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12-011

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FILTER TAPE REPLACEMENT PROCEDURE FOR AN M633

I. PURPOSE:

This service note will go through how to replace the filter tape in the M633 Aethalometer.

II. TOOLS:

Scotch Tape

III. PARTS:

DU0000146 FIBER FILTER TAPE FOR 633

IV. PROCEDURE:

- 1.) Open the front panel of the M633 by pressing the button on the right hand side and then pulling on the piston that pops out. You should now see the inside of the M633 (Figure 1).
- 2.) Turn off the power to the unit using the front power switch (Figure 1).

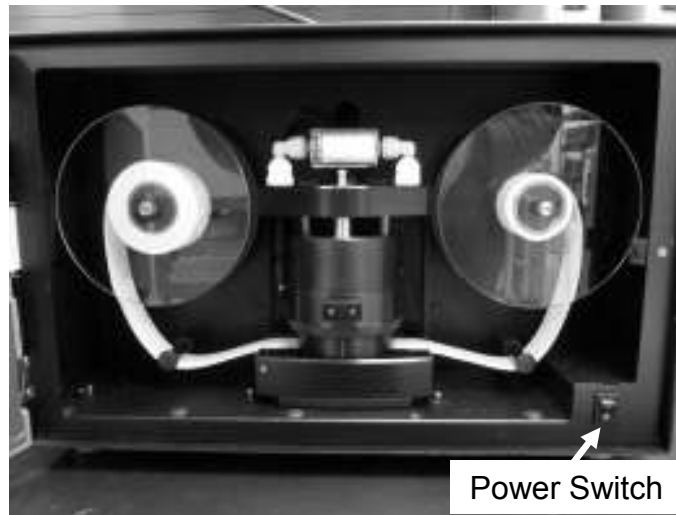


Figure 1

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- 3.) Raise the optical head assembly by positioning your hands as seen in Figure 2. Pull the optical head assembly up off of the filter tape by squeezing your hands together.

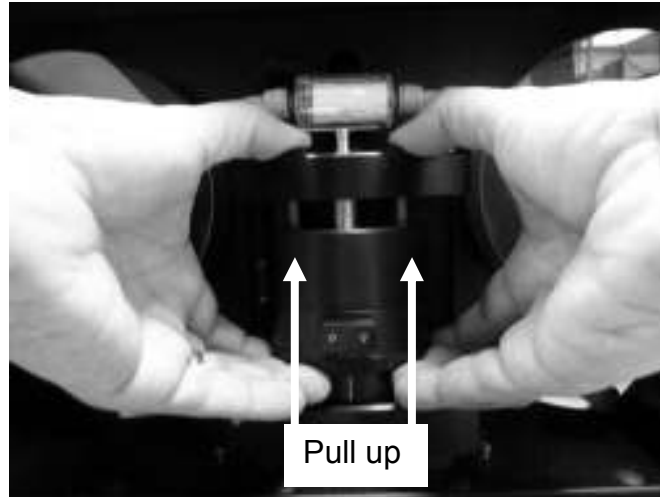


Figure 2

- 4.) Once the optical head assembly is pulled all the way up, hold it in position and then use your thumb to press the locking pin forward. Lower the optical head assembly and it will now stay in the up position (Figure 3).

