



glazesafe

sashmate® 



sashmate side hung

## **SASHMATE® Side Hung STEEL -(series2)**

### **CONGRATULATIONS!**

You have chosen a Glazesafe Ltd tool. Our aim is to provide innovative, quality tools that will make your work easier and safer. We at Glazesafe hope you will enjoy using this tool for many years to come.

### **INTENDED USE**

This Glazesafe Sashmate® Side Hung (series 2) has been designed to assist a professional and experienced glazier carry out repairs to side hung window sashes that are fixed by standard design friction stays/hinges.

### **KNOW YOUR TOOL**

Before using this Sashmate® Side Hung please read this instruction manual carefully and watch the demonstration CD/DVD/Video provided-(if for any reason there was none of the before mentioned please contact Glazesafe before using the Sashmate® Side Hung.)

### **GENERAL**

#### **1. Keep work area clean**

Cluttered areas can cause accidents.

#### **2. Consider work area environment**

Avoid exposing the Sashmate® to rain and do not store in damp conditions.

Keep the work area well lit and remove any possible obstructions, e.g. curtains or nets.

Cordon off an area below the window you are working on, this will help to prevent injury to passers by in the unlikely event that any items are dropped.

Do not use the Sashmate® or the Sashmate® Side Hung if weather conditions are bad as this could present danger and could lead to injury and/or damage.

#### **3. Keep children away**

Do not allow children, visitors or animals to come near the work area or to touch the Sashmate®.

#### **4. Dress properly**

Do not wear loose clothing or jewellery as these can be caught in moving parts. Preferably wear rubber or non-slip gloves when handling the window sash.

#### **5. Do not overreach**

Keep proper footing and balance at all times. Use step ladders or safe platforms to make sure you are working at the correct height and not overreaching.

#### **6. Stay alert**

Watch what you are doing. Use common sense. Do not operate the Sashmate® when you are tired, under the influence or have aches and pains that could affect your ability.

#### **7. Secure work piece**

Make sure at all times that the Sashmate® is securely fitted, all bolts have been tightened correctly and nothing has come loose.

#### **8. Modifications**

Do not carry out any modifications. Glazesafe Limited will not be held liable for any damage or injury that is the result of a modified Sashmate®.

#### **9. Use this tool appropriately**

The intended use is described in this instruction manual. Know the Sashmate's limits and do not exceed them. The Sashmate will do the job better and safer at the rate for which it was intended. Do not force the tool.

**!Warning!** Any operations other than those recommended in this instruction manual may present a risk of personal injury or injury to others.

#### **10. Check for damaged parts**

Before use, carefully check the Sashmate® for damage. Check for misalignment and seizure of moving parts, check for breakage of parts, damage to bolts-including threads and the head, and any other conditions that may affect its operation. Ensure that the Sashmate® will operate properly and perform its intended function. Do not use the Sashmate® if any parts are damaged, defective or missing. Have any damaged or defective parts repaired or replaced by Glazesafe limited. Do not carry out any repairs yourself.

#### **11. Store your idle Sashmate®**

When not in use, Sashmate® should be stored in dry conditions where they can not be damaged and out of the reach of children.

#### **12. Maintain your Sashmate® with care**

Your Sashmate® has been designed to operate over a long period of time with a minimum of maintenance. Over time continuous use and tightening of bolts will leave small burrs and may cause paint to come away from the tool, use fine wire wool to remove burrs this will keep the Sashmate's parts moving freely. If the Sashmate® does get wet dry off and keep in a warm, dry place. Do not use any chemicals to clean your tool.

**13. Extra precautions**

Use appropriate means to prevent damage to property. I.e. dust sheets should be used on the floor where you are working. Also glass suckers can be used when taking in and replacing the window sash. Protection of any roofs or customer property below the work area should also be carried out.

**OVERVIEW (fig. A)**

1. Inner main rod : SHIMR1 (x1)
2. Outer main rod: SHOMR1 (x1)
3. Bracing arm: SHBA1 (x1)
4. Stopper and retaining pin: SHST1 (x1)
5. Set of Velcro rubber pads: SMRP1 (x2)
6. Demonstration CD: SMDV1 (x1)
7. Bolts: SMTS1 (x3)
8. Side Hung Carry Case: SHCC1 (x1)

**ASSEMBLY (fig. B)**

**!Warning!** Do not over tighten screws and bolts as this may damage your tool and could lead to injury or damage to property.

1. Firstly slide 'part 3' the bracing arm over 'part 2' the outer main rod as shown in (fig. B). Then tighten the two powder coated thumb screws 'part 9'.
2. Slide 'part 1' the inner main rod inside the outer main rod.
3. Insert the two bolts 'part 8' into the two holes at one end of the outer main rod and tighten.
4. Insert 'part 4' the stopper into the appropriate hole in the bracing arm according to sash width. Secure with the retaining pin.

**PROCEDURE 1**

Firstly make sure all components are in good working order. Ensure that a sufficient area below is cordoned off and that all persons below and in the work area are made aware of the possible dangers.

