

# Installation and Operation Instructions

## BH-09 thru BH-70 Tool Balancers



### 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. Attach safety chain or cable 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.

### 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.
4. Check to make sure all safety stop pins (Fig 2) are securely in place. Pins must be fully inserted and secured with allen screw. Replace if missing.

### ⚠ 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. A safety chain or cable **MUST** be installed between eye on balancer to separate hanger or trolley.

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.

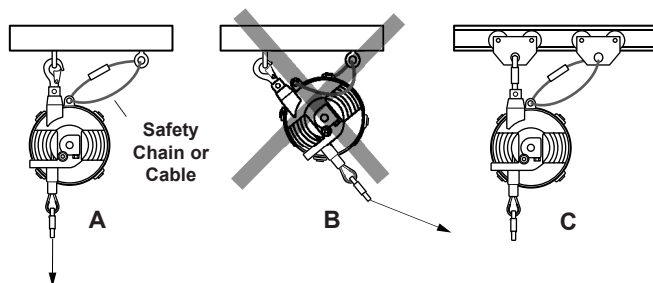


Figure 1



Figure 2

## ADJUSTING TENSION

1. Tension is adjusted by turning the hex drive on the housing at the rear of the balancer (Fig 3). To increase tension, turn the hex drive in a clockwise direction. To decrease tension, turn hex drive counter-clockwise.

- A. If balancer will not hold tool in raised position, increase tension by turning drive clockwise.
- B. If tool is difficult to pull down, decrease tension by turning drive 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. If spring is loosened to lower than minimum capacity, the safety device may engage preventing operation.

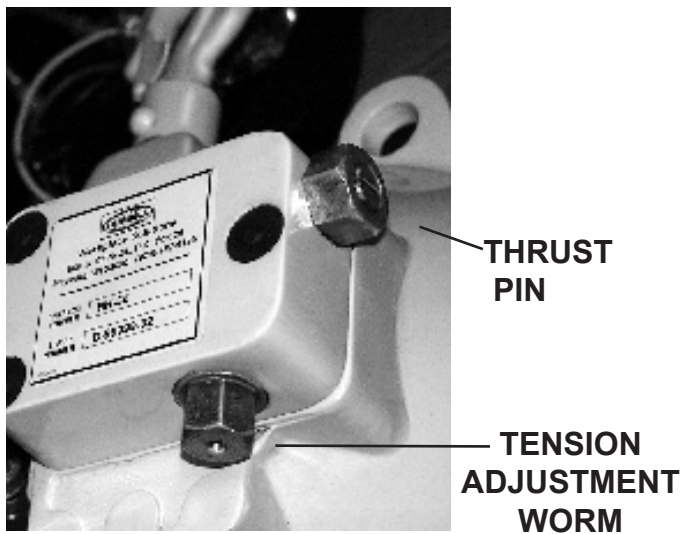


Figure 3

### CAUTION

Do not adjust thrust pin (Fig 3). The thrust pin holds the tension adjustment worm in place and has been factory adjusted.

## PROCEDURE TO DISENGAGE LOCKING DEVICE

In the event that the safety device becomes engaged and locks the spool, follow this procedure to disengage the safety device.

1. Loosen allen screws and remove all safety stop pins.
2. Rotate tension adjustment worm approximately 100 turns in a counter-clockwise direction in order to ensure that all tension is relieved from power spring.
3. Rotate tension adjustment worm 115 to 120 turns in a clockwise position to ensure that the safety pin on the spring/spool assembly is retrieved back into the spool.
4. Hang the tool balancer reel by the upper hook and load the reel with suitable weight within the rated capacity. Pull the load up and down to ensure that the safety pins will not lock the spool, then replace all safety stop pins and tighten allen screws.
5. Hang tool from lower hook on wire rope and adjust tension to desired balance range.

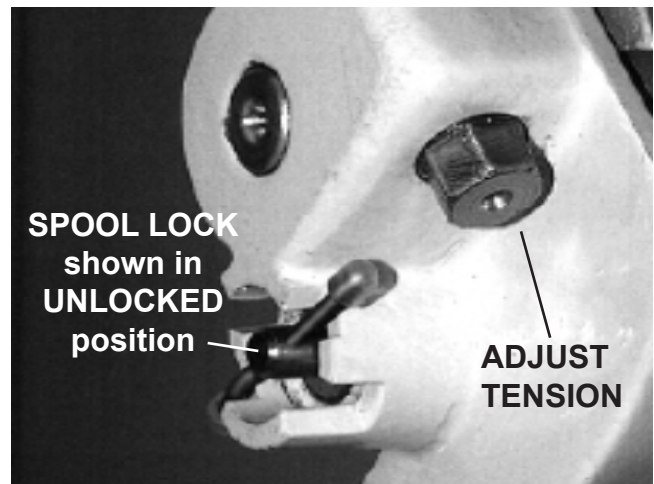


Figure 4

## USING SPOOL LOCK

Activate spool lock (Fig 4) by pulling out slightly and rotating 1/4 turn in a clockwise direction, inserting it into hole in spool. Spool may have to be rotated slightly so lock can line up with hole. Disengage by pulling out and rotating 1/4 turn in a counter-clockwise direction.



Workplace Solutions

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