HAFCO WOODMASTER


Edition : 1
Date: (04/26)

# Instruction Manual

# WET STONE GRINDER
## WSG-250VS

Order Code: (W652)

## MACHINE DETAILS

| | |
|---|---|
| MACHINE. | WET STONE GRINDER |
| MODEL NO. | WSG-250VS |
| SERIAL NO. | |
| DATE OF MANF. | |

IMPORTED BY

AUSTRALIA

HARE&FORBES MACHINERYHOUSE

www.machineryhouse.com.au

NEW ZEALAND

MACHINERYHOUSE

www.machineryhouse.co.nz

**NOTE:**
**This manual is only for your reference. At the time of the compiling of this manual every effort to be exact with the instructions, specifications, drawings, and photographs of the machine was taken. Owing to the continuous improvement of the HAFCO Woodmaster machine, changes may be made at any time without obligation or notice. Please ensure the local voltage is the same as listed on the specification plate before operating any electric machine.**

**SAFETY SYMBOLS:**
**The purpose of safety symbols is to attract your attention to possible hazardous conditions**

⚠WARNING **Indicates a potentially hazardous situation causing injury or death**

⚠CAUTION **Indicates an alert against unsafe practices.**

**Note: Used to alert the user to useful information**

**NOTE:**
**In order to see the type and model of the machine, please see the specification plate. Usually found on the back of the machine. See example (Fig.1)**

FIG.1

HAFCO WOODMASTER

PRODUCT SPECIFICATIONS

Model: WSG-250VS
Nett Weight: 14kg
MFG Date:

Voltage: 240V/50Hz
Motor: 0.2HP/0.15kW
FLC: 1.0A

Serial No:

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## CONTENTS:



## ⚠ *WARNING!*

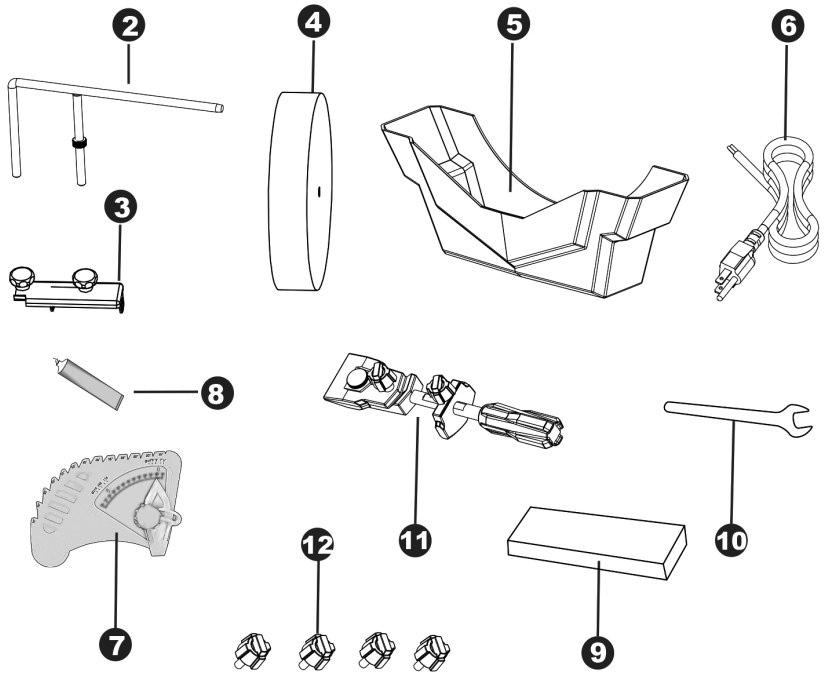
***The machine is the sole responsibility of the owner for its safe use. This responsibility includes but is not limited to proper installation in a safe environment, personnel training, proper inspection and maintenance, manual availability and comprehension. The manufacturer will not be held liable for injury or property damage from negligence, improper training, machine modifications or misuse.***

## 1.1 SPECIFICATIONS

| Order Code | W652 |
|---|---|
| **MODEL** | **WSG-250VS** |
| Grinding Wheel (Ø x W) (mm) | Ø250 x 50 |
| Stone Grit | K220 |
| Leather Honing Wheel (Ø x W) (mm) | Ø200 x 30 |
| Grinding Stone Speed (rpm) | 90 ~160 |
| Motor Power (W) | 150 |
| Motor Voltage (V) | 240 |
| Floor Space (W x D x H) (mm) | 430 x 330 x 370 |
| Weight (kg) | 18.5 |

## 1.2 PACKING LIST

1. Machine (Not Shown)
2. Universal Support
3. Grinding Jig
4. Wet Grinding Wheel
5. Water Reservoir
6. Cord and Plug
7. Angle Guide
8. Honing Compound
9. Wheel Dressing Stone
10. Wrench
11. Short Knife Jig
12. Lock Knobs

