

RE-COIL / Z-BRAKE SET-UP FOR BALANCERS AND LOAD POSITIONERS

The Re-coil / Z-Brake is to be used as safety device only. It is designed to prevent an excessive upward travel speed or "flying hook" condition and engages only when the load hook or suspended load is traveling in the "up" direction. The Re-coil / Z-Brake senses the ascending reel speed and if the speed of the reel overcomes the spring tension of the brake assembly the brake shoe will engage and lock to prevent further upward movement.

The Re-coil / Z-Brake **should not** be used as a means to slow the ascent of a suspended load, nor should the Re-coil / Z-Brake be engaged constantly. Control of the lifting speed of the balancer can be accomplished by proper adjustment of the balancer control package. Refer to the Balance-Air Service Manual or the Parts, Operation, and Maintenance Manual for M-Series Load Positioner.

The correct setting for the Re-coil / Z-Brake will allow the empty load hook or suspended empty handling device/end effector to move through its full range of travel without the Re-coil / Z-Brake engaging. If the Re-coil / Z-Brake engages or a ratcheting sound is heard from the unit, the Re-coil / Z-Brake is set too sensitively. The brake can be adjusted for more or less sensitivity by following the instructions in the manual.

If the Re-coil / Z-Brake engages...

Re-coil / Z-Brake can be reset by releasing the air from the unit. On units with a Series ZA or P control, press the Down Lever on the control handle assembly. If the wire rope does not appear to lower, give the wire rope a tug in the downward direction while depressing the Down Lever on the control handle assembly.

On units with Series BA, EA, E, or S controls, the Re-coil / Z-Brake can be reset by rotating the regulator pilot adjustment screw on the control regulator in a counterclockwise direction while giving the wire rope a slight tug in the downward direction.

If further information is required or if a problem arises with the Re-coil / Z-Brake, please contact the Zimmerman Handling Systems / Ingersoll-Rand Material Handling, Technical Service Department, Toll Free at (800) 347-7047.