



! Note Power down the chair before attempting this process.

Mirage Model 4000 Hydraulic Patient Chair



Foot Control PCB Installation Instructions

TPC

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Note! It is imperative that you power down the dental chair while performing this procedure. There is a risk of bodily harm. While the foot control is out of the housing there may be no way to stop a movement if a button is accidentally pressed or triggered. If you choose not to power down the dental chair you do so at your own risk!

1. Remove the adhesive label on the top of the foot control.



2. Remove the three screws that attach the foot control disc to the foot control frame.



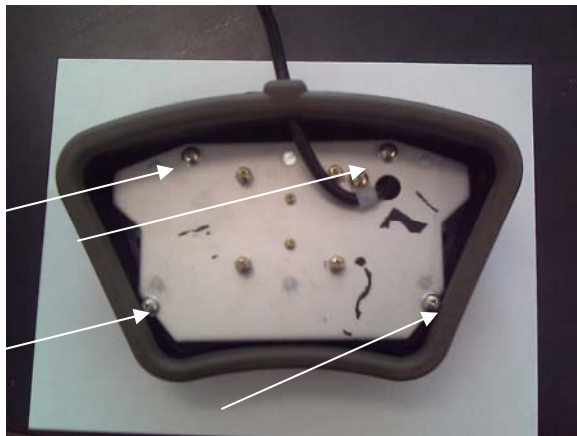
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3. Place the 3 screws and 6 washers in a safe place so that they don't get misplaced.



4. Turn the foot control upside down and remove the 4 outer screws that hold the foot control mounting plate to the frame. These screws are silver in color.



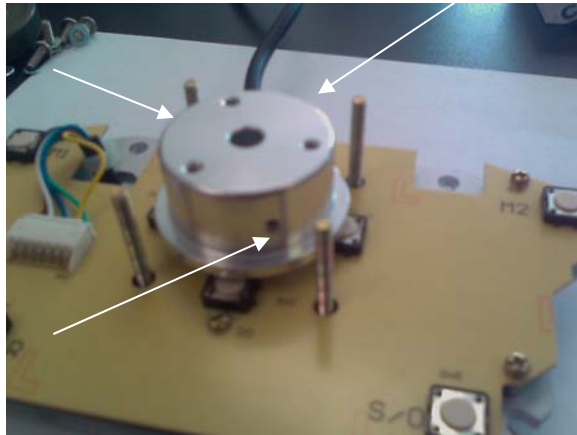
5. Remove the foot control mounting plate from the foot control housing. By gently pulling on the foot control mounting plate and separating it from the housing.



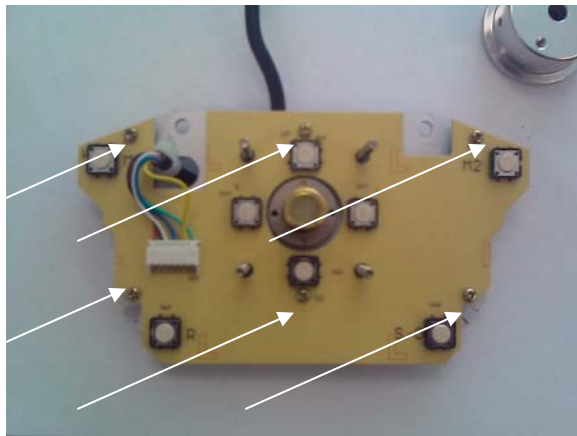
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6. Loosen the 3 set screws from the foot control post that is on top of the foot control PCB.



7. Remove the 6 small Philips screws that hold the PCB board to the metal frame. Also disconnect the plastic Molex wire connection to the PCB board.



8. Remove the old PCB board from the PCB mounting plate.



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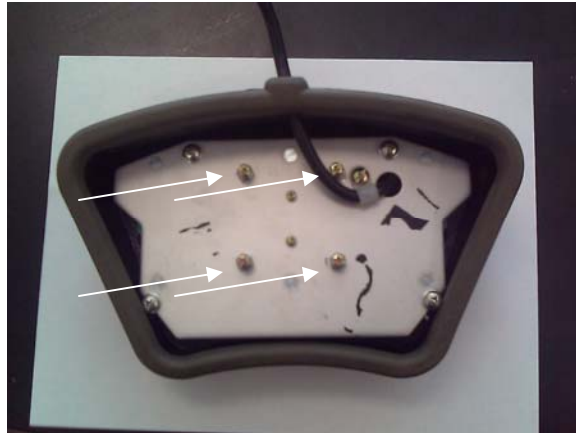
9. Place new PCB board back on the PCB board metal housing. Re-attach white Molex connection.



10. Turn power on to the dental chair and test the function of each button. If each button works then proceed to the next step. Power the chair back down... OFF
11. Replace the 6 Philip head screws that you removed in step 7.
12. Replace the disc mount that sits on the foot control post. Make sure to align the disc properly or the disc screws will not align properly with the top disc.
13. Replace the foot control mounting plate back into the foot control housing.
14. Replace the 4 silver screws that hold the PCB mounting plate to the foot control housing that were removed in step 4.
15. Turn the foot control back over and replace the foot control disc back on. Make sure to use the included 6 washers back on the foot control the way they came off.
16. Replace the adhesive label with the new one if included.
17. You have now completed the procedure to replace the foot control PCB.

Adjusting limit stops on the foot control

1. Limit stops will adjust the amount of travel the foot control disc has to the PCB buttons. In most cases these stops are already adjusted and do not need to be modified. If you feel that they need to be modified follow the instructions below.
2. Turn the foot control over so that you can see it from the bottom side up.
3. Locate the 4 screws that have 4 locking nuts on them. Loosen the 4 locking nuts so that the screws can be adjusted.



4. Turn each Phillip screw all the way in. This will make it so that the foot control disc will not touch any of the buttons on the PCB board.
5. With all the screws turned in, press on the chair base up function on the foot control. Hold it down while backing out the two upper screws little by little, one at a time. Adjust it to the point where you have to press firmly on the foot control to activate the switch.
6. Follow the same procedure to adjust the base down. Use the lower screws to make this adjustment.
7. Once you feel that all buttons are adjusted properly, tighten the locking nuts so that the screws will not move on their own.