## Speed Controller Adjustments

The speed of the motor is controlled by the setting on the Speed Control Potentiometer connected to terminals H S L.

**H preset:** This is the HIGH speed adjustment.
This sets the maximum motor armature voltage.
Set the speed control potentiometer to maximum speed (clockwise) and adjust the H preset to set the maximum required speed. The H adjustment will require slight re-adjustment after adjusting the L preset since the two adjustments are related.

**L Preset:** This is the LOW speed adjustment.
This sets the minimum motor armature voltage.
Set the speed control potentiometer to minimum speed (anticlockwise) and adjust the L preset to set the minimum required speed. The L adjustment will require slight re-adjustment after adjusting the H preset since the two adjustments are related.

**OL Preset:** This is the electronic CURRENT limit. This adjustment sets the maximum current ( torque) limit and is factory set at maximum (clockwise). If reduced (anticlockwise) it will reduce the peak current to the motor. The operating range is 1.5 times the continuous rating of the controller, this allows for acceleration currents.

**IR Preset:** This is the LOAD COMPENSATION adjustment.
This allows the no-load to full load speed loss to be improved.
It is factory set at minimum (anticlockwise) and may be increased (clockwise) to compensate for the fall in motor speed with increase in mechanical load (torque demand). Over adjustment of the compensation preset will result in the motor speed oscillating which is described as motor speed 'hunting'. It is normally adjusted by running the motor at minimum or low speed and adjusting to give the same speed at no load and at full load. If the speed increases at full load reduce the setting slightly.

Note: Minimum = Anticlockwise
Maximum = Clockwise