

USER'S MANUAL



ORTHOFAB



Please give this manual to the user of this Tango CE tilt wheelchair.



Please read the entire manual before using the Tango CE tilt wheelchair. Please refer to this manual as needed and pay close attention to the warnings until you are familiar with them.



For any questions about items not covered in this manual, consult a technician at an authorized service centre, or contact our customer service department at 1-418-847-5225 or toll free at 1-800-463-5293.

Centre:	
Address:	
Phone:	



Adjustments to your Tango CE tilt wheelchair should only be performed by health care professionals. Improper adjustments can cause injury and/or damage to the occupant, the assistant, the tilt wheelchair, or the environment.



Do not install accessories that are not authorized and not approved by **ORTHOFAB**. Always consult a health care professional for any modifications to your Tango CE tilt wheelchair.



ORTHOFAB is pleased to have you as a customer. Thank you for choosing one of our products.

The **ORTHOFAB** staff is motivated by our commitment to customer satisfaction and to exceeding your expectations. This is why **ORTHOFAB** offers a comprehensive warranty on all mechanical parts and components.

However, the warranty does not apply if:

- a) a defect is due to installation of a component or part from a manufacturer that is not authorized by **ORTHOFAB**;
- b) the device or component was repaired by an establishment that is not authorized by **ORTHOFAB**.

Additionally, damage caused by abuse, neglect, accidents or normal wear and tear are not covered by the warranty.

This instruction manual is designed to help you use the **Tango CE** tilt wheelchair safely and effectively. It has information on safety, operation and adjustment.

The **Tango CE** tilt wheelchair features a number of customizable options to suit each user's individual needs. The necessary adjustments and settings for the safe and optimal use of your unit must be made by a qualified health care professional from a licensed health care facility in Quebec.

To optimize the unit's performance and to extend its life, it's important to schedule an annual check-up by a technician at an authorized service centre.

ORTHOFAB is not liable for any damage to persons or property resulting from improper or negligent use of its products, lack of care, or modifications made without its written consent.



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SAFETY RULES

1.1 GENERAL INFORMATION

(Applies to all ORTHOFAB wheelchairs)



The driving settings should only be adjusted and/or modified by a health care professional or an authorized service technician.

1.1.1 BEFORE YOU HIT THE ROAD

- Check the charge indicator on the control box to ensure that the batteries are sufficiently charged.
- Check that the anti-tips are installed.
- Check for adequate tire pressure (please see the user's manual for your electrically powered wheelchair).
- Check that nothing is obstructing the wheels (scarf, umbrella, etc.).
- Check that your seating position is stable.
- Return the reclining back support to the upright position.
- Return the tilting mechanism to the driving position (the seat should be as close to horizontal as possible).
- Buckle your pelvic positioning belt, with minimal slack.
- Check that the retractable leg supports are securely locked in the front position and that your feet are stable.
- Lower the leg supports.
- Check that the retractable or removable arm supports are locked in place.
- Check that the control box is positioned to allow you to comfortably perform all of the control
- Check that the cables for the control box, positioning light switch and accessory control are properly attached to prevent them from getting caught in the wheels or a door frame.
- Check that the rubber cover under the end of the joystick is in good condition. If not, have it repaired immediately.
- Check that your personal belongings do not interfere with the proper operation of the wheelchair.
- Check that the brakes are fully engaged.
- Do not attach or carry heavy objects to the back support of your wheelchair (backpack, groceries, etc.).
- Do not use the wheelchair to pull loads, such as trailers.
- Do not release the brakes on an inclined surface.
- If you intend to be stationary for any length of time, turn off your electrically powered wheelchair. This will reduce the risk of accidentally touching the joystick and also prevent any unintentional movements that might be caused by electromagnetic interference.



1.1.2 GETTING AROUND IN A WHEELCHAIR

- Avoid any impacts to the control box or joystick;
- Avoid slippery (snow, ice, etc.) or uneven surfaces (unmanaged trails and tracks, construction sites, etc.).
- Do not change direction abruptly at high speeds.
- Do not drive on expressways or high traffic lanes.
- Do not pull a trailer or carry passengers.
- Do not drive in extreme weather conditions (i.e., storms).
- When traveling outside at night, make sure you are visible to others.
- Do not go downhill in reverse.
- Do not approach a climb diagonally. Always climb in a straight line, in the direction of the incline.
- Operate the joystick carefully when starting on a hill to avoid tipping backwards.
- Do not turn around on an incline.
- Reduce your speed in tight or congested areas.
- Reduce your speed in crowds and use your horn to signal your presence.
- When faced with an obstacle, stop and go over it gradually.
- The wheelchair can climb 60 mm obstacles. However, it is strongly recommended to avoid thresholds over 38 mm (1 1/2 in.) as this could, depending on surface conditions, put your stability at risk.
- Use elevators to move from one floor to another.
- Do not climb a surface with a slope exceeding 10° (17% slope).
- Do not travel without your feet on the foot supports;
- Always use and properly adjust your pelvic positioning belt.
- Do not ride an escalator with your wheelchair.
- Keep your hands away from the wheels when your electrically powered wheelchair is in motion.
- Wear tight-fitting clothing, as loose clothing can get caught in the wheels.
- Avoid areas with uncertain ground conditions.
- Avoid inclement weather, rain or snow. If you find yourself in such conditions, find shelter as soon as possible. Dry your wheelchair before using, loading or storing it.

1.1.3 CROSSING A SLOPE

- The wheelchair can negotiate slopes at low speed, with a maximum incline of 10°, external or internal, and a length of at least 3 metres, alone or with an assistant. The assistant must always be at the back of the wheelchair, whether ascending or descending, and should hold the back support posts.
- Do not make sudden stops and starts.
- Always fasten the positioning belt.
- Anti-tips must be fitted to the wheelchair.
- Anti-tips must not be damaged or worn.
- When descending a slope, do not let the wheelchair accelerate.
- Stop if you feel you are losing control.



- Restart slowly, without letting the wheelchair accelerate.
- Do not approach a slope diagonally.
- Climb and descend slopes in a straight line, directly along the slope's axis; This reduces the risk of tipping or falling.
- Avoid slippery slopes or surfaces.
- Avoid quick turns from a slippery surface to a grippy surface to prevent tipping.
- The wheelchair will maintain stable and in control of its path if all of the above conditions are met. Ascending or descending an incline with a tilt wheelchair is possible, if the consulting health care professional is satisfied that the user understands the limitations of the wheelchair and is able to navigate under these conditions.

1.1.4 TRANSFERRING

- Always **switch off** the control box before transferring or transporting. Retract the control box if necessary.
- Fold down the foot supports.
- We recommend that you remove the foot supports before transferring.
- Always apply the brakes before transferring or before sitting in the wheelchair.
- Never lean forward or backward to reach an object.
- Position yourself sideways to the object to be reached, as close as possible.
- Use the arm support transfer supports to help you stand up, after checking that they are securely in place.
- Never sit on a reclining back support.
- Never stand on the foot supports.
- Never sit on the arm supports.



1.1.5 MISCELLANEOUS HANDLING



Do not charge the batteries in your bedroom. Charging the batteries may release harmful gases.

- Never immerse your wheelchair in water.
- Never store your wheelchair unattended.
- Never leave your wheelchair in the rain.
- Do not store your wheelchair in a damp or very cold place (this could cause serious damage).
- The occupant can remain seated in the wheelchair while travelling on a road vehicle adapted for transporting disabled persons, if the driver and owner of the road vehicle comply with all legislative requirements, regulations, policies, directives, standards, instructions and recommendations of any competent authority.
- Do not approach inclined surfaces when the wheelchair is in freewheel mode. If you must do so, the assistant should always be at the bottom of the slope relative to the chair.
- Do not lift the wheelchair by its detachable components (arm supports, leg supports, etc.).
- Do not operate your charger in a sealed environment (backpack, closet, drawer, etc.).
- Switch off the charger before removing its plug from the wheelchair.
- Do not modify the battery charger connection (110 V AC).
- Do not modify the connection (24 V DC) to the wheelchair.
- When charging the batteries, check that the battery charger plug is fully inserted into the box.
- Never charge the batteries in your bedroom.
- Never connect electrical equipment that is not manufactured by ORTHOFAB to your ORTHOFAB wheelchair.
- Do not alter the integrity of the wheelchair's electrical system.
- Make sure to protect the control box when transporting the wheelchair.
- Immediately replace any damaged power cables.
- Regularly maintain your chair as recommended in this manual.

1.1.6 CLEANING AND DISINFECTING

◆ To disinfect the wheelchair, first remove all accessories that require special treatment and those that cannot be treated:



Special treatment: Any upholstery from which foam cannot be removed (back support, lower leg support, etc.). Disinfection by hand. First clean with a cloth and a cleaning agent, apply a disinfectant, wait the required time and then wipe dry.

Not treatable: Electronic components (batteries, controllers, accumulator).

- Use a soft cloth to clean the control box and joystick as soon as they become soiled.
- ♦ Washing fabric: remove foam and machine wash the cover in warm water, delicate cycle, with mild soap. Hang to dry. Do not use alcohol-based detergents or thinners.
- ♦ For other components, we recommend using pre-moistened alcohol and/or quaternary ammonium wipes.





2 RECOMMENDED USE

Tango tilt wheelchair models have several customization options to meet the occupant's specific and individual needs, while also making it easier for assistants and caregivers to handle the chair. To ensure the utmost comfort for our customers, all models are equipped with specialized posture components and provide all the mechanical functions to adjust these components.

The seamless integration of the variable tilt and different propulsion modes means that you won't have to compromise between resting posture and the correct posture for driving the wheelchair.





3 SPECIFICATIONS

Weight: 78 lbs For basic setup, including solid back support, seat plate, leg supports, wheels, tension bar with head

support anchor.

Maximum user weight: 350 lbs.

Frame

Total width: Working width + 8 ½ in.

spread

Rigid frame (non-folding)

Adjustable centre of gravity (5 positions, 1 in. increments)

Centre of gravity tilt (Tango CE) from 0° to 40°

Seat

Width: 18 to 24 in. Depth: 16 to 22 in. Height: 14 to 19 in.

