

## TRIMPOT ADJUSTMENT CHART & PROCEDURES

This chart is to be used with the procedures below and is approximate.

120VAC INPUT; 0-90VDC OUTPUT					240VAC INPUT; 0-180VDC OUTPUT					<u>TRIMPOT</u>	<u>FUNCTION</u>	<u>ADJUSTMENT</u>
<b>HP</b>	<b>C.L.</b>	<b>I.R</b>	<b>MAX</b>	<b>MIN</b>	<b>HP</b>	<b>C.L.</b>	<b>I.R</b>	<b>MAX</b>	<b>MIN</b>	<b>MIN</b>	Sets minimum motor speed when speedpot is set at zero. CW rotation will increase minimum motor speed.	<ol style="list-style-type: none"> <li>1. Set speed pot to zero (fully CCW)</li> <li>2. Rotate MIN trimpot CW until motor starts to rotate</li> <li>3. Slowly rotate MIN trimpot CCW until motor stops.</li> </ol> Note: If motor rotation is desired, rotate MIN trimpot CW until desired MIN speed is reached.
1/8					1/4					<b>IR Comp</b>	Provides a means of improving motor speed regulation in the armature feedback mode. If a slowdown due to load change is of no concern, rotate this trimpot fully CCW.	<ol style="list-style-type: none"> <li>1. Set speedpot at 50%</li> <li>2. Observe motor speed at no load condition.</li> <li>3. Apply full load to the motor</li> <li>4. Turn the IR COMP trimpot CW to obtain the same motor speed as with no load.</li> </ol>
1/4					1/3					<b>MAX</b>	Sets maximum motor speed when speed pot is set at maximum (fully CW rotation). CW rotation of MAX trimpot increases maximum motor speed.	<ol style="list-style-type: none"> <li>1. TURN DRIVE POWER OFF!!</li> <li>2. Connect a DC Voltmeter + to +ARM, - to -ARM.</li> <li>3. Set meter voltage range: (90VDC for 120VAC, 180VDC for 240VAC).</li> <li>4. Turn power on and set speedpot at 100%.</li> <li>5. Adjust Max trimpot to rated armature voltage as shown on meter. NOTE: A tachometer or strobe may be used in lieu of a meter. Follow above steps, except adjust MAX trimpot to rated motor base speed indicated by tachometer or strobe.</li> </ol>
1/3					1/2					<b>CUR.LIM.</b>	Limits DC motor armature current (torque) to prevent damage to the motor control. The current limit is set for the rated motor current. CW rotation of this trimot increases the armature current (or torque produced).	<ol style="list-style-type: none"> <li>1. TURN DRIVE POWER OF.</li> <li>2. Connect a DC Ammeter between A1 on motor and + ARM on Control. This is in series with the motor.</li> <li>3. Turn power on.</li> <li>4. Set speedpot at 50% position.</li> <li>5. Apply friction braking to motor shaft until motor stalls.</li> <li>6. With motor stalled, set current at 125% of rated motor armature current by adjusting CUR. LIM. trimpot.</li> </ol>
1/2					3/4							
3/4					1							
1					1.5							
					2							