

# Series 3 Technician's Installation and Service Training Manual

## Commercial Operator Rear Mount Torsion Mounting

### Materials Needed

Appropriate operator for door size. (See Brochure)

### Tools required

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

Appropriate Bowden Cable for height of door  
(See Bowden Cable section Below)

Part# 900005 Additional Large offset torque arm.

### Assembly and Mounting

Follow the assembly instructions and basic mounting techniques for standard installation on hollow and solid torsion shafts.

It may be necessary to reach around the cable drum if it is mounted to the outside of the torsion shaft bearing plate. To achieve this attach the additional torque arm to the torque arm that is attached to the operator as exemplified in (Figure A)

Follow the standard assembly instructions and basic mounting techniques for a standard installation on hollow and solid torsion shafts.

It will be necessary to change the Bowden to a longer Bowden Cable assembly to accomplish a rear mount torsion application. The following sizes of Bowden cables are available to accommodate different height doors:

Part# 501255 12.30 Feet

Fits low headroom doors to 10' High

Part# 501256 17.75 feet

Fits low headroom doors between 11' to 16' High

It will be necessary to attach the long Bowden cable to the horizontal track towards the header of the door. This can be typically achieved by drilling spaced hole into the horizontal angle iron attached to the horizontal track and utilizing a heavy duty nylon cable tie to secure the Bowden along the horizontal track. (Figure B)

Mount the Bowden cable mounting bracket located at the end of the Bowden cable sheath securely as described in the Bowden cable mounting instruction.



Figure A



Figure B

### ZAP Series 3 Simply Logical

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