Rigid seat

Back support

Angle adjustable from 90° to 120° in 5° increments

Back support post height from 16 to 24 in. Tension bar with head support anchor

Angle-adjustable push bar

Gas cylinder back support tilting mechanism

90° to 130°

Head support

Flat and padded

Adjustable head support mount

Arm support

Removable "T" type, height adjustable from 8 to 12 in. or

from 10 to 14 in. (Tango CE)

2-inch wide, 10-inch or 14-inch straight comfort padding

Leg support assembly

Swivel and removable

60° or 70° parallel support with adjustable length from 14 in. to 19 in. or from 19 in. to 21 in.

90° parallel support with adjustable length from 14 in. to 19 in

Manual height adjustable leg supports, from 15 to 21 in.

Heel support strap

Lower leg support strap

Folding foot support plates

Standard and oversized.

Adjustable angle and depth, standard or oversized

format

Adjustable full-width Bumper with castors

Front wheels

8 in. semi-solid tires

6, 7 or 8 in. semi-solid, high-density tires

8 in. air tires

Rear wheels

20, 22 or 24 in. semi-solid tires

Reinforced spokes with 24 in. tube tires (heavy duty

option)

12 in. semi-solid molded plastic tire Threaded or quick-release axles

Spoke guard

Hand rims

Smooth anodized aluminum

Plastic coated

Foam

With oblique projections

Brakes

Push type

Telescopic brake lever extensions

Others

Velcro or auto pelvic positioning belt

Anti-tips with castors

Spoke guard

Anchors for specialized transit



INSTALLATION / ADJUSTMENTS



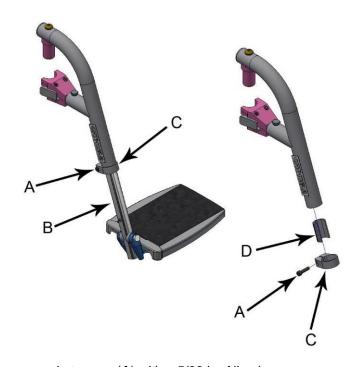
After adjusting and before using the tilt wheelchair, check that all hardware is tightly secured. Check that the locking mechanisms are secure before using the wheelchair.



Adjustments to your Tango CE tilt wheelchair should only be performed by health care professionals. Improper adjustments can cause injury and/or damage to the occupant, the assistant, the tilt wheelchair, or the environment.

4.1 LEG SUPPORT ASSEMBLY

4.1.1 ADJUSTING THE LENGTH OF THE LEG SUPPORT ASSEMBLY



- 1 Unscrew the hexagon socket screw (A) with a 5/32 in. Allen key.
- 2 Slide the tube (B) to adjust the desired leg support length.
- 3 Check that the spacer (**D**) is fully inserted in the stem.
- 4 Reposition the clamping ring (C) and firmly tighten the screw (A).

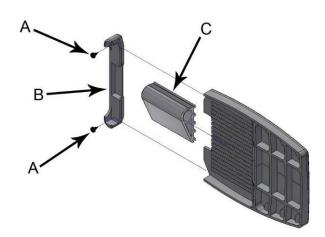


4.1.2 CHANGING THE ANGLE OF THE ADJUSTABLE ANGLE FOOT SUPPORT, SINGLE AND **FULL WIDTH**



- 1 Loosen the screws (A) with a 10 mm open-end wrench.
- 2 Reposition the plates at the desired angle and firmly tighten the screws (A) (140 psi).

4.1.3 CHANGING THE POSITION (DEPTH) OF THE ADJUSTABLE ANGLE FOOT SUPPORT

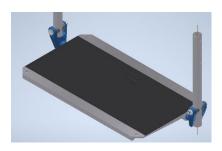


- 1 Unscrew the 2 Phillips screws (A) and remove the end cap (B).
- 2 Pull the plate to release it from the plate support (C).
- 3 Reposition the plate to the desired depth and replace the end cap (B) and screws (A).



4.1.4 TWO-PIECE FULL-WIDTH PLATE

1. For full-width plate, fold down the plate with the anchor rod (A) (see Figures 2-A and 2-B).





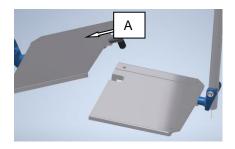


Figure 2-B: Full-width plate

4.1.5 DEPTH ADJUSTMENT OF THE HEEL SUPPORT STRAP

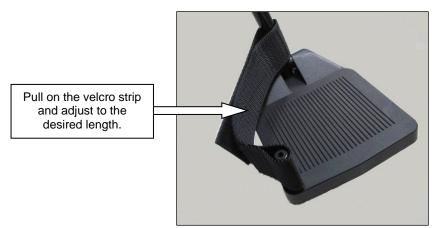
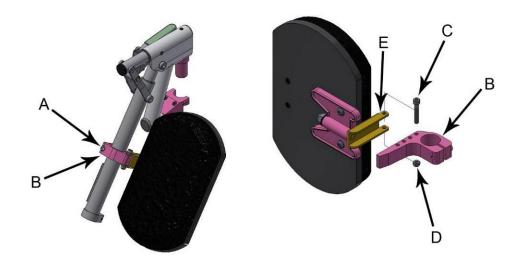


Figure 3: Depth adjustment of the heel support strap.



4.1.6 ADJUSTING THE FLAT PADDED LOWER LEG SUPPORT



HEIGHT

- 1 Loosen the hexagon socket screw (A) with a 3/16 in. Allen wrench.
- 2 Place the bracket (**B**) at the desired height and firmly tighten the screw (**A**).

DEPTH

- 1 Remove the screw (C) and the nut (D) with a 4 mm Allen key and an 8 mm open-end wrench.
- 2 Move the lower leg support (**E**) into one of the holes of the bracket (**B**).
- 3 Replace and tighten the screw (**C**) and the nut (**D**).

4.1.7 ADJUSTING THE SMALL FLAT PADDED LOWER LEG SUPPORT (14 IN. BASE)

The lower leg support can be adjusted in height, depth and width (see Figure 4-B).

- a) To adjust the height of the lower leg support:
 - 1. Loosen the screw (A) with a 5 mm Allen key;
 - 2. Slide the bracket (**B**) to the desired position;
 - 3. Tighten the screw (A) firmly.

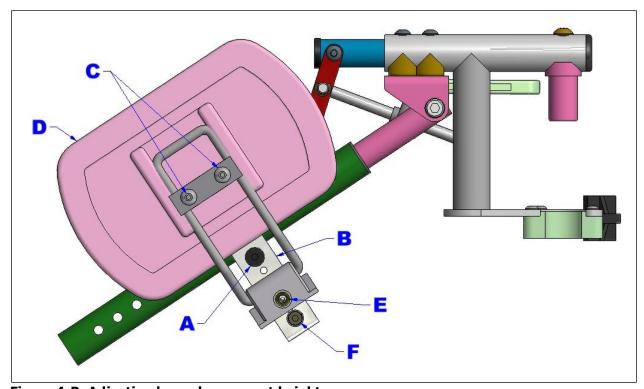


Figure 4-B: Adjusting lower leg support height.

- b) Adjusting the lower leg support width: (See Figure **4-B**)
 - 1. Loosen the screws (C) with a 4 mm Allen wrench;
 - 2. Slide the lower leg support (**D**) to the proper position;
 - 3. Tighten screws (C).
- c) Adjusting the lower leg support depth: (See Figure **4-B**)
 - 1. Remove the screw (**E**) and the stop screw (**F**) with a 5 mm Allen key;
 - 2. Adjust to the desired position, while leaving a one-hole gap between the two screws.
 - 3. Tighten the screws, making sure to include the screw washer (F).



4.2 ANGLE-ADJUSTABLE BACK SUPPORT

4.2.1 CHANGING BACK SUPPORT ANGLE



Adjustments to your Tango CE tilt wheelchair should only be performed by health care professionals. Improper adjustments can cause injury and/or damage to the occupant, the assistant, the tilt wheelchair, or the environment.

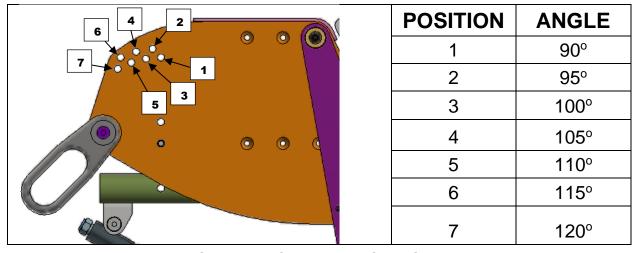


Figure 5: Back support angle settings.

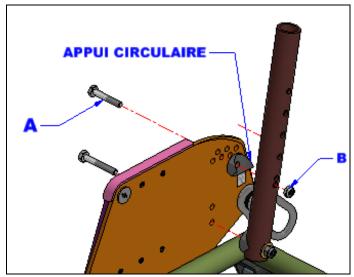


Figure 6: TANGO CE back support angle setting



To adjust the back support angle:

- 1. Unscrew the nut (**B**) (7/16 in. open-end wrench) on each post. (See Figure **6**)
- 2. Stand behind the back support and remove the screw (A) on each side.

Caution: Once screws are removed, the back support can be folded completely backwards.

- 3. Replace the back support screws into one of the (7) mounting holes on the adjustment plate to achieve 90°, 95°, 100°. 105°, 110° or 120°, as shown in Figure 6.
- 4. Tighten the screw (A) and nut (B) on each back support post, followed by the circular support for the Tango CE, or the belt attachment buckle if applicable. (See Figure 6 and relevant section)

4.2.2 ADJUSTING BACK SUPPORT HEIGHT

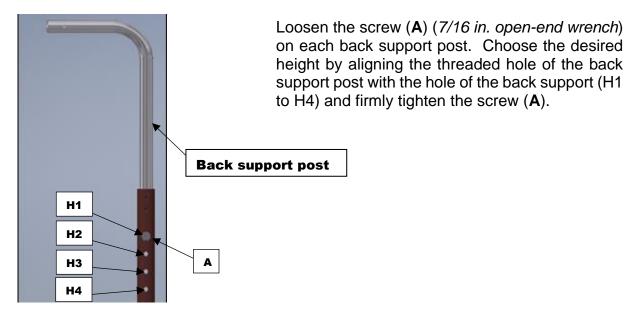


Figure 7: Adjust the back support height.