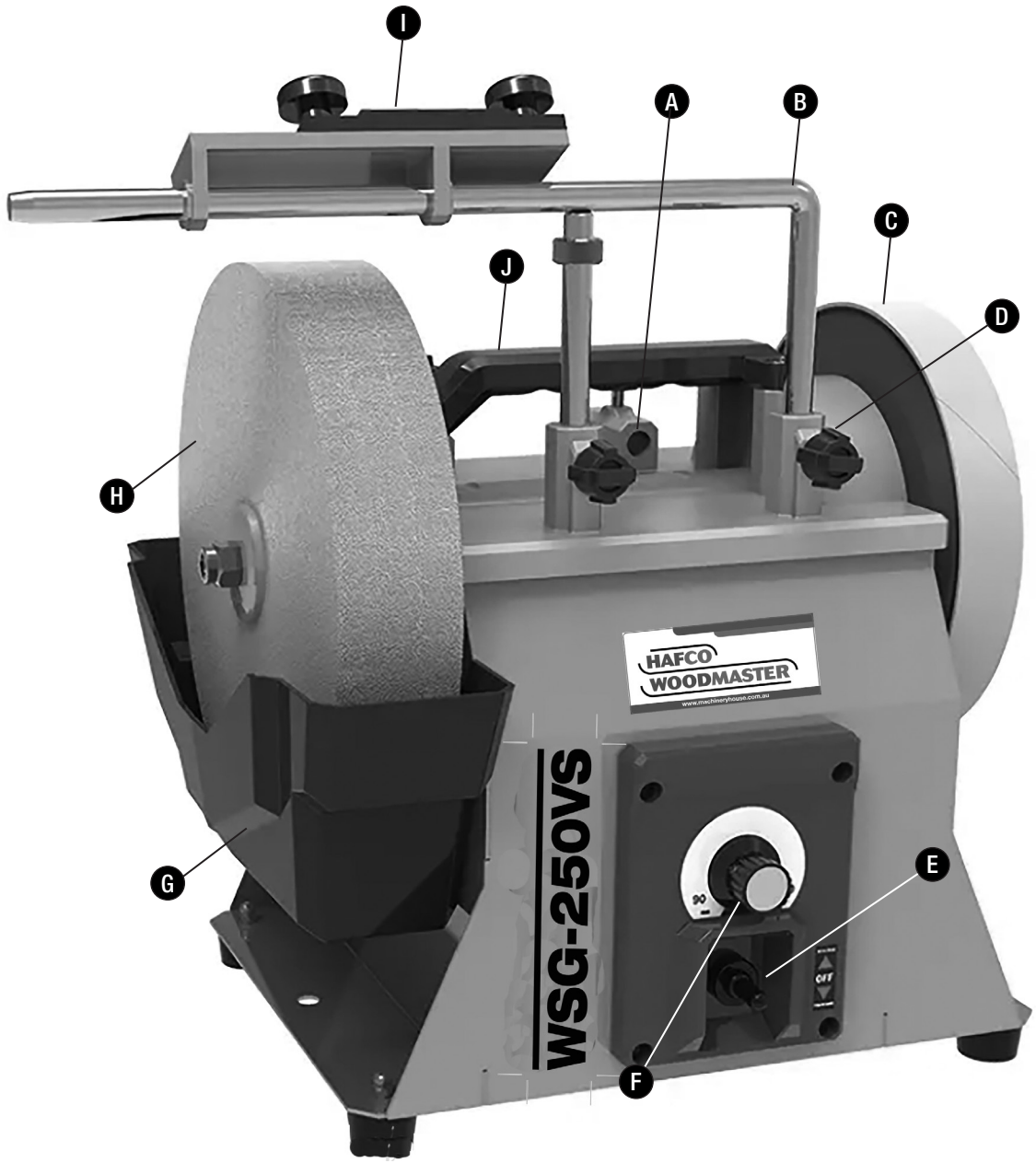



***WARNING!***

***When operating a grinder it is important to wear appropriate safety gear to protect yourself from injury. This includes safety glasses or goggles, or a face shield to protect your eyes from flying debris.***

## 1.3 IDENTIFICATION

Become familiar with the names and locations of the controls and features shown below to better understand the instructions when mentioned later in this manual.




| | |
|---|---|
| **A** | Horizontal Mounts with Knobs |
| **B** | Universal Support |
| **C** | Leather Stropping Wheel |
| **D** | Vertical Mounts with Knobs |
| **E** | Power Switch |

| | |
|---|---|
| **F** | Variable Speed Knob |
| **G** | Water Reservoir |
| **H** | Grinding Wheel |
| **I** | Grinding Jig |
| **J** | Lifting Handle |

## 2.1 GENERAL POWER TOOL SAFETY

**⚠WARNING** ***Read all safety the warnings, instructions, illustrations and the specifications provided with this power tool.***

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

Read all safety warnings, instructions, illustrations and specifications provided with this power tool.

Save all warnings and instructions for future reference.

**1) Workplace Safety**

a. Keep your working area clean and well lit. Cluttered or dimly lit workspaces can lead to accidents.

b. Do not operate power tools in areas where explosions could take place, or in which flammable liquids, gases or dust are present. Power tools can create sparks, which can cause dust or fumes to ignite.

c. Keep children and bystanders away from the power tool when it is being used. Distractions could cause you to lose control over the equipment.

**2) Electrical Safety**

a. The terminal plug of the tool must fit into the outlet. The plug may not be modified in any way. Do not use an adapter plug together with grounded power tools. The original plugs and the appropriate outlets reduce the risk of an electrical shock.

b. Avoid contact with grounded surfaces, such as pipes, radiators, stoves and refrigerators. There is an increased risk of electrical shock, if your body is grounded.

c. Keep power tools away from rain or wet conditions. Penetration of water into the power tool increases the risk of electrical shock.

d. Do not use the cable for any purpose other than that for which it was made. Do not use it to carry the tool, hang it up, or to pull the plug out of the outlet. Keep the cable away from heat, oil, sharp corners or parts of the equipment that move. Damaged or entangled cords increase the risk of electrical shock.

e. When operating the power tool outdoors, only use extension cords that are suitable for outdoor use. The use of an appropriate extension cord reduces the risk of an electrical shock.

f. If the power tool must be used in a damp environment, use a residual current protective device. The use of such a device reduces the risk of electrical shock.

