



# BENCH MOUNTING CHAIN SAW SHARPENER 85W

MODEL NO: **SMS2002C.V2**

Thank you for purchasing a Sealey product. Manufactured to a high standard, this product will, if used according to these instructions, and properly maintained, give you years of trouble free performance.

**IMPORTANT:** PLEASE READ THESE INSTRUCTIONS CAREFULLY. NOTE THE SAFE OPERATIONAL REQUIREMENTS, WARNINGS & CAUTIONS. USE THE PRODUCT CORRECTLY AND WITH CARE FOR THE PURPOSE FOR WHICH IT IS INTENDED. FAILURE TO DO SO MAY CAUSE DAMAGE AND/OR PERSONAL INJURY AND WILL INVALIDATE THE WARRANTY. KEEP THESE INSTRUCTIONS SAFE FOR FUTURE USE.



Refer to instruction manual



Wear protective gloves



Wear ear protection



Wear eye protection



Wear respiratory protection



Keep away from rain



Disconnect from power supply

## 1. SAFETY

- WARNING!** Read all safety warnings, instructions, illustrations and specifications provided with this power tool. Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury.
- ✓ Save all warning and instructions for future reference.

### 1.1. ELECTRICAL SAFETY

- WARNING!** It is the user's responsibility to check the following:
- ✓ Check all electrical equipment and appliances to ensure that they are safe before using. Inspect power supply leads, plugs and all electrical connections for wear and damage. Sealey recommend that an RCD (Residual Current Device) is used with all electrical products. It is recommended the use of a RCD with a tripping current of 30mA or less.
- Electrical safety information.** It is important that the following information is read and understood:
- ✓ Ensure that the insulation on all cables and on the appliance is safe before connecting it to the power supply.
- ✓ Regularly inspect power supply cables and plugs for wear or damage and check all connections to ensure that they are secure.
- ✓ Important: Ensure that the voltage rating on the appliance suits the power supply to be used and that the plug is fitted with the correct fuse. **DO NOT** pull or carry the appliance by the power cable.
- ✗ **DO NOT** pull the plug from the socket by the cable.
- ✗ **DO NOT** use worn or damaged cables, plugs or connectors. Ensure that any faulty item is repaired or is replaced immediately by a qualified electrician.
- ✓ If the cable or plug is damaged during use, switch off the electricity supply and remove from use.
- ✓ If the replacement of the supply cord is necessary, this has to be done by the manufacturer or his agent in order to avoid a safety hazard.

**Ensure that repairs are carried out by a qualified electrician.**

### 1.2. GENERAL SAFETY

- WARNING!** Disconnect the saw blade sharpener from the mains power, and ensure that the cutting disc is at a complete standstill before attempting to service or perform any maintenance.
- ✓ Maintain the saw blade sharpener in good condition (use an authorised service agent).
- ✓ Replace or repair damaged parts. Use recommended parts only. Unauthorised parts may be dangerous and will invalidate the warranty.
- ✓ Locate the cut-off machine in a suitable work area. Use two M8 bolts (not included) to bolt securely to the workbench through the two 1/4 holes on the base. Ensure that the surface is flat and capable of supporting the weight of the sharpener (see fig.1). Keep the area clean and tidy and free from unrelated materials, and ensure that there is adequate lighting.
- ✓ Keep the clean for best and safest performance and check moving parts alignment regularly.
- WARNING!** Before each use check that the cutting disc is secure and that it is not worn or damaged. Test the grinding wheel by running it for a minute prior to its use. **NOTE:** Only competent persons should attempt to change discs.
- ✓ Ensure that replacement discs are not damaged in any way - cracks or deformations etc. Also check the mounting flanges to check that they are not deformed, burred or chipped. **DO NOT** over tighten a disc and never tamper with a disc in order to adapt it to a different size holder.
- WARNING!** Never operate the sharpener without the grinding wheel cover in place.
- ✓ Ensure that replacement grinding wheels meet the speed rating of the tool.
- WARNING!** This machine is designed to sharpen chain saw chains. **DO NOT** attempt to sharpen any other tools and **DO NOT** attempt to grind any other objects.
- WARNING!** Wear approved safety eye protection, ear defenders and gloves.
- ✓ Remove ill fitting clothing. Remove ties, watches, rings and other loose jewellery and contain long hair.
- ✓ Maintain correct balance and footing. Ensure the floor is not slippery and wear non-slip shoes.
- ✓ Keep children and unauthorised persons away from the work area.
- ✓ Keep work area clean and well lit. Cluttered or dark area invites accidents
- ✗ **DO NOT** operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust. Power tools create sparks which may ignite the dust or fumes.
- ✓ Keep children and bystanders away whilst operating a power tool. Distractions can cause you to lose control.
- ✓ Power tool plugs must match the outlet. Never modify the plug in any way.
- ✗ **DO NOT** use any adaptor plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.
- ✓ Avoid body contact with earthed or grounded surfaces, such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded.