1. Release both the two bolts in the outer main rod and the two powder coated thumb screws so that they are slightly loose.
2. Open the damaged sash enough to pass the bracing arm through. Be aware that if the friction stays/hinges on the sash are damaged the sash may be unstable and could fall, leading to possible injury and/or damage to property.
3. Hold the bracing arm in one hand and the outer main rod in the other. Pass the bracing arm through the opening and turn so that it sits under the sash. Let go of the bracing arm.
4. Place the bottom clamp over the profile of the outer frame. Place the top clamp over the profile of the outer frame/transom bar. (Both clamps should be against the vertical/mullion bar of the window frame). Apply an outward pressure to the two rods and tighten the two bolts, one at a time. Check that the two rods are fixed tight to the outer frame and neither rods move in anyway. Check that the bolts are screwed up tight.
5. Raise the bracing arm to meet the bottom of the sash then push open the window so that all hinge fixings are accessible and so that the window sits against the stopper. Tighten the two powder coated thumb screws one at a time.  
Check that the following are true:
  - A. The bracing arm is positioned so that the sash overhangs by approximately 80mm
  - B. The stopper is in the correct hole according to the width of the sash and the sash is against the stopper.
  - C. The retaining pin is in the stopper.
  - D. All screws and bolts are adequately tightened.  
If any of the above are not true readjust the sash and bracing arm.
6. Arrange somewhere in easy reaching distance of the sash that you will be able to place your drill once all the hinge fixings are removed.
7. Remove the bottom hinge fixings. Then remove the outer two fixings to the top hinge, leaving the centre fixing until last.
8. Support the sash with one hand and remove the last hinge fixing, releasing the sash. Be aware that the sash must be supported at all times once the hinge fixings have been released as there is a small chance that the sash could fall.
9. Put the drill down. Now hold the sash with both hands, pull the sash in slightly so the hinges close up. (The top hinge may need to be flicked out of the profile)  
Tilt the top of the sash out slightly and then pull the sash into the building, making sure that your back is straight. Glass suckers may be used to assist you.
10. Carry out the required repairs to the sash.
11. Check that all screws and bolts are sufficiently tight and check your work area is still safe.

**12.** Ensure that your drill and the appropriate replacement hinge fixings are in the pre-arranged area within easy reaching distance of the sash. Pull out the bottom hinge so that it is in the same open position it was in when the sash was removed. Pass the sash out of the opening, top first and place the bottom hinge into the correct position on the profile. Push open the sash on the bracing arm until it meets the stopper which will also open the bottom hinge.

**13.** Support the sash with one hand and pull the top hinge out to its correct position.

**14.** Replace the centre fixing of the top hinge first, followed by the other two top hinge fixings. The sash is now stable enough to stand alone and does not need to be supported, however do not leave the sash unattended for any amount of time. Replace the bottom hinge fixings.

## BREAKDOWN

- 1.** Make sure all the hinge fixings have been replaced correctly.
- 2.** Release the two powder coated thumb screws and drop the bracing arm onto the bottom clamp.
- 3.** Hold the outer main rod and the inner main rod with one hand and release the two bolts, one at a time, allowing the inner main rod to shut into the outer main rod.
- 4.** Hold the outer main rod and the bracing arm and pull the Sashmate inside.
- 5.** Tighten all screws and bolts or dismantle if required.
- 6.** Check the Sashmate over carefully for any damage to parts.

## LIMITATIONS

The standard Sashmate® Side Hung is capable of supporting a sash that is 1350mm in height and 52.5kg in weight. Exceeding these limits may be dangerous and could cause serious injury and/or damage!

It is not advisable to use either the Sashmate® Top Hung or the Sashmate® Side Hung in bad weather conditions.

The horizontal arm should be close to the outside edge of the sash which will take the weight at that point and keep the rest of the weight on the Friction Stays.

The horizontal arm should be as close to 90 degrees from the outer frame as possible to ensure that the weight of the sash is supported by the Sashmate Side Hung in the correct way. ( See Fig. 1)

You may need to position the top and bottom clamps closer to the friction stays to achieve this angle. (See Fig. 2)

If the horizontal arm is adjusted too far in the direction of the hinge side of the opening then the Sashmate Side Hung could slide out of position once a load is applied. Damage or injury could result if this point is not followed correctly.

Fig. 1

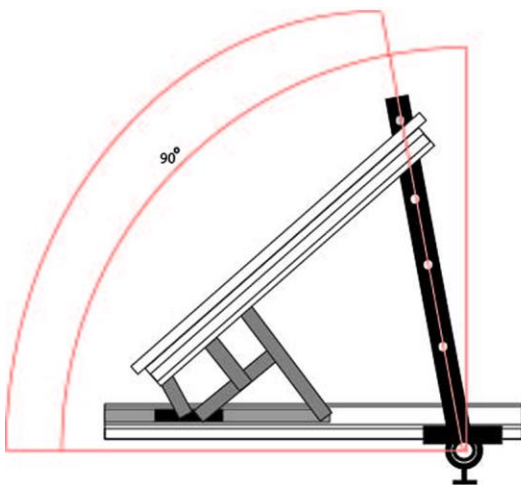
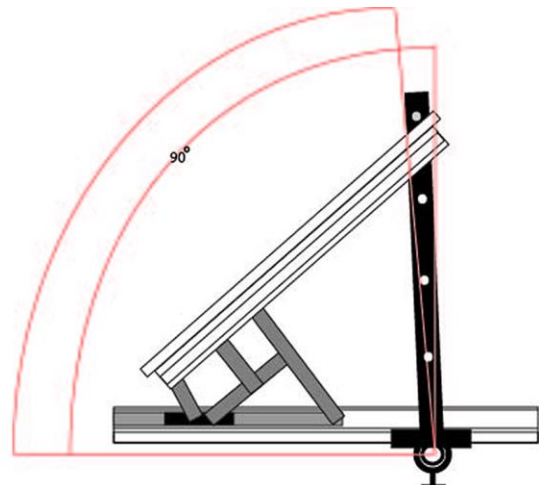