**3) Personal Safety**

a. Be attentive, watch what you are doing and use the power tool sensibly. Do not use power tools when you are tired or under the influence of drugs, alcohol or medicines. One moment of inattention while using a power tool can result in serious injury.

b. Wear personal protective equipment and always wear protective glasses. Wearing personal protective equipment, such as a dust mask, slip-free safety shoes, protective head wear or ear protection, depending on the type and use of a power tool reduces the risk of injury.

c. Avoid unintentional start-ups. Make sure that the power tool is shut off before it is connected to the power supply, or is carried. If you have your finger on the switch of the tool while carrying it, or have the tool turned on, or connected to a power supply, this behaviour can lead to accidents.

d. Remove the adjustment aides or the spanners before turning on the power tool. A tool or wrench that is located in a rotating part of the machine, can lead to injuries.

e. Avoid abnormal posture. Make sure that the operator is standing firmly and can maintain balance. This allows the operator to maintain control over the power tool in unexpected situations.

**3) Personal Safety cont.**

f. Wear appropriate clothing. Do not wear loose clothing or jewellery. Keep hair, clothing and gloves away from the moving parts. Loose clothing, jewellery or long hair can get caught in the moving parts.

g. If dust vacuums or catching systems can be installed on the tool, make sure that these are correctly connected and assembled. The use of a dust exhaust unit can reduce hazards caused by dust.

**4) Use And Treatment Of The Power Tool**

a. Do not overtax the tool. Use the appropriate tool for the work that is to be done. With the correct power tool, you can work better and more safely.

b. Do not use a power tool where the switch is defective. A power tool that cannot be turned on and off is dangerous and must be repaired.

c. Disconnect the plug from the wall outlet before you make adjustments to the tool, change parts or put the tool away. This precaution prevents inadvertent start-ups of the tool.

d. Store power tools that are not in use out of reach of children. Do not let anyone use the tool who does not have experience with it, or who has not read these instructions. Power tools can be dangerous when they are used by inexperienced people.

e. Take good care of your power tools. Make sure that movable parts function properly and do not jam, see that parts which influence the use of the machine are not broken or damaged. Repair damaged parts before operating the tool. Many accidents are caused by poorly maintained power tools.

f. Keep cutting edges sharp and clean. Properly maintained cutting tools with sharp cutting edges jam less often and are easier to control.

g. Use power tools, accessories, and equipment according to these instructions. Taking into account the working conditions and the work being performed. The use of power tools other than those intended for the tool itself can lead to dangerous situations.

h. Keep handles and grasping surfaces dry, clean and free from oil and grease. Slippery handles and grasping surfaces do not allow for safe handling and control of the tool in unexpected situations.

**5) Service**

a. Only let qualified service personnel repair your tool and always use original replacement parts. This guarantees that the power tool remains safe to use.

***CAUTION!***

***It is impossible to cover all possible hazards. All workshop environments are different. These are designed as a guide to be used to compliment training and as a reminder to users prior to equipment use. Always consider safety first, as it applies to the individual working conditions.***

## 2.2 SPECIFIC SAFETY FOR GRINDERS

**DO NOT use this machine unless you have been instructed in its safe use and operation and have read and understood this manual**

*Safety glasses must be worn at all times in work areas*

*Long and loose hair must be contained.*

*Hearing protection must be used when using this machine.*

*Sturdy footwear must be worn at all times in work areas*

*Close fitting or protective clothing must be worn*

*Dust masks must be worn when using abrasive grinding wheels.*

### PRE-OPERATIONAL SAFETY CHECKS.

- ✓ Locate and ensure you are familiar with all machine operations and controls.
- ✓ Ensure all guards are fitted and functional. Do not operate if guards are missing or faulty.
- ✓ Check workspaces and walkways to ensure no slip/trip hazards are present
- ✓ Ensure that the wheels do not touch the work rest. Ensure the gap between wheel and rest is no more than 1.5mm.
- ✓ Check that the wheels are running true and are not glazed or loaded.
- ✓ Check for cracks in the wheel and report any you find.

### OPERATIONAL SAFETY CHECKS

- ✓ Only one person may operate this machine at any one time.
- ✓ Stand to the side of the wheels when starting up.
- ✓ Let the wheels gain maximum speed before starting to grind.
- ✓ Slowly move the workpiece across the face of the wheel in a uniform manner.

### ENDING OPERATIONS AND CLEANING UP

- ✓ Switch off the machine when work is completed.
- ✓ Clean up and absorb any coolant spills immediately.
- ✓ Leave the machine in a safe, clean and tidy state.

### DON'T

- × Do not use faulty equipment. Immediately report any suspect machinery.
- × Do not hold workpiece with gloves, cloth, apron or pliers.
- × Do not grind non-ferrous metals.
- × Do not hold small objects by hand.
- × Never leave the machine running unattended.
- × Do not bend down near the machine while it is running.
- × Never force the workpiece against a wheel.

### POTENTIAL HAZARDS AND INJURIES

- ❑ Hot metal.
- ❑ Noise. Sharp edges and burrs.
- ❑ Wheels 'run on' after switching off.
- ❑ Sparks.
- ❑ Hair/clothing getting caught in moving parts.
- ❑ Eye injuries.

## 3. POWER SUPPLY

### 3.1 ELECTRICAL INSTALLATION

Place the machine near an existing power source. Make sure all power cords are protected from traffic, material handling, moisture, chemicals, or other hazards. Make sure there is access to a means of disconnecting the power source. The electrical circuit must meet the requirements for the power used by the machine.

***NOTE : The use of an extension cord is not recommended as it may decrease the life of electrical components on your machine.***

**ELECTRICAL REQUIREMENTS**

Nominal Voltage.....240V
Cycle.....50 Hz
Phase.....Single Phase
Power Supply Circuit.....10 Amps
Full Load Current.....0.3 Amps

(Full load current rating is also on the specification plate on the motor.)