4.2.3 INSTALLING A BOLTED TENSION BAR WITH HEAD SUPPORT ANCHOR.

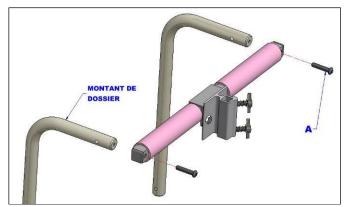




Figure 8-A: Tension bar.

Figure 8-B: Cutting the rubber

You can install a tension bar on the **Tango CE** to accommodate a head support. To do this:

- 1. Cut the rubber end of the back support posts to uncover their ends (see Figure 8-B).
- 2. With a 5/32 in. Allen wrench, tighten the screw (A) at each end of the tension bar to the end of the back support posts, which you just uncovered in step 1 (see Figure 8-**A**).
- 3. Firmly tighten the screws (A).

4.2.4 ADJUSTABLE ANGLE ELEVATED PUSH BAR

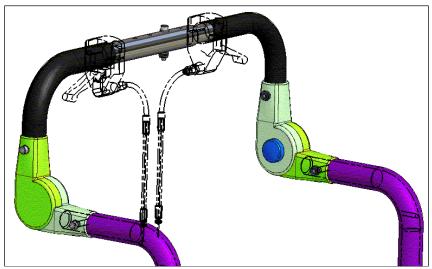


Figure 9-A: Adjustable angle elevated push bar.

a) To attach an adjustable angle push bar to the back support posts:

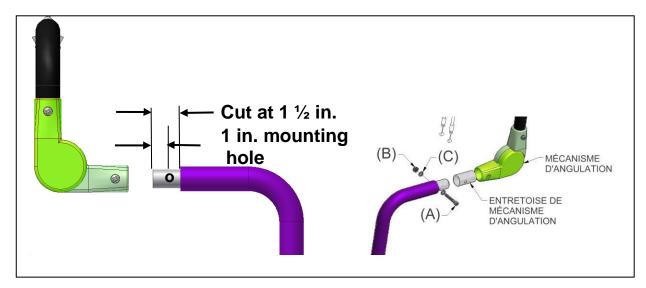


Figure 9-B: Attaching the push bar to the back support posts.

- 1. Cut the rubber at 1 ½ in. from the end of the back support post (see Figure 9-**B**).
- 2. Insert the angle adjustment mechanism spacers into the mechanisms.
- 3. Insert the angle adjustment mechanisms into the back support posts, then insert the screw (A) with washers (C), and nut (B) and firmly tighten (3/8 in. open-end wrench and 5/32 in. Allen wrench).

b) Width adjustment:

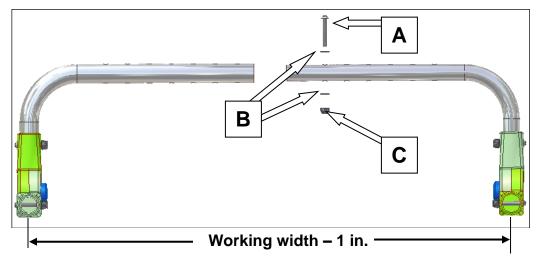


Figure 9-C: Width adjustment.





- 1. Slide the tubes into each other until they reach the desired width (see Figure 9-B).
- 2. Insert the screw (A), washers (B) and nut (C) into the centre hole and firmly tighten (3/8 in. wrench and 5/32 in. hex key).



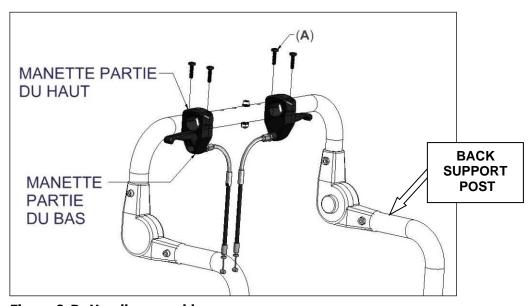


Figure 9-D: Handle assembly.

- 1. Remove the handles from the back support posts and reposition them on the integrated adjustable angle push handle;
- 2. Using a 4 mm Allen wrench, loosen the (2) screws (A) on the top part of the handle. The two parts are now separated;
- 3. Reassemble the levers, firmly but not too tightly. Position the handles for ease of use.



4.2.5 ADDING A TENSION BAR WITH AN ADJUSTABLE PUSH BAR

You can add a tension bar with an adjustable push bar in order to install a head support anchor:

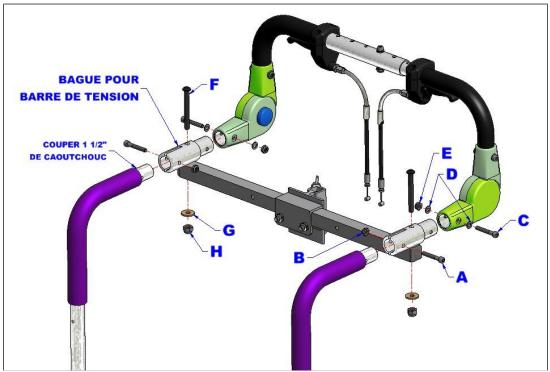


Figure 9-E: Tension bar with adjustable angle handle.

- 1. Remove the adjustable angle handles by loosening the screws (A) and nuts (B) in Figure 9-B, using a 3/8 in. open-end wrench and a 5/32 in. hex wrench; be careful not to lose the washers (C).
- 2. Remove the adjustment mechanism spacers from within the push bar (see Figure 9-B).
- 3. If not already done, cut 1 ½ in. from the back support post rubber on each side (see Figure 9-B).
- 4. Insert the tension bar rings into the back support posts (see Figure 9-B), tighten screws (A) with the nuts (B) using a 3/8 in. open-end wrench and a 5/32 in. hex key.
- 5. Insert the angle adjustable push bar and tighten the screws (C) with the nuts (E) and washers (D) (3/8 in. open-end wrench and 5/32 in. hex key).
- 6. Install the tension bar with screws (F), washers (G) and nuts (H) using a 7/16 in. open-end wrench and a 5/32 in. Allen wrench.

4.3SEAT

4.3.1 SEAT DEPTH ADJUSTMENT

The seat depth of the **Tango CE** can be adjusted with the basic components, to 15, 16, 17, 18 and 19 in. for a 15 to 19 in. seat structure, or to 19, 20, 21 and 22 in. for a 19 to 22 in. structure (see Figure 10).

To do this:

- 1. Use a 7/16 in. wrench and a 7/16 in. socket to loosen and remove the screws (A and G, as well as D if applicable) and nuts (C, as well as F if applicable). Remove the anchor ring (B).
- 2. Slide the anchor pivot so that the hole corresponding to the desired depth is opposite the screw hole (A), then place the seat plate.
- 3. When you increase the depth to more than 15 in. on a 15 to 19 seat, or more than 19 in. on a 19 to 22 in. seat, you need to install the circular support (E), which supports the seat with the screw (D) and nut (F).
- 4. Once the depth is selected, tighten the screws (G). If necessary, tighten the screw (**D**) and the circular support (**E**) with new nuts (**F**).
- 5. Also tighten the screws (A) with new nuts (C) and fix the anchor ring.



When adjusting the depth, you should always readjust the depth of the front wheels.

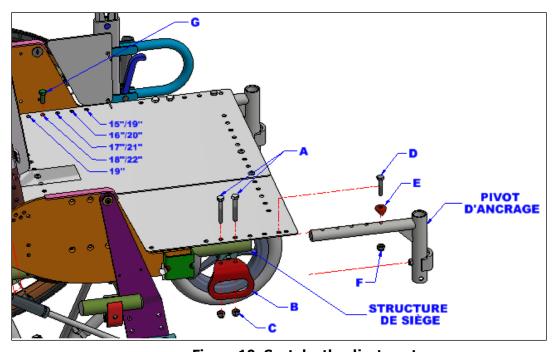


Figure 10: Seat depth adjustment.

4.3.2 HEIGHT ADJUSTMENT



Adjustments to your tilt wheelchair should only be performed by health care professionals. Improper adjustments can cause injury and/or damage to the occupant, the assistant, the tilt wheelchair, or the environment.

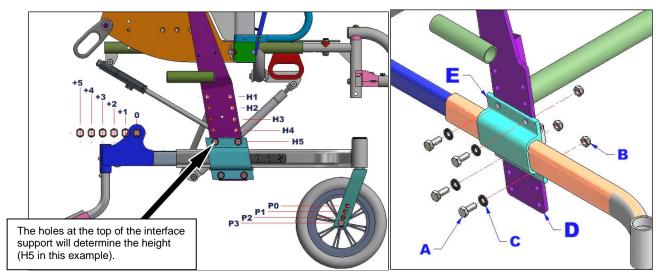


Figure 11: Floor-to-seat height adjustment.

The floor-to-seat height on the **Tango CE** tilt wheelchair can be adjusted in two (2) ways (see Figure 11-A and Table 1):

- 1. By adjusting the frame on the height adjustable interface over a 4 in. range (H1 to H5).
- 2. By the choice of wheels, i.e., combining front and rear wheel diameters. The front fork can be adjusted (P0 to P3).

To adjust the frame in relation to the height-adjustable interface:

- 1. Remove the large wheels using the quick release axle in the centre of the wheel.
- 2. Loosen the four (4) screws (A) and nuts (B) (½ in. open-end wrench) on each side of the frame and place the adjustable interface (D) and interface support (E) at the desired position (H1, H2, H3, H4 or H5) (see Figure 11).
- 3. Replace the screws and firmly tighten the nuts, making sure the washers are in place.





When the seat height is adjusted, readjust the centre of gravity and the brakes. Adjusting floor-to-seat height can alter the tilt angle. Please refer to the following table for the available angles.

