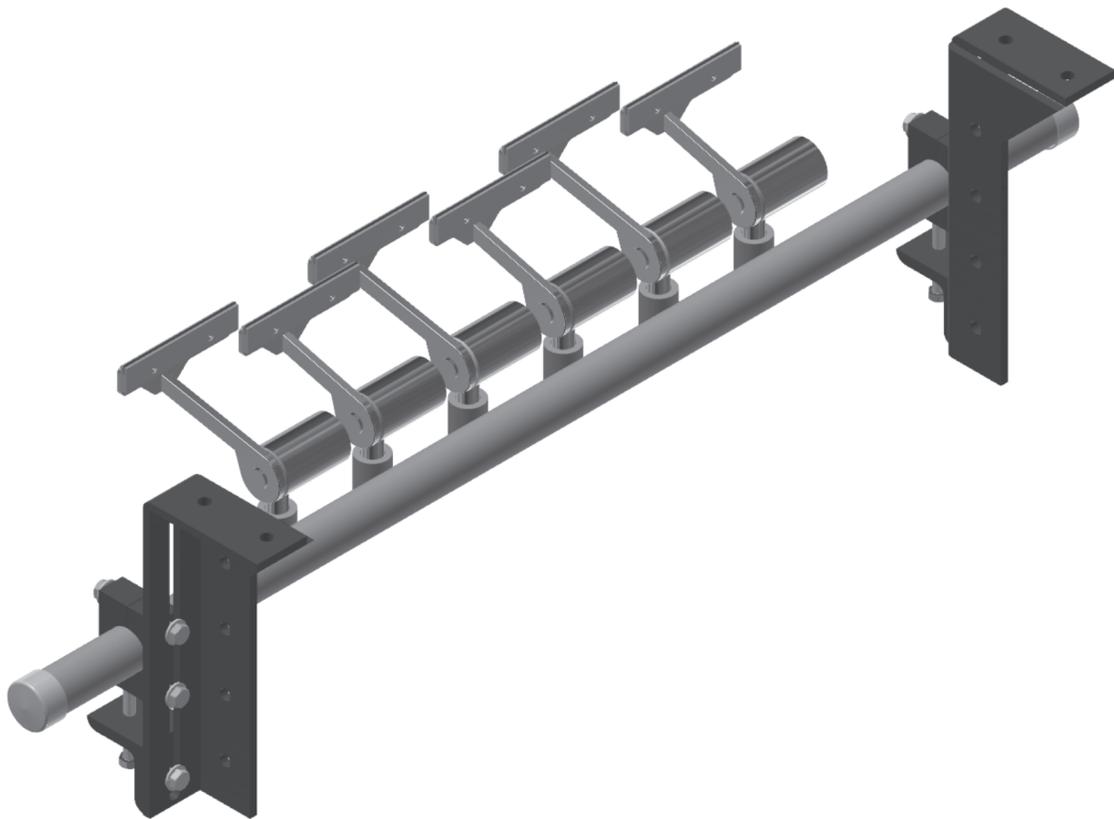




BC-2

with Bolt-Up Tensioner

INSTALLATION, OPERATION & MAINTENANCE INSTRUCTIONS



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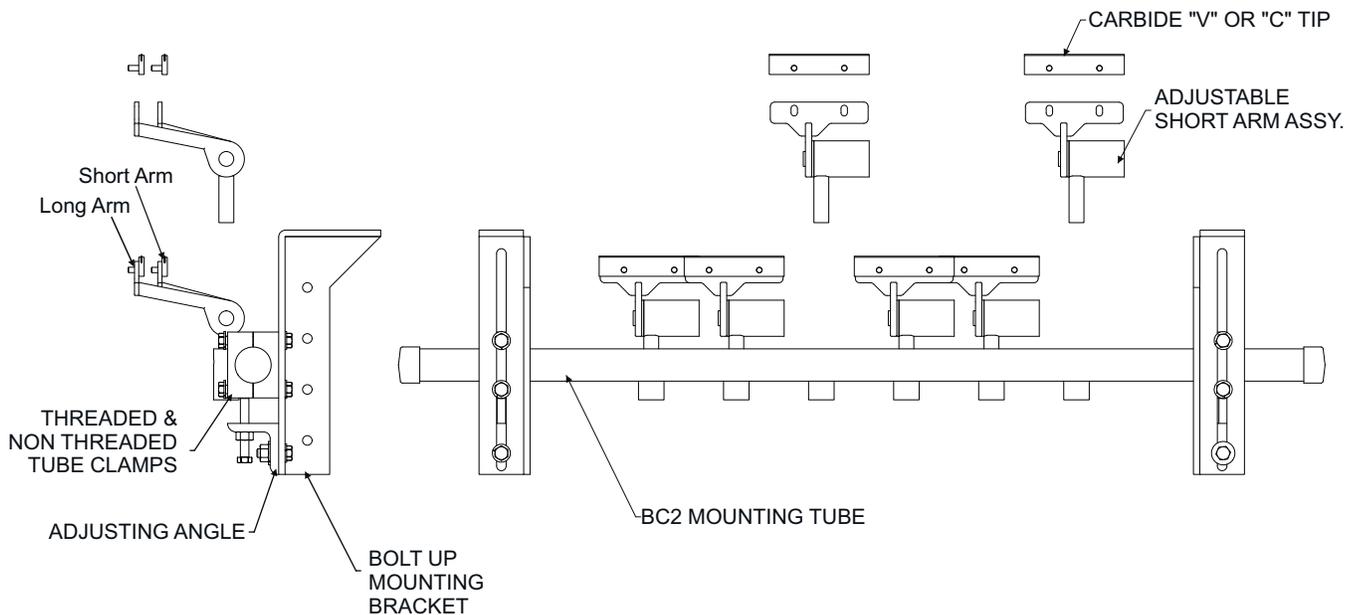
Important Safety Notice

Always observe the basic rules of safety when working with any conveyor system. To avoid injury and equipment damage, be sure that all controls to the conveyor are locked out and the power source is disconnected at all times during installation.

Overall View

If mounting structure is not available, additional steel may have to be added. *Note: Excess mounting tube may be trimmed after installation.*

