

USER INSTRUCTIONS

HydroTilt XL



UI



CE Class 1
Medical Device



The HydroTilt is a flexible seating system incorporating patented WaterCell Technology®, Reflexions® Foam and Tilt-in-Space technology to improve posture and pressure management for individuals with specialist seating requirements.

WARNING

A level of supervision appropriate to the user's abilities should be applied at all times.

HydroTilt XL



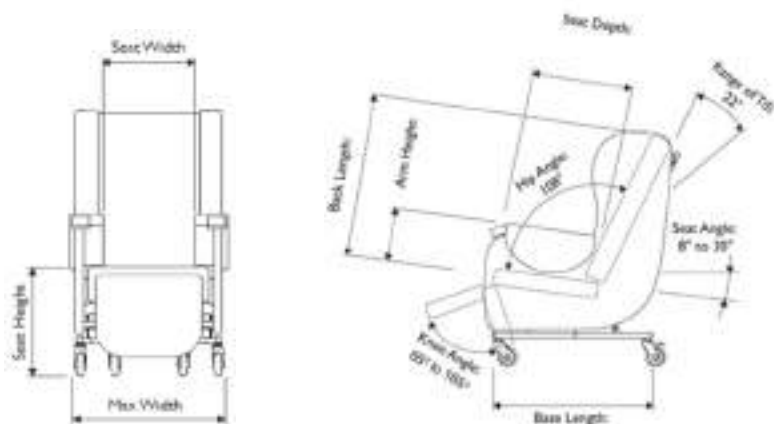
Your HydroTilt Chair

These are the User Instructions (UI) for the HydroTilt XL chair from CareFlex.

Please read them carefully before using the chair and store them in a safe place for future reference.

For your HydroTilt XL to perform correctly it is essential that you have the correct size of chair to suit the client. Please use the technical details below to check the HydroTilt XL technical specification for suitability for user requirements.

SEAT WIDTH	SEAT HEIGHT	MAX WIDTH	SEAT DEPTH	BASE LENGTH	BACK LENGTH	ARM HEIGHT
60-65cm	56cm	85cm	38-53cm	106cm	80cm	24cm



If you are in any doubt about the safe operation of the HydroTilt XL, contact CareFlex or your local distributor for clarification and further training.

HydroTilt XL



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IMPORTANT SAFETY INFORMATION

- Please take the time to familiarise yourself with all aspects of the chair and its functions before using the chair.
- Do not sit on the legrest, or footplate (if fitted), or subject them to excessive loads.
- Do not attempt to stand on the footplate (if fitted).
- Regularly check the chair and its accessories for signs of damage or excessive wear.
- If there are any doubts as to the safe operation of the chair and any accessories, please contact CareFlex or your local CareFlex distributor.
- Always check the appropriateness of an accessory for a client. Do not assume that the same configuration can be used by different clients.
- Always try to avoid storing or using the accessories in areas where they may obstruct exits or passageways, or where they will be subjected to excessive damp or humidity.
- Take care not to drop or knock any fitted accessories during transport and storage.

11 LOOKING AFTER YOUR HYDROTILT XL

CARE & MAINTENANCE

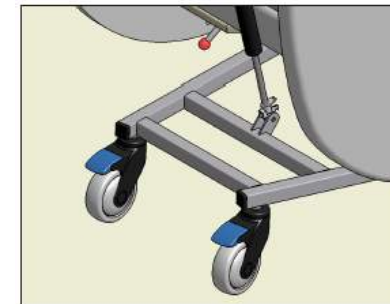
- When the chair is delivered and every time it is used, check the chair over for signs of damage or excessive wear.
- If your chair shows signs of excessive wear, damage or incorrect performance, take it out of service immediately and contact CareFlex or your local CareFlex distributor.
- If the client is experiencing severe discomfort, do not use the chair. Take it out of service immediately and contact CareFlex or your local CareFlex distributor.
- The HydroTilt XL is upholstered in high quality material which is waterproof and fire retardant. However, do not store or use the chair in damp or wet areas.
- Do not attempt to carry out any structural maintenance or adjustment of your chair, or any associated accessories without consulting CareFlex or your local CareFlex distributor.
- Details of cover material care and maintenance can be found in the Fabric Guide. It is available in hard copy on request from CareFlex, and is free to download at www.careflex.co.uk

IDENTIFICATION

- Each HydroTilt chair has a unique chair number which must be quoted during any correspondence with CareFlex or your local CareFlex distributor. This is on a silver foil label affixed to the top of the Tilt-in-Space action bar. To view this you will need to partially remove the rear fabric valance.