OPTIONS FOR FLOOR-TO-SEAT HEIGHTS, WHEELS, AND TILT ANGLES

							TAN	GO CE					
201150	Interface		PROFONDEUR DE SIÈGE (15" À 19")							PROFONDEUR DE SIÈGE (19'' À 22'')			
ROUES	ajustement	<u>hauteur</u>	Voir tableau des positions de roue arrière (figure 5) Vo						Voir tableau des positions de roue arrière (figure 6)				
avant-arrière	hauteur	sol-siège	+5 🗖	+4 🔲	+3 🗖			+5 🗖	+4 🔲			+1 🗖	
	H1 🗆	14 po			·								
6po - 20 po	H2 🗖	15 po											
	Н3 □	16 po	40°	40°		40°			40°		40°		
P2	H4 □	17 po											
FZ.	H5 🗖	18 po											
	H1 🗖	15 po											
7po - 22 po	H2 🗖	16 po											
	Н3 □	17 po	40°	40°	40°			40°	40°	40°			
Р3	H4 🗖	18 po	- 1										
	H5 🗖	19 po											
	H1 🗖	16 po											
8po -24 po	H2 🗖	17 po			40° 40°			40°					
	Н3 □	18 po	40°	40°					40°	40°			
Р3	H4 🔲	19 po											
	H5 🗖	20 po											
	H1 🗆	15 po											
7po - 12 po	H2 🗖	16 po						l					
	H3 🗖	17 po	40°		N	/A		40°	N/A				
P2	H4 🗖	18 po											
	H5 🗖	19 po											
	H1 🗆	15 po											
8po -12 po	H2 🗖	16 po		.	N/A				N/A				
	H3 🗖	17 po	40°					40°					
Р3	H4 🗖	18 po											
	H5 🗖	19 po		L									

Notes: - Ce tableau donne l'angle d'inclinaison maximum atteint en fonction de la hauteur sol-siège choisie.

- Plus l'axe de roue arrière est vers l'avant du fauteuil (position 1), plus la stabilité du fauteuil sera diminuée.
- Les configurations représentées par une zone grise sont données à titre indicatif. Il est recommandé de vérifier la stabilité du fauteuil avant les déplacements ou l'utilisation. Ne jamais utiliser le fauteuil sans les anti-basculants.
- -Pour une hauteur sol-siège en dessous de 14", consulter notre formulaire de posture pour obtenir une assise surbaissée encastrée.

Table 1: Tilt wheelchair configuration.



Always follow the front and rear wheel combinations in Table 1 for proper stability of the tilt wheelchair (see also Table 2 and 3 and Figure 11-A).

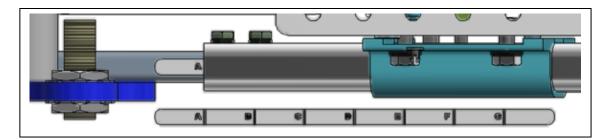




TABLEAU DES POSITIONS DE ROUE ARRIÈRE TANGO CE											
				AXE DE RO	UE ARRIÈRE	(16 @ 19)					
		0	1	2	3	4	5				
P R	15	N/A	N/A	Α	В	U	D				
O F	16	N/A	N/A	Α	В	U	D				
O N	17	N/A	Α	В	U	D	E				
D E	18	A	В	C	D	ш	F				
U R	19	В	C	D	ш	F	G				

Figure 11-A: Position of the rear wheel axle (drive).

Table 2: Tango CE rear wheel positions (15 in. to 19 in.)

TABLEAU DES POSITIONS DE ROUE ARRIÈRE TANGO CE										
				AXE DE RO	UE ARRIÈRE	(19 @ 22)				
		0	1	2	3	4	5			
P R O	19	N/A	N/A	Α	В	C	D			
F O	20	N/A	Α	В	U	D	ш			
N D E	21	Α	В	С	D	ш	F			
U R	22	В	С	D	ш	F	G			

Table 3: Tango CE rear wheel positions (19 in. to 22 in.)

4.4 FRONT WHEELS



Always make sure the wheelchair is stable BEFORE using the maximum tilt setting. TEST the wheelchair BEFORE allowing the user to use it.



Front wheel position is factory adjusted to the selected seat depth. When the front wheel is set back from the seat depth, there is a risk of instability.

Seat

Example: When the seat is 16" deep, the fork bracket must be adjusted accordingly.

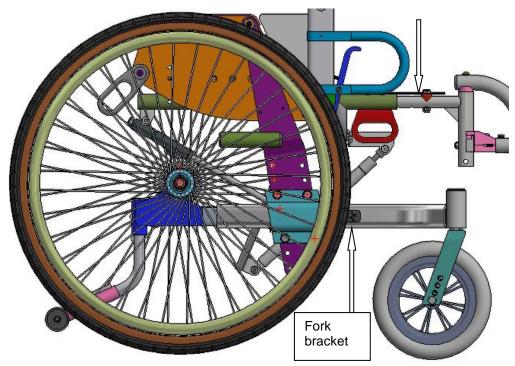


Figure 12: Front wheel position.



Adjustments to your Tango CE tilt wheelchair should only be performed by health care professionals. Improper adjustments can cause injury and/or damage to the occupant, the assistant, the tilt wheelchair, or the environment.



4.4.1 CHANGING THE FRONT WHEEL DEPTH

Changing the seat depth requires adjusting the front wheels. To do this:

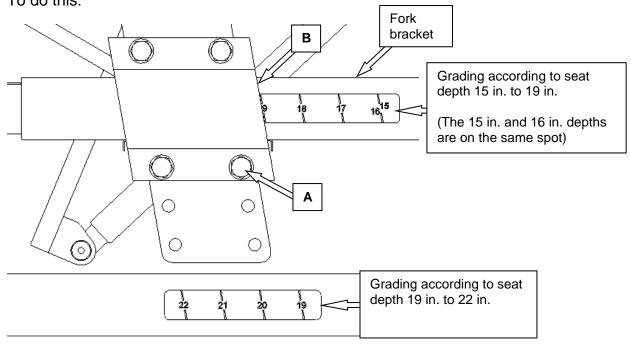


Figure 13: Front wheel adjustment.

- 1. Without removing them, loosen the 4 screws (A) and nuts with two (2) ½ in. openend wrenches (see Figure 13).
- Pull or push on the fork bracket.
- 3. Adjust the depth of the fork bracket to the seat depth of the wheelchair. If seat depth is 19 in., the fork bracket should be at 19 in.; that is, the number 19 line on the fork scale must face the front surface of the part (B) (see Figure 13).
- 4. Repeat the steps above to adjust the other side of the wheelchair.
- 5. The same procedure applies for depths from 19 in. to 22 in.



When the front wheels are adjusted, you must readjust the rear wheel axle.



4.4.2 CHANGING THE FRONT WHEEL MODEL OR HEIGHT

- 1. Remove the screw (A) and nut (B) (1/2 in. open-end wrenches) that hold the wheel to the fork (see Figure 14-A);
- 2. Remove the wheel from the fork;
- Remove the spacers or washers from the wheel assembly;
- 4. Select a wheel size and place the bolt in the appropriate hole;
- 5. Reverse the procedure to reassemble the wheel.

NOTE: Refer to <u>Table 1</u> for height options.

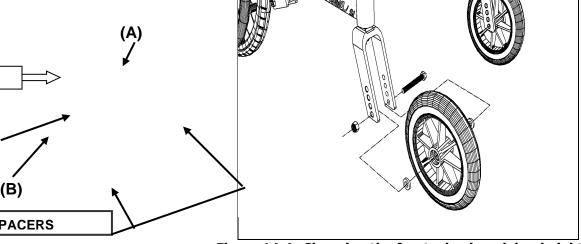


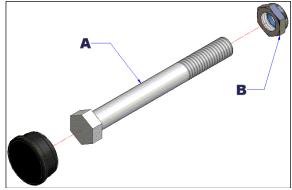
Figure 14-A: Changing the front wheel model or height.

SPACERS



4.5 REAR WHEELS

4.5.1 CHANGING THE WHEEL MODEL



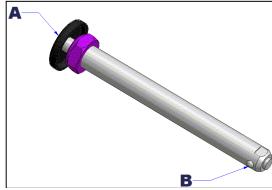


Figure 14-B: Threaded axle

Figure 14-C: Quick release axle

Changing the floor-to-seat height may involve changing the rear wheel diameter. To do this:

a) THREADED AXLES:

- 1. To remove the wheels, loosen the screw (A) and nut (B), using a 3/4 in. open-end wrench (see Figure 14-B).
- 2. To reassemble the wheel, screw it back on, using a new ½-20 UNC nut. Avoid over-tightening the assembly, as it may interfere with wheel rotation.

b) QUICK RELEASE AXLES:

- 1. Hold down the button (A) and pull the wheel towards you by the centre (see Figure 14-C);
- 2. Proceed in the same way to replace the wheel, making sure that the axle is locked in its housing by the stop pin (B). Adjust the depth of the nut if necessary (see note).



Make sure the stop pin on the two (2) rear wheels is released before using the wheelchair. The stop pins MUST protrude from the wheel axle spacer for a secure lock. Keep the stop pins clean.



NOTE: If the axle does not lock, it may need to be adjusted.

To do this:

- 1. Remove the axle from the hub;
- 2. Using a 7/16 in. open-end wrench, hold the end of the axle (A) (see Figure **15**);
- 3. Using a ¾ in. open-end wrench, slightly tighten or loosen the nut (B);
- 4. Reassemble the axle in the wheel and test it. It is best to always allow a small amount of side play once the axle is locked \pm 1/64 in.

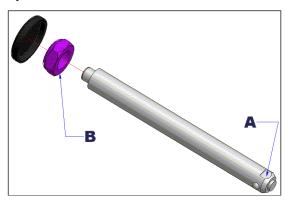


Figure 15: Quick release axle: Adjustment.

NOTE: The Tango CE can be fitted with 12 in. diameter wheels. See the section on this subject for instructions.



