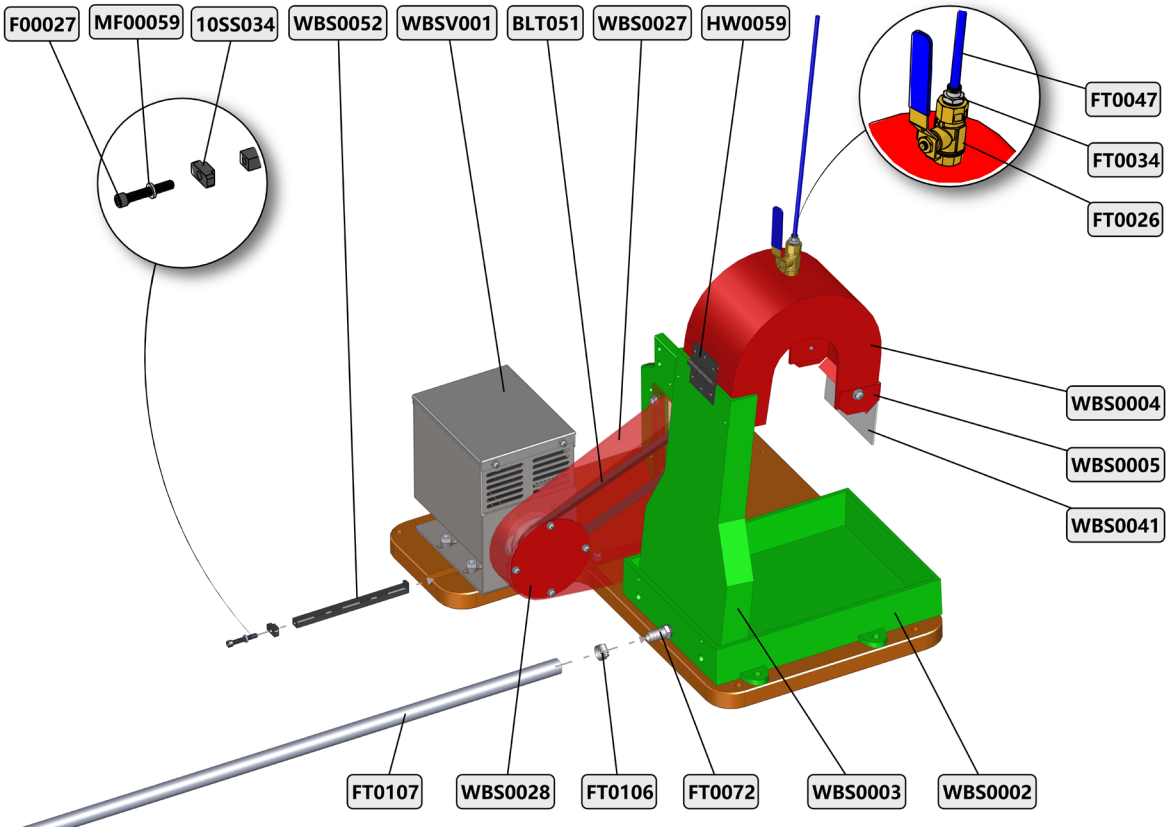
WBSV PARTS 1



Part Number	Description	Quantity
BK30B1	2.95 inch Cast Iron Shaft Pulley with 1 inch bore	1
BR0010	Pillow Block Arbor Bearing	2
HW0023	1/4 inch Key Stock	1
WBS0001	Phenolic Base	1
WBS0006	Main Frame	1
WBS0008	Main Shaft	1
WBS0009	Bearing Cover	1

WBS0011	Polish Cover Assembly	1
WBS0012	10 inch domed leather covered polishing disc with 1 inch bore	1
WBS0013	8 inch foam covered sanding belt drum with 1 inch bore	1
WBS0050	Grinding Platform Assembly	1