Fig. 2



(fig. A)

1x Inner and outer main rods (SHIMR1) (SHOMR1) Part 1&2

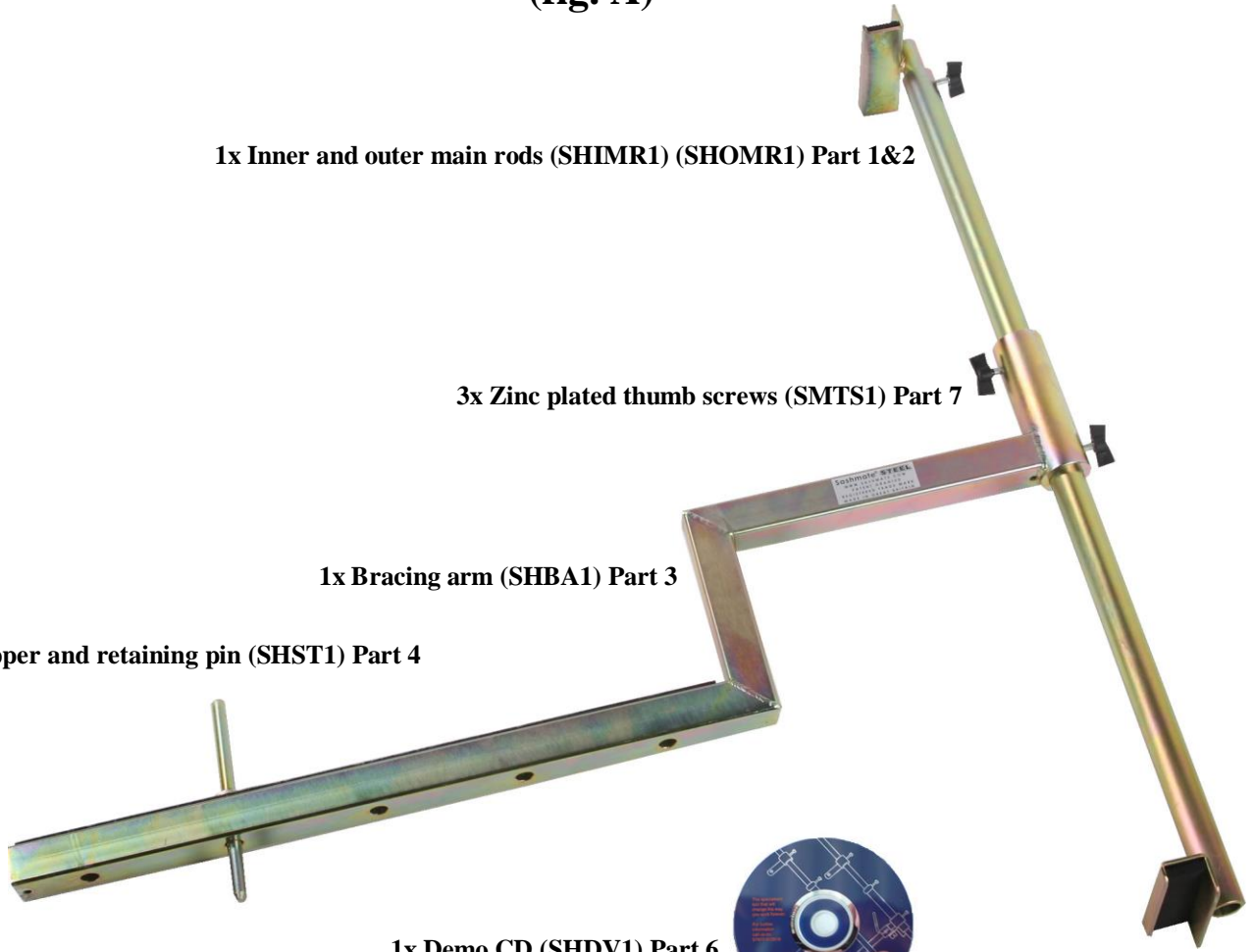
3x Zinc plated thumb screws (SMTS1) Part 7

1x Bracing arm (SHBA1) Part 3

1x Stopper and retaining pin (SHST1) Part 4

1x Demo CD (SHDV1) Part 6

1x Side Hung Carry Case (SHCC1) Part 8



## **CONTACT DETAILS**

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