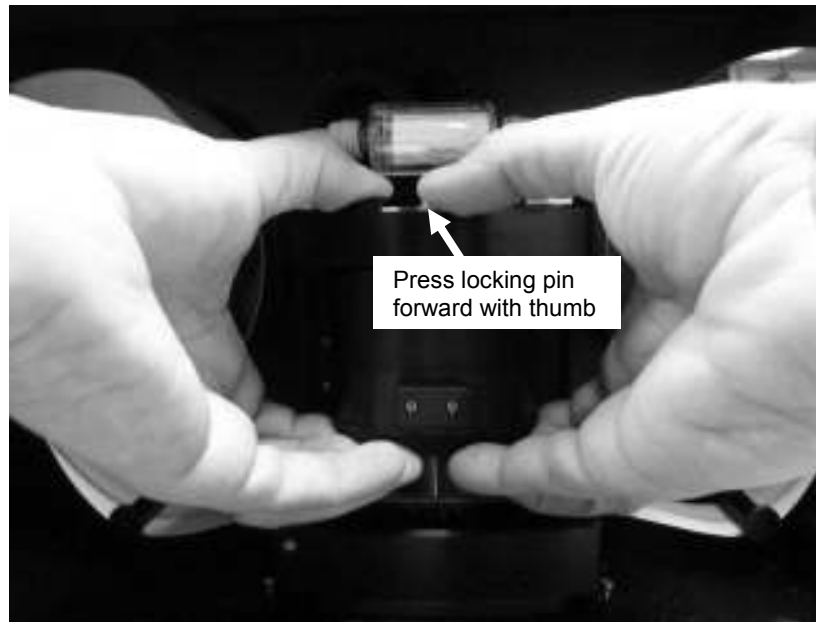


Figure 3

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- 5.) Remove both thumb screws that hold the two tape windows in place. Remove both windows. (Figure 4)

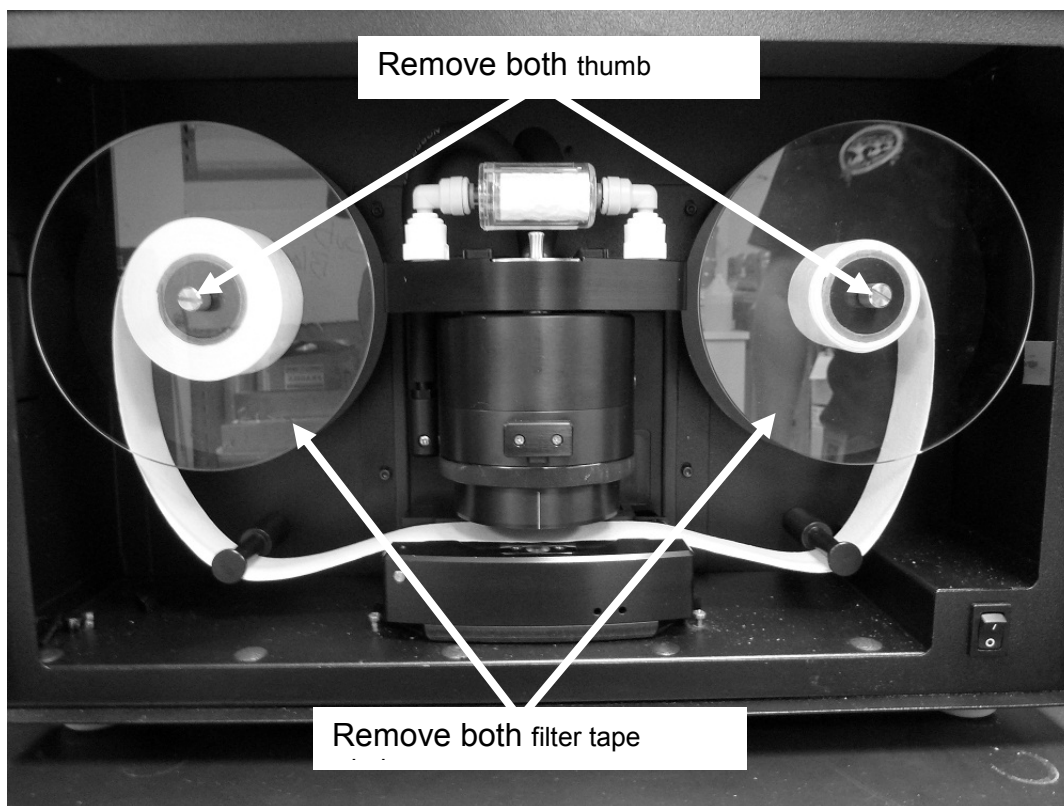


Figure 4

- 6.) With the windows now removed, remove the old tape. Make sure to take one of the old cardboard rolling tubes from the old tape as this will be used for installing the new tape.
- 7.) Using the replacement DU0000146 tape and the old cardboard rolling tube, position the tape as seen in Figure 5. Take a piece of scotch tape, and tape the new roll of filter tape to the old cardboard rolling tube as seen in Figure 6.