Components Diagram

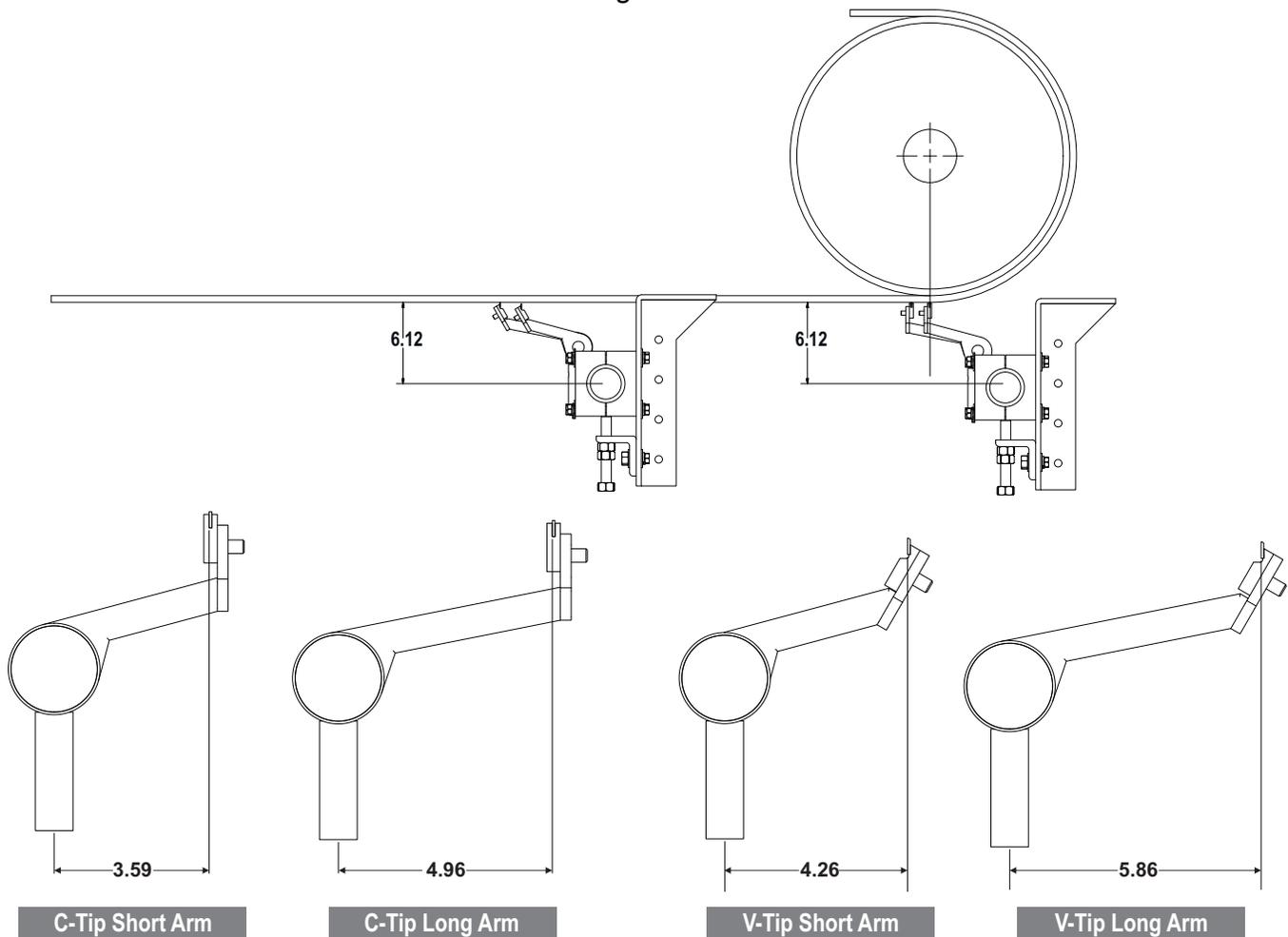


BC-2 is a Secondary Cleaner designed to be installed on the return side of the belt.

1. Determine Cleaner Location

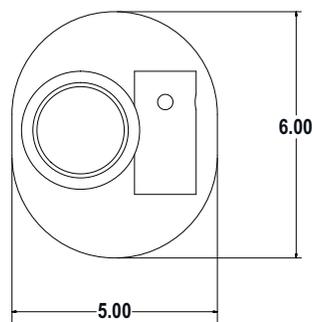
Although BC-2 is a secondary cleaner and as such should be located on the return side of the belt after the belt leaves contact with the head pulley, this system is designed that it will function at the 6 o'clock position on the pulley as shown below. Preferably it should be located within the confines of the head or dribble chute.

Note that the bracket can be flipped either way to bolt to existing structure. See Fig. 2.