### 3.2 FULL-LOAD CURRENT RATING

The full-load current rating is the amperage a machine draws when running at 100% of the output power. Where machines have more than one motor, the full load current is the amperage drawn by the largest motor or a total of all the motors and electrical devices that might operate at one time during normal operations.

Full-Load Current Rating for these machine is available on the motor plate.

It should be noted that the full-load current is not the maximum amount of amps that the machine will draw. If the machine is overloaded, it will draw additional amps beyond the full-load rating and if the machine is overloaded for a long period of time, damage, overheating, or fire may be caused to the motor and circuitry.

This is especially true if connected to an undersized circuit or a long extension lead. To reduce the risk of these hazards, avoid overloading the machine during operation and make sure it is connected to a power supply circuit that meets the requirements.


## 4 SET-UP

### 4.1 UNPACKING

This machine was carefully packaged for safe transport. When unpacking, separate all enclosed items from packaging materials and inspect them for shipping damage. If items are damaged, please contact your distributor.

***NOTE: Save all the packaging materials until you are completely satisfied with the machine and have resolved any issues with the distributor, or the shipping agent.***

When unpacking, check the packing list to make sure that all parts shown are included. If any parts are missing or broken, please contact your distributor.

### 4.2 CLEAN - UP

The unpainted surfaces of the machine have been coated with a waxy oil to protect them from corrosion during shipment. Remove the protective coating with a solvent cleaner or a citrus based degreaser.

Optimum performance from your machine will be achieved when you clean all moving parts or sliding contact surfaces that are coated with rust preventive products.

It is advised to avoid chlorine based solvents, such as acetone or brake parts cleaner, as they will damage painted surfaces and strip metal should they come in contact. Always follow the manufacturer's instructions when using any type of cleaning product.

### 4.3 SITE PREPARATION

When selecting the site for the machine, consider the largest size of workpiece that will be processed through the machine and provide enough space around the machine for operating the machine safely. Consideration should be given to the installation of auxiliary equipment. Leave enough space around the machine to open or remove doors/covers as required for the maintenance and service as described in this manual.

It is recommended that the machine is anchored to the floor to prevent tipping or shifting. It also reduces vibration that may occur during operation.

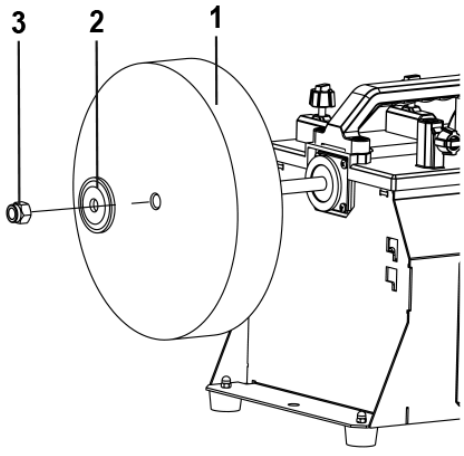
### 4.4 ASSEMBLY

The machine must be fully assembled before it can be operated. First clean any parts that are coated in rust preventative to ensure the assembly process can proceed smoothly.

**Mount The Wet Stone:**

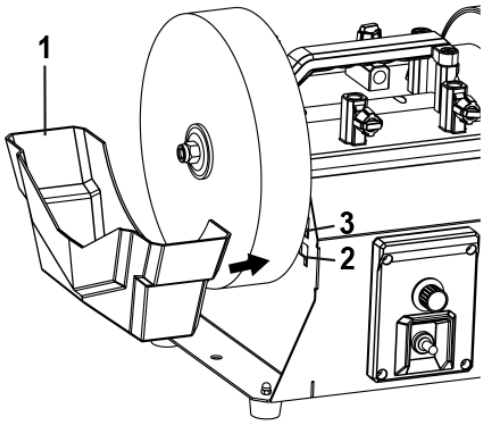
The sharpener is shipped with the Wet Stone (1) off of the machine. Make sure that the machine is not plugged in before assembling the stone onto the sharpener.

Remove the nut (3) and outer flange (2) from the main shaft, slide the wet stone onto the shaft, then reinstall the flange (2) and nut (3) to secure the stone in place.



## 4.4 ASSEMBLY Cont.

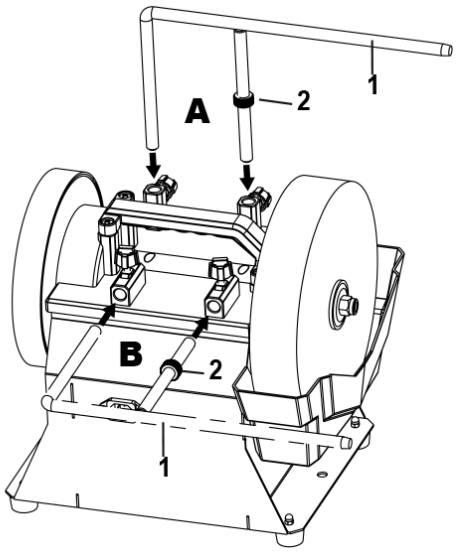
### MOUNT THE WATER TANK




Slide the notches on the water reservoir (1) into the two lower mounting slots (2).

***NOTE: There are two mounting positions on the grinding wheel side of the machine for installing the water reservoir. For new wheels, use the lower mounting slots (2). As the wheel gets used, you will need to adjust the water reservoir to the upper slots (3).***

### INSTALLING THE UNIVERSAL SUPPORT




The universal support (1) acts as both a work rest and as an attachment arm for various jigs. The universal support can be installed either in the vertical (A) or horizontal (B) position.

Position A - Against Wheel Rotation

Working against the rotation of the blade removes larger amounts of material quickly. Use this method for shaping blades or sharpening axes. The grinding wheel rotates towards you.

