Position Sensor / Bracket Kits
[002-0831-0x / 002-1247-0x]

Special Tools:
multimeter

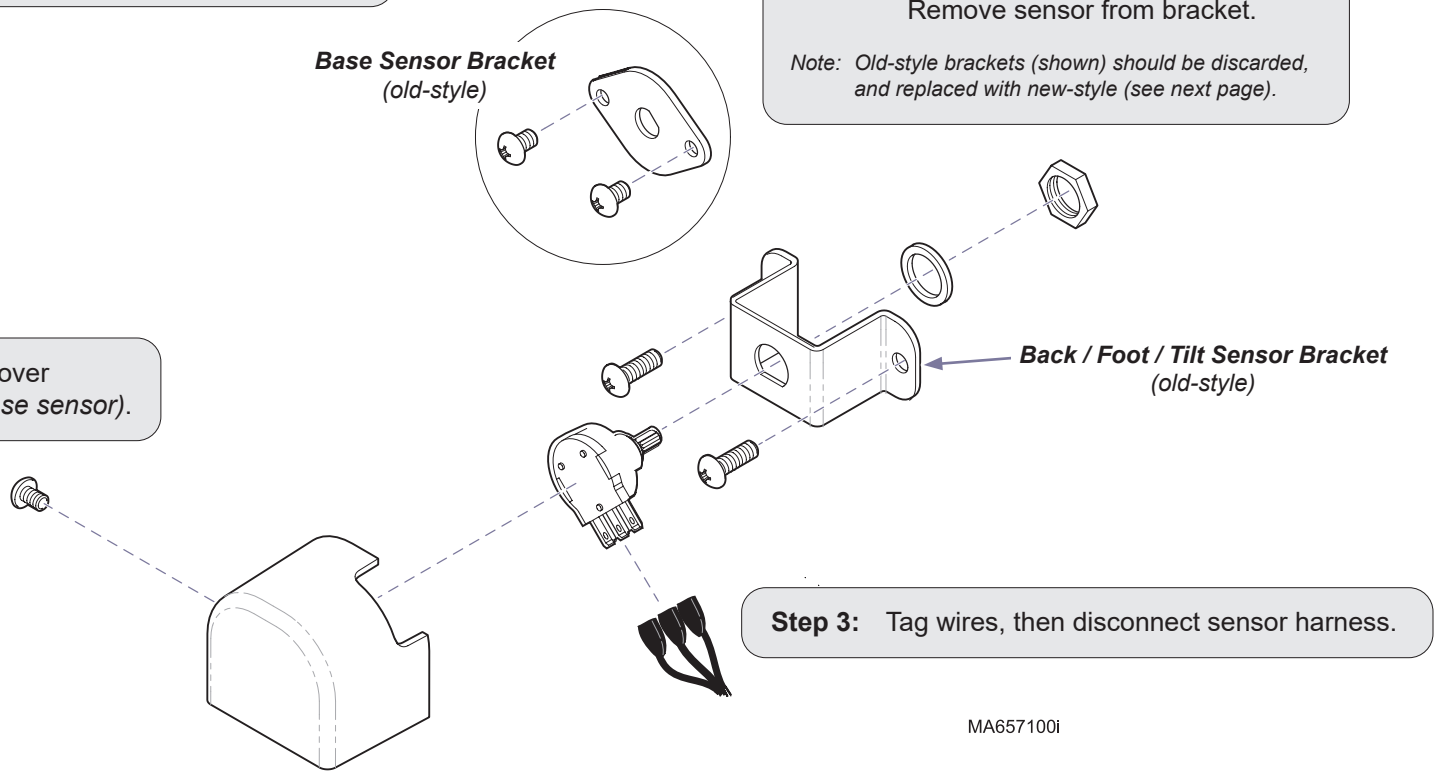
Attention
This guide applies to all variations of sensor / bracket kits.
(i.e. Sensor-only kit, Bracket-only kits, Bracket w/sensor kits)

Step 1: Move the corresponding function to its upper limit.

Example: If changing the back sensor, move the Back function all the way up.