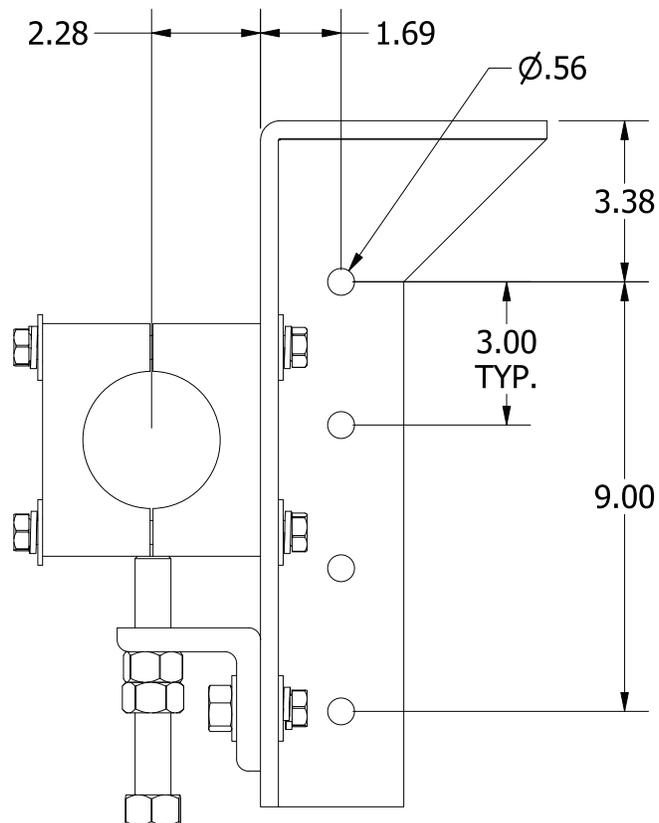
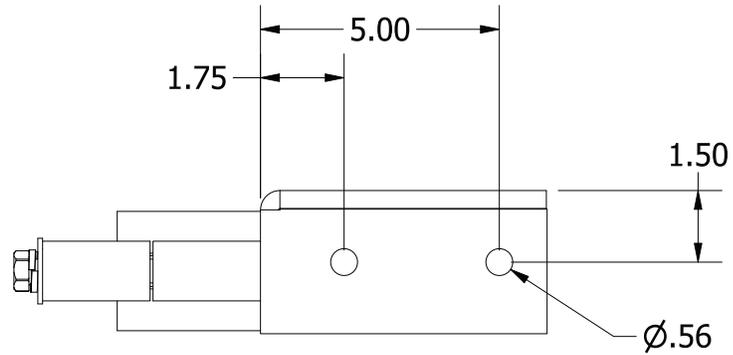
2. Cutting the Chute Openings

If the brackets are to be mounted to an enclosed chute, an elongated hole will have to be cut into the chute wall to allow the mounting tube to pass through from one side of the conveyor to the other. See Fig. 3.



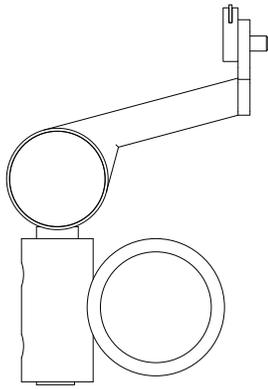
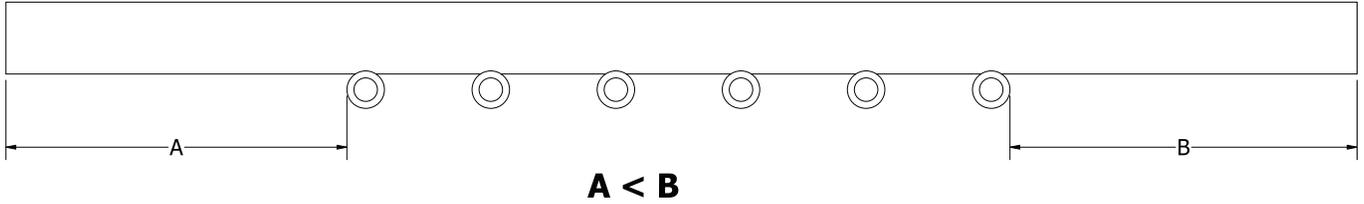
3. Mounting Brackets

Insert the tube with attached blades through the chute cut outs. Determine the desired position of the mounting brackets. Attach the mounting brackets to the chute wall by welding or bolting through the mounting holes along the mounting brackets' length, or to the conveyor frame using the two holes on top of each mounting bracket.

