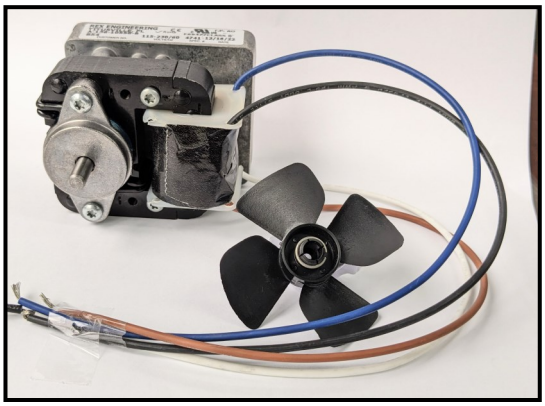
Motor Replacement

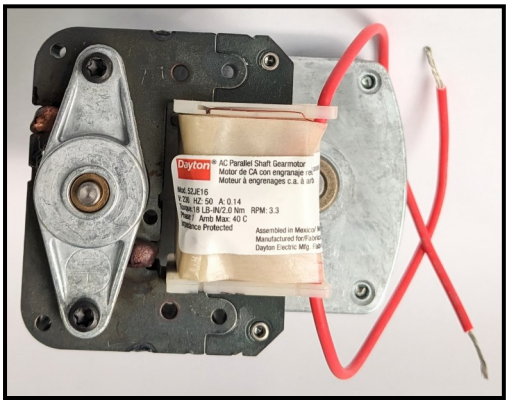
D200/D200I

Service Procedure
DS001
REV 5/13/23 SLC

This procedure is for the replacement of the D6 MOTOR or the D7 MOTOR for the D200 or the D200i. The following items will be sent in a replacement package:



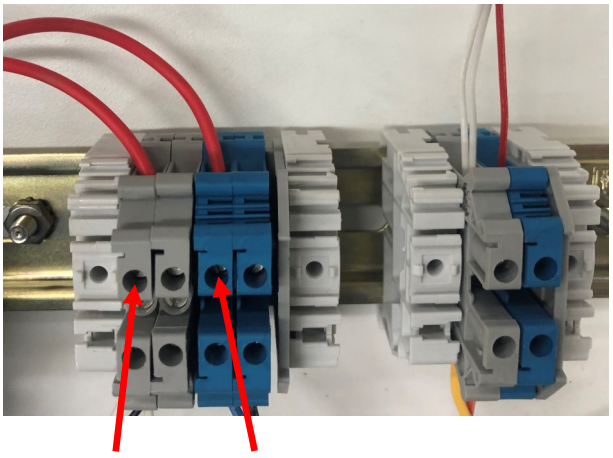
D6 MOTOR 120v for the D200



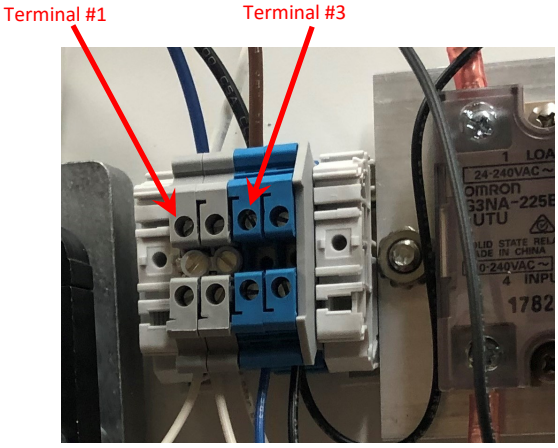
D7 MOTOR 220v for the D200i

1. To prepare the instrument for service, power off the instrument.
2. Remove the back panel for the D200 cabinet using a Phillips screwdriver. Set aside the four screws for later use.

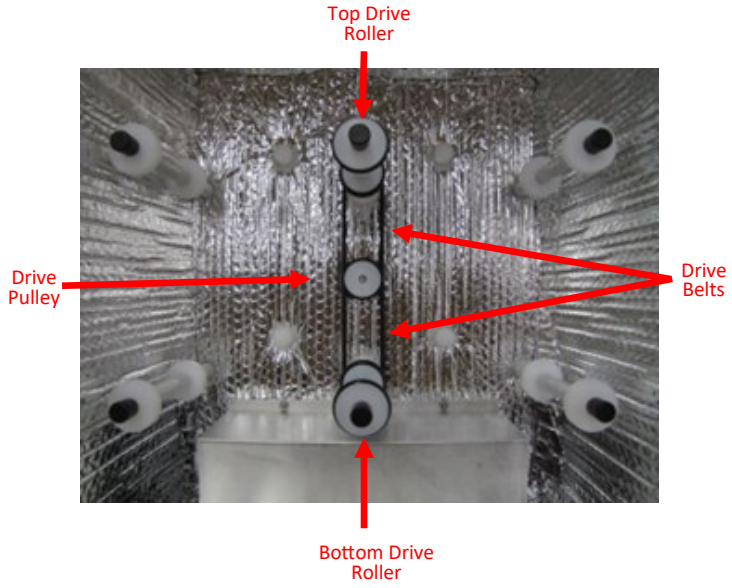
3. **220v Motor**: To disconnect the two motor wires from the Terminal Block Assembly, insert a small flat -blade screwdriver into the correct terminal blocks to unscrew the screw inside the circular holes and loosen the wires.
4. Unscrew the red wire from the #1 gray terminal block and the red wire from the #3 blue terminal block. NOTE: Refer to the manual for further wiring instructions.



