



Replacing the M8000 pump mounts

Tools and spare parts needed to complete this procedure:



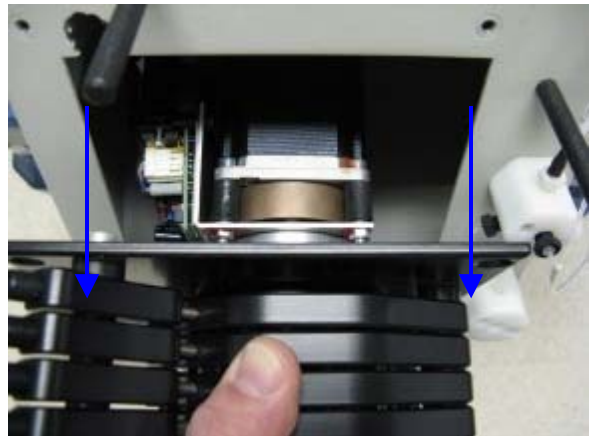
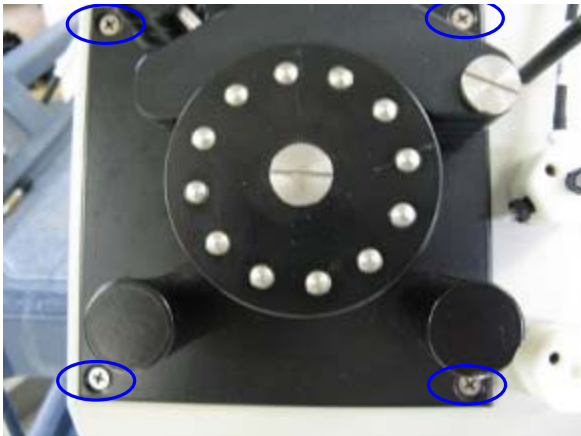
Philips screwdriver, 3mm Allen wrench, Loctite



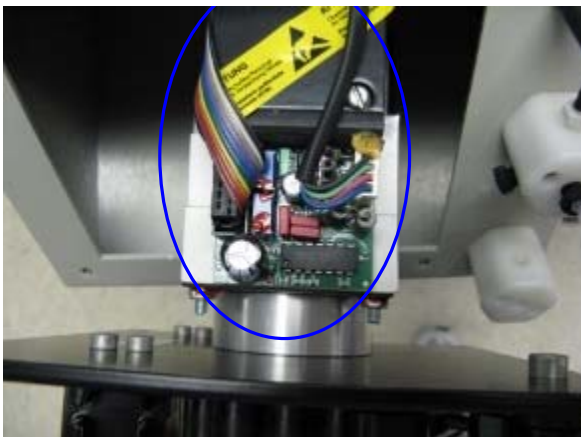
SP8106

Caution: To avoid electrical hazards, turn of the instrument and disconnect the power cord.

