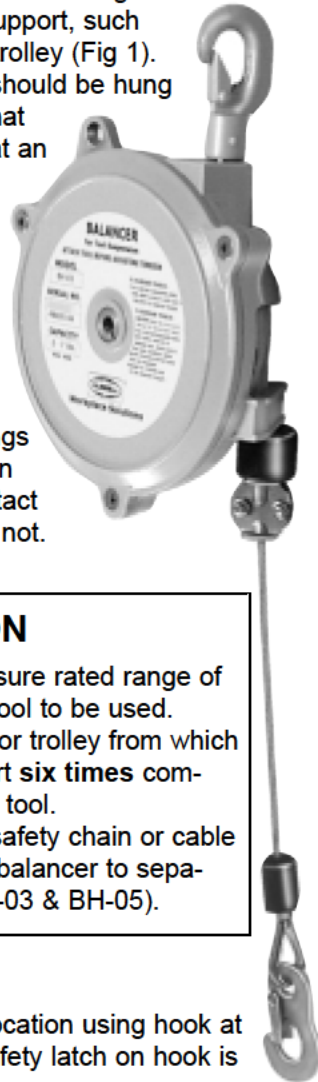


## Installation and Operation Instructions BH-02 through BH-05 Tool Balancers

The BH Balancer is designed to be hung above the work area from a stationary support, such as an eye bolt, or a movable trolley (Fig 1). For best operation, balancer should be hung directly above work area so that tool is lowered vertically, not at an angle, when in use (compare Fig 1-A and Fig 1-B, below). Hanging from trolley with safety cable or chain affixed to second trolley is recommended (Fig 1-C). Prior to installation, check to make sure tool weight including air hose or power cable plus fittings falls within the range shown on the balancer serial plate. Contact your local distributor if it does not.



### ⚠ CAUTION

1. Prior to installation, make sure rated range of balancer matches weight of tool to be used.
2. Check to make sure hook or trolley from which balancer will hang will support six times combined weight of balancer and tool.
3. It is recommended that a safety chain or cable be installed between eye on balancer to separate hanger or trolley (for BH-03 & BH-05).

### INSTALLATION

1. Hang balancer in desired location using hook at top of balancer. Make sure safety latch on hook is in place to prevent unhooking.
2. BH-03 and BH-05 only: Attach safety chain from eye at top of balancer to either a separate support (if statically mounted) or to separate trolley.
3. Attach tool to balance cable by lifting tool to hook. **DO NOT** attempt to pull hook down to tool.

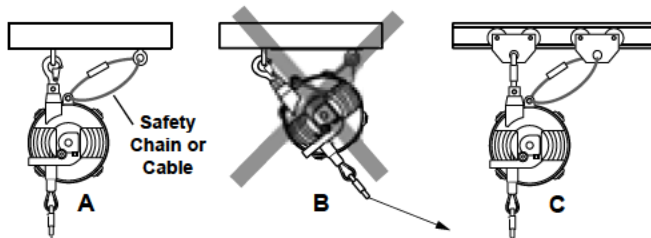


Figure 1

### ADJUSTING TENSION

1. Tension is adjusted by inserting an Allen Wrench into locking wheel at the rear of the balancer (Fig 2). To increase tension, turn the wheel in a clockwise direction. To decrease tension, turn wheel slightly clockwise and lift spring loaded ratchet with screwdriver then turn wheel counter-clockwise. Tool must be supported when adjusting tension to prevent tool from falling.

- A. If balancer will not hold tool in raised position, increase tension by turning wheel clockwise.
- B. If tool is difficult to pull down, decrease tension by turning wheel counter-clockwise.

**NOTE:** Avoid adjusting tension above or below rated capacity of balancer. Tightening spring over its rated capacity will shorten cable stroke and decrease spring life.

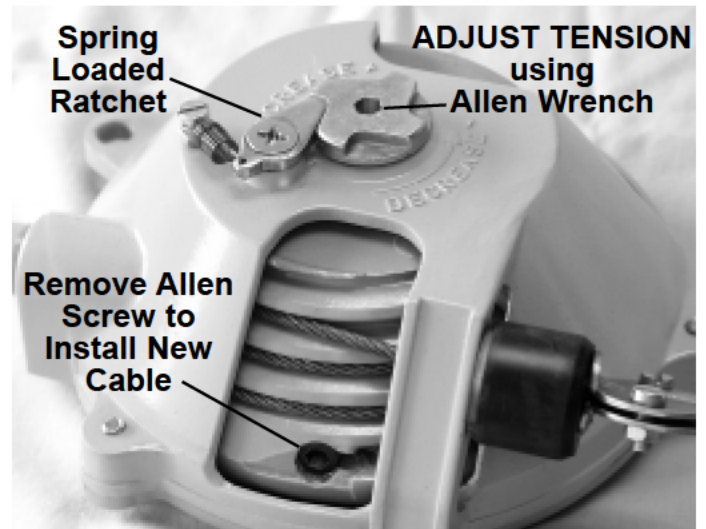


Figure 2

### WIRE ROPE REPLACEMENT

1. Remove all tension from main spring (see above).
2. Remove Allen Screw (Figure 2) from tapered drum. Remove damaged cable.
3. Install new cable, replace screw and re-tension spring.

### ROUTINE MAINTENANCE

1. All bearings are pre-lubricated and require no periodic lubrication.
2. Periodically check both hooks and cable for wear. Replace if hooks or support show excessive wear or if cable is frayed.
3. Periodically check safety chain or cable. Check fasteners for tightness. Tighten as required. Replace chain or cable if there is undue wear.



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