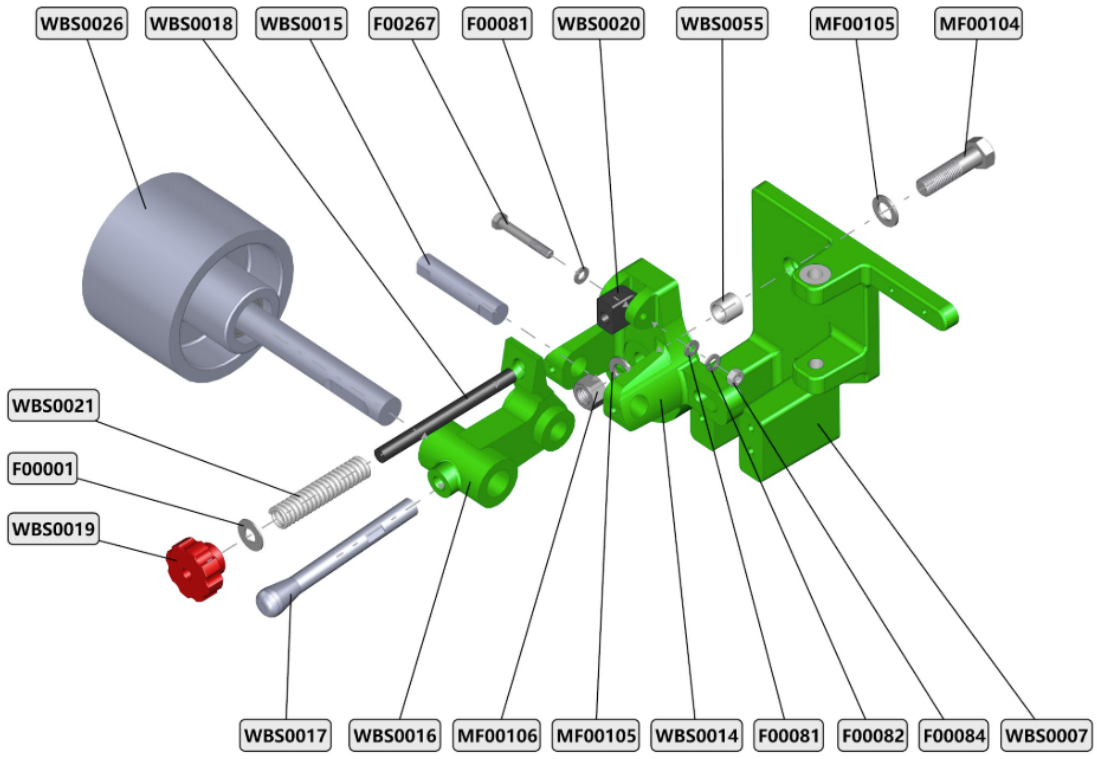
CB8 PARTS VIEW #2



Part Number	Description	Quantity
10SS034	Motor Adjust Guide	1
BLT051	A29 Motor belt	1
F00027	1/4-20 x 1-1/2 SHCS Socket Head Cap Screw	1
FT0026	1/4 M to 1/4 F Ball Valve	1
FT0034	1/4 NPT male to 6mm QD Fitting	1
FT0047	6mm Poly Tube	1
FT0072	3/8 M NPT to 15mm barb SS304	1