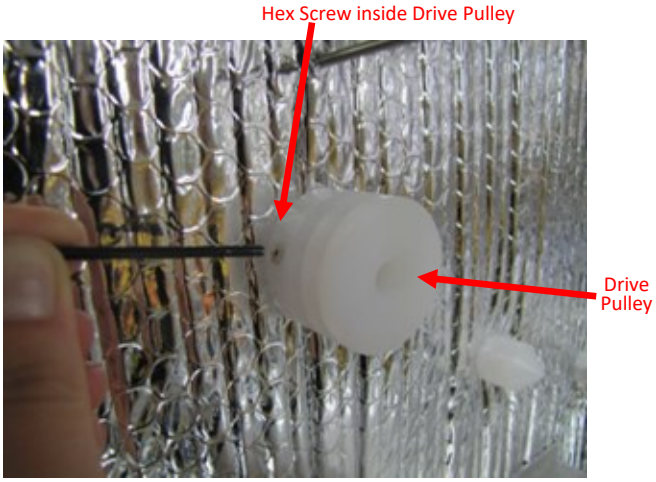
5. **120v Motor:** To disconnect the four motor wires from the Terminal Block Assembly, insert a small flat-blade screwdriver into the correct terminal blocks to unscrew the screw inside the circular holes and loosen the wires.
6. Unscrew the blue and white wires from the #1 gray terminal block and the brown and black wires from the #3 blue terminal block. NOTE: Refer to the manual for further wiring instructions.



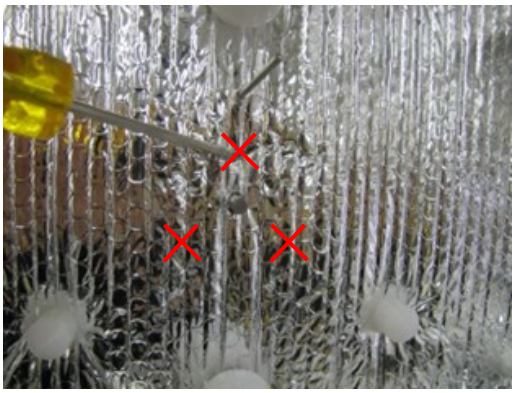
7. To remove the two Drive Belts, open the D200 cabinet door.
8. Remove the top Drive Belt from the top Drive Roller and center Drive Pulley.
9. Remove the bottom Drive Belt from the bottom Drive Roller and Drive Pulley.



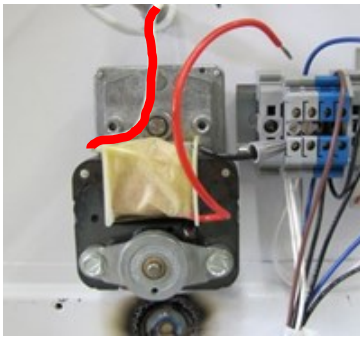
10. To remove the Drive Pulley, loosen the hex screw on the inside of the Drive Pulley using a 3/32 hex wrench.
11. Remove the Drive Pulley from the shaft and set it aside for later.



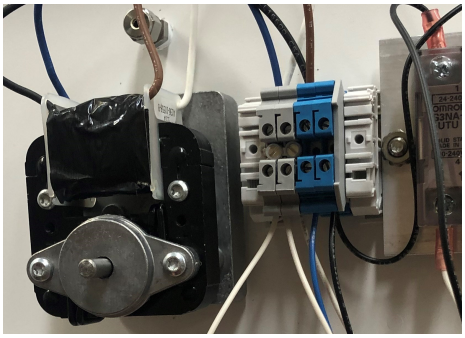
12. Use two technicians for this procedure. Technician #1 will be located in the back of the instrument and Technician #2 will be located in the front.
13. Locate the three motor mounting screws by pressing through the insulation with your finger (marked by the 3 X's in the image). You will feel a rounded screw head. Use a razor blade to slice a small slit through the insulation at the 3 screws.
14. Technician #1 holds the motor on the back of the instrument to support it. Technician #2, using a Phillips head screwdriver, removes the screws, allowing the motor to be taken out.
15. Set the old motor and three screws aside.