Position B - With Wheel Rotation

Working along the rotation of the blade is preferable for more precise jobs that require less material removal. For fine sharpening on tools such as knives, scissors, or other carving instruments, grind with the rotation of the wheel.

The grinding wheel rotates away from you. Use the two-directional power switch to change the direction of the wheels' rotation. Remove the work piece from the machine before changing rotation directions.

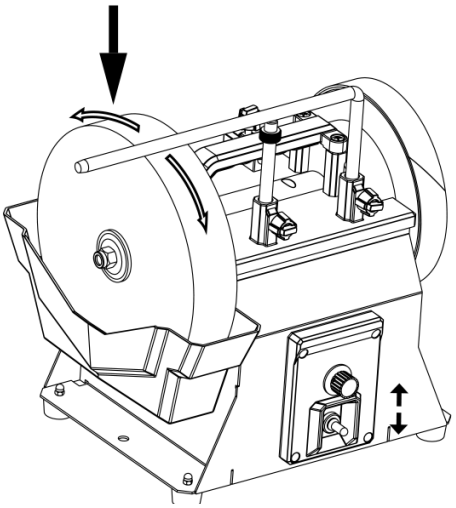
### MOUNT THE UNIVERSAL SUPPORT

1. Select the suitable position for mounting the Universal support. Orient the work support so that the support arm is extended over the wheel you'll be working with.
2. Loosen the mounting locking knobs and slide the work support into the mounting bushings.
3. Adjust the height of the work support to fit your workpiece and operation. Refer to "Angle Guide" for setting up the work support for your blade's bevel using the angle guide.
4. Use the fine adjustment nut (2) on the threaded bar to make fine adjustments to the work support as necessary. Make sure the support arm is completely parallel and level with the face of the wheel, whether it be in the vertical or the horizontal position.
5. Secure the support in place by tightening both locking knobs.

## 5. OPERATION

### 5.1 GRINDING AGAINST WHEEL ROTATION

The sharpener additionally has been outfitted with an electrical power switch that permits the grinding wheel to rotate in the forward and reverse directions.



### 5.2 CONTROLS

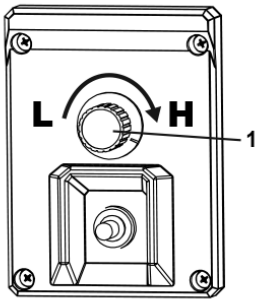
**ON/OFF Switch:**

Flip the power switch up, the grinding wheel rotates counterclockwise

Flip the power switch down, the grinding wheel rotates clockwise

**Variable Speed Knob:**

1. To increase speed, rotate the variable speed control knob (1) clockwise.
2. To reduce speed, rotate the variable speed control knob (1) counterclockwise.

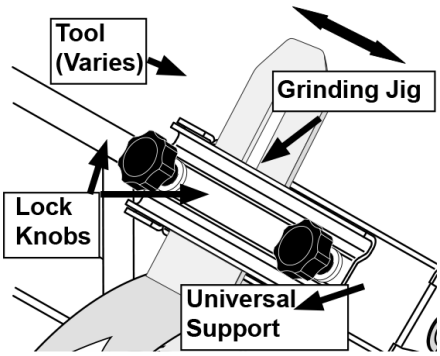



### 5.3 GRINDING JIG

The grinding jig provided with the wet sharpener is used for securing a variety of tools, and can be positioned to grind with and against the wheel rotation.

**To Mount The Grinding Jig:**

1. DISCONNECT THE GRINDER FROM THE POWER!
2. Slide the grinding jig onto the universal support, as illustrated.
3. Insert the tool into the jig clamp, then use the angle guide, as described in the manual, to set the grinding angle.
4. Once the grinding angle is set, tighten both lock knobs to secure the tool in place.

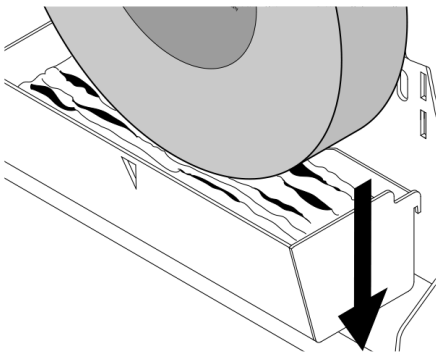



***WARNING!***

***Abrasive sparks from grinding can cause serious and permanent eye damage. Always use a face shield and safety glasses together to insure best eye protection.***

## 5. OPERATION Cont.

### 5.4 WATER RESERVOIR



The wet sharpener is designed for wet grinding and should never be used without water.

The mounting tabs on the reservoir serve as hooks to attach to the reservoir mounting slots.

**To fill and position the reservoir:**

1. Remove the reservoir and fill it with water to just below the V-shaped notch.
2. Attach the reservoir to the sharpener.

***NOTE: If the sharpener is not going to be used immediately, do not put the grinding wheel in water. Remove the reservoir to reduce the likelihood damage to the wheel and potential hazards from being stored in water.***

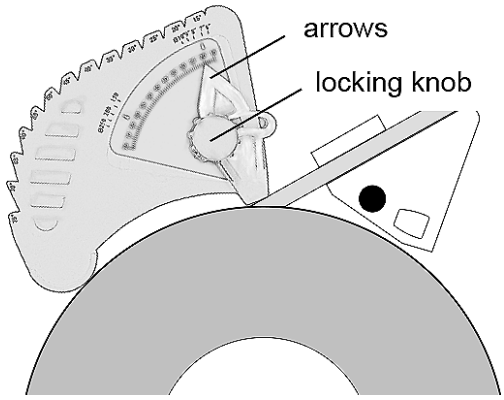
TIPS FOR USING THE SHARPENER WATER RESERVOIR:

1. Check the water level before every use and be sure the wheel is wet before you begin grinding. DO NOT use the sharpener without water
2. Leaving the grinding wheel stored in water will cause damage to the wheel and create potential hazards because the wheel will become unbalanced. Once the grinding process is complete, return the reservoir to the storage position to prevent prolonged water exposure to the wheel.
3. Place a magnet in the reservoir to catch and collect metal fillings. This will help prevent excessive metal accumulation on the grinding wheel.

