

## Center Mount Y-Frame Design

IPI Y-Frame height adjusters can be mounted to either 6" diameter (18.9" circumference) or 6 5/8" diameter (20.8" circumference) center drop tubes. Available in either manual operated or electric operated models, each unit makes adjustments from official 10' rim height to 8' rim height quick and easy. Available to adapt to any common backboard size including 42" x 72" or 48" x 72" rectangular or traditional fan shaped.

When raising and lowering, two 1 1/8" galvanized tubular tracks ride in steel guide tubes to provide smooth up and down operation. Easy to read rim height labels insure proper height every time. Specify center drop tube size, backboard type and manual or electric operation at time of order.

## IPHA120YM Manual

The least expensive rim height adjuster. Rim is adjusted by means of a hand crank from the floor. A 3/8" threaded acme lead screw and nut is rotated clockwise to raise goal and counter clockwise to lower. Hand crank is included with each order. If ordering for retrofit, specify 6" or 6 5/8" drop tube diameter and backboard type to insure proper selection.

## IPHA120YE Electric

Simplify raising and lowering goals with IPI electric height adjusters. This height adjuster has similar features to IPHA120YM above but substitutes a 120 volt UL approved linear actuator for the manual lead screw assembly. Linear actuator has adjustable limit switches to automatically stop the goal at official 10' height and at the bottom goal height of 8'. Each electric height adjuster requires 110 volt power that can be hardwired from the ceiling to allow operation with any of our wide variety of control systems or can be operated with a portable wand that plugs into any 110 volt outlet to eliminate the need to hardwire. See BA980EW below. If ordering for retrofit, specify 6" or 6 5/8" drop tube diameter and backboard type along with desired operator control device (see page 12).



Electric Y-Frame

## Operation Options



Manual Operation

### Rim Height Adjusters Operation Options

Manual rim height adjusters (ZipCrank™ and Y-Frame) can be operated with provided hand crank or optional BA931 Cordless Winch Winder. Electric height adjusters can be operated with BA980EW Portable Electric Wand (order separately), BA975KS Electric Key Switch or any of the control systems found on page 12.



## TR86 Youth Mini Goal

Easy Up™ is a great option to reduce goal height to as low as 6 1/2' for youth play without permanently mounting height adjusters that can only lower rim to 8'. Lightweight, easy to install, remove and store. Mounts to any manufacturer's rim without tools in seconds. Moves backboard 2' closer to free throw line.



### BA931 Cordless Winch Winder Kit

Raise and lower manual height adjusters with this 14.4 volt, high torque drill with drive shaft (included).



### BA980EW Portable Electric Height Adjuster Wand

Operate Bison electric height adjusters effortlessly with this 110 volt wand. One wand with customer supplied extension cord will operate all ZipCrank or center strut height adjusters in a complete gym. Keyed switch avoids unwanted use.



BA975KS

### BA975KS Electric Key Switch

Traditional key operated switch with cover. Up-Down labeled cover plates. Also available in 1, 2, 3, 4 and 6 gang box options. Call for details.



BA980EW