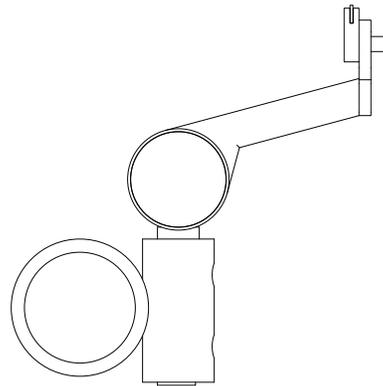


4. Mounting Tube

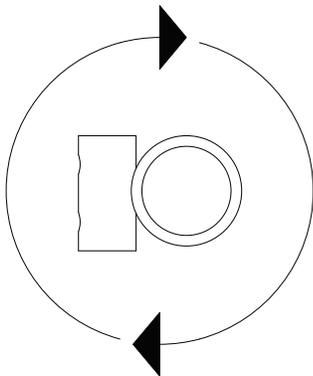
A - Dimension will always be to the left hand side of the conveyor when looking at the tail from the head pulley and **B** - Dimension will always be on the right.



OPTIONAL MOUNTING ORIENTATION



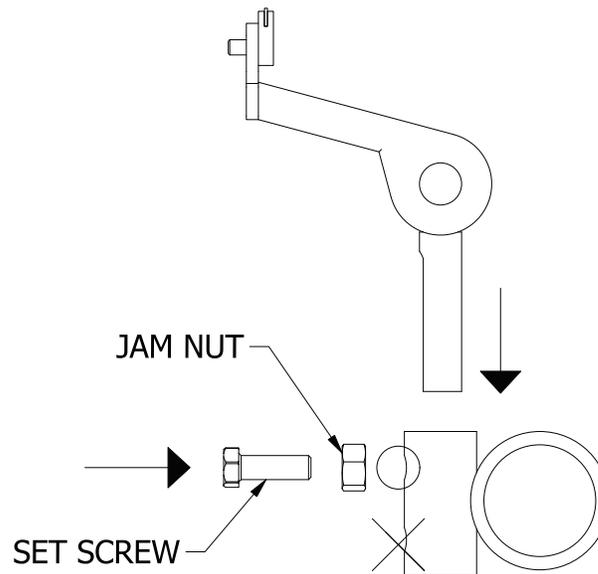
RECOMMENDED MOUNTING ORIENTATION



It is important to note, if using optional mounting positions over recommended mounting positions, rotate tube along the tube axis, not end over end. This will ensure the **A** and **B** sides of the tube remain in the correct orientation.

5. Arm to tube Installation

With mounting brackets bolted or welded in place, insert the tube through the chute cut outs.



