

# Series 3 Technician's Installation and Service Training Manual

## Bowden Cable and Over-Ride Lever Mounting

### Tools required

Drill, 1/4" Drill bit, Appropriate mounting fasteners, Appropriate wrenches and screwdrivers.

### Installation:

After the operator has been mounted properly, locate the mounting bracket on the end of the Bowden cable black sheath. (Figure A)

The Bowden cable may be mounted to either the Jamb or the track assembly. If mounting the Bowden cable bracket to the track assembly, you must mount the over-ride lever to the track assembly as well. If mounting the Bowden cable bracket to the door jamb, then the over-ride lever must be mounted to the door jamb as well. Never combine the two methods of mounting.

After locating the Bowden cable mounting bracket, bring it to the desired surface you wish to mount it to, either the track assembly or the door jamb. (Figure B)

Next, lift the bracket at least 6 inches to allow flexibility in the Bowden cable and mark for drilling or mounting. The flexibility created in the Bowden cable is necessary to ensure proper tensioning of the operator belt. This also allows enough flexibility in the Bowden cable to permit the removal of the operator in the event of the need to replace the operator belt after wearing out, without having to disassemble the Bowden cable assembly. (Figure B)

If track mounting, use the drill and 1/4" bit to drill the to marked holes in the track assembly. Using the provided flat head fasteners for mounting the Bowden Cable secure the Bowden cable bracket into place.

If mounting to the door jamb, use a fastener of appropriate size and design for the material to which you are mounting. (Figure C)

It is not advisable to mount the over-ride lever directly to the D shackle. Add an minimum of five lengths of the provided chain to the D shackle to facilitate future adjustment. If extra length is required to reach the desired mounting height of the over-ride lever, attach the provided extension chain to the "D" Shackle on the end of the Bowden Cable and cut the chain at the desired height. (Figure D)

Locate the over-ride lever and adjust the hook out to the fully extended position. (Figure E)

Insert the hook of the over-ride lever into the end link of the extension chain. Pull down on the lever to take up the belt slack on the operator. Position the over-ride lever in the desired location (Figure F) and mark for drilling or mounting. (Figure G)

Remove the over-ride lever from the chain or "D" shackle and mount the over-ride lever in the marked position. (Figure H)

Re-insert the hook into the extension chain and proceed to the Setting proper belt tension with the over-ride lever instruction page.

On the Chain hoist model operator (8826), note that the first push down of the over-ride lever is simply lifting the chain hoist off of the spur gear. A secondary push down on the lever is required to tension the belt.



Figure A



Figure E



Figure B



Figure F



Figure C



Figure G



Figure D



Figure I

### ZAP Series 3 Simply Logical

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