ULTRASONIC BOARD CALIBRATION (P/N 9060) FOR E SERIES MACHINES

- 1. EQUIPMENT REQUIRED:
 - Oscilloscope with high impedance, low capacitance probe
 - Multimeter

<u>Note!</u> All following measurements are made with respect to circuit common groundthe heat sink that the board is mounted to.

- 2. DC VOLTAGE VERIFICATION:
 - Turn on bonder main power.
 - Using DC volt meter, verify the DC voltages at the test points as follows:
 - TP2 for +12 VDC
 - TP3 for -12 VDC
 - TP5 for 0 VDC
 - U6 pin 20 for +5 VDC
- 3. OSCILLISCOPE CALIBRATION:
 - Disconnect transducer at connector J2.
 - Connect the oscilloscope probe to TP6.
 - Verify that the signal is a square wave. The amplitude of the signal is about 5Vp-p.
 - Adjust potentiometer RT2 until the frequency is 110.0KHz, ± 0.3KHz.
- 4. FINAL CHECK:
 - Remove all test leads.
 - Reconnect transducer to J2.
 - Reset the machine (turn the power off and then back on. An ultrasonic test is performed at power up. If no error message is displayed then the test was successful.