



# Metalfab, Inc.

*Dry Solids Processing Equipment*

P.O. BOX 9, PRICES SWITCH ROAD, VERNON, NEW JERSEY 07462 ♦ 973-764-2000 ♦ FAX # 973-764-0272

## INSTRUCTIONS FOR REPLACING MAIN SLEEVE ON BIN ACTIVATOR POSIBIN

### CAUTION

**When sleeve replacement is required, the bin must be empty and the vibrator must be electrically locked out. Local permits must be obtained as required. Procedures for ensuring “Lockout” of the bin fill equipment must be implemented**

There are three methods of replacing the sleeve according to time, space, available equipment and other installed constraints. Check the estimated weights per the size of the bin activator and ensure that the lifting capacity exceeds the anticipated load by margins approved by local procedures.

STD PROCEDURE: For smaller units 5 foot and under, the bin activator must be supported using appropriate equipment, ie: forklift, overhead crane or (2) come alongs. Once supported, remove the bolts holding the hanger arms to the upper support ring. Remove the clamps holding the main sleeve and lower the bin activator 12” or more.

The existing sleeve can now be removed. The area where the sleeve is clamped should be wire brushed clean.

The new sleeve should now be fitted to the upper mounting ring and clamped in place.

The bin activator can now be raised to engage the sleeve. Using a flat bar similar to a “tire iron” will assist in getting the sleeve in place.

Replace the hanger arm bolts and install the lower clamp.

Note: The nuts used on the hanger arm bolts are ESNA type to prevent loosening when exposed to vibration and should be replaced with new, additionally bolts and isolators should be inspected for wear and replaced as required. Also, after running the bin activator, all nuts and clamp bolts should be retightened.

For larger units, the above can be followed or the following can be used.

### **OPTION (1)**

With a “come along” or hoist of adequate capacity, secure (1) side of the bin activator. Loosen all the hanger arm nuts on the upper hanger arm support brackets. Leave



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several bolts in place opposite the “come along” or hoist support. Undo the clamps on the sleeve and remove the hanger arm bolts in the area of support.

The remaining hanger arms will act as a hinge allowing one side of the bin activator to be lowered. The sleeve can now be removed. Follow procedures above for cleaning and prep of the sleeve area before installing the new sleeve.

The replacement sleeve can be installed to the top ring and clamped in place. The bin activator can now be raised to engage the sleeve.

## **THE ABOVE CAUTION NOTES APPLY**

### **OPTION (2)**

With the hanger arms in place, remove the upper and lower clamps. Remove the existing sleeve. This sleeve can be cut to assist in removal. Clean sleeve area per above procedures.

The new sleeve can now be installed by “threading” through the 1-1/2 gap between the upper mounting ring and the bin activator body. It will take (2) men to work the sleeve through the gap and fit it to the mounting ring and the bin activator. The use of the flat bar “tire irons” is a must for this procedure. This method is the most difficult but may be the only practical method available due to installation constraints.

Follow above procedures for clamps, bolts, isolators, inspections etc.

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