4.5.2 ADJUSTING THE CENTRE OF GRAVITY (rear axle)



Adjustments to your Tango CE tilt wheelchair should only be performed by health care professionals. Improper adjustments can cause injury and/or damage to the occupant, the assistant, the tilt wheelchair, or the environment.

Adjusting the centre of gravity is necessary to keep the wheelchair stable. The Tango CE has five (6) adjustment positions (+0 to +5). These positions should be determined by the prescribing physician or clinical practitioner.

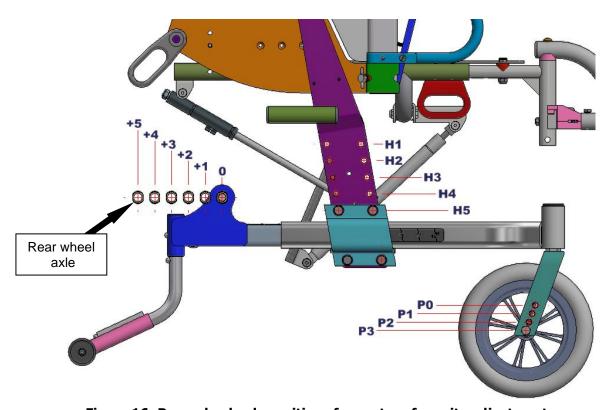


Figure 16: Rear wheel axle positions for centre of gravity adjustment.

The following table shows the possible configurations and maximum tilt angle of the seat.



As the wheel position increases (+0 to +5), the tilt wheelchair becomes more stable. As the wheel position decreases, the tilt wheelchair is easier to handle and less stable.

The anti-tips should always be in the drive position (see Figure 24) to prevent accidents.

				TANGO CE									
201150	Interface			PROFONDE	UR DE SIÈGE (1	15'' À 19'')		PROFONDEUR DE SIÈGE (19" À 22")					
ROUES	ajustement	<u>hauteur</u>	Voir tableau des positions de roue arrière (figure 5)					Voir ta	Voir tableau des positions de roue arrière (figure 6)				
avant-arrière	hauteur	sol-siège	+5 🗖	+4 🔲	+3 🗖	+2 🗖	+1 🗖	+5 🗖	+4 🔲	+3 🗖	+2 🗖	+1 🗖	
	H1 🗆	14 po											
6po - 20 po	H2 🗖	15 po											
	Н3 □	16 po	40°	40°		40°		40°	40°		40°		
P2	H4 □	17 po											
FZ	H5 🗖	18 po											
	H1 🗖	15 po											
7po - 22 po	H2 🗖	16 po			40°		40°	40°					
	Н3 □	17 po	40°	40°					40°				
P3	H4 🗖	18 po											
	H5 🗖	19 po											
	H1 🗆	16 po											
8po -24 po	H2 🗖	17 po		40°				40° 40°					
	Н3 □	18 po	40°		40°		40°		40°				
P3	H4 🗖	19 po											
F3	H5 🗖	20 po											
	H1 🗖	15 po											
7po - 12 po	H2 🗖	16 po											
	Н3 □	17 po	40°		N/A	N/A		40°	N/A				
P2	H4 🗖	18 po											
FZ	H5 🗖	19 po											
	H1 🗆	15 po											
8po -12 po	H2 🗖	16 po						40°	N/A				
	Н3 □	17 po	40°		N/A	A							
P3	H4 🗖	18 po											
Pa	H5 🗖	19 po											

Notes: - Ce tableau donne l'angle d'inclinaison maximum atteint en fonction de la hauteur sol-siège choisie.

- Plus l'axe de roue arrière est vers l'avant du fauteuil (position 1), plus la stabilité du fauteuil sera diminuée.
- Les configurations représentées par une zone grise sont données à titre indicatif. Il est recommandé de vérifier la stabilité du fauteuil avant les déplacements ou l'utilisation. Ne jamais utiliser le fauteuil sans les anti-basculants.

Table 1: Tilt wheelchair configuration



Always follow the front and rear wheel combinations in Table 1 for proper stability of the tilt wheelchair (see also Table 2 and 3 and Figure 11-A).

⁻Pour une hauteur sol-siège en dessous de 14", consulter notre formulaire de posture pour obtenir une assise surbaissée encastrée.

ORTHOFAB

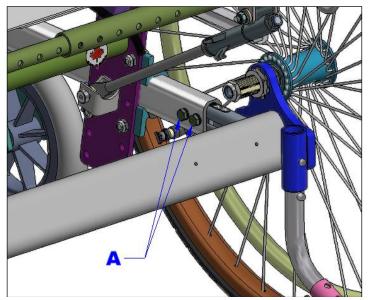


Figure 17-A: Changing the rear wheel axle position.

To change the rear wheel position:

- Using a 7/16 in. open-end wrench (see Figure 17-A), loosen the screws (A) on each side of the wheelchair, without removing them.
- Also, loosen the (4) screws (B) on the height adjustment interface support, without removing them, (see Figure 17-B) using a ½ in. open-end wrench.

 Pull or push the rear wheel axle as needed and select a position on the graduated slider. Refer to Table 1.

The selected position determines the maximum tilt degree. When the position of the wheel axis is determined, i.e., +1 to +5, which corresponds to a letter on the graduated slider, the edge of the part (**C**) must be facing this letter (see Figure **17-B**).

 Check the stability of the wheelchair by operating the tilt mechanism.

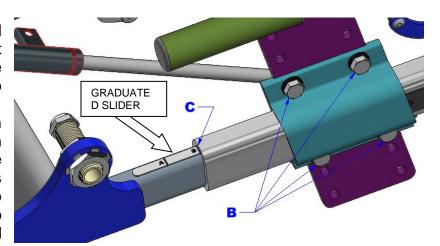


Figure 17-B: Changing the rear wheel axle position



Once the adjustment is complete, you must adjust the locking brakes according to instructions.



4.5.3 CHANGING THE REAR WHEEL WIDTH

The width of the Tango CE rear wheels can be reduced to improve accessibility to the hand rims.

However, reduced width may interfere with the arm support, depending on its height and the wheel diameter.

To adjust width:

- 1. Unfold the washer notches (see Figure 18);
- 2. Loosen the two (2) nuts with two (2) 1 1/8 in. open-end wrenches and remove only one nut, the one on the inside of the wheelchair if you want to narrow the width, or the one on the outside if you want to widen it;
- 3. Unscrew the threaded spacer so that its outer face protrudes at least 1/8 in. from the wheelchair's outside nut to decrease the width, or the wheelchair's inside nut to increase the width:
- 4. Tighten the two (2) nuts to a torque of 30 lbs-ft.;
- 5. Fold one of the notches on each of the lock washers against one side of the nut.

Do not overtighten, as this may break the spacer threads. NOTE:

This adjustment is for 20, 22 and 24 in. wheels only. It is not suitable for 12 in. NOTE: wheels, as brakes cannot be adjusted in width to fit properly.

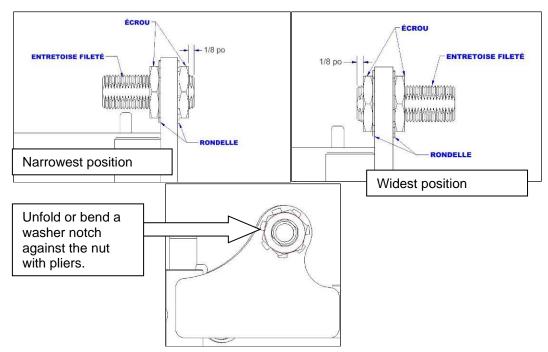


Figure 18: Changing the width.

4.5.4 INSTALLING 12 IN. REAR WHEELS





Installation of 12 in. wheels on your Tango CE tilt wheelchair should be done by health care professionals at an authorized service centre. Improper adjustments can cause injury and/or damage to the occupant, the assistant, the tilt wheelchair, or the environment. To find an authorized service centre near you, refer to Section 9 of this manual.



With 12 in. wheels, the rear wheel axle should always be adjusted to +5 to ensure proper stability of the tilt wheelchair (see Table 1 for location on the graduated slider).

The **Tango CE** can be fitted with 12 in. rear wheels.

To do this, the rear wheel axle must be reversed. (See Figure 19)

- 1. Remove the rear wheels.
- 2. Loosen the screws (A) on each side of the wheelchair, without removing them, using a 7/16 in. open-end wrench and loosen the four (4) screws (B) on the seat interface (see Figures 17-A and 17-B), without removing them, using a ½ in. open-end wrench.
- 3. Completely remove the rear axle by pulling it backwards.
- 4. Reverse the wheel axle so the wheel spacers are facing down.
- 5. Insert the square nuts (**D**) into the wheel axle extrusions for future brake installation (see Figure 19).
- 6. Reinsert the extrusions into the fork brackets so that the clamping plate (**B**) fits into the wheel axle extrusion.
- 7. Install a new scale sticker on top of the shaft extrusion on the same spot.
- 8. Always adjust the wheel axle to +5 (see Table 1).
- 9. Tighten the four (4) seat interface (B) screws (see Figure 17-B).
- 10. Tighten the screws (A) from the axle extrusion in the clamping plates (B). Make sure the washers (**C**) are in place.
- 11. Check that the wheel spacers are at the narrowest position (see Figure 18), then install the 12 in, wheels with the axles.

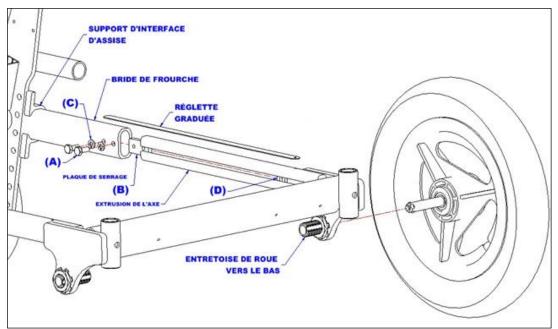


Figure 19: Installation of 12 in. wheels.

