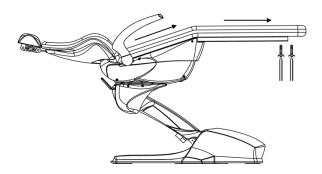
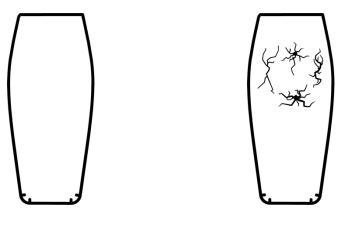
• If you have limited backrest movement issues and hear a beep each time a button is depressed on a foot control or touchpad, you may need to adjust the chair limit settings. Use the procedure below to check the potentiometers before adjusting the chair limits.

Remove the two Allen screws toward the toe of the chair on the bottom of the seat upholstery. Slide the upholstery off by gently pulling it towards the toe of the chair frame while lifting it.



Inspect the condition of the plastic backing of the chair's seat upholstery. If excessive damage to the plastic is visible, you will need to purchase a new seat cushion. You can also install a cross-support plate, which is recommended when purchasing a new seat cushion. Resetting the limits and installing upholstery with a damaged plastic base can damage the potentiometer arm and other components.



YES

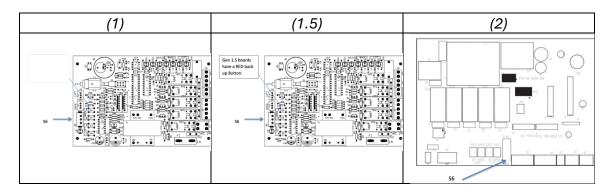
NO

Inspect the chair potentiometer assembly. Verify the arm is parallel to the return spring on the right side of the chair if viewing from the back to the toe. Inspect the set screw in the arm to the potentiometer shaft and verify it's secure. The chair back needs to be in the upright position to gain access to the set screw. If the chair back is in the down position, you will need to place the chair in service mode.



Service Mode:

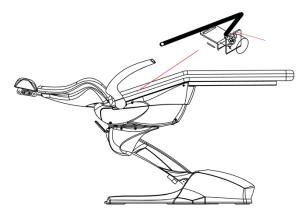
Remove the chair pump cover and locate the main PCB. There are three types of PCB boards. Gen 1,1.5 and 2. See the images below.



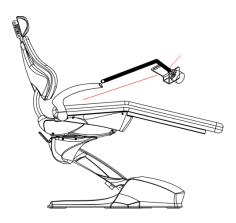
Slide S6 into the down position on Gen 1 and 1.5 boards. Gen 2 boards, you will reverse the position of the S6 toggle to place the chair in service mode. See (2). Two lights will be on when the 2.0 board is in service mode. When the switch is in the correct position, the LED light below the switch (L8) will illuminate on 1 and 1.5 boards. This indicates the chair is now in "**service mode.**"

It's not recommended to operate the chair in service mode for an extended period if waiting on components. The chair can be able to travel beyond its limits and damage the frame or plastic covers. The chair presets and auto return will not function in service mode/

Raise the backrest to obtain access to the set screw on the chair potentiometer arm. Verify the set screw is secure. *If the set screw was loose, it's possible that the POT may have also rotated * If the potentiometer has been rotated, you may need to re-center it in some cases. There are two ways to set the limits on the Mirage dental chairs. Auto mode and manual mode. See the options below. It's not recommended to re-program the limits in auto mode when a Swing Mount Delivery system is attached to the chair.



