

323 - 343 - 9753

1/2

**ADJUSTING PROCEDURES FOR MODELS 9300, 9000D, AND 8500**

PCB REV. 4

MEDIA LED.

90-100-200L

**MOTOR SPEED ADJUSTMENT**

35.00

1. Disconnect connector J-104 on main circuit board (90-100-00) to disable pulse generator.
2. Connect voltmeter to D306 (+ to cathode, - to anode).
3. Position speed control knob in the maximum speed position by turning it fully clockwise.
4. Apply power to the unit and press feed switch.
5. Turn the adjustment potentiometer (R-308) on motor speed control board (90-100-30) to obtain 101.0V plus/minus 2.0V.
6. Turn the operator motor speed control knob to its lowest setting fully counter-clockwise.
7. Adjust (R-309) potentiometer to obtain 20.0V plus/minus 3.0V.
8. Turn off unit and reinstall connector J-104 on main circuit board (90-100-00)

**MEDIA SENSOR ADJUSTMENT**

1. Turn the P102 (current for media LED) fully CLOCKWISE
2. Connect the oscilloscope probe to the TP3 and set P101 to read 0.0 V +0.1V, -0.0V with the applicator head in the uppermost position.
3. Insert white envelope (in case of model 9000D - blue diskette) in the sensor, bring the applicator head all the way down and check the voltage on TP3. It should be min. 3.5V.

**LABEL SENSORS ADJUSTMENT (2 SENSORS)**

1. Remove approximately 12" of labels from backing paper. Set Selector SW to Position 6.
2. Feed label backing paper (labels removed) through the sensors assembly.
3. Advance backing paper until a label is in front of the sensor. (The label should start peeling from the backing paper). Set the selector switch to position 6.
4. Turn P601 & P602 (current for label LEDs) on circuit board 90-100-80L all the way clockwise.
5. Connect the oscilloscope probe to the TP2 and take reading of voltage on both sensors A & B.
6. Switch to the sensor with lower voltage reading and using P103 on PC Board 90-100-00L set the voltage to about 3.5V
7. Switch to the other sensor (A or B) and using corresponding trimpot on 90-100-80L board (P601 for sensor B and P602 for A) bring it's voltage to the same value as the first sensor.
8. Using P103 set the sensors voltage to 3V +0.0, -0.2V.
9. To check adjustment, pull back on label stock until only backing paper is visible to the sensor. Check voltage level at TP-2 for both sensors. It should read maximum 1.0V.

A VOLTMETER CAN BE USED IN PLACE OF OSCILLOSCOPE

2/2

## ELECTRONICS ADJUSTING PROCEDURES FOR MODEL 9600 PCB REV.4 MOTOR SPEED ADJUSTMENT

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1. Disconnect connector J-104 on main circuit board (90-100-00) to disable pulse generator.
2. Connect voltmeter to D306 (+ to cathode, - to anode).
3. Position speed control knob in the maximum speed position by turning it fully clockwise.
4. Apply power to the unit and press feed switch.
5. Turn the adjustment potentiometer (R-308) on motor speed control board (90-100-30) to obtain 101.0V plus/minus 2.0V.
6. Turn the operator motor speed control knob to its lowest setting fully counter-clockwise.
7. Adjust (R-309) potentiometer to obtain 20.0V plus/minus 3.0V.
8. Turn off unit and reinstall connector J-104 on main circuit board (90-100-00)

### MEDIA SENSOR ADJUSTMENT

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1. Move the applicator head to uppermost position.
2. Turn P601 & P602 (current for media LEDs) on circuit board 90-100-80T all the way clockwise.
3. Connect the oscilloscope probe to the TP3 and take reading of voltage on both sensors L & T.
4. Switch to the sensor with lower voltage reading and using P101 on PC Board 90-100-00T set the voltage to about 2.0V
5. Switch to the other sensor (T or L) and using corresponding trim pot on 90-100-80T board (P601 for sensor T and P602 for L) bring it's voltage to the same value as the first sensor.
6. Using P101 set the sensors voltage to 0.0V +0.1V, -0.0V.
7. Insert white envelope in the sensor and bring the applicator head all the way down. Check the voltage on TP3 for both sensors. It should be minimum 4.0V.

### TAB SENSORS ADJUSTMENT

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1. Remove approximately 12" of tabs from backing paper. Set Selector SW to Position 6.
2. Feed tab backing paper (tabs removed) through the sensors assembly. Place the tab sensor switch to Position 6.
3. Advance backing paper until a tab is in front of the sensor. (The tab should start peeling from the backing paper).
4. Turn P104 (current for tab LEDs) on circuit board 90-100-00T all the way clockwise.
5. Connect the oscilloscope probe to TP2 and using P103 on PC Board 90-100-00T set the sensor voltage to 2.8V +0.0V, -0.2V.
6. To check adjustment, pull back on tab stock until only backing paper is visible to the sensor. Check voltage levels at TP2. It should read maximum 1.0V.

A VOLTMETER CAN BE USED IN PLACE OF OSCILLOSCOPE

#### **CAUTION!**

**WHEN UPGRADING TO REVISION 4 MAIN BOARD REPLACE ALSO SENSOR SWITCH BOARD TO P/N 90-100-80T REV.4. CONNECTING PREVIOUS REV. SWITCH BOARD TO MAIN BOARD REV. 4 WILL DESTROY MEDIA SENSORS.**