



Service Manual

Form # SM1100-11 JV
October 10, 1991

The Aro Corporation
One Aro Center
Bryan, OH 43506

Balancer Series 8375-2 & 8375-4

Capacity: 0-4 lbs., 0.0-1.8 kg.

SAFETY

Please read this manual carefully and follow its instructions. The NOTES, CAUTIONS, and WARNINGS carry special messages and should be reviewed carefully.

Note: Notes provide special information for clearer instructions on easier operations.

Caution: Cautions are used as reminders of safety hazards which could result in personal injury if proper precautions are not taken.

WARNING: Warnings are used when hazards exist which could result in serious injury, death or property damage if proper precautions are not taken.

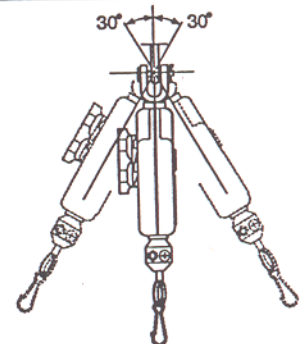
I. Installation

Caution: Operators should be instructed in the safe and proper use and maintenance of this product. Keep this manual for future reference.

WARNING: Improper use or failure to follow these instructions could result in serious injury, death or property damage.

A. Swivel Mounting:

Hang the balancer directly over the work area by the swivel fork provided at the top of balancer. The support component must conform to the guidelines indicated by the adjacent diagram. The support component must allow the swivel fork to pivot 30° from vertical axis, perpendicular to clevis pin axis. Balancer must not be pulled sideways more than 30° or exceed the free play between the support component and swivel fork. To complete balancer mounting, install clevis pin thru swivel fork and support component. Install flat washer and cotter pin onto clevis pin. (See diagram in Sec. II-B.)

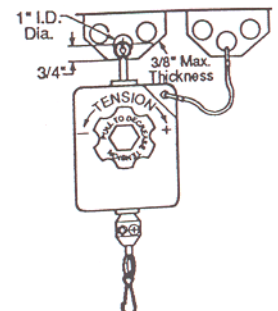
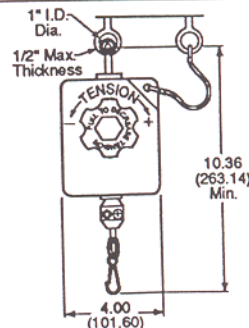


Caution: Discard used cotter pin after each disassembly. Use a new cotter pin when re-assembling clevis pin.

B. Secondary Support:

WARNING: A secondary support chain or cable is strongly recommended for all balancers mounted overhead to protect personnel in case of failure in the mounting components or the structure they are attached to.

Attach one end of secondary support chain or cable to secondary support attaching point on balancer. Attach the other end of secondary support chain or cable to a support component other than that which supports the balancer. The chain or cable should be as short as possible allowing the balancer to drop no more than 6 inches if the primary connection is released.





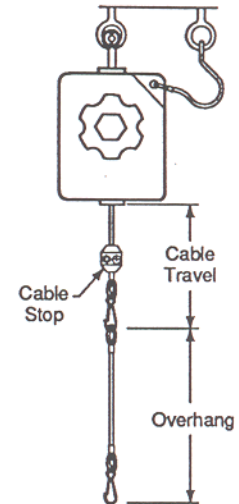
II. Adjustment

WARNING: Never pull cable to device to be retracted. Always lift object to hook; if the hook is accidentally released when extended, it will snap back and could cause serious injury, death or property damage.

A. Tool Attachment:

Balancer is furnished with a tool clip. Attach tool complete with hose or cable and fittings. To adjust length of overhang, remove all tension, then pull cable down and position hook at desired height. Loosen cable stop, then slide cable stop upward to cable guide and tighten. Moving cable stop upward and lengthening overhang of cable will reduce active travel distance. For every foot more of overhang, the active travel will be reduced by a foot.

Overhang can be adjusted by moving the cable stop. If it is determined that the overhang of the reel for the active travel required is not sufficient, an overhang extension cable can be used to extend the overhang without reducing the active travel. This is available as an optional item from ARO-Corporation.



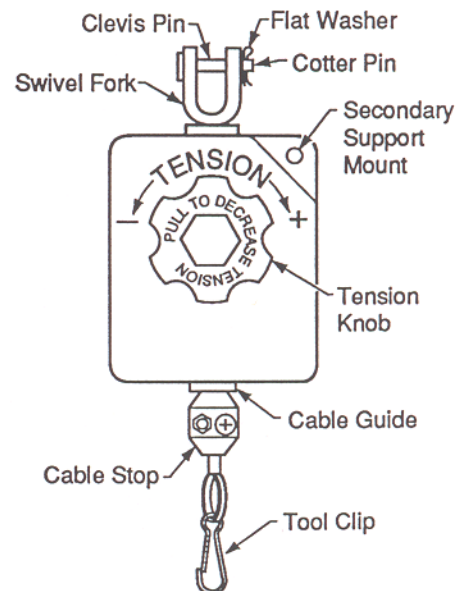
B. Spring Tension Adjustment:

Note: Attach full load including all attachments before adjusting tension.

If the tool attached to the balancer cable descends, there is not enough tension on the balancer mainspring. To increase tension, turn the knob on the front of the balancer clockwise, until desired tension is achieved. Make sure knob has engaged ratchet teeth on front case before releasing knob.

If the cable stop is up tight against the cable guide, there is too much tension on the balancer mainspring. To decrease tension, pull adjustment knob out and turn counterclockwise until the pre-load is relieved from cable stop. Make sure knob has engaged ratchet teeth on front case before releasing knob.

After adjusting tension, pull cable to fullest extension to ensure proper travel is achieved. If cable does not reach full extension, some tension must be released. If proper tension and extension cannot be achieved, consult the factory.



III. Service

WARNING: This unit is not to be disassembled. Opening this unit could result in serious injury, death or property damage.