

1. Before beginning with modification, turn power off to your ANKOM A200/200I Fiber Analyzer Machine. Disconnect power cord. Remove SS back panel. Use #2 Phillips Screwdriver as shown in Figure 1. Back panel tucks up under top edge. Slide back panel down after screws have been removed.

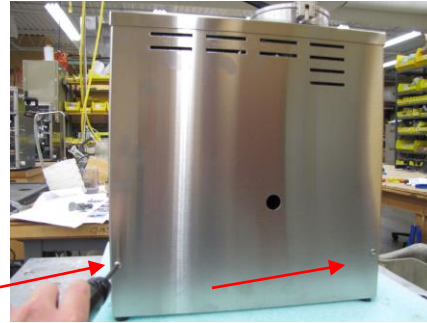


Figure 1

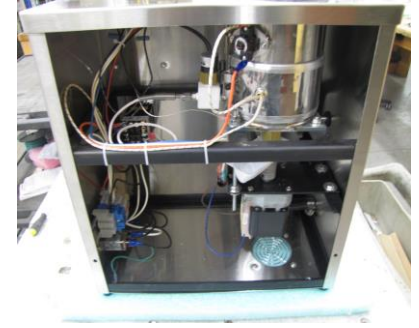


Figure 2

2. Identify the Heating Band to be replaced. See Figure 3. There is one bolt holding it tight to the stainless steel vessel. Use a 3/16" hex driver (Allen Wrench) and remove said bolt as shown in Figure 4.

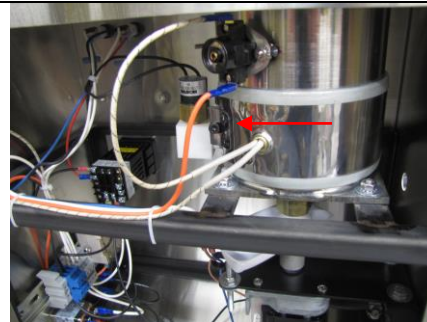


Figure 3

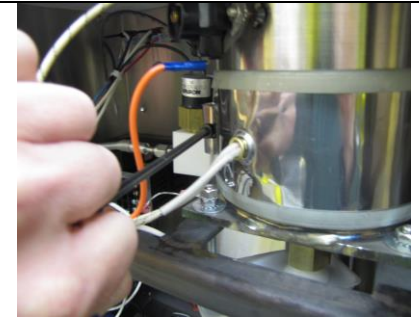


Figure 4

3. Identify the two wires that must be disconnected. See Figure 5. Follow the wire that curves upward to the Thermal Switch. Disconnect this wire connection as shown in Figure 6.

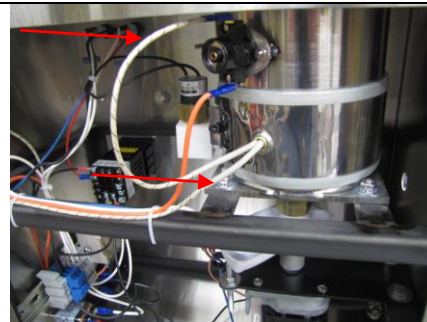


Figure 5

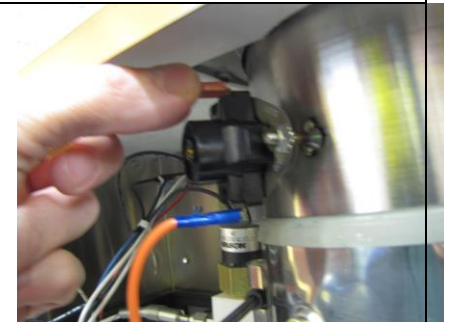


Figure 6

4. Carefully cut the three cable ties that hold the wires to the lateral steel brace as shown in Figure 7. Use caution to avoid any damage to the wiring or wire insulation. Follow the second wire from the heating band to the terminal block on the din rail. This should be the first gray terminal block adjacent to the blue terminal blocks.

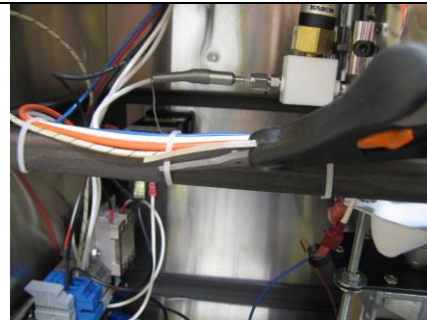


Figure 7

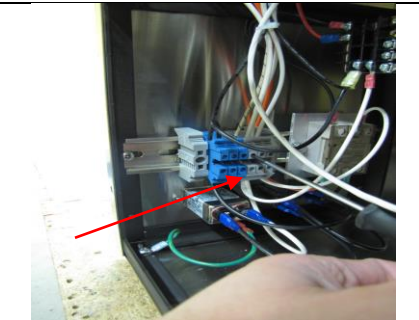


Figure 8

5. With a small flathead screwdriver loosen the setscrew pinching the wire in the terminal block. Pull this wire from the terminal block. Reference Figures 9 and 10.

