

# Series 3 Technician's Installation and Service Training Manual

## Commercial Operator Standard Mounting on a solid torsion shaft

### Materials Needed

Appropriate operator for door size. (See Brochure)

### Tools required

3mm Allen Key, 10mm Wrench, drill, 1/4" Drill bit, Appropriate mounting fasteners.

Fully read all instructions provided with the operator.

Remove and separate all contents from the box.

It is important to follow the steps in order to prevent misalignment of the operator.

Locate the torque arm, torque arm bolt and spacer. Attach the torque arm and spacer to the operator into a position that you consider the approximate distance to an open bolt hole on the track assembly. (Figure A)

Slide the operator on the shaft and into position. (Figure B) and check that the positioning of the torque arm is correct. (Figure C)

If necessary, slide the operator off the shaft and adjust the position of the torque arm. Reposition operator back onto shaft. Note-the torque arm should always be positioned in a horizontal manner, never vertically. (Figure D)

Secure the torque arm to the track assembly through an existing bolt hole using either the provided fastener or one of suitable size to accommodate your needs. Tighten the bolt securely into place. (Figure E)

Tighten the bolt on the back of the operator holding the torque arm to the operator.

Using the provided key stock (feather key). Insert it fully into the keyway. (Figure F)

Tighten the set screw securely into place being careful not to over tighten. (Figure G)

Tighten the lock nut on the set screw. Repeat process for second set screw. (Figure H)

Locate the second set screw on the pulley and repeat the processes for tightening the set screw and lock nut. (Figure G & H)

To prevent accidental loss of key stock (feather key) should the set screws accidentally back out, Use electrical tape to wrap the key stock (feather key). (Figure I)



Figure A



Figure B



Figure C



Figure D



Figure E



Figure F



Figure G



Figure H



Figure I

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### ZAP Series 3 Simply Logical

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