

Back Tilt Sensor Repair Kit [002-1377-00]

Components: Potted Tilt Sensor



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Chair Calibration Procedure

Note

Calibration is only required if the chair is not operating at all, or if it is not raising/lowering to the proper extents. Power to the chair must also be cycled after moving the #4 dipswitch to complete the procedure. Calibration should always be performed after replacing a chair's PC Board, a tilt sensor or any lift mechanism.

Movement of the chair is monitored by sensory devices that keep the chair within the range of motion accommodated by the drive mechanisms controlling the chair. *The Calibration Mode* is a programmed routine of chair movements that locates the end of travel points, calculates working values for these points, stores these values in memory and then tests the results of the routine. Follow these steps to calibrate a chair.



Manual Calibration - use to set your own high and low extents for base and back travel.

Note

Manual Calibration is only required to modify one or more of the limit of travel extents the base and back are set to originally.

Power to the chair must be cycled after dipswitch #4 is returned to OFF position to complete the procedure.

Base and back movements are monitored by sensory devices that keep them within a controlled range of extents. *Manual Calibration* is a modified calibration routine that allows you to set your own end of travel points, stores these values and then tests the results of the routine. Below is the Manual Chair Calibration procedure.

Manual Calibration...

- A) Unplug chair from power supply.
- *B)* Remove uper lift arm cover and PC Board cover (two screws). Locate S1 and S2 switches on the PC board.
- C) Move dipswitch #4 on the S2 Prog SW to ON position.
- D) Plug chair into power supply, press and hold the TEST button on S1 switch (for five seconds). Listen for a beep to indicate it is in Manual Calibration mode. Beeps continue, one every 5 seconds, as long as you are in manual calibration.
- *E)* Extents can be manually set or skipped for each of these base and back travel points using the same keypad selections.

Extents must	To set an extent:	
always be set in this order:	Move base or back to desired extent, then press and hold button 1 for two seconds to set	Two beeps indicate extent is set.
	ine extent.	
Back High	OR, to skip setting current extent:	
Base High Back Low	Press and hold button 4 for two seconds.	Two beeps indicate extent remains at chair limit.

Note: You can abort the manual calibration procedure any time by pressing the TEST button on S1 switch.

- *F*) As soon as the final (Back High) extent is set the calibration routine begins. Step back and allow the chair to complete the necessary number of up/down cycles, which takes a few minutes.
- Note: The chair emits a short beep every 2 seconds while calibrating. When calibration is successful, the chair emits three long, confirmation beeps.

If calibration failed, the chair emits one long beep at the end of the routine. Repeat entire Manual Calibration.



Manual Calibration continued...

- G) Unplug chair from power supply and move dipswitch #4 on S2 program switch out to OFF position.
- H) Install covers (see B).
- I) Plug chair back into to power supply.
- J) Activate keypad and remote buttons to test operation.

Programming Chair Positions

To program a button to a specified chair position....

- A) Use the arrow buttons to move the chair to desired position.
- B) Press the Program Button. You will hear a single beep to indicate you are in the program mode*.
- C) Press the desired Position Button (1, 2, 3, or 4) to set the programmed position to that button. You will hear three beeps to indicate the button is programmed.

Alternate/Foot Control Programming Method: With the chair in the desired position, you can just press and hold a position button 2 seconds. The chair will beep three times to indicate the button is programmed.

* The Control device gives you 3 seconds to press (program) a Position button after you are in the Program mode. After 3 seconds the control returns to the normal operating mode.



Note

The chair can be stopped any time during a programmed positioning sequence by pressing any other button on the control device.



Special Programming Features

The number 4 Position Button is capable of being programmed to invoke any one of these three different functions.

- A) The Cuspidor Return Function.
- B) The Return to the Last Position Function.
- C) Function the same as any other Position button.

Which of these functions the 4 button invokes is dependant on a dipswitch setting on the PC Board and should only be changed by a service technician.

To recall a programmed position....

Press desired Position Button (1, 2, 3, or 4).