### 5.5 ANGLE GUIDE

The sharpener comes with an angle guide to help identify and maintain the cutting angle on a variety of tools.

1. Mount the blade in the Grinding Jig and place the support arm in the mount.
2. Use the gauge on the outside of the angle guide to measure the bevel angle of the blade.
3. Loosen the locking knob on the angle guide and adjust the protractor so that the arrows are aligned with the correct grindstone diameter marking.
4. Then set the pointer to the required bevel angle on the blade and tighten the locking collar to lock in position.
5. Thread the grinding jig onto the support arm so that the blade rests against the grindstone.
6. Position the curved foot of the angle guide on the grindstone and the flat section of the pointer on the blade to be sharpened.
7. Use the Support Arm Height Adjuster to adjust the height of the support arm until the flat section on the angle guide pointer lies perfectly flat on the blade.
8. The grinding angle will now be correct.



## 5.6 WHEEL DRESSING

Depending on the type of grinding you do, the grinding wheel may require periodic dressing. A variety of dressing tools are available (not included) and can be used to restore the the abrasive quality of the wheel surface and bring the wheel edge back to the right form. Refer to the instructions that accompany your dressing accessory for complete details on how to properly dress a wheel.

When grinding metal objects they become heated quickly and It is important to keep moving the object back and forth across the face of the grinding wheel and to cool the object frequently using the coolant tray.

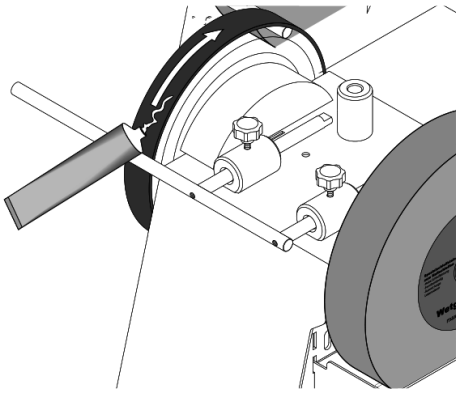
## 5.7 SHARPENING

The leather stropping wheel on the sharpener and the included abrasive stropping paste can be used to obtain a razor sharp edge on many tools. Before use, the stropping wheel must be properly prepared.

***NOTE: A slight wobble of the stopping wheel when it is rotating is normal and does not effect the performance.***

To Prepare The Stropping Wheel:

1. Apply a thin coat of abrasive honing paste to the leather wheel using a wooden spreader or similar device. Distribute the paste evenly by hand-turning the wheel while spreading.
2. Connect the machine to power, then turn the machine on and continue to distribute the paste, still using the wooden spreader. Move the spreader lightly in a circular motion across the wheel.
3. Once the paste is evenly distributed then begin sharpening.
4. These preparations will be sufficient for sharpening five to ten tools. If you notice a drop in sharpening performance or have sharpened more than ten tools, repeat the above steps.



## 6. MAINTENANCE

## 6.1 ROUTINE INSPECTION

Before each use, inspect the general condition of the tool. If any of these following conditions exist, do not use until parts are replaced or the Sharpener is properly repaired.

Check for:

- Loose hardware,
- Misalignment or binding of moving parts,
- Damaged cord/electrical wiring,
- Cracked or broken parts.
- Any other condition that may affect its safe operation.

## 6. MAINTENANCE Cont.

### 6.2 CLEANING & STORAGE

1. Keep the ventilation openings free from dust and debris to prevent the motor from overheating.
2. Use a vacuum or low-pressure compressed air to remove dust and debris from the tool surfaces, motor housing and work area.
3. Wipe the tool surfaces clean with a soft cloth or brush. Make sure water does not get into the tool.

***CAUTION! Most plastics are susceptible to damage from various types of commercial solvents. Do not use any solvents or cleaning products that could damage the plastic parts. Some of these include but are not limited to: gasoline, carbon tetrachloride, chlorinated cleaning solvents, and household detergents that contain ammonia.***

4. Always empty the water reservoir and wait for the grinding wheel to dry completely before storage. Do not store the machine with a wet or damp grinding wheel.
5. Store the tool in a clean and dry place away from the reach of children. Store in temperatures between 41° to 86°F.
6. Cover the tool in order to protect it from dust and moisture. It is referable to store it in its original packaging with the instruction manual and all accessories.

LUBRICATION

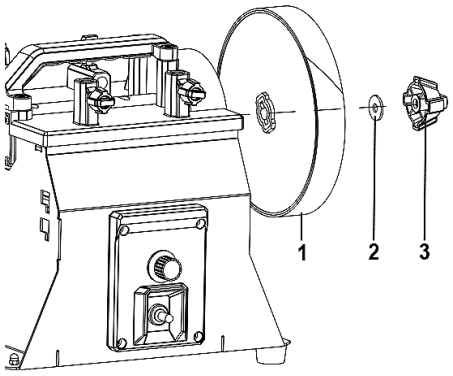
Check the gearbox monthly and add a small amount of white-lithium grease if necessary.

### 6.3 REPLACING THE STROPPING WHEEL

Inspect the leather stropping wheel for any damage or wear before each use.

If the leather stropping wheel becomes damaged or worn, replace it as follows.

