Armature Current Parallel combination of R1 - R4 on the back board. Leave the armature current calibration slots blank on the plug-in calibration card. $R_{IA} = \frac{2200}{(I_A - 1)}$ ohms **Field Current** Parallel combination of R10 & R11 on the plug-in calibration card. $R_{10} // R_{11} = 4000$ ohms F For stack controllers with Option 43, high field current option, $R_{10} // R_{11} = 20000$ ohms When the field is in voltage control mode, use the appropriate formula from above and assume the field current to be 0.2 A. Series combination of R8 & R9 on the plug-in calibration card. Armature Voltage $R_8 + R_9 = (Armature Volts - 100)$ Kohms 10 **Tach Feedback** Series combination of R6 & R7 on the plug-in calibration card. For tach feedback voltage (at Max speed) up to 200VDC: $R_6 + R_7 = (Tach Volts - 10)$ Kohms If tach volts at max speed exceeds 200VDC: Set $R_6 = 120K$ and $R_7 = 68K$. Also, an external series resistor $\mathbf{R}_{\mathbf{E}}$ is required at terminal B2, its value given by the formula: <u>(Tach Volts - 200)</u> 5 RE Kohms Power dissipation of $\mathbf{R}_{\mathbf{E}}$ is given by: W (Tach Volts - 200) x 5 Watts 1000

Armature current calibration resistors are to be installed on the back board, as shown below. Do not install any armature current calibration resistors on the plug-in calibration card.



- All 590DRV models are factory calibrated at the full load currents of their respective HP ratings.
- All 590 controller models are factory calibrated at the full current rating of their respective stacks. The User should recalibrate the controller to match the motor armature current rating. See previous page for procedure.
- All external stack drives are shipped with the field in 'Voltage Control' mode and calibrated at 0.2 amps. If Current control mode is desired, the User must calibrate the controller to match the rated field current of the motor. See previous page for procedure.