

SABER MAX BELT CLEANER

[INSTALLATION INSTRUCTIONS]

THE TOOLS & RESOURCES REQUIRED ARE:

- 1. STRAIGHT EDGE
- 2. LEVEL
- 3. TAPE MEASURE
- 4. CUTTING TORCH

- 5. WELDING EQUIPMENT
- 6. CHALK
- 7. ADJUSTABLE WRENCH
- 8. STRING (36"+)

SHUT DOWN AND LOCKOUT CONVEYOR BEFORE PERFORMING ANY MAINTENANCE

STEP 1

Determine the diameter of the head pulley and the thickness of the conveyor belt. Example: head pulley diameter = 36"(914.4mm), belt thickness = $1\frac{3}{4}"(44.45mm)$. Take one half of the head pulley measurement (in this case 18"(457.2mm)) and add the belt thickness. This will give an effective radius of $19\frac{3}{4}"(501.65mm)$. If the pulley is smaller than 22" diameter, you cannot use the Saber Max on this application.

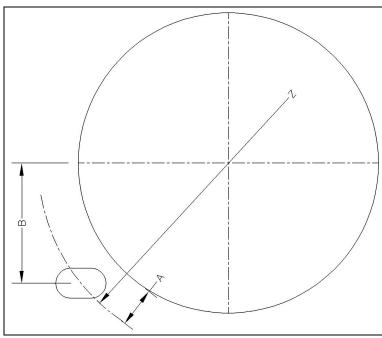


FIG 1

STEP 2

To this number add dimension 'A' (4 1/4" (107.95mm)). This will give you the 'Z' dimension (See Fig 1). To assist in achieving this spacing, urethane installation rings have been provided with the cleaner. Use them as directed in step 7.

STEP 3

Using the 'Z' dimension as described in step 2, use the string and chalk to draw an arc (with radius of 'Z') to define the area for cutting the mounting holes on the chute wall.

STEP 4

From the centerline of the head pulley measure down approximately 12" (304.8mm) (See Fig 1 - Dimension 'B'). This is the highest point that the cleaner should be mounted. It can be mounted anywhere along the radius that was marked off in step 3. The limiting factor is the restriction of a dribble chute or lack of a dribble chute at the point where the belt leaves the head pulley on the return side.

Note: DO NOT install the cleaner within the trajectory of the material.

STEP 5

After you have located the correct position to mount the cleaner, mark two oval shaped holes approximately 3 $\frac{1}{2}$ " (88.9mm) x 4 $\frac{1}{2}$ " (114.3mm) in size. These should now be torched or cut out.

Note: DO NOT use existing holes from another brand of cleaner.

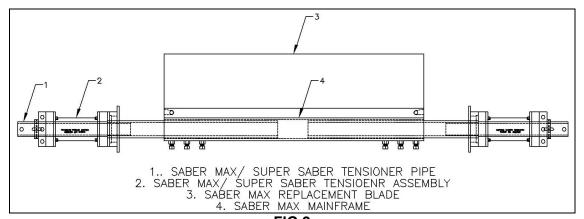
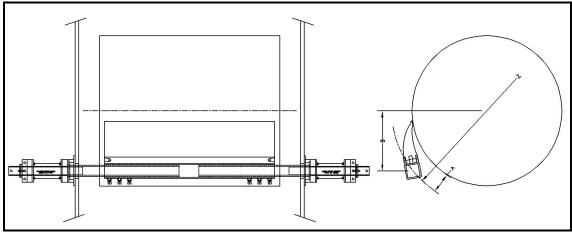


FIG 2

STEP 6

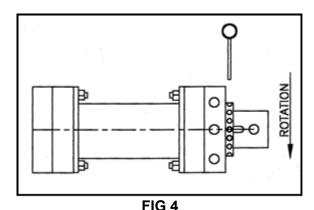
Disassemble the cleaner. This is done by removing the pin on the tensioner (Item 2) at the end of the tensioner hub. Remove the tensioner (Item 2) from the tensioner pipe (Item 1). You will find the tensioner wrench inside the tensioner pipe. Loosen the set screws on the mainframe to allow removal of the pipes. (note: some cleaners will have single tensioners, and large sizes may have dual tensioners).



FIG₃

STEP 7

Put the frame and blade assembly (Items 3&4) inside the chute and slide the pipes (Item 1) through the holes previously cut in the structure. Then slide the tensioner(s) (Item 2) onto the pipes (note cleaner may be supplied with single or dual tensioners). Next, level the cleaner in relation to the head pulley. Verify the 'Z' dimension by slipping the urethane installation rings onto the frame. Once the 'Z' dimension has been verified, tack-weld the tensioner (s) and/or support hubs into place. Set the cleaner blade against the belt and insert tensioner pins into the outer hub on the tensioner(s). Tighten the set screws on the mainframe and complete welding on the tensioners or hubs (4 - 2 " (50.8 mm) welds on each are sufficient). Pull the tensioner pin(s) again to check if the cleaner rotates freely in the hubs. If it does not, realign the assembly until the cleaner rotates freely.



STEP 8

Finally, starting with one side pull the tensioner pin and rotate the tensioner away from the head pulley, until the next hole shows (Figure 4) in the tensioner hub. Reinstall the pin. Repeat this process for the other tensioner if dual tensioners are supplied.

If there are any questions or comments, please contact Arch at 1.800.553.4567.

THANK YOU FOR USING ARCH PRODUCTS!