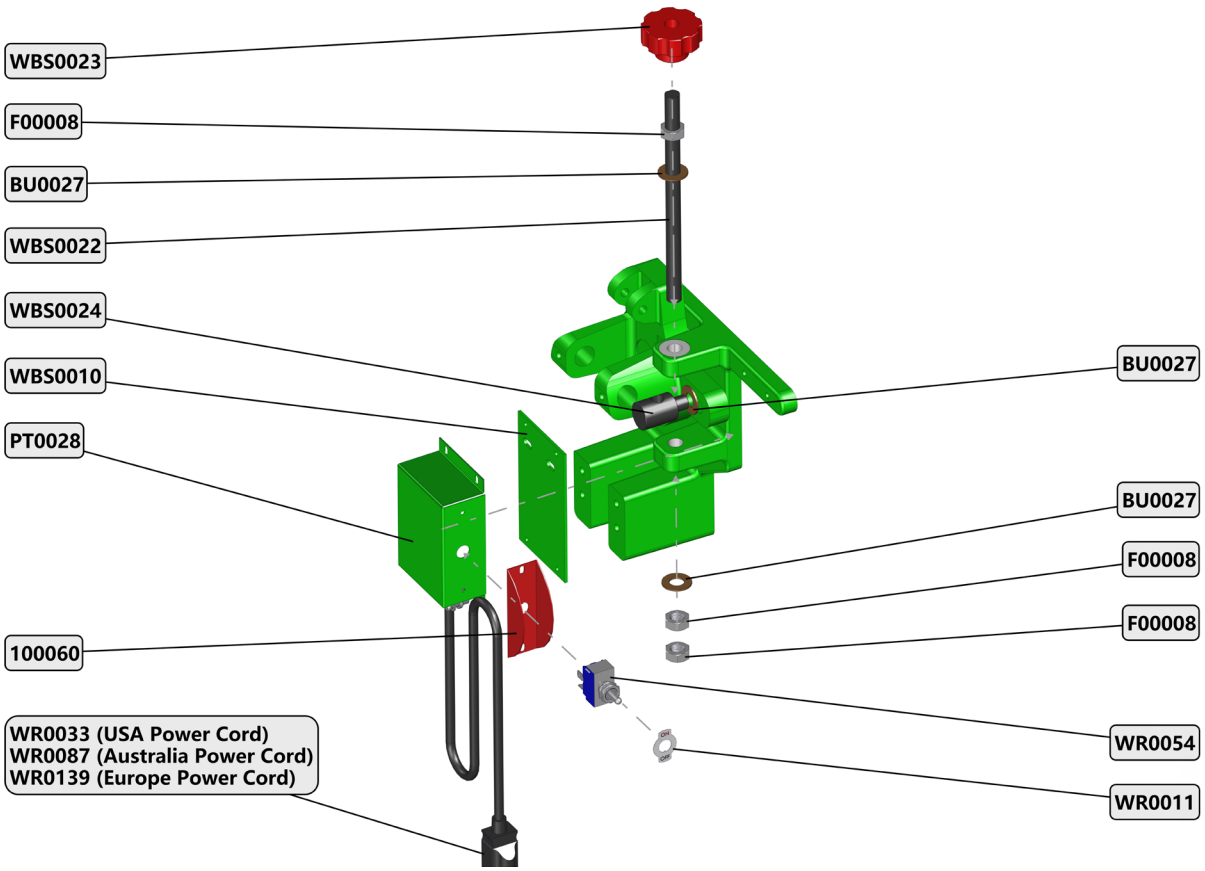
FT0106	11-20mm Hose Clamp	1
FT0107	15 ID 22 OD PVC Hose	1
HW0059	2.5" x 2.5" Hinge	1
MF00059	M6-1.0 Flat Washer SS304	1
WBS0002	Tray	1
WBS0003	Back Cover	1
WBS0004	Belt Cover	1
WBS0005	Belt Guard Bracket	1
WBS0027	Belt Guard Assembly	1
WBS0028	Pulley Cover	1
WBS0041	Sanding Belt Wiper	1
WBS0052	Motor Adjust Bar	1
WBSV001	Retrofit Variable Speed Control Drive Module	1