Figure 5



Figure 6

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- 8.) Install the new tape back into the M633. Make sure that the tape goes under the optical head assembly and the two rollers. (Figure 7)

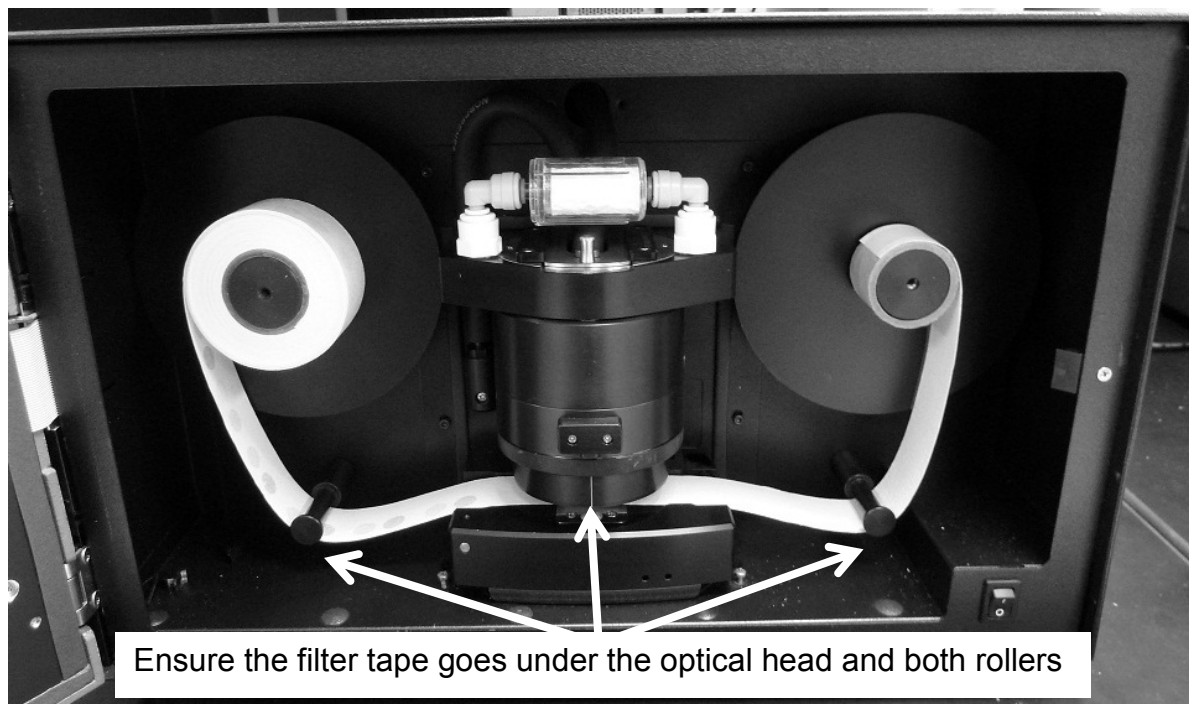


Figure 7

- 9.) Lower the optical head assembly by pulling up on the optical head assembly, see Step 3. The locking pin should automatically snap back into the “unlocked” position.
- 10.) Re-install the two filter tape windows using the two thumb screws that were removed in Step 5. Take care to ensure both the thumb screws are tight.
- 11.) Turn the power back on using the front panel power switch. Close the front panel and allow the M633 to go through its boot up process (about 5 minutes). The M633 can now be returned to service.

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