1. Unscrew the locking knob (3).
2. Remove the outer flange (2) and stropping wheel (1) from the spindle. Install a new stropping wheel.
3. Re-install the outer flange and locking knob. Tighten the locking knob by hand

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## 6.4 TROUBLESHOOTING

Review the troubleshooting and procedures in this section if a problem develops with your machine. If you need replacement parts then follow the procedure in the beginning of the spare parts section or if additional help with a procedure is required, then contact your distributor.

***Note: Make sure you have the model of the machine, serial number,and manufacture date before calling.***

| Symptoms | Possible Cause | Possible Solution |
|---|---|---|
| Motor will not start. | 1. Low voltage.<br>2. Open circuit in motor or loose connections.<br>3. Blown fuse or breaker. | 1. Check power source for proper voltage.<br>2. Inspect all connections on the motor for loose or open connections. (Contact Service Department.)<br>3. Replace fuse or reset breaker. |
| Motor overheats. | 1. Motor overloaded.<br>2. Extension cord too long and insufficient gauge (weight). | 1. Reduce load on motor.<br>2. Utilize an extension cord of appropriate gauge and length or plug tool directly into outlet |
| Motor stalls (resulting in blown fuses or tripped circuit). | 1. Short circuit in motor or loose connections.<br>2. Low voltage.<br>3. Belt loosen.<br>4. Motor overload. | 1. Inspect connections on motor for loose or shorted terminals or worn insulation. (Contact Service Department.)<br>2. Correct low voltage conditions (for example: improper extension cord length and/or gauge).<br>3. Tighten the drive belt.<br>4. Reduce the load on the motor. |
| Stropping wheel loses performance | 1. Insufficient wheel preparation.<br>2. Wheel is damaged | 1. Prepare wheel.<br>2. Replace wheel. |
| Wavy condition on surface of workpiece. | 1. Machine vibrating.<br>2. Workpiece is not held in place firmly.<br>3. Wheel face uneven. | 1. Make sure machine is securely positioned on a level surface<br>2. Use a holding device to firmly retain the workpiece.<br>3. Dress the grinding wheel. |
| Uneven Grinding/ Poor Performance | 1. Flatten the Stone:<br>2. Glazing<br>3. Loading: | 1. The stone must be perfectly flat for accurate sharpening. Use a flattening stone or plate to remove nicks and dips.<br>2. If the stone feels smooth and fails to cut, it may be glazed. Dress the stone with a sharpening stone grader or diamond dresser to expose new, sharp abrasive grains.<br>3. If the space between abrasive grains is clogged, clean the stone with water and a wire brush. |

## 6.5 WATER MANAGEMENT

**Not Enough Water:** Ensure the sponge is touching the water in the reservoir. If the stone is dry, white powder might form, indicating improper cooling.

**Leaking:** Overfilling the water reservoir can cause leaks from the bottom. Check the water level against the manufacturer's recommendation.

**Irregular Water Supply**: Ensure the water tube or channel is not blocked by stone grit

***WARNING!***

***Make sure the machine is turned OFF and the cord is disconnected from the power source before installing/removing and servicing any component of the machine.***

# WET STONE GRINDER

## WSG-250VS

Order Code: (W652)

The following section covers the spare parts diagrams and lists that were current at the time this manual was originally printed. Due to continuous improvements of the machine, changes may be made at anytime without notification.

HOW TO ORDER SPARE PARTS

1. Have your machines model number, serial number & date of manufacture on hand, these can be found on the specification plate mounted on the machine.