Step 4: Remove bracket / sensor.
Remove sensor from bracket.

Note: Old-style brackets (shown) should be discarded, and replaced with new-style (see next page).



Step 2: Remove sensor cover
(or shrouds for base sensor).

Step 3: Tag wires, then disconnect sensor harness.

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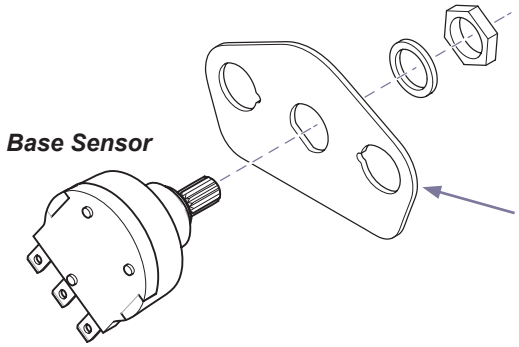
Step 5: Secure sensor to bracket.

To assemble BASE sensor to bracket...

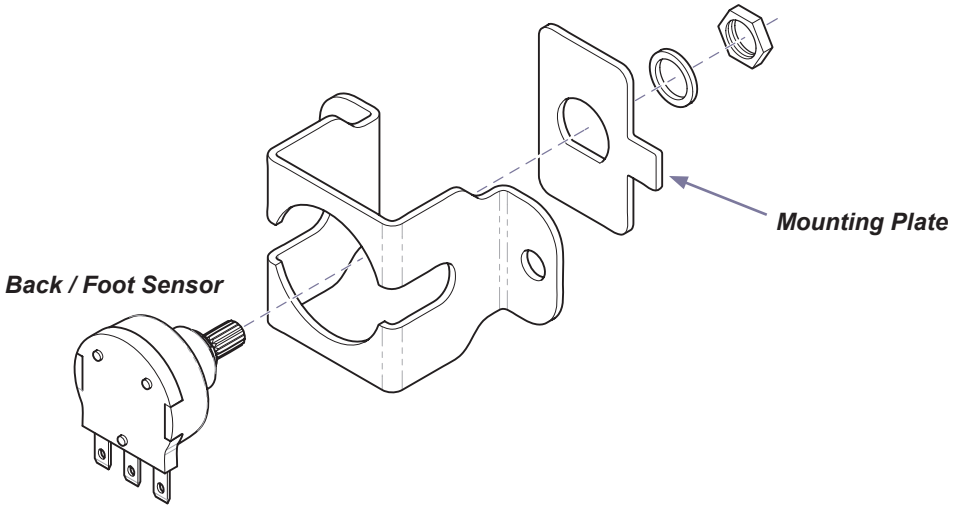
A) Position sensor and mounting plate as shown.
B) Secure with washer and nut.

Note: The sensor must be positioned as shown. If the angle of the sensor does not match the illustration, flip the mtg. plate over.



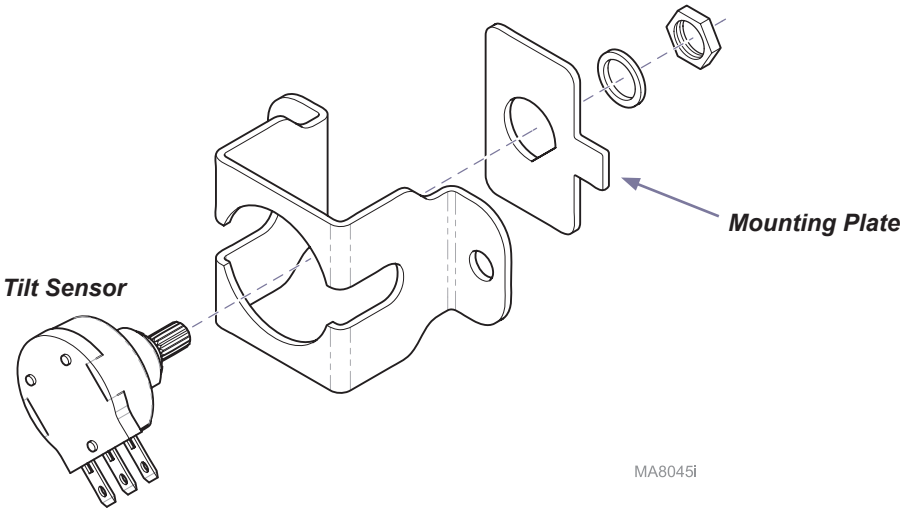
To assemble BACK / FOOT sensor to bracket...

