

Reasons for Creating Power Positioning Restrictions

SAFETY...

- Prevents the end user from operating the wheelchair in an unsafe position. **Example: Drive Lockout** – the chair is tilted too far back to operate safely.
- Prevents the end user from moving their posture into an unsafe position. **Example: Actuator Restriction** – Prevents the individual from reclining too far and promoting a posterior pelvic tilt or prevents the end user from coming too far forward out of tilt or reclining, thus allowing gravity to negatively affect their posture.

DRIVE LOCKOUT...

This is a drive restriction that is set so that the end user cannot drive the power wheelchair if it is in too much tilt and/or recline. This is a safety restriction that allows the angle in which the lockout occurs to be adjusted, but the restriction cannot be removed from the system.

In the ECON W Programming Station...

- 1) Select the **Seat Configuration** tab at the top of screen
- 2) Click on **Inclination Thresholds** from the tabs on the left side
- 3) Locate the **Drive** Restriction type
- 4) Adjust the **Slide Bar** to the desired lockout angle



PRE-TILT...

This is a forward limiting actuator restriction that will stop the tilt actuator from coming forward past the programmed angle. This is typically used to prevent an end user with impaired trunk control from coming to a complete upright position where gravity has the biggest affect on the postural position.

In the ECON W Programming Station...

- 1) Select the **Seat Configuration** tab at the top of screen
- 2) Click on **Restrictions** from the tabs on the left side
- 3) Click on the **+** to create a new restriction
- 4) Select **Actuator Restriction** from the top drop down
- 5) Select **Forward Restricted** under the Restriction tab
- 6) Add a **Condition** by clicking on the **+**
- 7) Choose **Tilt** under the Actuator section
- 8) Choose **Inclination Condition** under the next drop down
- 9) Choose the desired restriction **Angle**
- 10) Choose **Inclination Seat Recline** under the next drop down
- 11) Choose **Total Back Angle Less Than** in the next drop down
- 12) Click on the **↓** to save the Restriction





General	RestrictionType	Limitation	Function	Condition	Inclination
Actuator	Reverse Restricted	Tilt	Total Back Angle Greater Than	Angle [°] 0 74 90	
Actuator	Reverse Restricted	Recline	Total Back Angle Greater Than	Angle [°] 0 74 90	
Actuator	Reverse Restricted	Tilt	Total Back Angle Greater Than	Angle [°] 0 25 90	
Actuator	Reverse Restricted	Recline	Total Back Angle Greater Than	Angle [°] 0 25 90	
Seat Function	Reverse Restricted	Elevate	Total Back Angle Greater Than	Angle [°] 0 25 90	
Drive	0%		Total Back Angle Greater Than	Angle [°] 0 25 90	

General	Restriction	Actuator
Condition 1	Forward Restricted	Tilt
Condition 1	Inclination Condition	Inclination Condition
Condition 1	Inclination Seat Recline	Total Back Angle Less Than

ANTERIOR RECLINE RESTRICTION...

This is a forward-limiting actuator restriction that will stop the recline actuator from coming forward past the programmed angle. This typically is used when an end user has a hip flexion ROM restriction. This limits the forward movement of the recline actuator to prevent the chair from creating too much flexion at the hips, thus potentially causing a posterior pelvic tilt and other postural asymmetries.