WBSV PARTS 3



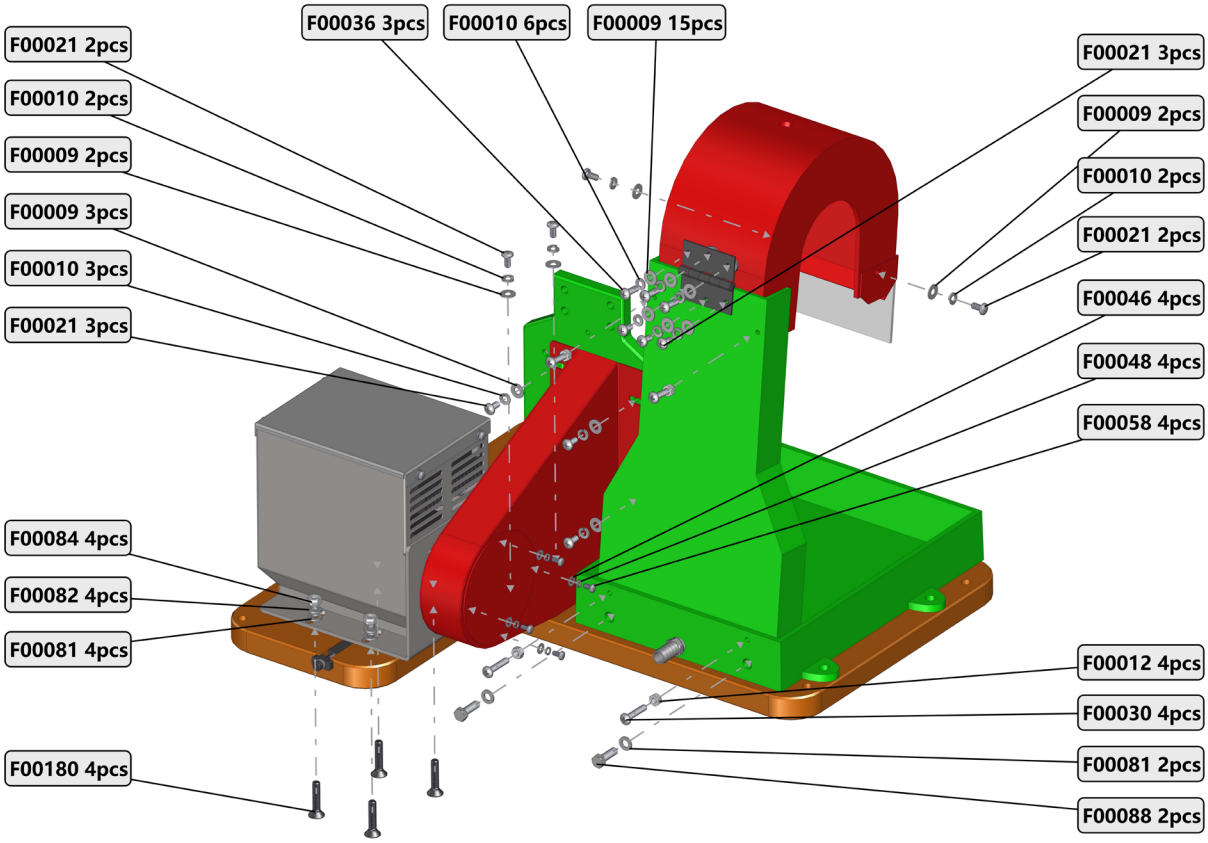
Part Number	Description	Quantity
F00001	1/2 Flat Washer	1
F00081	5/16-18 Flat Washer	2
F00082	5/16-18 Lock Washer	1
F00084	5/16-18 Hex Nut	1
F00267	5/16-18 x 2-1/4 HHCS Hex Bolt	1
MF00104	M16-2 X 60mm HHCS Hex Head Bolt	1
MF00105	M16 Flat Washer	2
MF00106	M16-2 Nylon Nut	1
WBS0007	WBS Head Frame	1
WBS0014	WBS Head Pivot	1
WBS0015	WBS Pivot Pin	1
WBS0016	WBS Tension Lever	1
WBS0017	WBS Handle	1
WBS0018	WBS Tension Shaft	1
WBS0019	WBS Tension Knob	1
WBS0020	WBS Rod End	1
WBS0021	WBS Spring	1
WBS0026	WBS Top Drum Assy	1
WBS0055	WBS Pivot Bushing	1

