



ALUMA-TILT AND INSUL-TILT SPIRAL BALANCE

Installation Procedure (Roll-pin Standard)

Fig. 1

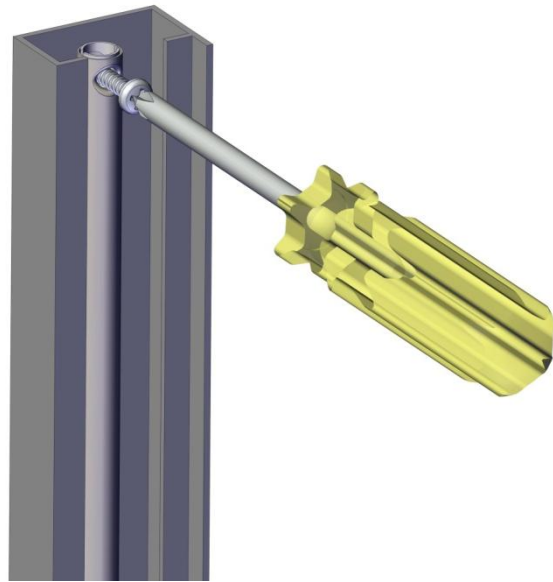


Fig. 2

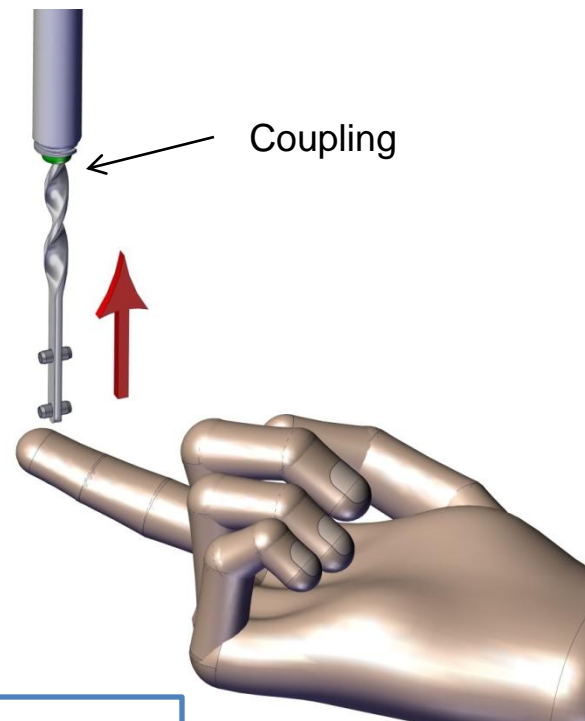
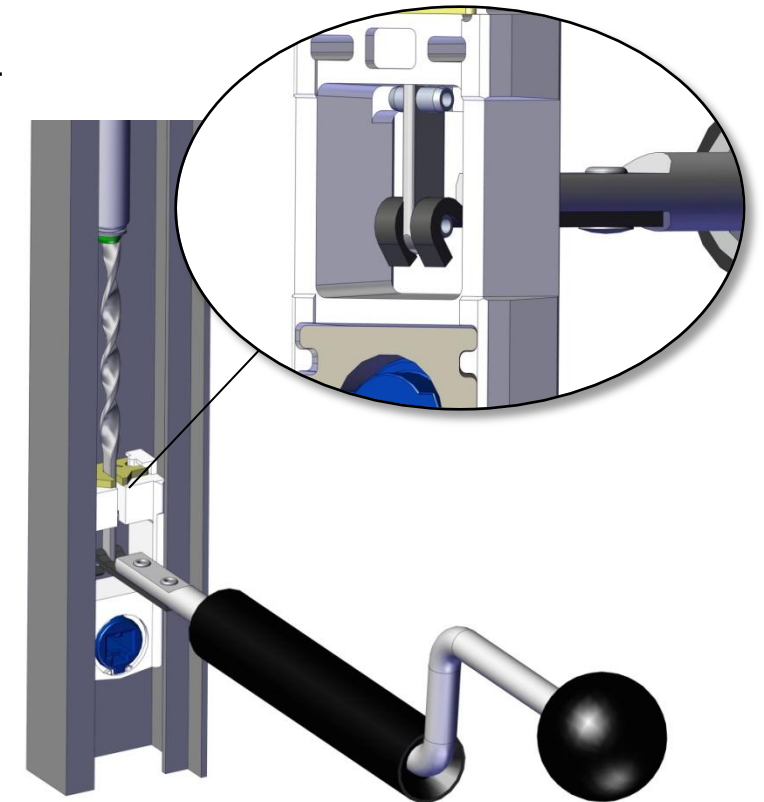


Fig. 3



Fig. 4



Installation and Tensioning Procedures

1. Insert Pivot Lock Shoe (Carrier) into jamb pocket and lock into position to accept engagement of pivot bars when sash is installed into frame.
2. Attach the balance to the window frame using a #8 screw (see Fig. 1).
3. If the spiral rod is more than 2" out of the balance coupling, push the rod with light finger pressure to the fully retracted position inside the balance tube. Allow rod to rotate freely (see Fig. 2)
4. To apply tension, engage lower roll pin on balance rod with the tensioning tool and rotate the required number of turns (Fig. 3)
5. While tensioning tool is still engaged and without releasing applied turns, extend rod and insert the rod into the locked pivot shoe above the upper roll-pin (Fig. 4).

Removal

1. Tilt the sash to expose the balance and the pivot lock shoe in the jamb.
2. Engage the lower roll pin on balance rod with tensioning tool, apply slight downward pressure and pull rod from the shoe.
3. Allow the tool to rotate counter-clockwise until turns are removed.

Caution

1. Never engage the tensioning tool for tensioning if rod is more than 2" out of coupling.
2. Make sure not to bend spiral rod during handling or tensioning.
3. Set tension for the exact weight of the sash. DO NOT over tension (refer to tensioning chart supplied by Caldwell).
4. Be sure spiral rod is properly seated in pivot lock shoe (see Fig. 4).
5. For best counterbalancing action, apply equal tension to balances on both sides of window.
6. Do not over tighten balance mounting screw or you may crush the balance tube.