2. A scanned copy of your parts list/diagram with required spare part/s identified.

NOTE: SOME PARTS MAY ONLY BE AVAILABLE AS AN ASSEMBLY

3. Go to www.machineryhouse.com.au/contactus and fill out the inquiry form attaching a copy of scanned parts list.

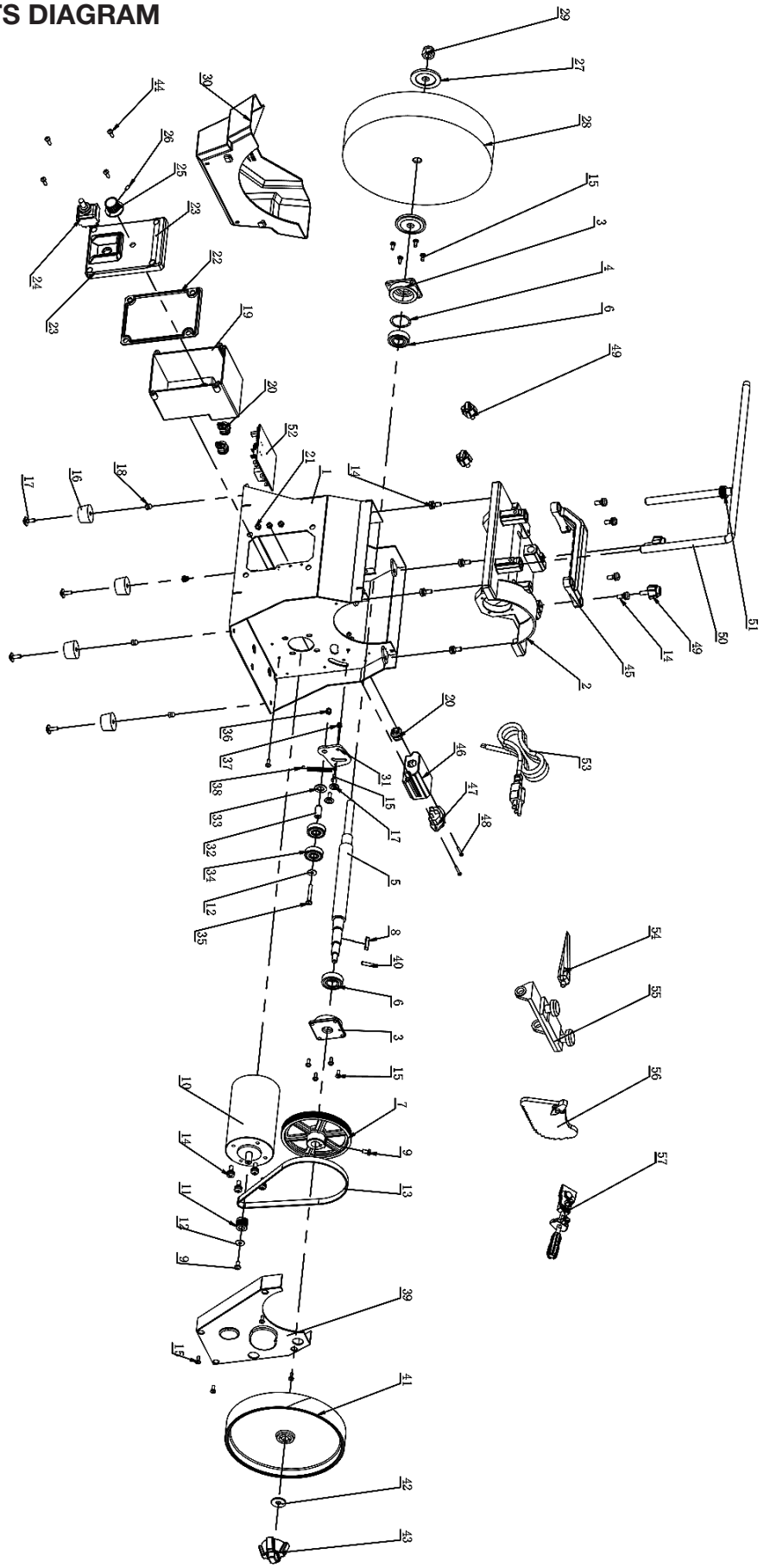
***WARNING!***

***Electricity is dangerous and could cause death.***
***All electrical work must be carried out by a qualified electrician.***

***CAUTION!***

***It is impossible to cover all possible hazards Every workshop environment is different. These are designed as a guide to be used to compliment training and as a reminder to users prior to equipment use. Always consider safety first, as it applies to the individual working conditions.***

## SPARE PARTS DIAGRAM



## PARTS LIST

| ITEM | DESCRIPTION | QTY | ITEM | DESCRIPTION | QTY |
|---|---|---|---|---|---|
| 1 | BASE ASSEMBY | 1 | 31 | BEARING PLATE | 1 |
| 2 | BEARING HOUSING | 1 | 32 | BEARING SHAFT | 1 |
| 3 | BEARING BLOCK | 2 | 33 | WASHER D10 | 1 |
| 4 | WAVE WASHER D35 | 1 | 34 | BALL BEARING 6200-2RS | 2 |
| 5 | MAIN SHAFT | 1 | 35 | PHILIPS SCREW M5X35 | 1 |
| 6 | BALL BEARING 6003-2RZ | 2 | 36 | NUT M5 | 1 |
| 7 | V-BELT PULLEY | 1 | 37 | NUT M4 | 1 |
| 8 | FLAT KEY 5×5×25 | 1 | 38 | TENSION SPRING | 1 |
| 9 | PHILIPS SCREW M5X10 | 2 | 39 | BELT GUARD | 1 |
| 10 | MOTOR | 1 | 40 | ROUND PI 6X22 | 1 |
| 11 | MOTOR PULLEY | 1 | 41 | POLISHING WHEEL | 1 |
| 12 | BIG FLAT WASHER D5 | 2 | 42 | BIG FLAT WASHER A8 | 1 |
| 13 | V-BELT | 1 | 43 | LOCK KNOB M8 | 1 |
| 14 | PHILIPS SCREW M6X16 | 12 | 44 | PHILIPS SCREW ST4.2X16 | 4 |
| 15 | PHILIPS SCREW M4X10 | 14 | 45 | HANDLE ASSY | 1 |
| 16 | RUBBER FOOT | 4 | 46 | SOCKET BOX | 1 |
| 17 | PHILIPS SCREW M5X20 | 6 | 47 | SOCKET | 1 |
| 18 | NUT M5 | 4 | 48 | PHILIPS SCREW M3X20 | 2 |
| 19 | WIRE CONNECTION BOX | 1 | 49 | LOCK KNOB M6X16 | 4 |
| 20 | POWER CORD CLIP 6P4 | 3 | 50 | UNIVERSAL SUPPORT | 1 |
| 21 | PHILIPS SCREW M4X7 | 2 | 51 | ADJUSTMENT NUT | 1 |
| 22 | RUBBER MAT | 1 | 52 | CIRCUIT BOARD | 1 |
| 23 | SWITCH PLATE | 1 | 53 | CORD & PLUG | 1 |
| 24 | POWER SWITCH | 1 | 54 | HONING COMPOUND | 1 |
| 25 | SPEED CONTROL KNOB | 1 | 55 | GRINDING JIG | 1 |
| 26 | BOLT M4X8 | 1 | 56 | ANGLE GUIDE | 1 |
| 27 | FLANGE | 2 | 57 | SHORT KNIFE JIG | 1 |
| 28 | GRINDING WHEEL | 1 | | | |
| 29 | NUT M12 | 1 | | | |
| 30 | WATER RESERVOIR | 1 | | | |

***NOTE: SOME INDIVIDUAL PARTS MAY ONLY BE AVAILABLE AS AN ASSEMBLY***

**NOTES:**

## ENVIRONMENT PROTECTION

Recycle unwanted materials instead of disposing of them as waste. All tools, accessories and packaging should be sorted, taken to a recycling centre and disposed of in a manner which is compatible with the environment. When the product becomes completely unserviceable and requires disposal, drain any fluids (if applicable) into approved containers and dispose of the product and fluids according to local regulations.

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