

Back Actuator [002-1729-0x]



WARNING

Always disconnect chair from power source before removing any covers. Failure to do so may result in personal injury.

Note

If possible, position chair with back section flat.

Note

The 631-001 does not have a seat mounting board.

Equipment Alert

The wire connections and wire routing must be put back in original locations before installing covers.

631-001

630 (-010 thru -013) 630 (-020 thru -023)

Special Tools: none

Language of origin: English

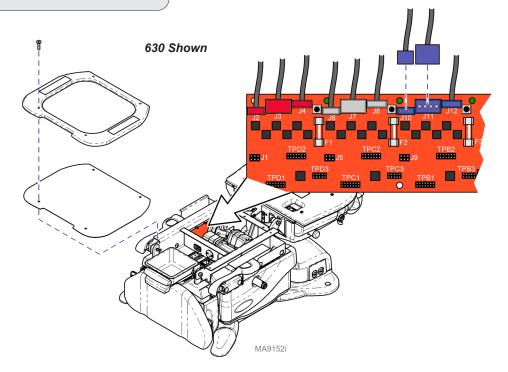
Applies to Models:





Step: 1

- A) Remove seat / back upholstery.
- B) Remove screws, seat mounting board and seat cover plate.
- C) Disconnect wire connections J10 and J11 from Motor Control Hub PC Board.

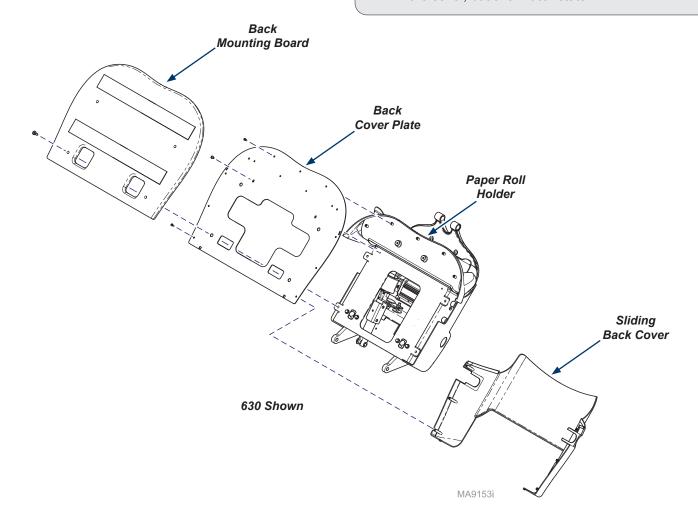


Step: 2

- A) Remove screws and back mounting board.
- B) Remove mounting screws and back cover plate.

Note: The sliding back cover and the paper roll holder on 630 models will become loose when screws are removed.

The sliding back cover on the 631-001 will not be completely loose when screws are removed. The spline brackets will hold the cover, but allow it to rotate.



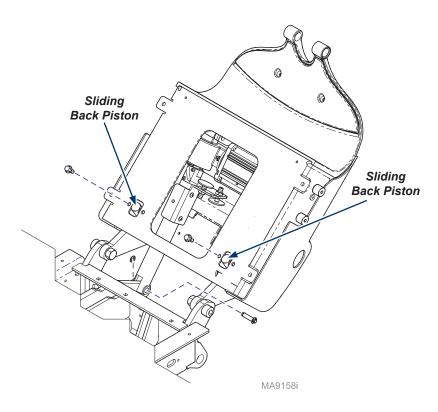


WARNING

When sliding back pistons are disconnected, the sliding back weldment will move freely. Use care when handling or serious injury <u>may</u> result.

Step: 3

- A) Remove four screws to disconnect sliding back pistons.
- B) Remove e-ring and clevis pin from bottom of actuator.



WARNING

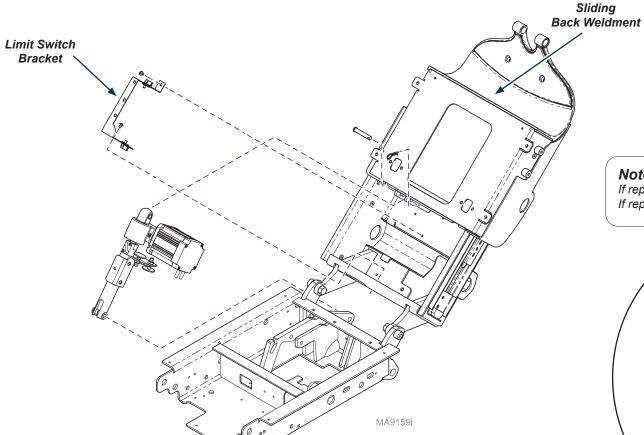
When sliding back pistons are disconnected, the sliding back weldment will move freely. Use care when handling or serious injury may result.

Note

This illustration shows the limit switch bracket removed from back weldment for clarity only.

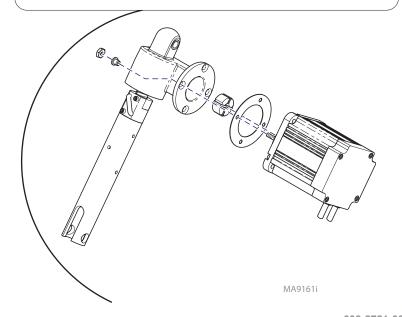
Step: 4

- A) Remove two screws and position limit switch bracket away from actuator.
- B) Remove cotter pin and top clevis pin.
- C) Angle back weldment upward, and remove back actuator.