A) Position mounting plate in bracket as shown.
B) Insert sensor thru bracket / mtg. plate.
C) Secure with washer and nut.

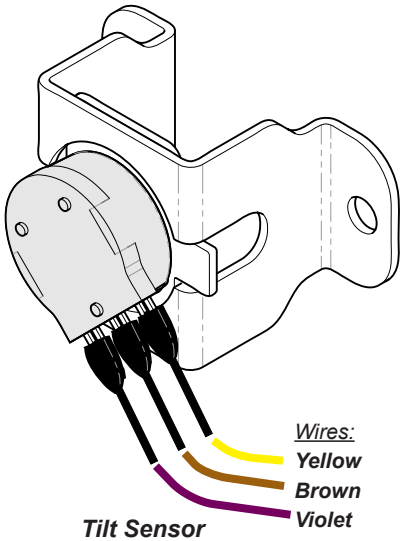


To assemble TILT sensor to bracket...

A) Position mounting plate in bracket as shown.
B) Insert sensor thru bracket / mtg. plate.
C) Secure with washer and nut.



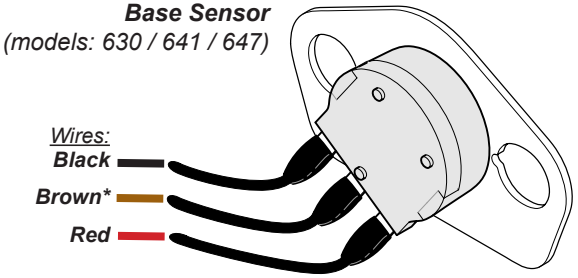
Step 6: Connect wire harness to proper terminals.



Wires:
Yellow
Brown
Violet

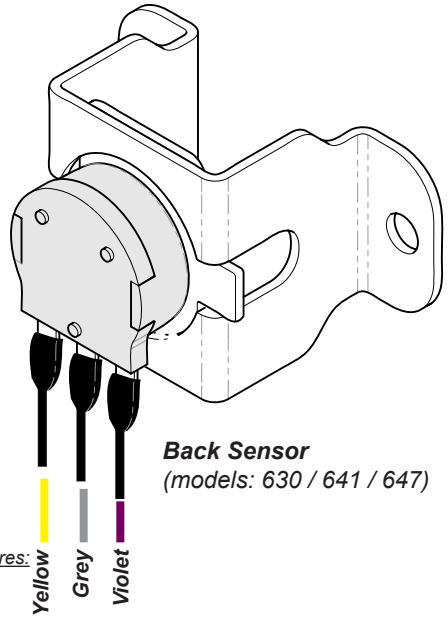
Tilt Sensor
(models: 630 / 641 / 647)

Base Sensor
(models: 630 / 641 / 647)



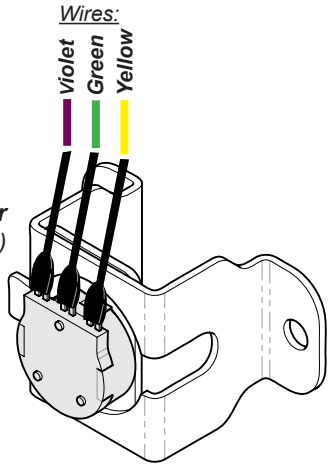
Wires:
Black
Brown*
Red

* alternate wire color:
Blue



Wires:
Yellow
Grey
Violet

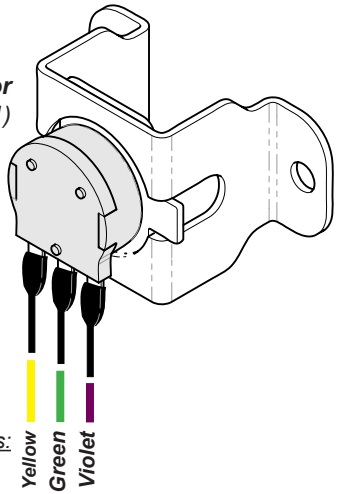
Back Sensor
(models: 630 / 641 / 647)



