

CALIBRATION PROCEDURE

DELMHORST MODEL CM-1 MOISTURE DETECTOR

- (1) Remove the four screws that hold the back cover on the instrument and remove the cover.
- (2) Remove the "Do Not Disturb..." tag which covers the two potentiometers on the printed circuit board.
- (3) Adjust the mechanical meter zero to 4 (by means of the small screw directly beneath the panel meter).
- (4) Connect cable of Calibration Box to Moisture Detector.*
- (5) Set the Calibration Box to 5 (Lint Cotton 1500 Megohms) press the "READ" button and adjust the meter reading to 5 with the "ADJUST" pot. at the front of the instrument.
- (6) Set the Calibration Box to 8 (19 Megohms) and adjust the meter reading to 8 with the pot. (2.5K ohms nominal) at the top of the printed circuit board.
- (7) Set the Calibration Box to 16, (.22 Megohms) press the "READ" button and adjust the meter reading to 16 with the pot. (10K ohms nominal) at the bottom of the printed circuit board.
- (8) Repeat steps 5 through 7 in sequence until all three readings are as close as possible.

IMPORTANT: Whenever a transistor is replaced, the Moisture Detector should be recalibrated as described above.

EQUIPMENT REQUIRED: (1) Delmhorst Calibration Box.

*If no Calibration Box is available, it will be necessary to connect resistors across the meter connector in steps 5 through 8.

| <u>LINT COTTON</u> | <u>RESISTANCE \pm 1%</u> |
|--------------------|---------------------------------------|
| 5 | 1500 megohms |
| 6 | 300 megohms |
| 8 | 19 megohms |
| 10 | 2.4 megohms |
| 16 | .22 megohms |

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9/86

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CALIBRATION PROCEDURE FOR
DELMHORST MODEL CM-2 MOISTURE DETECTOR

1. Remove the four screws that hold the back cover on the instrument and remove the cover.
2. Connect the cable of the Calibration box to Moisture Detector.**
3. Set the calibration box to 5% (Lint cotton). Press the "READ" button and adjust the meter reading to 5.0 ± 0.0 with R7.
4. Set the calibration box to 10%. Press the "READ" button and adjust the meter reading to 10.0 ± 0.0 with R14.
5. Repeat steps 3 and 4 until both the points are properly calibrated.
6. Check other points on the calibration box (6, 8, 16). The meter should read within ± 0.5 of these values.
7. Disconnect the calibration box and press the "CAL CHK" button. The meter should read 10.0 ± 0.2 .

EQUIPMENT REQUIRED: (1) Delmhorst Calibration Box CB-5.

** If no Calibration box is available, it will be necessary to connect resistors across the meter connector in steps 3 to 6.

LINT COTTON

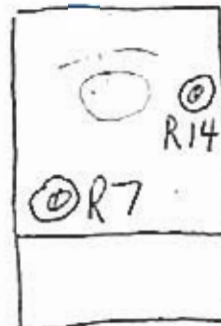
5
6
8
10
16

RESISTANCE $\pm 1\%$

1500 megaohms
300 megaohms
19 megaohms
2.4 megaohms
.22 megaohms

DELMHORST INSTRUMENT CO.
TOWACO, NJ.

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BACK.