1 BRAKES

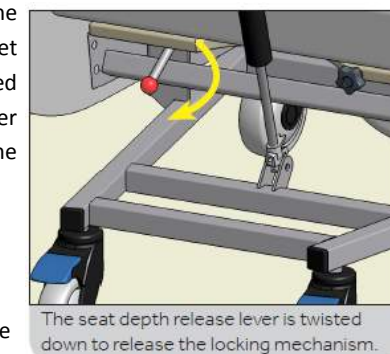
- Use your foot to press down on the end of the brake lever/pedal to lock each of the four castors.
- Gently kick the top of the brake lever to unlock the castors.
- **Always brake the castors before transferring the client on or off the chair.**



2 SEAT DEPTH

Seat depth is the most important feature for the correct performance of your chair. When set correctly, the client's buttocks should be positioned right back in the seat and there should be a two finger gap between the client's calves and the front of the seat cushion. To adjust the seat depth:

- Locate lever at the back left-hand side of the chair.
- Twist lever down and pull/push handle on the right hand side until the seat depth is in desired position.
- Release the lever and pull the handle until you feel the seat 'click' positively into position.
- **Never adjust the seat depth when the client is in the chair.**



HydroTilt XL



The HydroTilt XL is fully motorised using a 24V DC Battery powered system as standard, with Tilt-in-Space and Legrest functions being controlled via the hand controller.

3 TILT-IN-SPACE

- To activate the Tilt-in-Space actuators and tilt the chair operate the two lower buttons on the handset and adjust the angle of the chair to the desired position.
- **Do not attempt to raise the client to a standing position when the chair is tilted backwards.**



4 LEGREST ELEVATION

The legrest can be elevated for a more comfortable seating position:

- To activate the legrest actuators operate the two upper buttons on the handset and adjust the legrest angle of the chair to the desired position.

HydroTilt XL



10 AUTOTILT OPTION

The AutoTilt facility has been developed to enhance the features of pressure management already found in the HydroTilt, and to make more efficient use of the healthcare resources needed to achieve good pressure care.

AutoTilt reduces the amount of carer input by automatically adjusting the position of the chair at timed intervals. Every 20 seconds two microprocessors move the HydroTilt XL through 0.5° of travel—just enough to be perceptible to the occupant and to slightly re-focus the pressure points on the body. The AutoTilt cycle starts from a seating angle of 20° with the occupant safely and securely positioned; AutoTilt then moves through 12° in a period of 8 minutes, gently tilting the HydroTilt XL back and returning, over the same period of time, to its starting position.

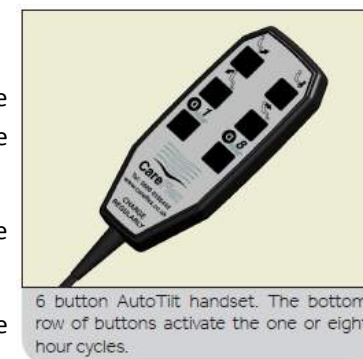
AUTOTILT IN USE

AutoTilt can be programmed to repeat this cycle for one or eight hours, ensuring optimal pressure care for those that need it most.

A chair fitted with AutoTilt has six buttons on the hand controller, instead of the usual four.

- By depressing the bottom left button, the 1 hour cycle will begin.
- By depressing the bottom right button, the 8 hour cycle will begin.

If the chair is fully upright it will begin to tilt backwards at the prescribed intervals. Once it has reached its maximum backwards tilt it will begin to return to a more upright position. It will stop at the half-way point of the Tilt-in-Space range and begin to return to full maximum backwards tilt. This pattern will repeat until either the 1 hour or 8 hour cycle has elapsed.



HydroTilt XL



10 MOTORISED SYSTEM

The HydroTilt XL is fully motorised using a 24V DC Battery powered system as standard, with Tilt-in-Space and Legrest functions being controlled via the hand controller.

BATTERY CHARGING

- When first delivered and before it is used, charge the batteries for at least twenty four hours to ensure they are at full power.
- Similarly, if the motors have not been used for a prolonged period, charge the batteries for twenty four hours to restore full power.
- Establish a regular routine for battery charging; charging the batteries overnight is recommended.
- The battery unit will sound an audible warning signal when the battery is nearing its minimum recommended charge. Charge as soon as possible once this signal is heard.
- **Only chargers supplied by CareFlex should be used. Do not use a CareFlex charger to charge other products.**
- Fit the jack plug connected to the charger into the socket on the hand control unit.
- Plug the charger into a 240V AC mains electric supply and switch on the power to the charger.
- At the end of the charge cycle, switch off the charger and disconnect all charger lead
- **Do not leave the charger connected to the chair with the mains power off**
- **Do not move the chair with the charger connected**
- **Do not charge the chair when there is a client in the chair**



HydroTilt XL



5 FOOTPLATE

The footplate can be attached for clients that require their feet to be supported. The footplate fits into a bracket that is fitted on to the rear of the legrest. The footplate can be adjusted to suit different lower leg lengths;