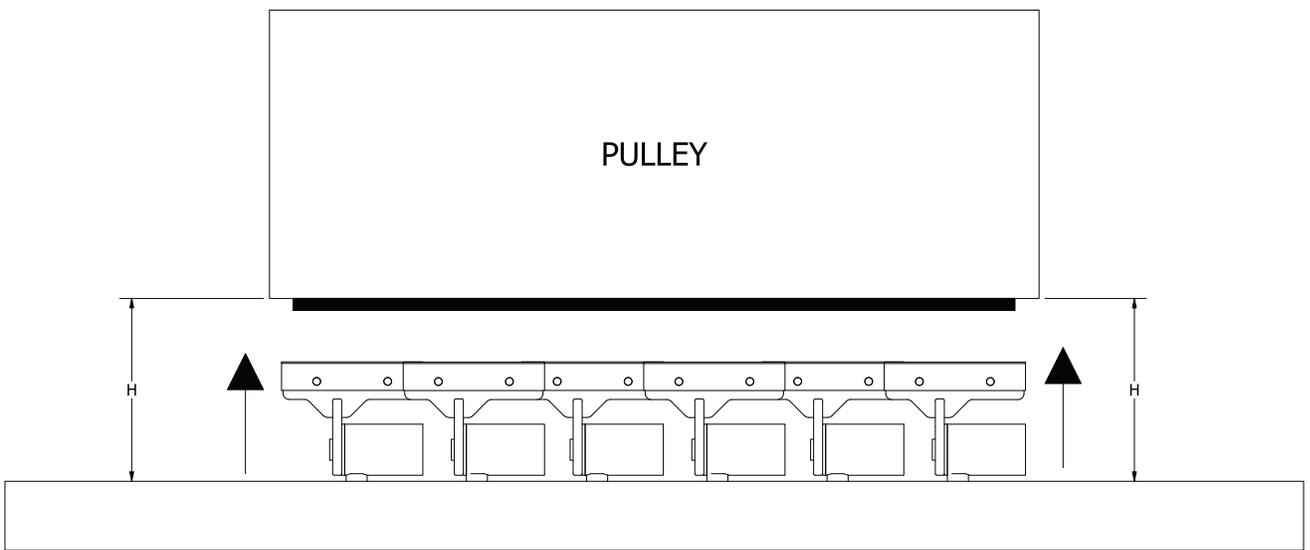
ARM AND SET SCREW INSTALLATION

Arms should be inserted into the mounting tube, alternating short and long arms. On belt widths that have odd numbers of arm modules, more short arms will be included than long arms. Starting with a short arm will ensure correct arm arrangement.

A set screw and jam nut are provided to fasten the arm modules to the tube. Regardless of mounting orientation, the set screw will be inserted in the “Top” hole of the mounting tube. Hand tighten the set screw so that the modules will not move around will adjusting the mounting tube height.

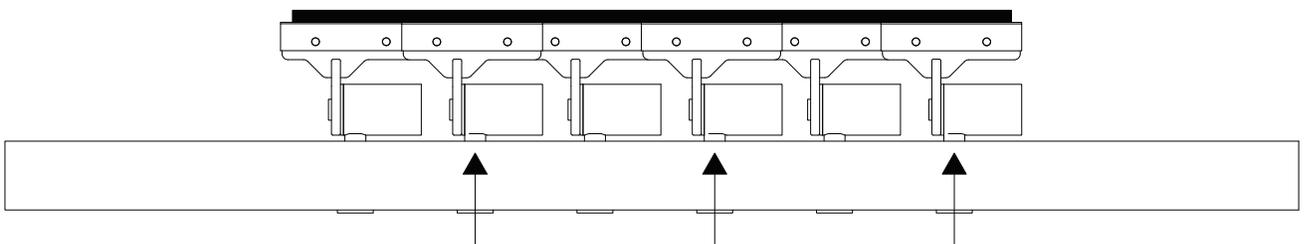
If belt profile is “cupped”, tip angle may be adjusted individually for better belt contact. Fine adjustment may be necessary to avoid any gaps between the tips and the belt. This adjustment will need to be done at the installed location, which may be within a chute or under a conveyor system.

OPERATION



With all modules inserted, bring the mounting tube up towards the belt ensuring the tube remains parallel to the belt line and pulley. It is recommended to have both the tips "bottomed" out in the slots as well as the modules inserted completely into the mounting tube.

Raise the tube until the back arms touch the belt. If the front arms touch first, adjust the rake angle and ensure the arms are fully inserted into the mounting tube.

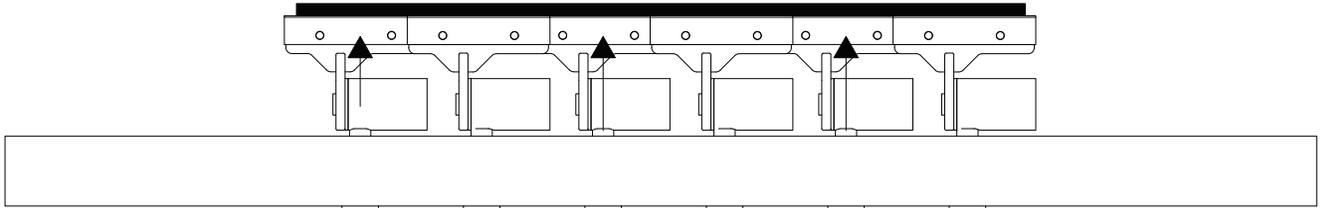


Adjust the short arms up so that the tips contact the belt. Tighten all set screws and jam nuts completely.