WBSV PARTS 4



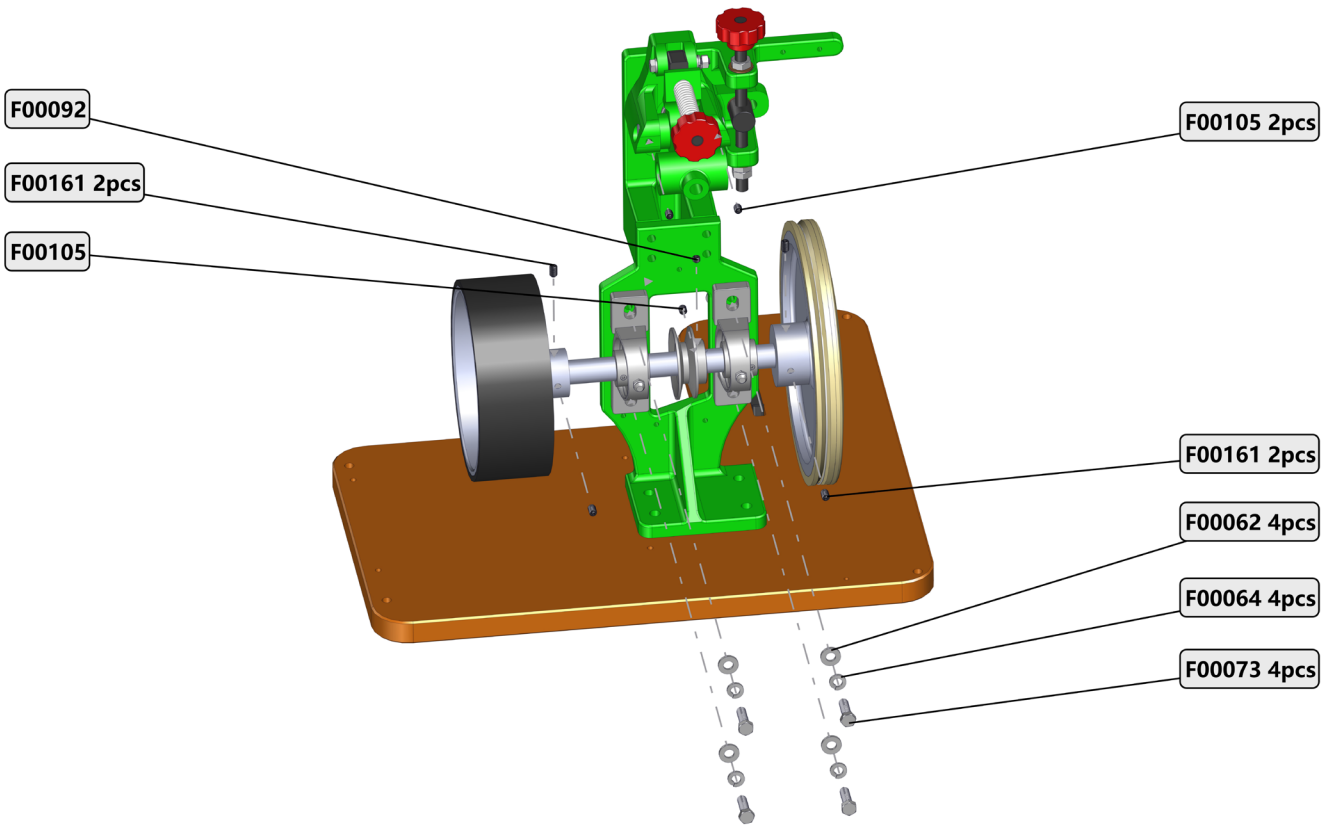
Part Number	Description	Quantity
100060	Toggle Switch Guard	1
BU0027	Thrust Washer	3
F00008	1/2-20 Jam Nut	3
PT0028	Switch Box	1
WBS0010	Switch Box Mount Plate	1
WBS0022	WBS Camber Screw	1
WBS0023	WBS Camber Knob	1
WBS0024	WBS Dog	1
WR0011	On Off Switch Plate	1
WR0033	USA Power Cord	1
WR0054	Heavy duty toggle switch	1
WR0087	Australia Power Cord	1
WR0139	Europe Power Cord	1

