MAULDIN
PAVING PRODUCTS

Instructions for:

Replacing and Recalibrating Bar Width Potentiometer in the Precision Spray Asphalt Distributor

1. With the unit running, place the "Selector" knob in the off position with the computer turned on.
2. Put both bars in the fully extended position and turn engine off.
3. Remove cover to access the suspect potentiometer.
4. Remove suspect potentiometer by loosening ¼" brass union.
5. Take the new potentiometer in your hand and turn the shaft clockwise by hand until it stops. Do not force. Then turn the potentiometer shaft back 1 ½ turns. Mark this location so you can verify that the shaft doesn't rotate while installing.
6. Install the new potentiometer at this position and plug in the electrical connector.
7. While watching "status" light on DVC 10, disconnect 24 pin connector located at rear of curbside control box 2nd back from the tank. The status light will start to blink red. Reconnect this harness and "status" light will go out. At this point the DVC 10 is ready to accept a new potentiometer calibration.
8. Start engine. Run the bars completely in, completely out, and back in. Turn the "Selector" knob to "Cab" mode. Verify the bar width is 8' 0". Run the bar out and verify the bar width is 16' 0". Calibration is complete and machine is now ready to use. Replace access cover.
9. If red status light continues to blink after all connectors are intact, count the number of blinks. 3 blinks= bad wire or pot in Pump speed pot
   4 blinks= bad wire or pot in left bar position pot
   5 blinks= bad wire or pot in right bar position pot

TROUBLESHOOTING

To Test for proper potentiometer operation with a multi-meter, follow the procedures below:

Left side: using a voltmeter set on 0-20 VDC scale, attach leads to **C3** and **F2** of the 30 pin connecter P1. (the big one on the DVC 10 module).
With the power on, voltage should be about .8 volts when left bar is totally retracted,
voltage should be about 3.8 volts when left bar is totally extended.

Right side: using a voltmeter set on 0-20 VDC scale, attach leads to **D3** and **G2** of the 30 pin connecter P1. (the big one on the DVC 10 module).
With the power on, voltage should be about .8 volts when right bar is totally retracted,
voltage should be about 3.8 volts when right bar is totally extended.