Ensure the blade tip is contacting the belt and then tighten lock nuts on the blade tips

OPERATION

continued



Adjust the rear blade tips so that they are fully contacting the belt surface and tighten the lock nuts.

Once belt contact has been made, tighten the adjustment angle lock bolt. Turn the adjustment bolt until the blade tip has moved about $\frac{1}{4}$ ". Tighten the tube clamp lock bolts.

Test run the conveyor. If chattering occurs, loosen the tube clamp bolts and rotate the mounting tube in the direction of belt travel.

MAINTENANCE

After one day of operation:

- 1.) Inspect the cleaner for proper belt cleaning and operation.

Weekly:

- 1.) Frequent inspection is the key to proper belt cleaning and easy Scraper servicing. Weekly inspections are recommended, but actual service frequency may vary widely depending on various plant operating conditions.
- 2.) Wash the entire cleaner regularly to prevent excessive buildup. If material tends to accumulate on the Scraper Assembly then possible scraper relocation may be in order.
- 3.) Carefully inspect the wear tips of the cleaner blades. Make sure blades are not chipped or worn out. (Replace when necessary)
- 4.) Inspect the belt surfaces and edges for cracks, splits, tears, holes or any other worn or damaged condition occurring on the surfaces or edges of the belt itself. If necessary make repairs to the belt.

REPLACEMENT AND RE-TENSIONING OF CLEANER BLADES

- 1.) Lower mounting tube to disengage the cleaner blades from the belt.
- 2.) Remove the clamp block to remove the tube from the mounting brackets.
- 3.) Loosen and remove the nuts holding the blades onto the arms.
- 4.) Remove the worn blades and discard.
- 5.) Position new blades on the arms and reinstall the nuts and bolts to hold the blades evenly across the cleaner edge.
- 6.) Reinstall mounting tube with blades in place and tension according to directions

Information

Key	Description	Part Number
1	Mounting Tube	ASG-BC2-BMT-XX
2	Bolt Up Tensioner	M-NW3-BU
3	C-Tip Blade (6" segments)	ASG-BLD-RZ-6-C
4	V-Tip Blade (6" segments)	ASG-BLD-RZ-6-TC
5	Set Screws	AS-SSH-.38X.75-NCG8
6	BC-2 Short Arm	M-BC2-SARM-(TIP C OR V)
7	BC-2 Long Arm	M-BC2-LARM-(TIP C OR V)

TROUBLE SHOOTING

PROBLEM	SOLUTION
<i>Excess vibration of the scraper.</i>	<p>Make certain all bolts are tight.</p> <p>If belt is non-reversing, rotate the blade about 5 degrees in the direction of the belt movement.</p>
<i>Excess carryback.</i>	<p>Check for proper Scraper tension. Put additional tension on cleaner.</p> <p><i>Check for wear on the cleaning tips</i></p> <p>Check thickness of carryback. If the cleaner must remove more than about 1/8" of material then an additional cleaner may be needed.</p>
<i>Excess belt movement, cupping</i>	<p>Install a hold down roller to stabilize the belt surface.</p>
<i>Unable to tension scraper properly, belt moves away from blades.</i>	<p>Install a hold down roller to reduce sag of the belt when tensioning.</p>
<i>Frozen material on scraper.</i>	<p>Place heaters near scraper to melt frozen material. <i>(Use caution not to burn belt or cleaner)</i></p>