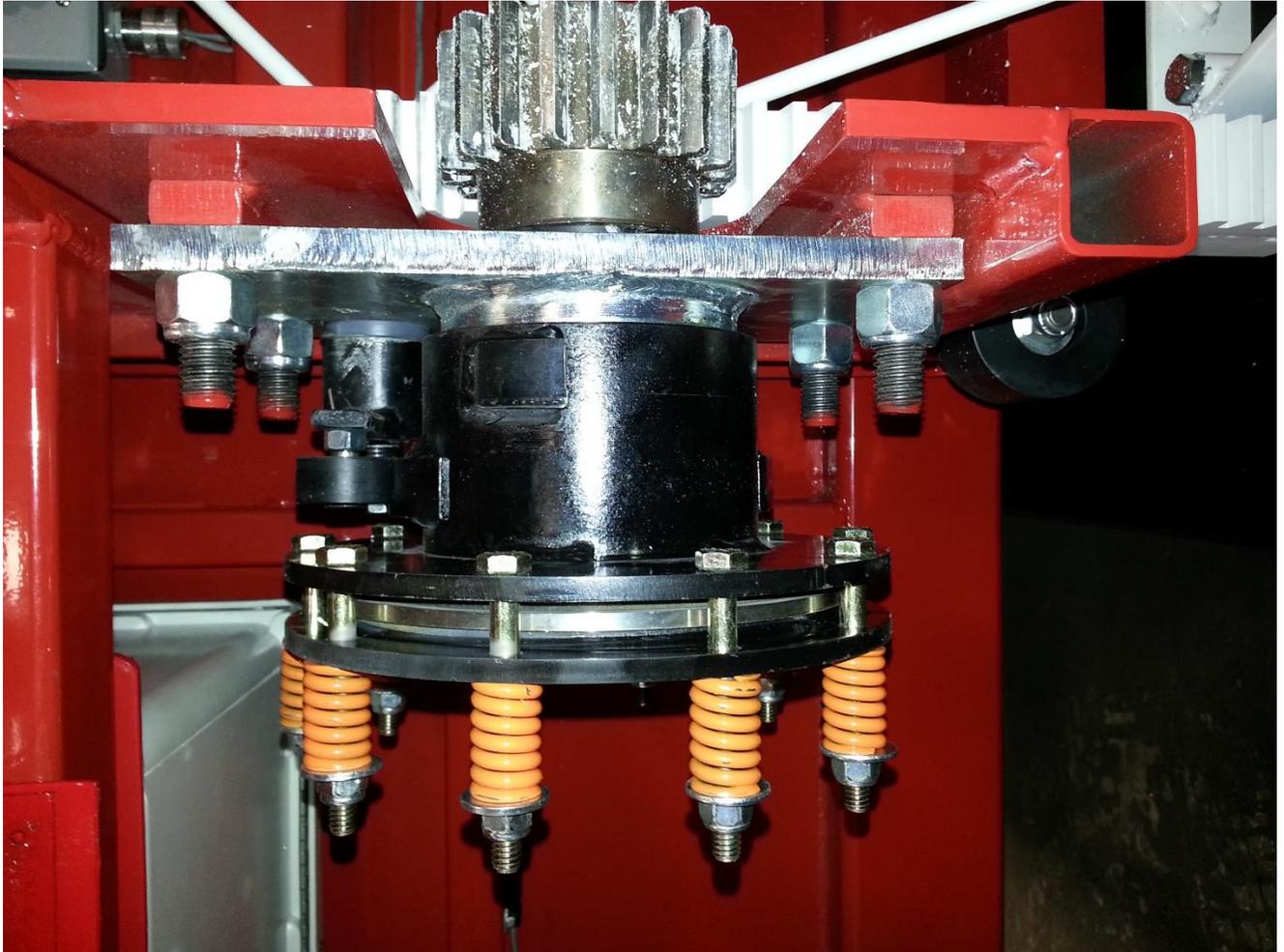


## Hi-Tech Hoist RP Series Over Speed Safety Brake Adjustment & Test Procedure



**Rotary Brake Assembly Mounted On Machine**

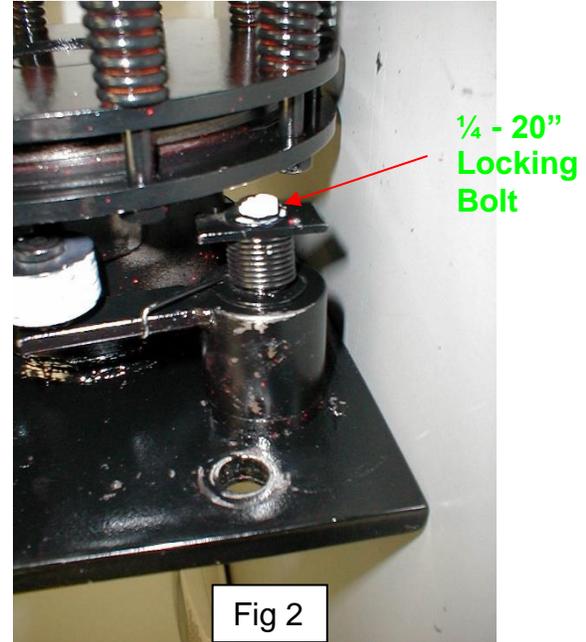
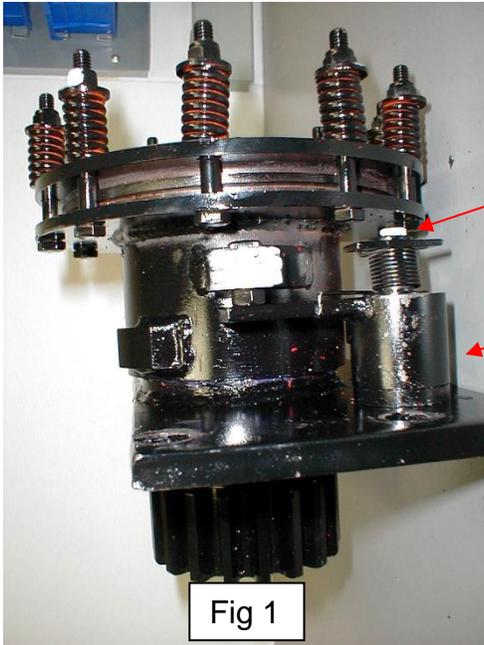
***Note: The brake is adjusted at the factory and should not require any adjustment. Utmost care should be used when working on the brake to ensure that it is functioning properly and safely at all times.***

**-WARNING-  
IF THE BRAKE HAS BEEN SERVICED OR ADJUSTED  
A DROP TEST MUST BE PERFORMED**

## 12.1 Brake engagement adjustment

### 12.1.1 To Adjust The Pawl Spring:

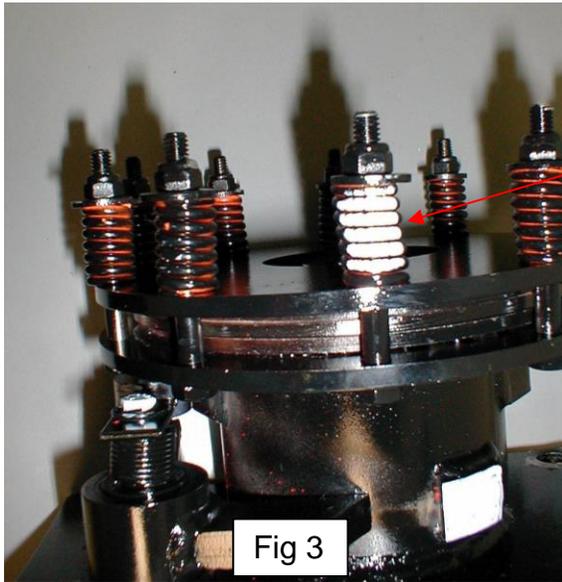
Loosen the  $\frac{1}{4}$  - 20" locking bolt (fig 2). Turning the pawl spring adjuster (Fig 1) clockwise increases pawl spring tension. Less tension allows the brake to engage at a slower speed. Too much tension will prevent the brake from engaging. It should not engage under normal operating conditions. Once the position of the pawl spring adjuster has been determined, tighten the locking bolt while holding the adjuster.



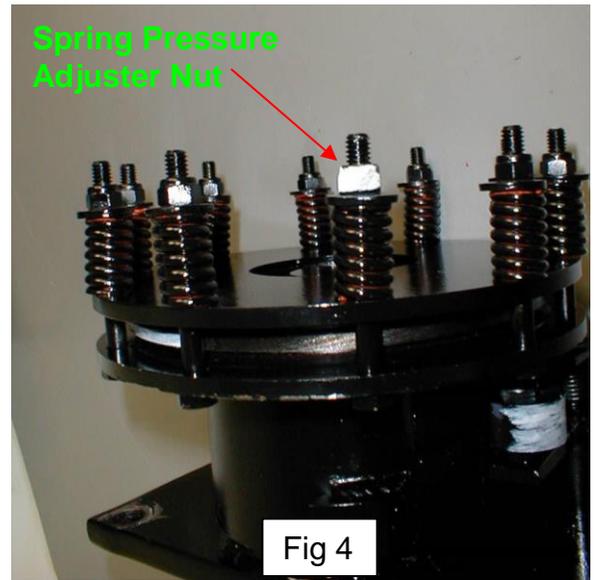
## 12.2 Stopping Distance:

### Pressure Spring Adjustment

Once the brake is engaged, the spring pressure on the pads determines the stopping distance. Increased pressure will decrease the stopping distance. All springs must be adjusted evenly. Using a feeler gauge set, measure near the center of each spring. Springs must be adjusted in small increments, no more than .005" at a time. adjust all pressure springs (fig 3) to .030 using spring pressure adjuster nut (Fig 4).



Pressure Spring



### 12.3 Test Procedure

**WARNING! EXTREME CARE MUST BE TAKEN WHEN PERFORMING THIS TEST. PERSONAL INJURY MAY BE CAUSED DUE TO SUDDEN STOP OR FALLING OUT OF CARRIAGE**

Raise carriage about four feet then place an old tire under carriage. With the technician standing in the carriage lift up the brake bail(s), carefully swing the bails towards the rear of the motor(s). The carriage will start to fall until the rotary brake engages. The carriage should stop in four feet or less. Once the brake has been properly adjusted load the carriage to capacity run carriage up and down, the rotary brake must not engage under normal use it is intended to stop the carriage in the event of an uncontrolled decent.