- ✗ **DO NOT** expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
- ✗ **DO NOT** abuse the cord. Never use the cord for carrying, pulling, or unplugging the power tool. Keep cord away from the heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.
- ✓ When operating a power tool outdoors, use an extension cord suitable for outdoor use. Use of a cord suitable for outdoor use reduces the risk of electric shock.
- ✓ If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply. Use of an RCD reduces the risk of electric shock.
- ✓ Stay alert, watch what you are doing and use common sense when operating a power tool.
- ✗ **DO NOT** use a power tool whilst you are tired or under the influence of drugs, alcohol, or medication. A moment inattention whilst operating power tools may result in serious injury.
- ✓ Use personal protective equipment. Always wear eye protection. Protective equipment such as dust mask, non-skid safety shoes, hard hat or hearing protection use for appropriate conditions will reduce personal injuries.
- ✓ Prevent unintentional starting. Ensure the switch is in the off position before connecting to power source and/or battery pack, picking up or carrying the tool. Carrying power tools with your fingers on the switch or energising power tools that have the switch on invites accidents.
- ✓ Remove any adjusting key or wrench before turning the power tool on. A wrench or a key left attached to a rotating part of the power tool may result in personal injury.
- ✗ **DO NOT** overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.
- ✓ Dress properly. **DO NOT** wear loose clothing or jewellery. Keep your hair and clothing away from moving parts. Loose clothes, jewellery or long hair can be caught in moving parts.
- ✓ If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used. Use of dust collection can reduce dust-related hazards.
- ✗ **DO NOT** let familiarity gained from frequent use of tools allow you to become complacent and ignore tool safety principles. A careless action can cause severe injury within a fraction of a second.
- ✗ **DO NOT** force the power tool. Use the correct power tool for your application. The correct power tool will do the job better and safer at the rate for which it was designed.
- ✗ **DO NOT** use the power tool if the switch does not turn it on and off. Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
- ✓ Disconnect the plug from the power source and/or remove the battery pack, if detachable, from the power tool before making any adjustments, changing accessories, or storing power tools. Such preventive safety measures reduce the risk of starting the power tool accidentally.
- ✓ Store idle power tools out of the reach of children and do not allow persons unfamiliar with these power tools or these instructions to operate the power tool.
- ✓ Power tools are dangerous in the hands of untrained users. Maintain power tools and accessories. Check for misalignment or binding of the moving parts, breakage of parts and any other condition that may affect the power tool's operation.
- ✓ If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.
- ✓ Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- ✓ Use the power tool, accessories and tool bits etc, in accordance with these instructions, taking into account the working conditions and the work to be performed.
- ✓ Use of the power tool for operations different from those intended could result in a hazardous situation.
- ✓ 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.
- ✓ Have your power tool serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the power tool is maintained.
- ✓ Wear eye protection. Further protective equipment for hearing, head, hands, legs and feet is recommended. Adequate protective equipment will reduce personal injury from flying debris or accidental contact with the saw chain.
- ✓ Follow instructions for lubricating, chain tensioning and changing the bar and chain. Improperly tensioned or lubricated chain may either break or increase the chance for kickback.