1. Remove the four screws attaching the pump to the instrument. Carefully pull forward.

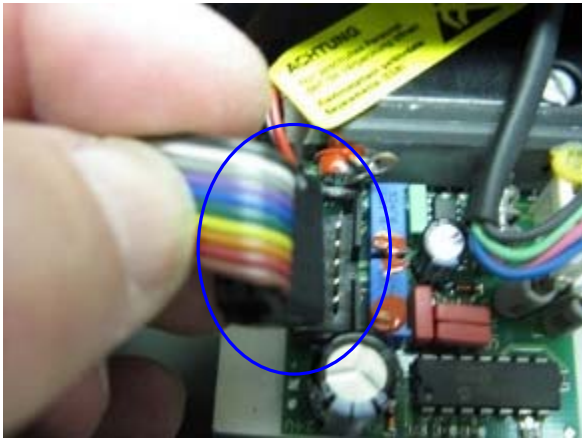


2. Rotate clockwise 90 degrees to access the control board.



Pump control board

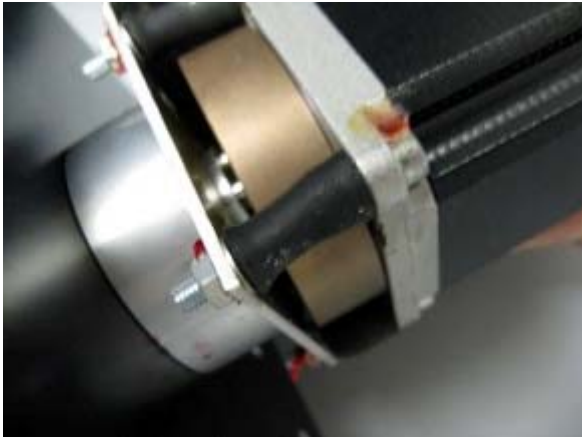
3. Make note of the orientation of the **ribbon** cable connection and remove the connector. Remove the pump assembly from the instrument.



Ribbon connection

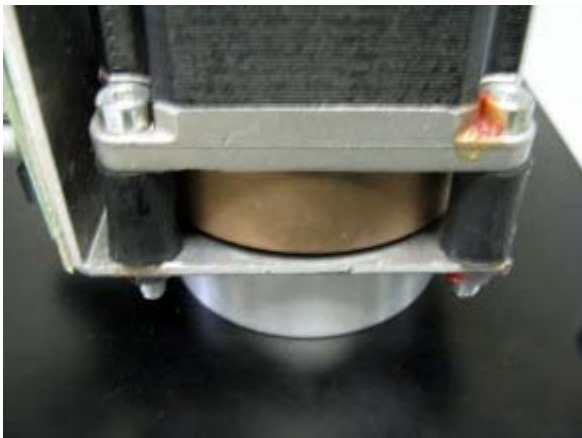


4. Flex and stretch the rubber mounts looking for degradation.

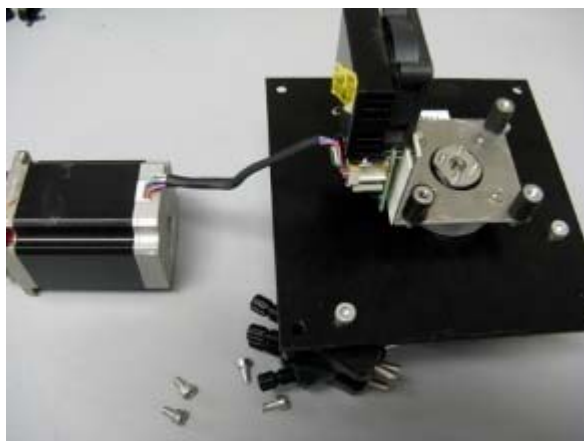
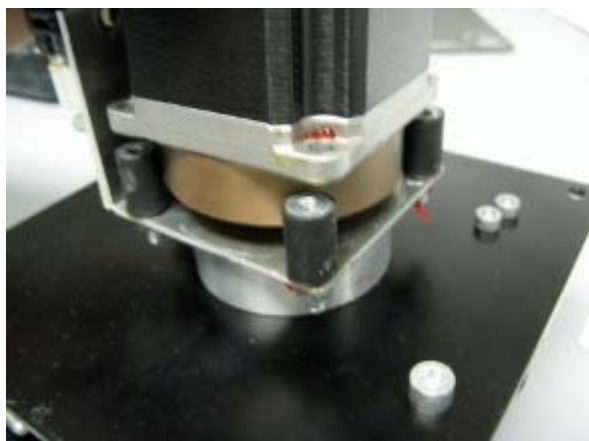


