

5.4 ACCESSORY TORQUE OUTPUT CALIBRATION

With zero torque on the dynamometer – nothing connected to the shaft:

1. While reading the 5410 Torque Value, adjust the Dynamometer ZERO Control for best zero reading.
2. With a voltmeter resolving at least 0.1 millivolt DC, connected between pins 2 and 4 on the ACCESSORY TORQUE-SPEED OUTPUT connector, adjust trimpot **Qo Bal** for best zero reading.
3. Attach a calibration beam, energize the brake to hold the beam, attach a weight to apply an amount of torque close to the dynamometer full scale rated value. Adjust **Qo Cal** for the correct torque reading on the voltmeter.

5.5 MODEL 5410 SPECIFICATIONS

5.5.1 SPEED ACCURACY

0.05% of the SPEED reading, ± 1.0 rpm.

5.5.2 TORQUE

Basic torque accuracy is controlled by the Dynamometer ZERO and CALIBRATION controls, by the level of care and frequency of adjustment. The Torque conversion elements within the 5410 contribute no more than a temperature related drift of up to $\pm 0.005\%$ °C of ambient change, of reading.

Please refer to your Magtrol Dynamometer User's Manual for additional information on torque accuracy.