

## Pneumatic Air Balancer External Retract Control



Figure 5-3 Balancer With Retract Control

### Adjusting the External Retract Controls

The external safety retract control is factory-set to customer specifications and does not normally need to be altered. However, a change in conditions could necessitate re-adjustment of the pressure setting on the hydraulic shocks.

When you remove the cover from the retract control housing (figure 5-4A), you will see two shocks (figure 5-4B).

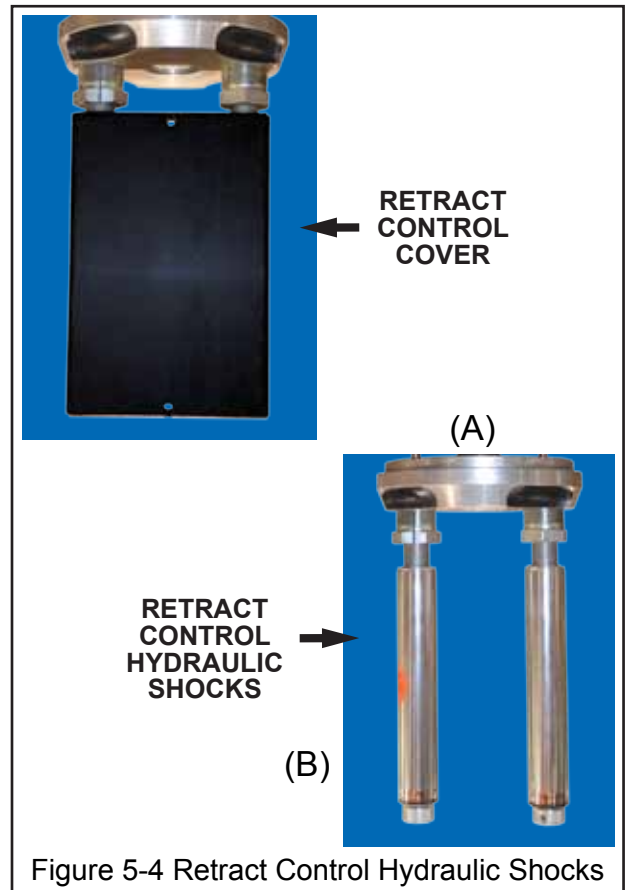


Figure 5-4 Retract Control Hydraulic Shocks

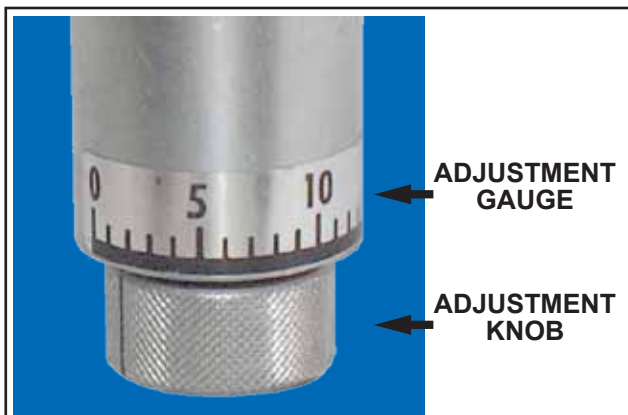


Figure 5-5 Shock Adjustment Knob

### Product Information

Knight Global's external safety retract control (figure 5-3) is a safety feature that regulates the balancer's speed of vertical travel. If a load is lost, the cable on the balancer will not suddenly accelerate upward, because hydraulic shocks put resistance on the thrust bearing.

At the end of each shock is a gauge with an adjustment knob (figure 5-5). Turn the knob to change the setting. The amount of tension placed on the thrust bearing increases when the setting is increased. This, in turn, makes the travel speed slower. Therefore, to adjust the shocks when the weight of the load is changed, turn the knob to a higher setting for a lighter load and to a lower setting for a heavier one.