Degrading (cracking) mount

5. Place the assembly on the pump head and remove the four Allen screws.



6. Lift the motor from the assembly and lay aside.



7. Remove the mounts by holding the mount as the nut is loosened. Save the washer between the mount and the plate.



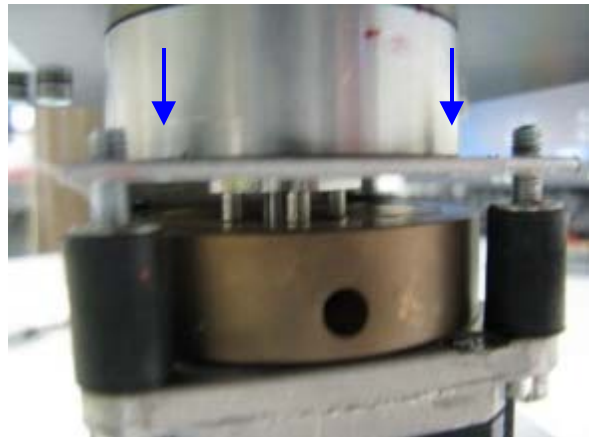
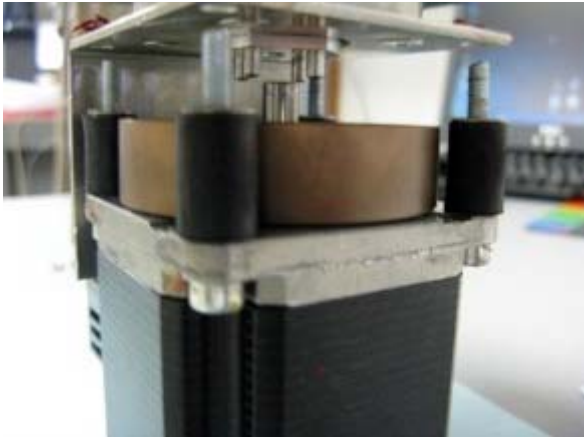
Washer



8. Install the new mounts to the **motor** and tighten all four securely. Set the motor upright and replace a washer on each motor mount.



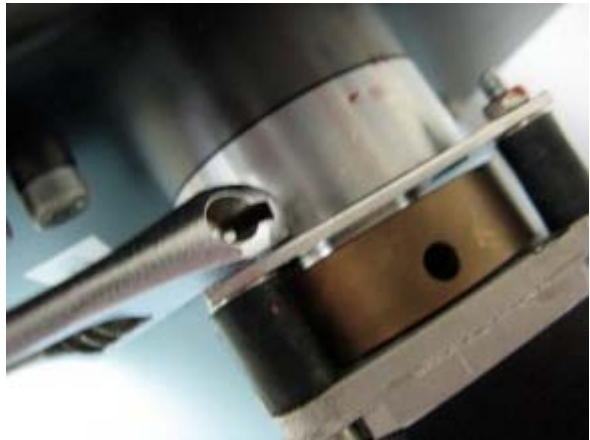
9. Align the pump head to the motor.



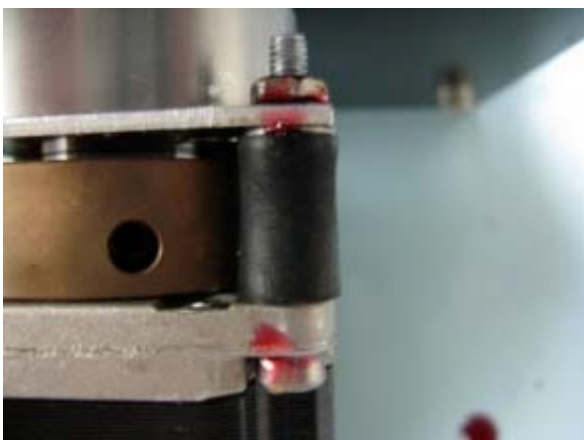
10. Turn the pump head to align the pins on the pump head's shaft with the coupling to fully seat then replace and tighten the nuts securely.



Pins and coupling engaged



11. Use Loctite or a similar product to secure the mount screws and nuts. Allow to set.



12. Insert the pump motor into the instrument and connect the ribbon cable **as originally attached**.

Caution: Improperly connecting the ribbon cable can result in damage to the M8000's mainboard.



13. Rotate the pump assembly 90 degrees counter-clockwise.



14. Align the assembly into it's final position making sure the pump arms and tensioners are as pictured then replace the screws. Reconnect the instrument to the power and verify pump functionality.