Note

If replacing only the actuator / coupler, refer to the illustration below. If replacing complete actuator assembly, go directly to Step 5.



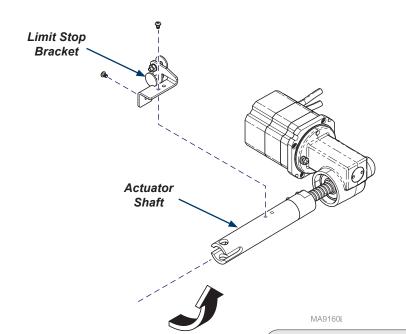
Step: 5

- A) Remove three screws and limit stop bracket from defective actuator.
- B) Position limit stop bracket on replacement actuator and secure with screws.



Equipment Alert

The <u>wire connections</u> and <u>wire routing</u> must be put back in original locations before installing covers.





Equipment Alert

Anytime the limit switch wires or the actuator wires are disconnected, the chair must be calibrated.

Step: 6

- A) From full in, spin actuator shaft outward two rotations.
- B) Position actuator into back weldment.
- C) Install clevis pin at top end of actuator and secure with cotter pin.
- D) Install clevis pin at bottom end of the actuator and secure with e-ring.
- E) Position limit switch bracket and secure with two screws.
- F) Connect wire connections to J10 and J11 on Motor Control Hub PC Board, then secure wires with cable ties.
- G) Position sliding back pistons and secure with screws.
- H) Calibrate chair.
- I) Position sliding back cover and paper roll holder, then install back cover plate and back mounting board and secure with screws.
- J) Position seat cover plate, and seat mounting board, then secure with screws.
- K) Install upholstery.

Calibration Procedure

During the calibration procedure you will hear a steady pattern of "beeps".

The chair will run all functions (base, back, tilt, foot) to their minimum and maximum positions, then return to a lowered flat position.

When calibration is complete, the chair will stop moving and you will hear three short "beeps".

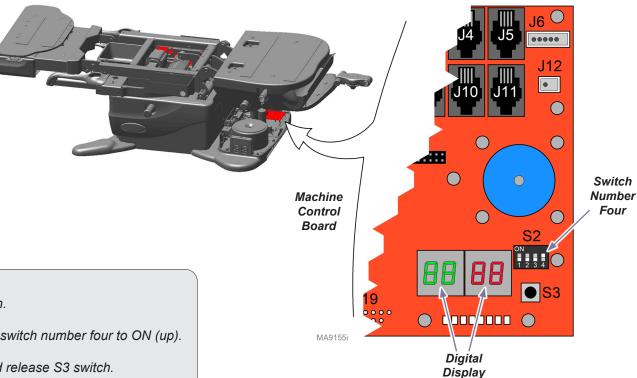
You **must** calibrate the chair in the following situations:

- After replacing Power Supply PC Board.
- After replacing Motor Control Hub PC Board.
- · After replacing Machine Control Board.
- After replacing Base, Back, Tilt or Foot actuators.
- After a limit switch bracket is adjusted.
- When an error code indicates calibration is needed.



Equipment Alert

Anytime the PC Board is removed or the actuator wires are disconnected, the chair must be calibrated.



Note

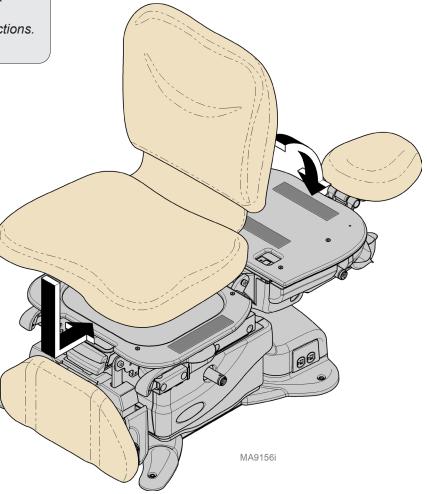
When S3 switch is pressed, then released you will hear a steady pattern of "beeps". When calibration is completed you will hear three short beeps.

To calibrate...

- A) Slide foot section to highest stowed position.
- B) Unplug chair power cord.
- C) When the digital display darkens, move S2 switch number four to ON (up).
- D) Plug in chair power cord.
- E) When the digital display darkens, press and release S3 switch.
- F) When calibration is complete, unplug chair power cord.
- G) Move S2 switch number four to OFF (down).
- H) When the digital display darkens, plug in chair power cord.

To install seat / back upholstery...

- A) Position back section of chair flat.
- B) Position front of seat section against seat mounting board.
- C) Press seat section down firmly.
- D) Position top of back section against the top of the back mounting board.
- E) Check for a consistent gap between seat and back sections.
- F) Press back section down firmly.



TP200 Rev. A

To install seat / back upholstery...

- A) Place the seat section on the chair insuring that the front is up against the seat plate and centered.
- B) Press on seat section firmly to secure.
- C) Raise back section fully up to engage the upholstery to the top of the back plate.
- D) Press on back section firmly to secure.