### 1.3. GRINDING WHEEL WARNINGS

- ✗ **DO NOT** use a grinding wheel if it is chipped, cracked, or worn. You can check if the wheel has cracks not visible to the human eye by hanging it up by the central hole and tapping it with a non-metal object (i.e. screwdriver handle). If it is in good condition it will produce a metallic ringing sound. A dull sound indicates a crack or break.
- 1.3.1. Only use grinding wheels that fit the arbour 22mm (7/8). Do not try to change or modify the mounting make it fit.
  - ✗ **DO NOT** over-tighten the Grinder Lock Cap (7). Hand tighten it only. Over-tightening may cause the wheel to break or disintegrate.
- 1.3.2. Never use the chain saw sharpener without the Grinding Wheel Cover (5) in place.
- 1.3.3. Always test the Grinding Wheel (6) by running it for a minute prior to contact with a chain.
- 1.3.4. Keep away from the wheel when it is turning, and make sure no one is standing close, in the line of the wheel rotation trajectory.
- 1.3.5. If the grinding wheel vibrates, turn off the machine immediately and check that it is mounted securely and that it is not damaged.
- 1.3.6. Never try to stop the grinding wheel with your hands, even if you are wearing safety gloves. The wheel will cut through gloves and your hand, causing serious injury.
- 1.3.7. Never operate tool without the Grinding Wheel Cover (5) in place.
- 1.3.8. Replacement grinding wheel listed speed must meet or exceed RPM rating of the tool.
- 1.4. **WARNING!** This machine is designed to sharpen chain saw chains. Do not attempt to sharpen any other tools and do not attempt to grind any other objects.



## 2. INTRODUCTION

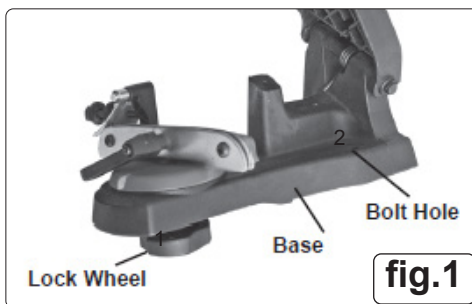
Quick, easy and safe way to sharpen a chainsaw blade. Fitted with a  $\pm 35^\circ$  tilting vice. Will bring life back to blade, enabling safer cutting and limiting snagging.

## 3. SPECIFICATION

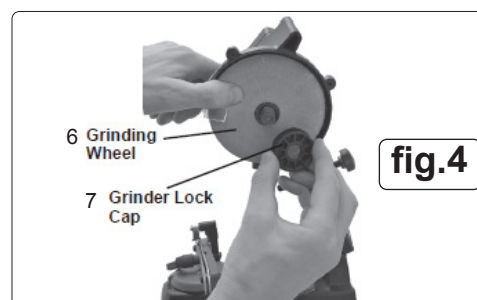
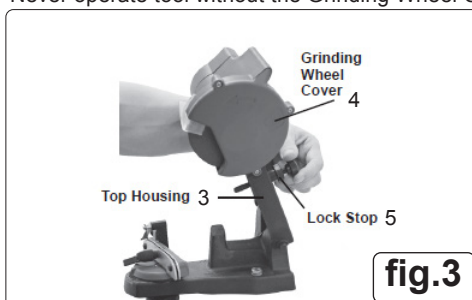
Model No	SMS2002C.V2
Angle Adjustment	$\pm 35^\circ$
Chain Sizes	375 Pitch 'S' BL, 404 Pitch 'S', 3/8 LP 'C' STD, NK, BL, 325 Pitch 'C'
Consumable Parts	SMS2002C.B - Sharpening Blade
Free Speed	4800rpm
Fuse Rating	5A
Motor Power	85W
Nett Weight	2.12kg
Noise and vibration	Sound Pressure Lpa: 80 dB(A), Sound Pressure Lwa: 93 dB(A), uncertainty: 3 dB(A).vibration: <1.8m/s <sup>2</sup>
Plug Type	3-Pin
Power Supply Cable Length	1.8m
Wheel Diameter	$\varnothing 108\text{mm}$

## 4. ASSEMBLY

- 4.4.1. **WARNING!** Always unplug the unit before assembly or maintenance.
- 4.4.2. When installing the sharpener on a workbench, make sure that the Lock Wheel (1) is accessible as shown in the mounting picture in fig.1.
- 4.4.3. Bolt (bolts not included) the unit directly to the workbench through the two 8mm holes on the Base (2). The workbench must have a solid surface capable of supporting the weight of this sharpener, the work-piece and assorted tools. See fig.2.