4.6 LOCKING BRAKES

4.6.1 BRAKE POSITION ADJUSTMENT

Brake adjustment is necessary depending on the level of tire wear or whenever the position of the rear wheels is changed.

a) Routine adjustment (see Figures 20-A and B):



Brake efficiency is optimum when there is an adjusted gap between 1/4 and 1/2 in. between the tire and the brake brace when the brake is released.

To adjust this gap, release the brake and, using a 13 mm open-end wrench, loosen the screw (A) on the brake bracket, then slide the brake support to a distance between 1/4 and 1/2 inch.

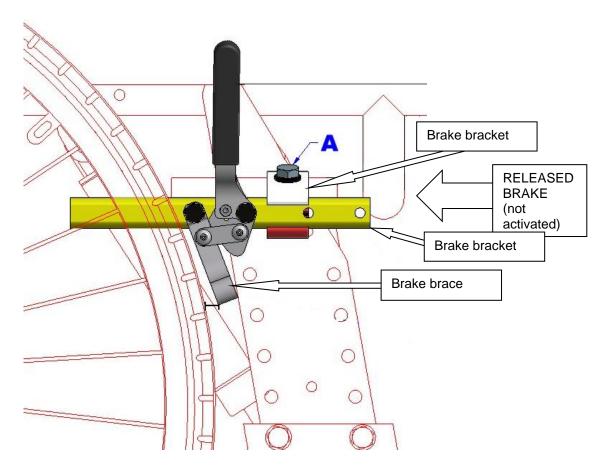


Figure 20-A: Brake position adjustment (open brake).

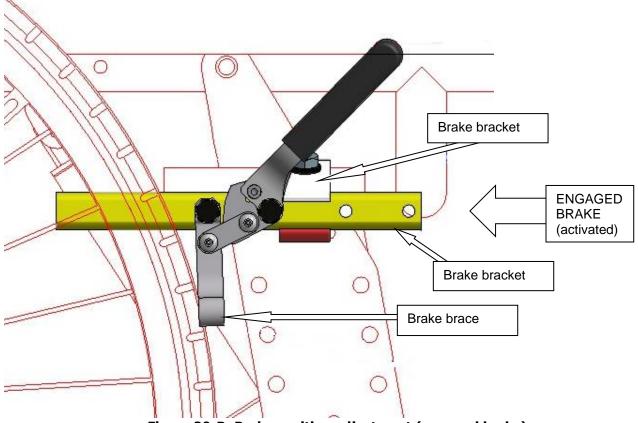


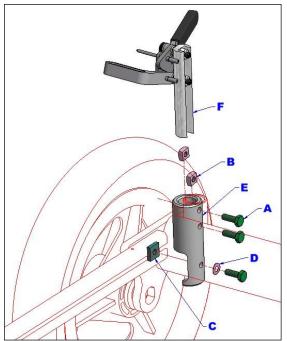
Figure 20-B: Brake position adjustment (engaged brake).

- b) Adjusting the brakes in relation to the 20, 22 or 24 in. rear wheel position: When you have set the rear wheel position, (Section 4.6.2), you must reposition the brake support.
- 1. Loosen the screw (A) with a 13 mm open-end wrench. The brake support can now slide into the brake bracket (or the brake bracket can slide onto the bracket support).
- 2. Tighten the entire assembly and make sure the brake moves effortlessly. Repeat step a) (routine adjustment).

NOTE: The brake model may differ from the images in Figures **20-A** and **20-B**, but the fit is the same for all models.



c) Adjusting the brakes on 12 in. wheels.



When the unit has 12 in. wheels, the brakes are on the back and can be adjusted as follows (see Figure 21):

The brake rod (F) can be raised or lowered by loosening the two screws (A) and setting a distance of approximately 3/16 to 1/4 in. when the brake is open.

The base (**E**), square nut (**C**), washer (**D**) and screw (A) assembly should always be as far back as possible on the wheel axle.

Figure 21: 12 in. wheel brakes

4.6.2 CHANGING OR INSTALLING A BRAKE LEVER EXTENSION

For easy brake access and application, you can install a telescopic extension on the brake levers (see Figure 22):

Caution: This assembly may be difficult to complete the first few times, so be careful not to lose the pin (C).

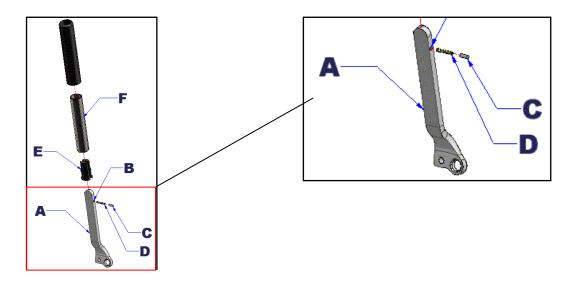


Figure 22: Telescopic extension installation.

1. Install extension guides (**E**) on each side of brake lever (**A**);



- 2. Place the spring (**D**) provided with the extension (**F**) into hole (**B**).
- Insert the pin (C) into the hole (B) by compressing the spring (D);
- 4. While holding the pin (C) inside the hole (B), slide the extension (F) so that it covers the entire assembly.

4.6.3 CHANGING THE BRAKE LEVER ANGLE

The angle of the brake lever can be adjusted. There are four (4) adjustment positions.

To do this:

- 1. Unscrew the (B) screws (3 mm Allen wrench) and rotate the lever to the desired position (see Figure 23);
- 2. Replace the (**B**) screws and tighten firmly.

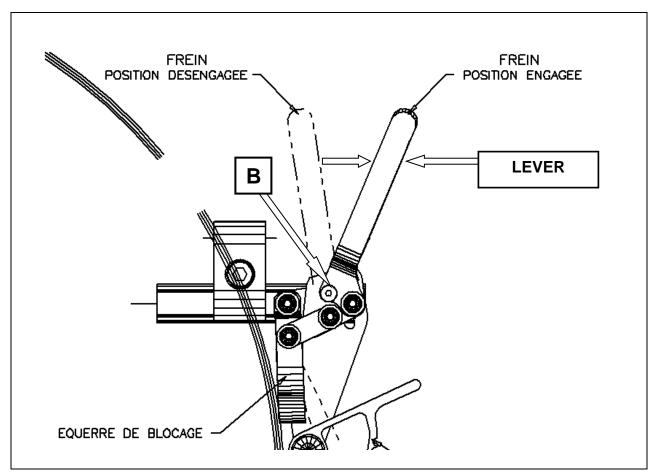


Figure 23: Changing the brake lever angle

4.7 ANTI-TIPS



4.7.1 HEIGHT ADJUSTMENT



Adjustments to your Tango CE tilt wheelchair should only be performed by health care professionals. Improper adjustments can cause injury and/or damage to the occupant, the assistant, the tilt wheelchair, or the environment.



A clearance of approximately 1 3/4 in. between the anti-tip rollers and the ground must always be maintained.

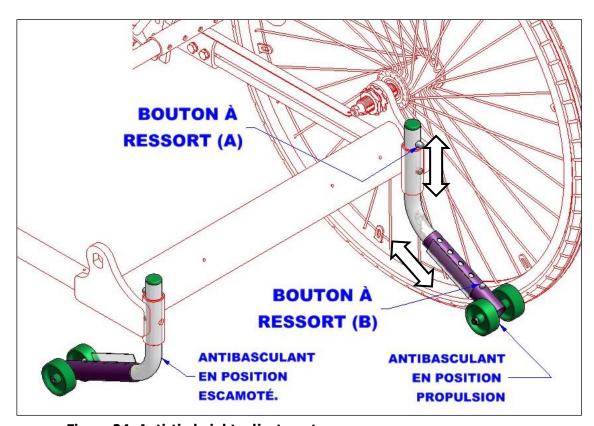


Figure 24: Anti-tip height adjustment.

Press the spring-loaded button (**B**) at the lower part of the anti-tip, then slide it up or down to the approximate clearance of 1 3/4 in. from the ground. If needed, you can also follow the same procedure with the spring-loaded button (A) (see Figures 24 and 25).





If the floor-to-seat height or the rear wheel size has been changed, the anti-tips must be adjusted to an approximate clearance of 1 3/4 in. between the bottom of the roller and the ground.

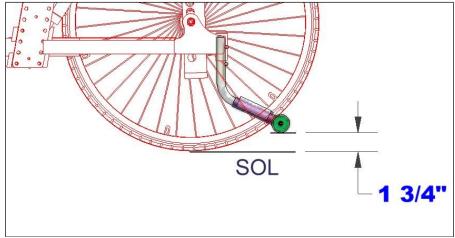


Figure 25: Clearance between the anti-tips and the ground.



For your safety, the anti-tips must be properly engaged in and the spring-loaded buttons must protrude from the adjustment holes.

5 USE

5.1 USE OF THE T-SHAPED ARM SUPPORTS

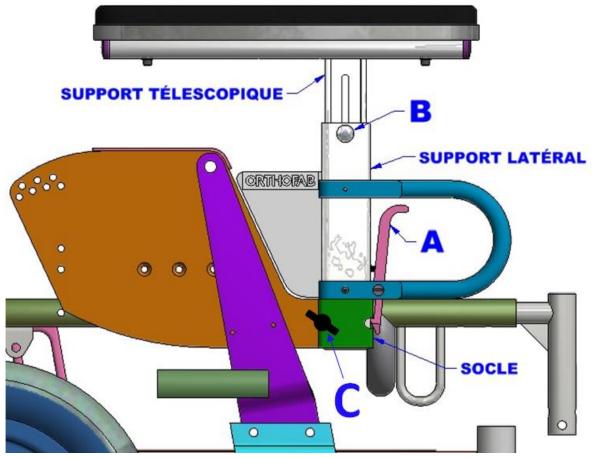


Figure 26: T-shaped arm support adjustment.

a) The height of the T-shaped arm support can be adjusted in 1 in. increments.

Hold down button (**B**) (see Figure **26**), then, with the other hand, raise or lower the telescopic stand to the desired height.

b) The T-shaped arm support can be removed for easier transfers.

First, loosen the screw (**C**) a few turns. Then, with one hand, remove the lateral support by pressing the release (**A**) and pulling up.