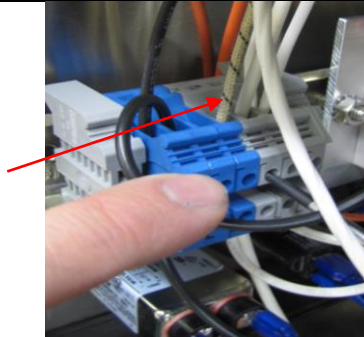


Figure 9

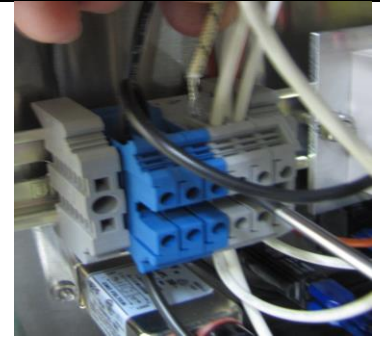


Figure 10

6. Remove Heating Band. This will require flexing the band open to pull it around the vessel. See Figures 11 and 12.

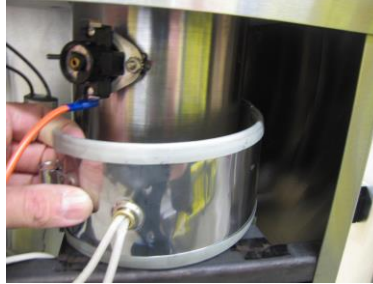


Figure 11



Figure 12

7. Obtain new Heating Band and flex it open enough to fit around the vessel. Slide it around the back of the vessel and squeeze it closed as much as possible by hand. Reference Figure 13 and 14.



Figure 13

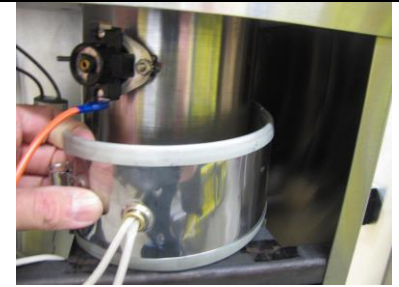


Figure 14

8. Use a 3/16" hex driver (Allen Wrench) to bolt the Heating Band together tightening it to the vessel. Be careful to space the open end of the heating band around the pressure sensor – denoted by red arrow, shown in Figure 15. Reconnect wire to the Thermal Switch as shown in Figure 16.

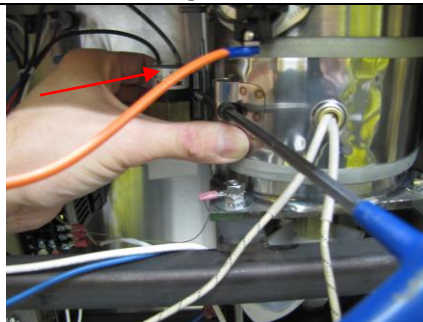


Figure 15

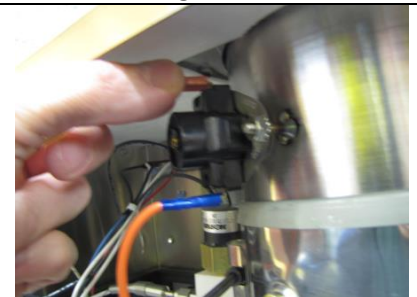


Figure 16

9. Reconnect wire to the terminal block. This is the wire with the exposed end. Twist wire end to ensure there are no wire strands loose that do not get captured in the terminal block. See Figures 17 and 18. Use a small flat head screwdriver to tighten setscrew and pinch the wire in the terminal block. Test the connection with a slight tug to ensure wire is secure.



Figure 17

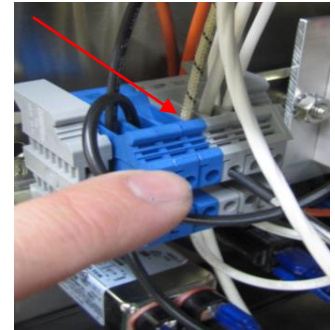


Figure 18

10. Use cable ties to tie back wires against the lateral steel brace as shown in Figure 19. Replace back panel. Tuck it up under the top edge first and secure screws with Phillips Head screwdriver as shown in Figure 20.

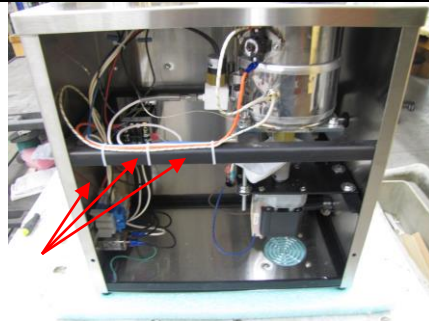


Figure 19

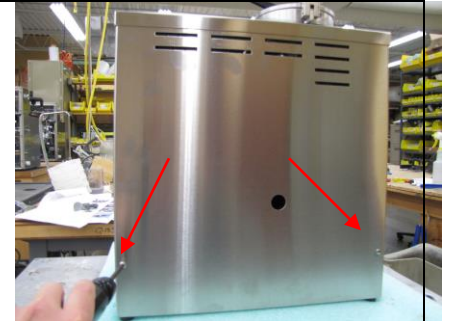


Figure 20

11. Before returning ANKOM A200 to service, conduct a boil test to verify Heating Band is functioning properly. This can be referenced on the ANKOM website. The address is:
http://www.ankom.com/media/documents/49_Boil_Test_Controller_Calibration_A200series.pdf.