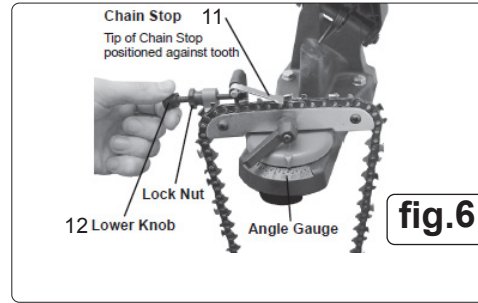
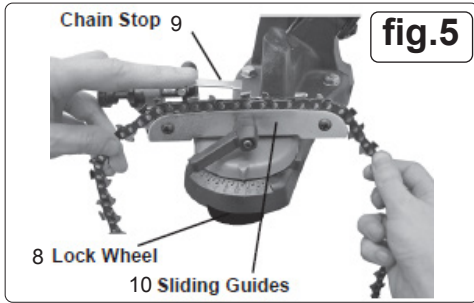
- **WARNING!** Always unplug the unit before changing grinding wheels, or when making any adjustments to the Sharpener.
- 4.1. **MOUNTING A GRINDING WHEEL**
- 4.1.1. Refer to fig.3 and fig.4 below.
- 4.1.2. Raise the Top Housing (3) and lock it in the up position by tightening the Lock Stop (4)
- 4.1.3. Remove the three screws holding the Grinding Wheel Cover (5), Set the cover aside. Unscrew the Grinder Lock Cap (7) that holds the grinding Wheel (6) in place.
- 4.1.4. Install the new wheel on the Grinding Wheel Base (6), making sure it fits properly.
- \* **NOTE: DO NOT** use a grinding wheel if it chipped, cracked, or worn. You can check if the wheel has cracks not visible to the human eye by hanging it up by the central hole and tapping it with a non-metal object (i.e. screwdriver handle). If it is in good condition it will produce a metallic ringing sound. A dull sound indicates a crack or break.
- 4.1.5. Replace the Grinder Lock Cap (7).
- 4.1.6. Replace the Grinding Wheel Cover (5).
- 4.1.7. Release the Lock Stop (4) and lower the Top Housing (3).
- 4.1.8. Never operate tool without the Grinding Wheel Cover (5) in place.



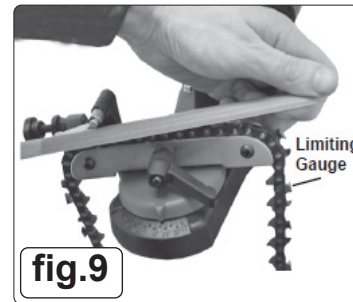
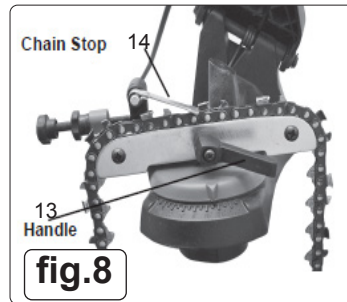
## 5. OPERATION

- **WARNING!** Always unplug the unit while adjusting the chain to be sharpened.
- NOTE:** Raise the Top Housing (3) while adjusting the chain.
- 5.1.1. Clean the chain with a NON-FLAMMABLE solvent before sharpening. **DO NOT** use petrol, methylated spirits or similar products to clean the chain.

- 5.1.2. Lift up the Chain Stop (9) and secure the chain in the sliding Guides (10). See fig.5.
- 5.1.3. Lower the Chain Stop (9) so that it is positioned on the tooth (blade) you want to start with. See fig.6.



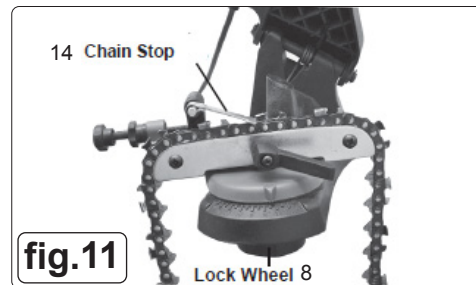
- 5.1.4. See fig's 5 & 6. Loosen the Lock Wheel (8) to allow entire housing to turn. Rotate the housing to match the degree of angle you require on the Angle Gauge. Chains come in various sizes with varying degrees of sharpening angles: Check with your chain manufacturer's manual to determine what degree you need to sharpen at. Once the degree is set, tighten the Lock Wheel (8).
- 5.1.5. Lower the Top Housing (4) so that the Grinding Wheel (8) skims the chain tooth.
- 5.1.6. Hold it at that position while you tighten the Lock Stop (4) so that the Wheel will only go down to that point See fig.7.
- 5.1.7. Depending on the amount of material you wish to remove, tighten or loosen the Lower Knob (12) and set the Lock Nut. See fig.6. The Lower Knob (12) has a Lock Nut, which will determine how much material is removed. Once you set the Lock Nut, fully tighten the Lower Knob (12).