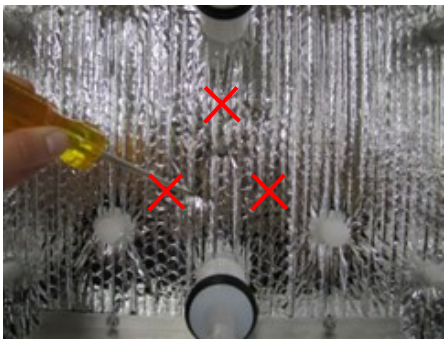
16. To install the new 120v or 220v Motor, technician #1 mounts and holds the new motor in place on the back of the instrument.
17. Technician #2 uses a Phillips screwdriver to secure the motor with the three screws on the inside of the cabinet.



220v



120v

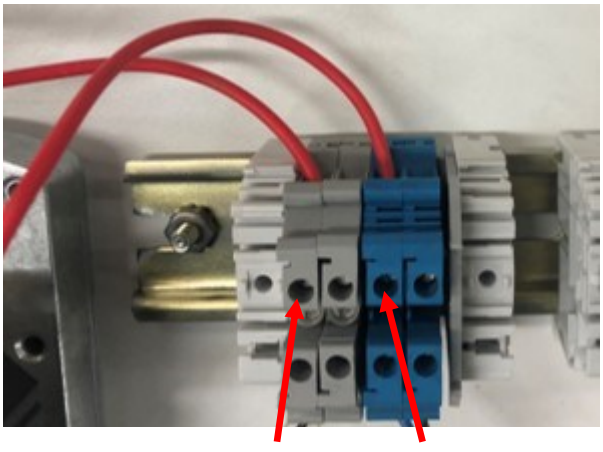


18. Reattach the Drive Pulley by placing the Drive Pulley back onto the center shaft inside the cabinet.
19. Tighten the hex screw on the inside of the Drive Pulley using a 3/32 hex wrench.

20. To reconnect the two Drive Belts, place a belt around each of the drive rollers.
21. Line the belts up with the bottom groove on the Drive Rollers and pull the belts, one at a time, around the Drive Pulley. One belt will be placed in the bottom groove and another will be placed in the top groove of the Drive Pulley.

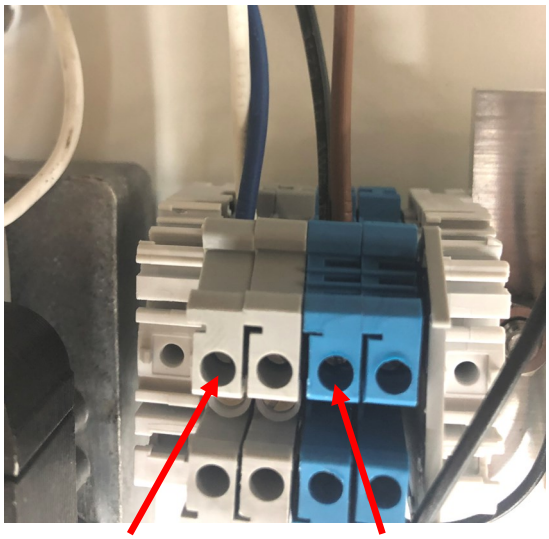
22. To reconnect the two motor wires to the Terminal Block Assembly, twist the wire ends to prevent fraying as they are reinserted into their designated slots on the terminals.
23. Place the wire ends in their correct terminal blocks one at a time. **For the 220v**, use the small flat-blade screwdriver to screw the red wire into the #1 gray terminal block and the other red wire into the #3 blue terminal block. Gently pull each wire to make sure they are secure in the terminal.

220v



24. **For the 120v,** screw the blue and white wires into the #1 gray terminal block and the brown and black wires into the #3 blue terminal block.
25. Gently pull each wire to make sure they are secure in the terminal.

120v



26. **120v ONLY Motor Fan Installation:** Install the fan, which was sent with the new 120v Motor, onto the motor shaft by pushing until it securely snaps into place.
27. Test the motor by turning on the instrument and pressing the AGITATE button. If the motor is running properly, proceed to reinstall the back panel of the instrument.

28. Secure it with the four screws removed in step #1. With this completed, you are now ready to return your D200 instrument to use.
29. If the motor QC test fails, check to ensure that the wiring and motor installation steps have been performed correctly and that all parts are securely installed.
30. Perform a second motor test. If this fails, contact ANKOM Technology at:

https://www.ankom.com/contact/technical-services

or by phone at 315.986.8090.