Wires:
Violet
Green
Yellow

Foot Sensor
(models: 630)

Foot Sensor
(models: 641)



Wires:
Yellow
Green
Violet

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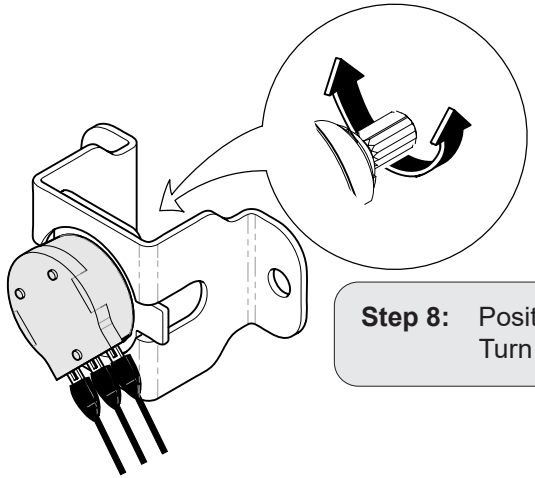
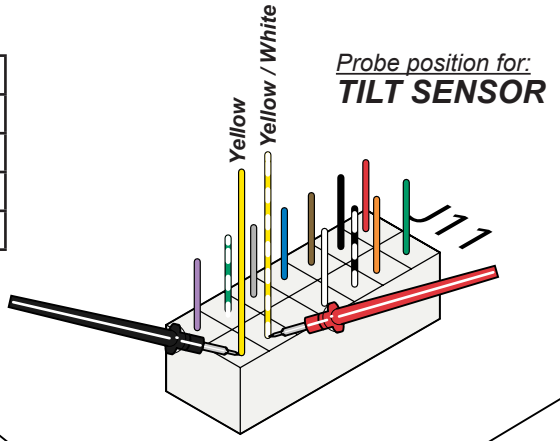
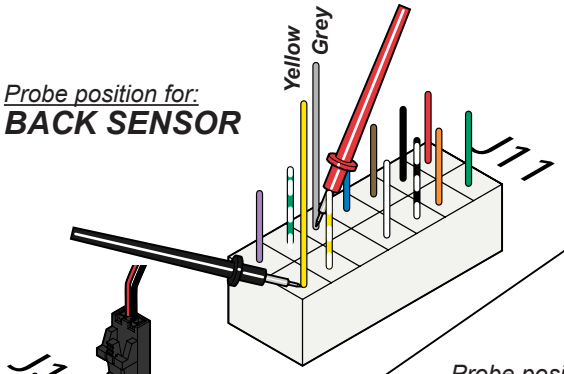
Step 7: Remove main PC board cover.
Place meter probes as shown to test desired sensor.

