

A. **Using torque wrench PN:3590-K9**

NOTE: Do not attempt to obtain reading with a foot pound torque wrench placed on the mainshaft or by using other than the WCH torque wrench specified.

Push down on the counterweights to raise the gate arm about 2 feet.

Attach the 7/8" socket attached to the torque wrench onto the hex surface on the motor pinion gear.

Slowly release the counterweight arm and allow the wrench to rotate and rest against the housing. Note the scale reading.

The reading should be between 100 and 120 pounds regardless of the gate arm length.

If adjustment is required, loosen the clamp washer nuts to allow the weights to be moved. If the reading is more than specified, move the counterweights away from the mechanism. If the reading is less than specified, move the counterweights toward the mechanism.

When weights are installed on two counterweight arms, move the weights on each arm proportionally.

After the proper scale reading is achieved, remove the torque wrench. Tighten the clamp washer nuts securely. Be sure the teeth on the clamp washers are securely seated into the teeth in the counterweight arm. Remove the Torque Wrench.

B. **Using spring scale PN: 3562-210**

Attach the 50 pound spring scale to the gate arm at a point located 10 feet from the center of the mechanism main shaft.

Lift the gate by the scale and note the scale reading. The scale reading should be 10 to 12 pounds regardless of the length of the gate arm.

If adjustment is required, loosen the clamp washer nuts to allow the weights to be moved. If the reading is more than specified, move the counterweights away from the mechanism. If the reading is less than specified, move the counterweights toward the mechanism.