To reinstall the arm support, simply align the rod of the lateral support with the base. The release will return to its place by itself. Tighten the lateral support with the screw (\mathbf{C}) .



5.2 USE OF LEG SUPPORT ASSEMBLIES

5.2.1 RETRACTING THE LEG SUPPORTS

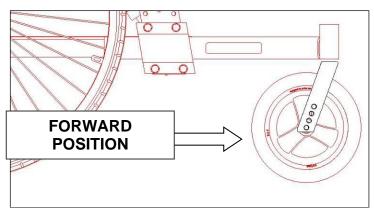


Figure 27-A: Retracting, wheels in forward position.

NOTE¹: It is best to fold down the foot support before retracting the leg support. (see Figure 27-B).

NOTE²: Always check that the front wheels are in forward position (see Figure 27-A).

- 1. Place the front wheels in forward position;
- 2. To retract the leg supports, you must first remove your feet from the plates and fold them down;
- 3. Next, press the release (A) (Figure 27-B); the leg support will pivot by itself.

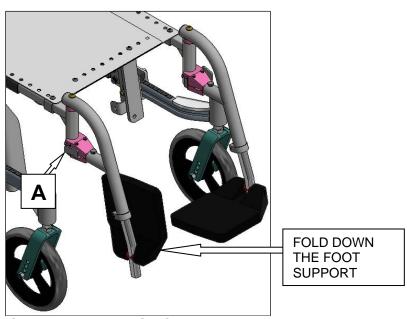


Figure 27-B: Retracting leg supports

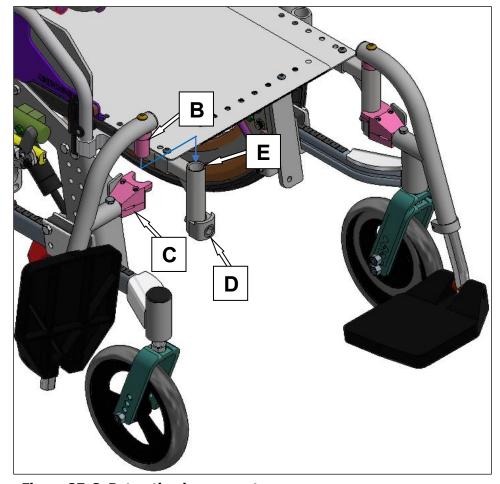


Figure 27-C: Retracting leg supports

5.2.2 Removing the leg support

- All leg supports are removable;
 - 1. To do this, you must first retract the foot support;
 - 2. Next, grasp the leg support at the top and lift it off the base (E) (see Figure **27-C**);
 - 3. To install the leg support, position it at a 90° angle to the seat, then insert the guide (B) into the base (E) (see Figure 27-C);
 - 4. Then rotate it forward to secure it. The locking mechanism (C) must close on the locking spacer (D).



Lifting the wheelchair by the leg support assemblies can be dangerous.



5.2.3 RAISING AND LOWERING THE LEG SUPPORT ELEVATOR ASSEMBLY



- 1 To raise the leg support, grasp the tube (A) and move upwards. The leg support will lock in the desired position, or users can simply push their leg on the plate to raise the leg support.
- 2 To lower the leg support, press down on the release (B). The leg support will go down by itself, or with slight pressure on the tube (A).



Never put your fingers in the mechanisms when raising or lowering the leg supports. Always use the telescopic tube to raise or lower the leg supports.



5.3 Back support

5.3.1 RECLINING BACK SUPPORT HANDLE FOR OPERATING THE GAS

CYLINDER RECLINING BACK **SUPPORT**

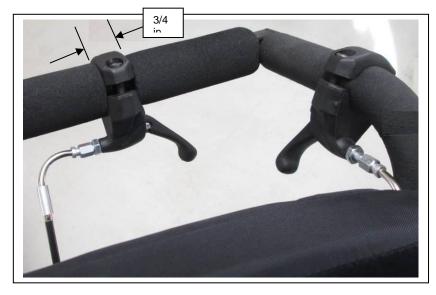


Figure 29-B: Handle installed on the tension bar.

Figure 29-A: Reclining back support handle with gas cylinder.

To recline the back support, press the handle at the rear of the back support on the back support post (with a swivel back bar) and push down (see Figure 29).

To raise it, press the handle and follow the upward movement, carefully holding the back support.

The handle can also be installed on the back support tension bar (see Figure 29-A). Cut a ¾ in. gap in the rubber and install the handle.

5.3.2 HEIGHT AND DEPTH ADJUSTABLE HEAD SUPPORT

- 1- Turn the handle (A) to adjust the depth of the head support, then turn the two handles (B) to adjust the height (see Figure 30).
- 2- After selecting the head support height position, adjust the retaining ring (C) on the head support anchor (D) for a more secure fit, and to indicate the position when replacing the head support.

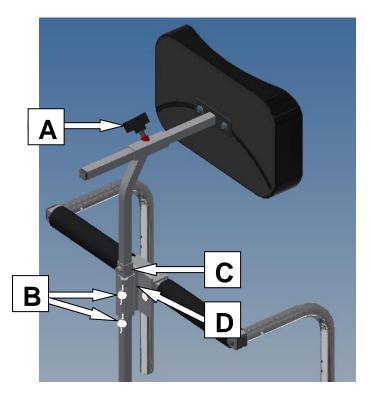


Figure 30: Height and depth adjustable head support

5.4 TILTING THE SEAT

The Tango CE is equipped with a seat tilt. This mechanism allows you to tilt the entire seat backwards or forwards.

• Make sure to engage the locking brakes before operating the tilt mechanism.

NOTE: Check that the anti-tips are in place and properly adjusted.

5.4.1 BACKWARD TILT



Figure 30-A: Tango CE seat tilt.

- 1. Stand behind the wheelchair and grasp the tilt handles (see Figure 30-A);
- 2. Apply sustained pressure on the two (2) handles and move the seat backward;
- 3. Release the handles when the selected position is reached;



When tilting the seat, the wheelchair may become unstable in some configurations. Do a test run before leaving a person in a wheelchair with the seat tipped over.

- 1. To return the seat to its horizontal position, and to tilt it forward, repeat the same procedure, but apply a slight upward effort while holding the handles;
- 2. Release the handles when the seat is in the right position.

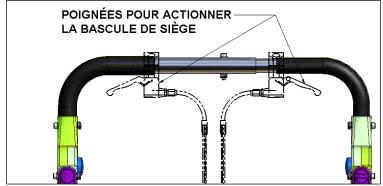


Figure 30-C: Seat tilt handles on an adjustable push handle.



5.5 REAR WHEELS

5.5.1 REMOVING - INSTALLING

If your **Tango CE** has a quick-release wheel axle, you can remove the wheels for easier transport.

This should be done when the wheelchair is unoccupied. To remove the wheel:

- 1. Hold down button (A) and pull the wheel toward you by holding it by the centre (see Figure 31);
- 2. Follow the same procedure to install the wheel, checking that the axle is locked in place by the stop pin (B).

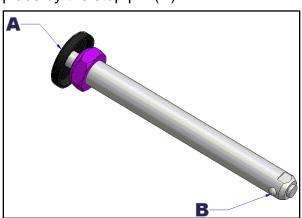


Figure 31: Quick release wheel axle.

5.5.2 AIR TIRE PRESSURE

To ensure optimum mobility performance of your wheelchair, the tire pressure should be checked weekly.

20 in. standard tire pressure	65 psi
22 in. standard tire pressure	65 psi
24 in. standard tire pressure	75 psi

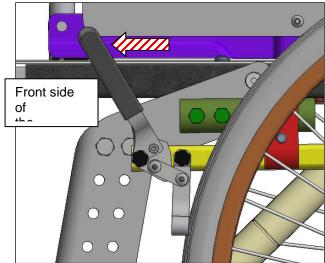


Make sure that the inflator does not damage the tires, if a higher pressure than indicated on the tire is possible. Inflating tires can potentially be dangerous.



5.6 LOCKING BRAKES

5.6.1 ENGAGING - RELEASING THE BRAKES



Front side of

Figure 32-A: Engaged brake (active).

Figure 32-B: Released brake (inactive).

To engage the brake, apply forward pressure to the lever (see Figure 32-A); a)

To release the brake, pull the brake lever toward you (see Figure 32-B). b)

NOTE: Inadequate tire pressure will render the brake ineffective.

If your wheelchair is equipped with traction brakes, reverse steps a) and b). NOTE:

NOTE: The brake model may differ from the images in Figures 32-A and 32-B, but the mechanism for activating or disengaging the brakes is identical.

5.6.2 TELESCOPIC BRAKE LEVER EXTENSIONS

- a) To extend the lever, pull up on the end (see Figure 33-A);
- b) To retract the lever, press down on the end (see Figure 33-B).

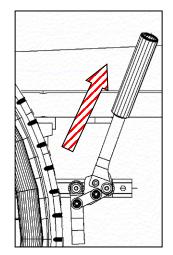


Figure 33-A: Extended handle.



Figure 33-B: Retracted handle.



5.6.3 12 IN. WHEEL BRAKES

- 1. The 12 in. wheel brake can be activated by the assistant at the back of the wheelchair, as shown in Figure 34.
- 2. Push down with one hand to release the brakes, then pull up to lock the wheels.
- 3. Check that the brakes are engaged on both sides before transferring the user or leaving them alone.
- 4. There is no rear wheel position adjustment.

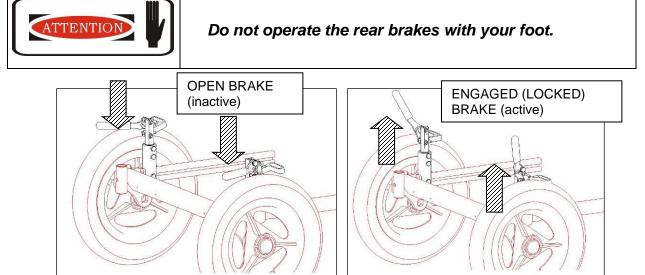


Figure 34: Engaging and releasing the 12 in. wheel brake.

