Equipment preparation and installation planning

1. Before attaching to your equipment determine the locations on your machine where you will attach each Swing Alert™ arm based on the following recommendations.
   a. A set of 4 arms should be adequate for a 150-ton to 200-ton class crawler crane. You should maintain an unsupported length of caution tape of approximately 20' to 25' maximum, from arm to arm. If you have distances greater than this a Swing Alert™ set with 2 arms, (SA6-2), can be purchased from your Swing Alert™ Dealer.
   b. The Swing Alert™ is ideal for use on the upper body of a crawler type crane, where the upper body rotates freely above the undercarriage and where extended Swing Alert™ arms are not likely to hit other parts of the crane. If used on a crane where extended Swing Alert™ arms will strike other parts of the crane, for example the driving cab of a truck crane, then the Swing Alert Arms, should be placed on the undercarriage.
   c. The area should be clean; free of mud, grease, oil, excessive dust, or other contaminants that could restrict magnetic attachment of the Swing Alert™.
   d. It should be noted that the magnet has a pulling power of 200#'s however the unit should be placed on the thickest ferrous metal pieces of the machine as possible. (The unit will achieve greater holding force for example on the metal counter weight than it will to the sheet metal portions.)

2. The best method for removal is to fully retract the arm to its shortest length then grasp the tube section as close to the magnetic base as possible and gently tilt the unit until the magnet comes free.

3. Before placing on the equipment make sure you have the room to tilt the arm to be able to remove it.

4. The Swing Alert™ arms should be positioned on the machine so that the accompanying tape can be kept a consistent distance from the machine around its entire perimeter, see drawing A.

5. Once installed on the machine the arms can be extended to the appropriate length for your needs. Note: This length should not be any longer than necessary. The longer the arm extension the greater the possibility of unwanted dislodging of the magnetic connection. The locking arm can be adjusted and the magnetic base spun in any direction in order to properly orient the caution tape at the end of the Swing Alert arms.

Final Adjustment
The best set up will be different for each machine, however some factors to keep in mind when adjusting for the final position of the Swing Alert are as follows.

1. The Swing Alert™ is designed as a swing warning system, not a barricade. The tape should be in such a position that a person does not walk under it, so it should be positioned somewhere between 3’ to 5’ off the ground.

2. When placing the locking pins in the adjustable joint make sure they are put in from the top so that vibration does not cause them to fall out.

3. It should also be noted that even though the unit will breakaway when force is applied on the very end, or when striking an object, it may strike someone that is within close proximity to the machine. Be sure not to install the Swing Alert™ arms in such a manner that they may strike someone in the neck or head.
4. Once you have the arms installed you can now install the tape around the machine placing the tape in the clips in the end of each Swing Alert™ arm as you work around the piece of equipment. The start of the tape should be attached on your first swing arm by wrapping it completely around the arm twice and under both clips. This should hold the tape firmly, if needed you can tie a simple knot (see photo 1). At the next and subsequent arms pull out any slack and wrap the tape around the arm under both clips (see photo 2), this will maintain the proper tension on the caution tape as you continue around the crane. The tape should be tensioned, and when in its final position, located so that it does not drag on the ground or catch the lower parts of the equipment. Continuing completely around the piece of equipment and returning to the arm where you started the loose tag end of the tape can then be secured under the clips that you started with. This end should be wrapped twice under both clips or tied with a simple knot (see photo 1).

5. When moving the crane long distances the arms should be retracted and folded in against the crane body at the locking joint in order to avoid complete removal, reinstallation and accidental dislodging.

Title 29 CFR 1926.550(a)(9) “Accessible areas within the swing radius of the rear of the rotating superstructure of the crane, either permanently or temporarily mounted, shall be barricaded in such a manner as to prevent an employee from being struck or crushed by the crane”

WARNING… Proper personal protective equipment must be worn at all times when working around cranes or other pieces of equipment, including hardhats safety glasses and high visibility vests. All individuals within close proximity of equipment must be trained on the dangers of working around moving equipment.

Never stand or walk within the swing radius of any working piece of equipment!

DISCLAIMER… EJE, Inc., will not be held liable for any damages, losses, or personal injuries due to the misapplication or the misuse of this product or for any other reason, including any consequential damages of lost profits and/or business interruption.

Limited Warranty

In the U.S.A. and Canada, this safety equipment device is warranted by EJE, Inc. to the original purchaser to be free from defects in materials and workmanship for 30 days from the date of original purchase. EJE, Inc. makes no other warranties, express or implied, including implied warranties of merchantability and fitness for purpose.

A-------Swing Alert Arm
B-------Caution Tape
C-------Locking Joint
D-------Clip end
E-------Magnetic Base

DRAWING A above

PHOTO 1 above

PHOTO 2 above