- Pull out the locating pin on the legrest bracket
- Slide the footplate up/down to adjust it to the desired setting
- Release the locating pin
- The pin should 'click' positively into position

When fitted with a flip-up footplate the HydroTilt can accommodate fixed angles of plantarflexion at the ankle, and provides a more restful ankle position whilst supporting the foot. The footplate can be adjusted and set to a choice of 5 positions; +90° (vertical), +17°, 0° (horizontal), -15° and -30°. To adjust the angle:



- Locate the pull strap on the right hand (client's right) underside of the footplate (circled).
- The footplate can now be adjusted to the preferred angle setting
- Release the pull strap—the footplate will now lock into the nearest setting
- The footplate can be set to the 90° (vertical) position to aid transfer into and out of the chair

HydroTilt XL



6 HEADRESTS

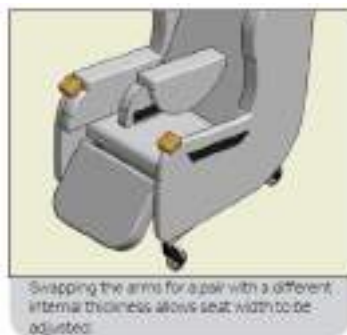
Headrests should always support as much of the client's head as possible. They can be adjusted up and down via the strap which loops around the push handle.



7 ADJUSTING SEAT WIDTH

Seat width can be easily adjusted by swapping the removable arm cushions. To adjust the arms:

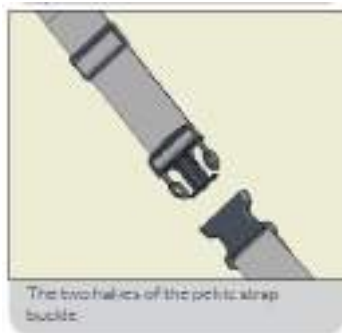
- Gently separate the Velcro holding the arms in place and swap the arms for the most appropriate size
- The semi-circular curve of the cushion must always be fitted to the outside of the chair
- When adjusting the seat width always allow a small, equal gap either side of the client for movement



8 PELVIC STRAP

The Lap/Pelvic strap length is adjusted by the two part buckle and tri-glide adjuster:

- To fasten the belt, click the two halves together
- To release the belt, press tabs on the sides of the buckle and pull apart
- **The pelvic belt is a posture aid, not a restraint. The client must be supervised by suitably trained personnel at all times if they are using a Lap/Pelvic belt**



HydroTilt XL



9 BACK CUSHIONS

LATERAL SUPPORT WATERFALL BACK

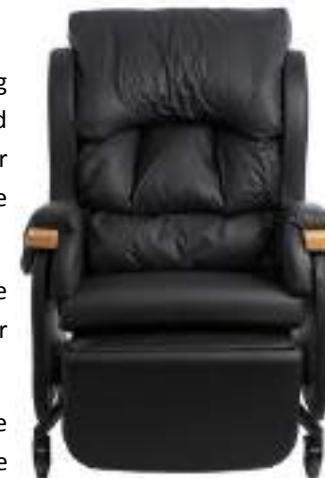
Note: If the Lateral Support Waterfall back is being fitted to a HydroTilt XL that was originally supplied with a Flat back, then the back cushion, lumbar WaterCells and lower foam lozenge need to be removed.

The Lateral Support Waterfall back consists of one head cushion, a lateral contoured cushion, a lumbar roll, a valance and a medium sized foam lozenge.

The head cushion is divided by baffles which create three compartments within the cushion; the side compartments are densely filled to give support to the shoulders, and the top section provides stable head support through the full range of Tilt-in-Space.

The lateral contoured cushion has been developed to provide additional contouring support and is positioned below the head cushion. The lumbar roll is fitted in the lowest position on the seat back, and can be easily removed to accommodate clients who have a gluteal shelf.

The cushions are fitted as already described for the standard Waterfall back, making use of hook and loop strips and working from the bottom (lumbar roll) cushion upwards to the headrest cushion.

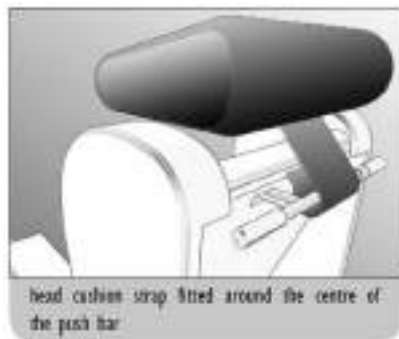


9 BACK CUSHIONS

WATERFALL BACK—FITTING (Cont.)

The head cushion is attached via a strap which is fitted around the centre of the push handle mounted on the back of the chair.

The head cushion is height adjustable and the length of the strap can be adjusted once the height of the head cushion is established for the client.