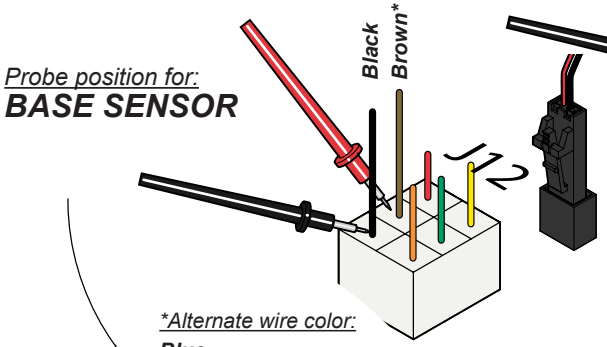


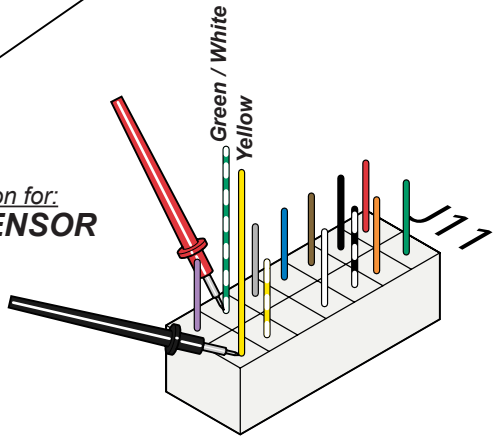
Sensor	Function Position	Voltage Reading
BASE	all the way UP	1.7 to 2.1 VDC
BACK	all the way UP	2.4 to 2.6 VDC
TILT	all the way DOWN	1.8 to 2.1 VDC
FOOT	all the way UP	2.4 to 2.6 VDC

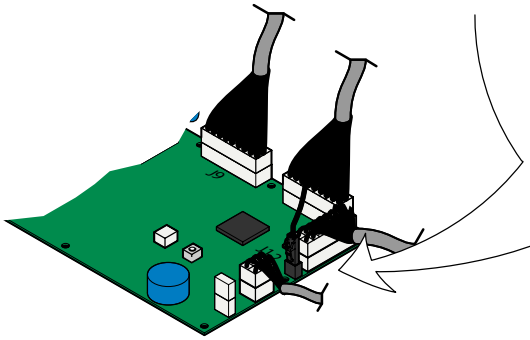
Step 8: Position chair function as indicated in the chart.
Turn sensor knob until voltage reading is in the indicated range.











*Alternate wire color:
Blue

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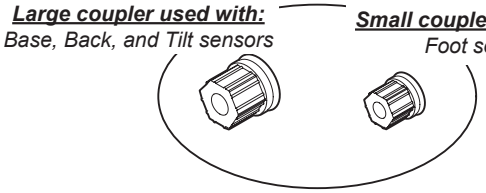
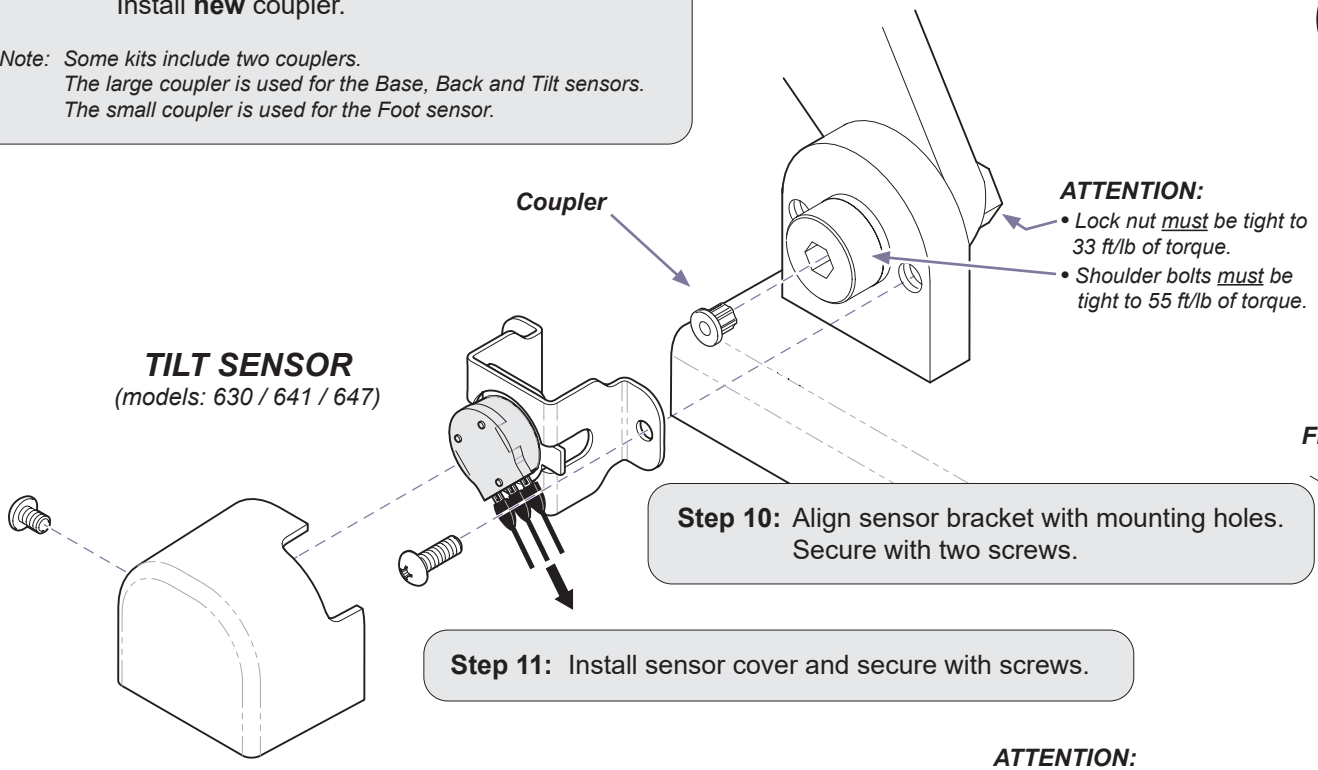
Step 9: Remove old coupler.
Install **new** coupler.