Chair Back Down



Chair Back Up

Adjusting the chair limits:

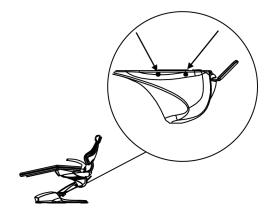
Manual:
To set a limit for the Mirage operatory
chair, perform the following procedure.
Locate the slider switch labeled S6. See
figures on next page for locating switch
(S6). This will put the chair into service
mode. Using the touch pad or foot
control, move the chair to the desired
position. See below for detailed
instructions on setting each limit.
DOWN:
Using the manual controls, Recline the
backrest fully. Raise the backrest slightly
from this point and press the BACK DO
button on the main PCB board. Slide (S6)
Switch on PCB to off position. Then raise
the back rest up. Then lower it to verify
the desired setting has been achieved.
UP:
Using the manual controls, Raise the
backrest fully. Lower the backrest slightly
from this point. Press the BACK UP
button on the main PCB board. Slide (S6)
Switch on PCB to off position. Then
Lower the backrest. Then Raise it to verify
the desired setting has been achieve.

If the plastic bottom of the upholstery is damaged, you will need to install the crosssupport plate. This will prevent the chair seat from dipping down in the lower portion of the seat frame.

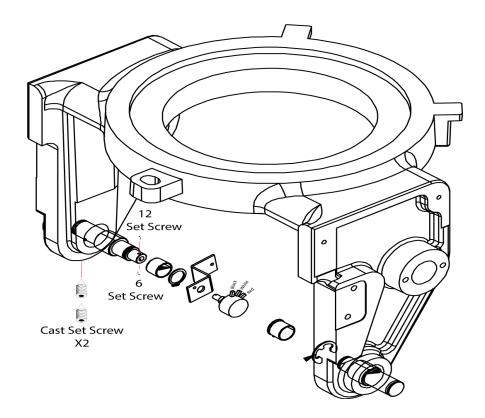


Mirage Base potentiometer

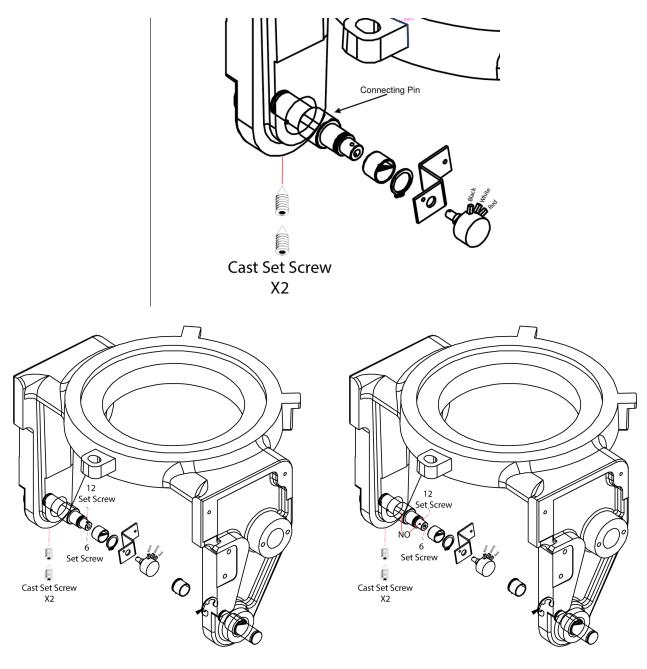
Remove the left panel cover located next to the chair rotation brake lever. There may be two rubber caps covering the two Phillips head screws. Remove the caps to gain access to the screws.



Once the panel Is removed, Locate the base potentiometer bracket. Verify the set screws on the collar of the potentiometer shaft are secure. They should also be at a 12 and 6 o'clock position. If the set screws are not in the 12 and 6 o'clock position you need to readjust the collar. Steps are listed below but are not required for continuing if the set screws are in the proper position.



Remove the first set screw located on the chair frame casting. Then re-insert the Allen key into the hole and loosen the secondary set screw two turns. Using a crescent wrench. Grab the Connecting pin with the wrench and gently try to turn the connecting pin. Rotate it in the shortest path to get the set screws at 12 and 6 o clock on the potentiometer collar. Gently tighten the secondary set screw. You will feel it sit in the divot of the connecting pin. Secure the casting set screws once it's seated and in the proper position. Try to set the chair limits in manual / auto limit mode.



NO

YES

Measuring the potentiometer resistance with a voltmeter