Wrap the strap around the centre of the push handle and adjust the tension of the strap so that the cushion is not likely to slip up or down. Fasten the hook and loop closures on the inside of the strap together to hold the position of the head cushion.

WATERFALL BACK—IN USE

Although the Waterfall back is highly conforming, it still requires correct adjustment to ensure maximum comfort.

Once the occupant is in the chair, move the head cushion up/down to ensure comfortable support to the shoulders and top of the spine.

The amount of head support required will depend upon their spinal profile and the degree of Tilt-in-Space the chair is set to provide. Some change to the head cushion may be necessary as Tilt-in-Space is adjusted. The spacing between head cushion and the back can be adjusted by lowering or raising the medium lozenge already fitted, or adding/removing foam behind the head cushion.

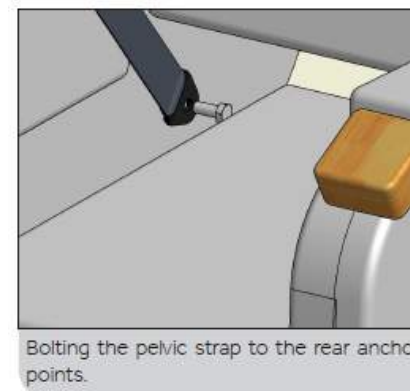
8 PELVIC STRAP—FITTING

A pelvic strap is attached to the side panels of the HydroTilt XL behind the seat cushion. The strap is fitted through the gap between the seat and back cushions and across the client's hips at a 45° angle. This strap position is intended to keep the pelvis in an upright position by pulling the user as far back into the seat as possible.

It is essential that the strap is always correctly adjusted. Regularly check the tension of the strap so that the client is correctly supported and cannot wriggle beneath, or otherwise become trapped by, the strap.

To fit a pelvic strap;

- Remove the seat cushion to reveal the fixing points on each side of the seat board.
- Use a 17mm spanner to fasten the bolts (supplied) through the steel plates on the ends of the pelvic strap into the fixing points.
- Ensure the bolts are firmly tightened and replace the seat cushion.



HydroTilt XL



9 BACK CUSHIONS

The HydroTilt XL is available with three different back configurations.



Waterfall Back



Flat Back
including headrest



Lateral Support Waterfall Back

WATERFALL BACK

The Waterfall back consists of two lumbar cushions, one head cushion, a valance and a medium sized foam lozenge. The lumbar cushions are fibre filled with a foam core to prevent the fibre 'bottoming' out, and to help maintain the deep shaping of the cushions. The head cushion has three compartments within the cushion; the side compartments are densely filled to give support to the shoulders and the centre section provides stable head support through the full range of Tilt-in-Space.

All HydroTilt backs incorporate hidden support and shaping from either WaterCells and/or foam lozenges which are fitted in pockets on the back board of the chair. The standard Waterfall back utilizes this principle and is supplied with a medium thickness foam lozenge to sit behind the head cushion. This has the effect of moving the head cushion forward to provide head support when the chair is tilted forwards. The lozenge can be removed or complemented with additional lozenges to best suit the spine, neck and head profile of the client.

HydroTilt XL



9 BACK CUSHIONS

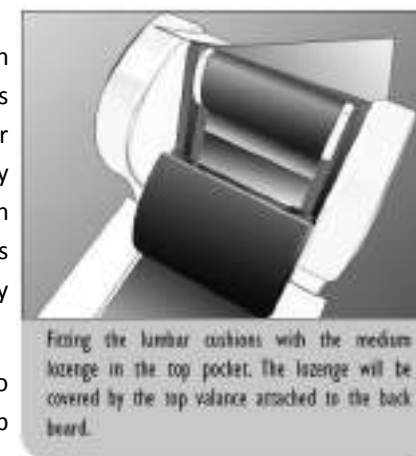
All cushions consist of a zipped cover, which gives access to the internal fibre filled pillows.

WATERFALL BACK—FITTING

Note: If the Waterfall back is being fitted to a HydroTilt XL that was originally supplied with a Flat back, then the back cushion, lumbar WaterCells and lower foam lozenge need to be removed.

The Waterfall back lumbar cushions have a tear-drop profile. The wider, rounded edge should point down towards the seat. Tabs either side of the zip opening have loop fastenings which attach to the vertical strips of hook fastening on the back board.

Rest a lumbar cushion on the seat and attach the tabs on the cushion to the vertical strips of hook. Then, position the second lumbar cushion on top of the first so that they overlap by approximately a third and attach the tabs on the cushion to the vertical strips of hook on the back board, in the same way as the first lumbar cushion.



A medium sized foam lozenge is fitted into the top pocket on the back board. The top fabric valance attaches to the hook strip running along the top outer edge of the back board and folds over the lozenge. The sides of the valance need to be tucked down under the bottom edges of the wings.