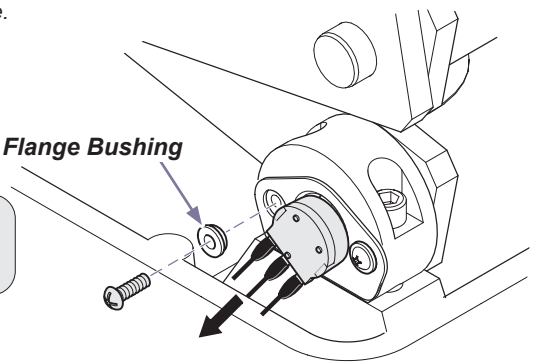
Note: Some kits include two couplers.
The large coupler is used for the Base, Back and Tilt sensors.
The small coupler is used for the Foot sensor.

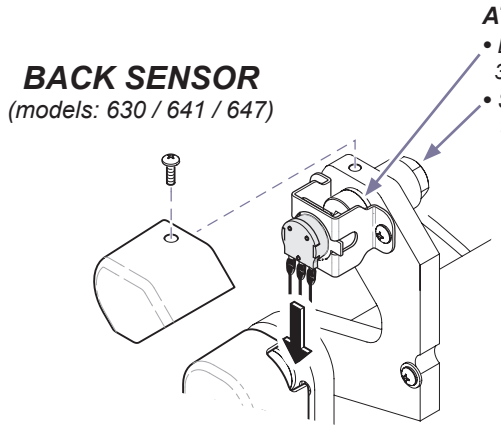


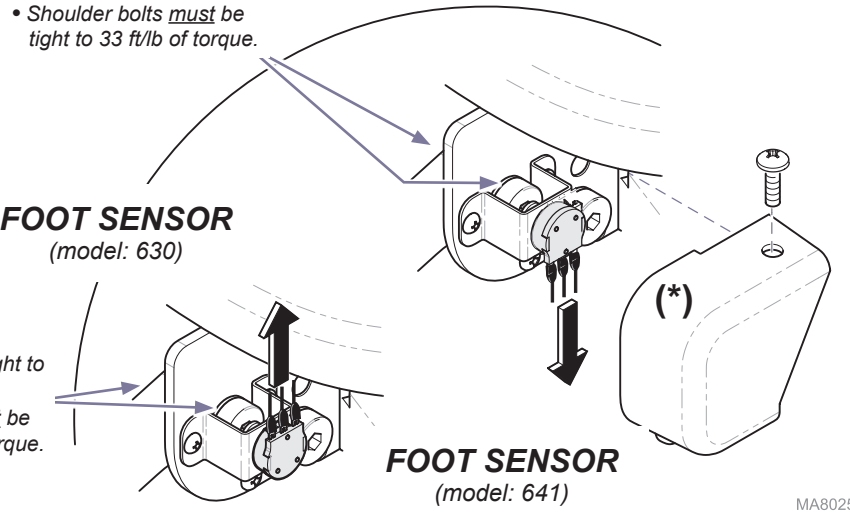


Step 10: Align sensor bracket with mounting holes. Secure with two screws.