WBSV SCREWS & FASTENERS 2



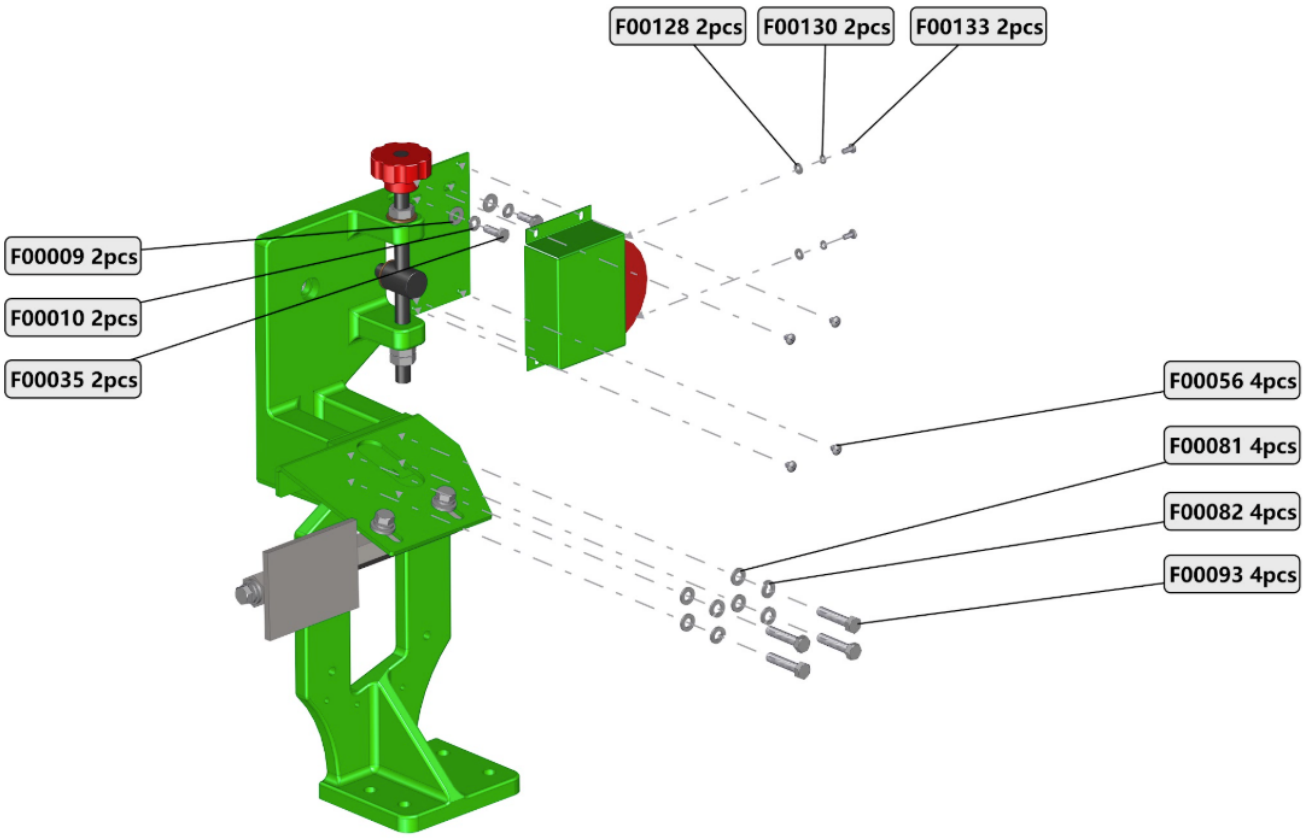
Part Number	Description	Quantity
F00009	1/4-20 Flat Washer	22
F00010	1/4-20 Lock Washer	13
F00012	1/4-20 Hex Nut	4
F00021	1/4-20 x 1/2 PHP Pan Head Phillips SS304	10
F00030	1/4-20 x 1-1/4 304SS PHP Pan Head Phillip	4
F00036	1/4-20 x 3/4 PHP Pan Head Phillips SS304	3
F00046	10-32 Flat Washer 304SS	4
F00048	10-32 Lock Washer 304SS	4
F00058	10-32 x 3/8 PHP Pan Head Phillips SS304	4
F00081	5/16-18 Flat Washer	6
F00082	5/16-18 Lock Washer	4
F00084	5/16-18 Hex Nut	4
F00088	5/16-18 x 1 HHCS Hex Bolt	2
F00180	5/16-18 x 1-1/2 FHSCS Flat Head Socket	4

WBSV SCREWS & FASTENERS 3



Part Number	Description	Quantity
F00062	3/8 Flat Washer	4
F00064	3/8 Lock Washer	4
F00073	3/8-16 x 1-1/4 HHCS Hex Bolt	4
F00092	5/16-18 x 1/4 Black Set Screw	1
F00105	5/16-18 x 3/8 Black Set Screw	3
F00161	5/16-18 x 1/2 Set Screw	2

WBSV SCREWS & FASTERS 4



Part Number	Description	Quantity
BR0035	Bearing	2
F00122	6-32 x 1/2 FHP Stainless Steel Flat Head Phillips Screw	2
FT0080	Oring	1
HW0051	External Retaining Ring	1
WBS0025	Upper Shaft	1
WBS0032	Top Drum Body	1
WBS0034	Hub Cap	1

Model WBSV- Variable Speed Wet Belt Sander
Owner's Manual & Operating Instructions

www.hplapidary.com

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