- 5.1.8. Lock the chain in the Sliding Guides(10) by turning the Handle (13). See fig.8.The Handle (13) should be situated so that you can easily release and tighten it. You will need to release it each time you move to the next link, and tighten it to sharpen each link.
- 5.1.9. If the chain has been repeatedly sharpened, the chain depth limiting gauges may need to be taken down with a flat file (not included). See fig.8 & 9. File down each gauge so that they are at a lower level than cutting teeth.

5.1. **SHARPENING**

- 5.1.1. Always wear appropriate clothing and suitable eye protection and make sure the immediate area is clear of bystanders.
  - 5.1.2. Plug in the mains supply and press the green button on the Switch Plate to turn on the machine.
  - 5.1.3. Slowly lower the grinding wheel as shown in fig.10. If you notice slight errors in your settings, turn off the unit and unplug it before you make your adjustments.
- NOTE:** A good grind occurs when the contact between the wheel and the teeth are gradual and smooth. Do not stop too long on each tooth.
- 5.1.4. After sharpening one tooth, turn off the machine. Lift the Top Housing (4), release the Handle (12), and move the chain so that the next link is positioned in the Chain Stop (11). Tighten the Handle (13). Turn the machine back on and continue sharpening the next tooth. Repeat this process until you have sharpened all of the links set up for this angle.



- 5.1.5. After you have finished sharpening all of the teeth on the chain, turn off the machine by pushing the red button on the Switch Plate and unplug the unit.
- 5.2. **NO VOLT RELEASE SWITCH** For your safety this machine is fitted with a no volt release switch and will not restart automatically if the power supply is interrupted. After a power failure the green button must be pressed to resume operation of the motor.
- 5.2.1. Loosen the Lock Wheel (8) and reset the angle so that the first tooth that hasn't been sharpened is positioned against the Chain Stop (14) and locked in as explained in section 5. See fig.11.
- 5.2.2. As you did with the first half of the chain, be sure to lower the Top Housing (3) so that the Grinding Wheel (6) skims the chain tooth, and lock it in place. Follow all of the steps on section 4 double checking everything before you plug in the machine and turn it on again. Remember to turn the machine off and unplug it if you need to make any adjustments.
- 5.2.3. After you repeat all of the steps under sharpening on section 5.1, your chain is ready to be mounted on your saw.

## 6. MAINTENANCE

- 6.1. Keep the Sharpener clean and free of dust, metal debris and dirt.
- 6.2. Check the grinding wheel before each use to make sure it isn't damaged. Do not use a grinding wheel if it is chipped, cracked, or worn. You can check if the wheel has cracks not visible to the human eye by hanging it up by the central hole and tapping it with a non-metal object (i.e. screwdriver handle). If it is in good condition it will produce a metallic ringing sound. A dull sound indicates a crack or break.
- 6.3. Replace the grinding wheel when it grinds down to a diameter of 75mm (3 inches).
- 6.4. **NOISE AND EMISSIONS**

The declared noise emission value have been measured in accordance with a standard test method and may be used for comparing one tool with another. The declared noise emission values may also be used in a preliminary assessment of exposure. The noise emissions during actual use of the power tool can differ from the declared values depending on the ways in which the tool is used, especially what kind of workpiece is processed. The need to identify safety measures to protect the operator that are based on an estimation of exposure in the actual condition of use.



### WEEE REGULATIONS

Dispose of this product at the end of its working life in compliance with the EU Directive on Waste Electrical and Electronic Equipment (WEEE). When the product is no longer required, it must be disposed of in an environmentally protective way. Contact your local solid waste authority for recycling information.



### 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.

**Note:** It is our policy to continually improve products and as such we reserve the right to alter data, specifications and component parts without prior notice.

**Important:** No Liability is accepted for incorrect use of this product.

**Warranty:** Guarantee is 12 months from purchase date, proof of which is required for any claim.



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