Step 11: Install sensor cover and secure with screws.







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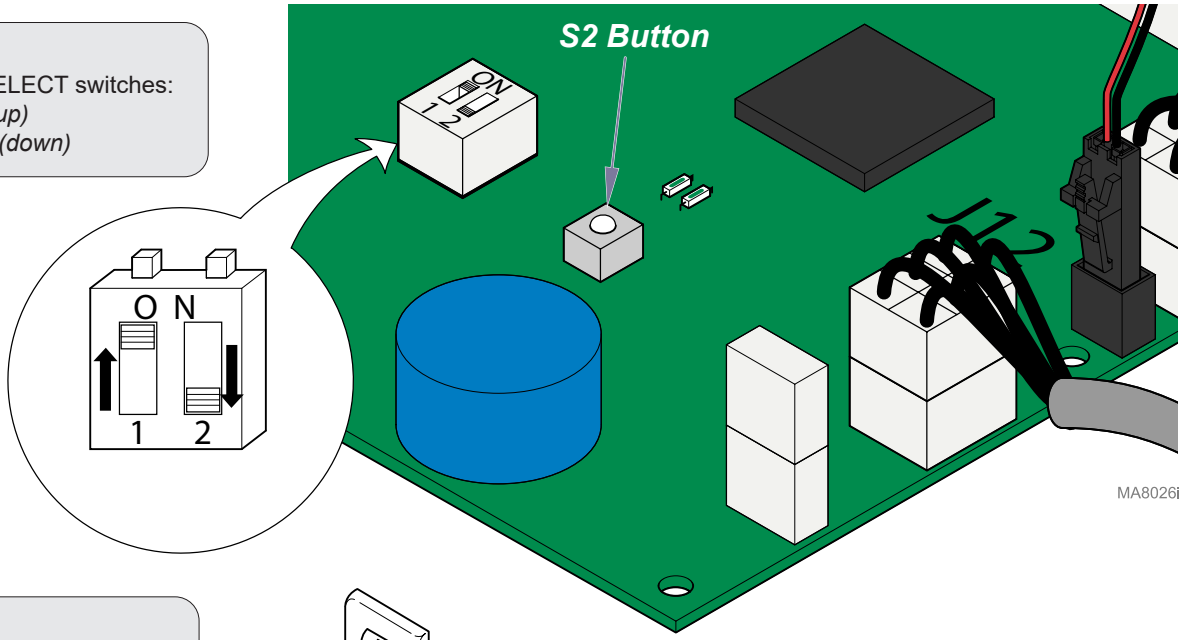
Equipment Alert
*Anytime a position sensor is removed, you **must** calibrate the PC board. Failure to do so will cause the table to malfunction.*

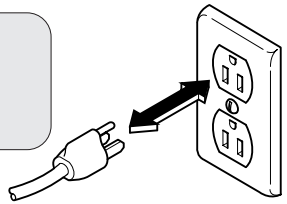
Step 12: Perform the ***Calibration Procedure***.

Calibration Procedure
Step 3: Wait 5 seconds, then press S2 button.

Calibration Procedure
Step 1: Move MODE SELECT switches:
Switch 1 - ON (up)
Switch 2 - OFF (down)



Calibration Procedure
Step 2: Unplug chair *(to reset PC board)*.
Wait 5 seconds, then plug chair back in.



Calibration Procedure
Step 4: Move MODE SELECT switches back to original position.
Unplug chair (to reset board).
Plug chair in and check for proper operation.