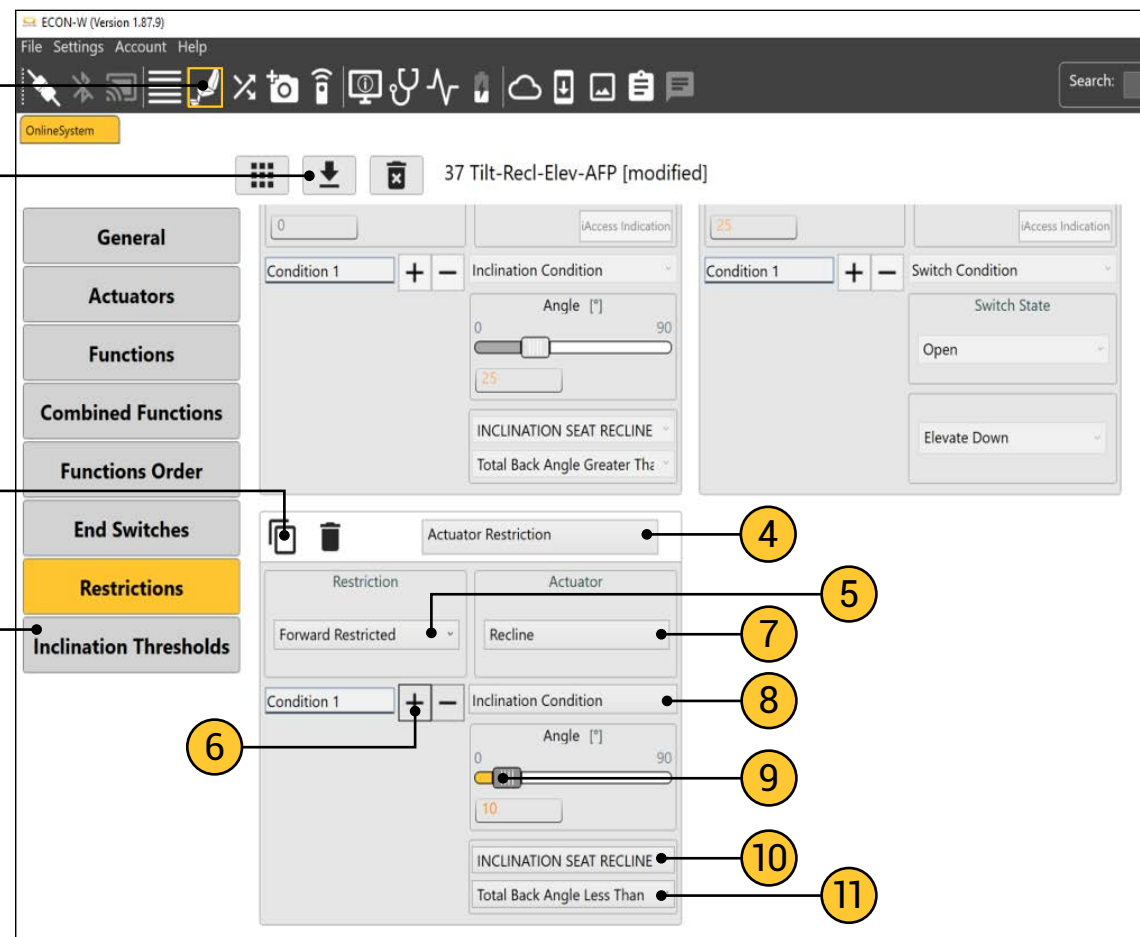
In the ECON W Programming Station...

- 1) Select the **Seat Configuration** tab at the top of screen
- 2) Click on **Restrictions** from the tabs on the left side
- 3) Click on the  to create a new restriction
- 4) Select **Actuator Restriction** from the top drop down
- 5) Select **Forward Restricted** under the Restriction tab
- 6) Add a **Condition** by clicking on the "+"
- 7) Choose **Recline** under the Actuator section
- 8) Choose **Inclination Condition** under the next drop down
- 9) Choose the desired restriction **Angle**
- 10) Choose **Inclination Seat Recline** under the next drop down
- 11) Choose **Total Back Angle Less Than** in the next drop down
- 12) Save the Restriction with the  symbol



RECLINE CONDITION MET



Chair will not recline forward any further.



POSTERIOR RECLINE RESTRICTION...

This is a rearward-limiting actuator restriction that will stop the recline actuator from moving back past the programmed angle. This typically is used to allow the end user the ability to adjust his/her reclined position, but limits the seat from reclining too far back and potentially causing a posterior pelvic tilt and other postural asymmetries.

In the ECON W Programming Station...

- 1) Select the **Seat Configuration** tab at the top of screen
- 2) Click on **Restrictions** from the tabs on the left side
- 3) Click on the  to create a new restriction
- 4) Select **Actuator Restriction** from the top drop down
- 5) Select **Reverse Restricted** under the Restriction tab
- 6) Add a **Condition** by clicking on the "+"
- 7) Choose **Recline** under the Actuator section
- 8) Choose **Inclination Condition** under the next drop down
- 9) Choose the desired restriction Angle
- 10) Choose **Inclination Seat Recline** under the next drop down
- 11) Choose **Total Back Angle Greater Than** in the next drop down
- 12) Save the Restriction with the  symbol



RECLINE CONDITION MET

Chair will not recline back any further.