5.7 ANTI-TIPS

5.7.1 REMOVING

1. For easier transport of your wheelchair, you can remove the anti-tip. To do this, simply press the button (A) and remove it from its housing (see Figure 24).

5.7.2 RETRACTING

- 1. To clear certain obstacles, the anti-tips can be retracted by turning them inwards (see Figure 24);
- 2. In this situation, a third party should stand behind the back support with both (2) hands on the back support handles.



Never use your wheelchair alone if the anti-tip devices are not in the drive position.

5.7.3 REINSTALLING

- 1. To reinstall the anti-tips, insert the tube into its housing and press lightly. There should be a small click, indicating that the anti-tip is in place (see Figure 24).
- 2. Finally, check that the anti-tip is securely locked in place by trying to pull it out of the housing and turning it.

5.8 SEAT BELT



For your comfort and safety, make sure that the belt provided with the wheelchair is adjusted to your waist.

To adjust the belt length, slide the strap through the plastic loops, making sure that the belt moves in the direction shown in Figure 35-A.

Figure 35-A: Belt length adjustment.



Figure 35-B: To prevent the belt from slipping.

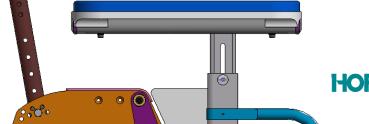
NOTE:

The free end must always extend from the plastic loop by three inches (3 in.).

To prevent the belt from slipping, reinsert the free end into the loop, as shown in Figure 35-B.

Any modifications to your belt's assembly or attachments must be made by a health care professional.

Your belt can be attached in the pelvic or femoral position (see Figure 35-C and 35-D).



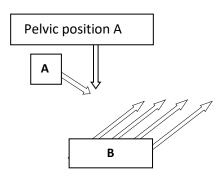


Figure 35-C: Tango CE belt



Figure 35-D: Tango CE belt (femoral)

To install your belt in the pelvic position on the Tango CE, use two (2) 7/16 in. open-end wrenches to unscrew the bolted assembly (A) from the back support, remove the circular support and insert the belt attachment buckle between the clothing guard plate and the back support (see Figure 35-C). Repeat this procedure on the other side of the wheelchair.

To place the belt in the femoral position, use a 7/16 in. open-end wrench and a 5/32 in. Allen wrench to insert the screw (B) into one of the holes on the side of the clothing guard plate on the outside of the wheelchair. (See Figure 35-C) Insert the belt's attachment loop on this screw, inside the clothing guard plate, then tighten the nut (see Figure 35-D). Tighten the assembly and repeat the procedure on the other side of the wheelchair.

5.9 ANCHOR POINTS FOR SPECIALIZED TRANSIT

5.9.1 INSTRUCTIONS FOR SPECIALIZED TRANSIT

- The Tango CE complies with BNQ 6645-001 (2020) and ISO 7176-19 standards. This model was subjected to frontal impact testing when used as a forwardfacing seat in a motor vehicle.
- The dynamic tests were performed in a forward-facing direction, using a dummy restrained by lap and shoulder belts (e.g., a shoulder belt as part of a three-point belt restraint system).





Do not alter or modify the wheelchair's mounting points or structural and frame parts/components without permission from Orthofab.

- Place the wheelchair facing the front of the vehicle in the tie-down area; activate the wheel locks (brakes) and turn off the power if necessary.
- Attach tie-down straps to the vehicle floor anchors as specified by the anchoring system manufacturer.
- Attach the four tie-down hooks at the following locations:

The Tango CE has 4 anchor points (see Figure 36).

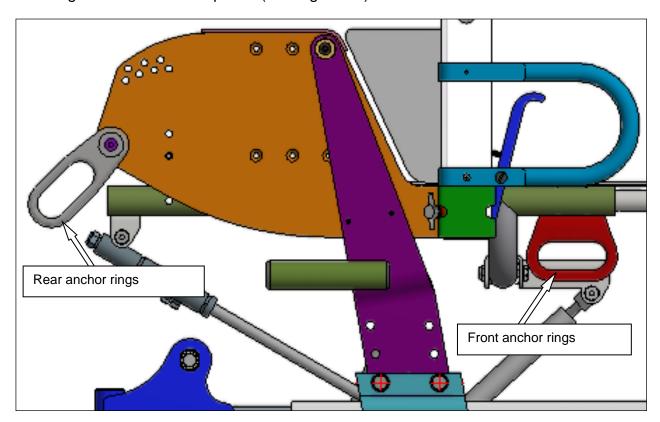


Figure 36: Location of anchor rings for specialized transit.





Never use anything other than these anchor points for transport.

- The brakes must be engaged. Never leave the wheelchair in freewheel mode during transport.
- The carrier should provide you with a seat belt that is attached to the vehicle.

5.9.1 TIPS FOR TRANSPORTING THE WHEELCHAIR WITH ITS USER



Pelvic positioning belts may be used in a moving vehicle in conjunction with the wheelchair seat belt. However, pelvic positioning belts should not interfere with proper use of the vehicle seat belt.



Use sealed gel batteries when the wheelchair is used as a seat in a motor vehicle.



The maximum occupant weight for specialized transit is 350 lbs. Failure to comply with the maximum weight may increase the risk of serious injury in a collision.



Use the motor vehicle seat and its seat belt system when it is physically possible to transfer the occupant and secure the wheelchair with the dedicated restraint system.





Do not place any object near the seat belt release button to prevent accidental release.



Do not recline the wheelchair seat angle more than 30° when using it as a motor vehicle seat.



Do not rely on postural components to restrain the occupant in a moving vehicle.



Have the wheelchair inspected for damage if it is involved in a sudden stop. Replace any wheelchair that is involved in a collision.



Do not use the tilt function when the seat belt is in use, as it may cause the belt to over-tighten.

Section 1 – General information

- The impact tests were conducted with a dummy restrained by pelvic and shoulder belts, and both should be used when the wheelchair is used as the seat in a motor vehicle.
- The shoulder belt, not supplied by ORTHOFAB, must comply with Section 5.1 of ISO-7176-19 and be labeled as such.
- A four-point (4) or base anchor system should be used to secure the wheelchair in a motor vehicle (check compatibility of the base anchor system with ORTHOFAB).
- Ease of access and maneuverability in motor vehicles can be significantly affected by the wheelchair's size and turning radius. Smaller wheelchairs with a smaller turning radius will dramatically improve ease of access for positioning a wheelchair forward in a motor vehicle.
- Removable components and/or accessories should be secured independently.
- Postural components should NOT be used as a restraint system.
- The Tango CE wheelchair weighs 39 kg in its test configuration.



Accommodation assessment of wheelchair according to Annex D of ISO 7176-19

Criteria	Assessment
Ease of belt fitting	Excellent
Quality of belt fit	Excellent

<u>Section 2 – Instructions – Using the wheelchair as a seat in a motor vehicle</u>

Anchor points

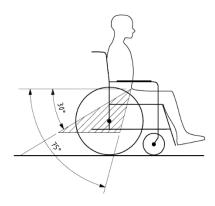
Use the anchor points on the wheelchair, following the directions provided in this note. Look for the following symbol, which indicates anchor points that comply with the ISO 7176-19 standard.



Pelvic safety belt

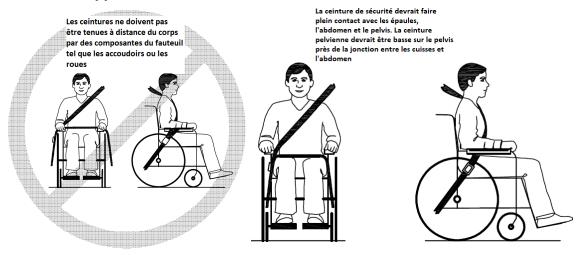
- Only use pelvic safety belts that comply with section 5.1 of ISO 7176-19.
- Install the pelvic belt on the anchor points at the back of the wheelchair.
- Depending on the width of the wheelchair, thread the pelvic belt between the back support and the arm support or inside the back bars to minimize deviations.
- Do the same on the other side.

The safety belt angle to the horizontal should be between 30° and 75°. Whenever possible, it is preferable to aim for the higher angle of 75°.

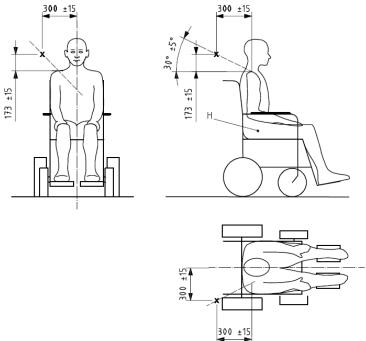




The belt should pass over the occupant's body and not over parts of the wheelchair, such as arm supports or wheels.



The shoulder belt should fit snugly over the body through the midpoint of the shoulder and across the centre of the abdomen.



Here are some tips for situations where assistants must transport an occupant:

- Check that the brakes are fully engaged;
- Always use the seat belt, making sure it fits snugly;
- Lower the elevating leg support assembly;



• Do not lift the wheelchair by its detachable components (arm supports, leg supports, etc.).



6 MAINTENANCE

MAINTENANCE PROCEDURE

Like any other vehicle, your wheelchair needs maintenance to operate safely and efficiently. Routine maintenance will increase your wheelchair's lifespan and efficiency. Take your chair to a qualified dealer or authorized service centre once a year for thorough inspection and maintenance. Regular cleaning will reveal any parts that are worn or need adjustment, while ensuring the safe use of your wheelchair. Checklist	Upon delivery	Weekly	Monthly	Periodically
Initial adjustments should suit your personal needs. For any subsequent maintenance, please follow the procedure below.				
General The chair rolls in a straight line and does not pull to one side.	х			х
 Locking brakes Do not interfere with the wheels when driving. Engage and release easily. Moving parts are not loose or worn. 	х		х	
3. Clothing guard Check for bent or protruding parts and make sure all fasteners are secure.	х			х
4. Arm support Solid but easy to retract.	х			х
 Arm support upholstery Check for tears - make sure that the base is properly resting on the tube. 			х	х
6. Seat and back support covers Check for tears or sagging.			х	
7. Actuator and cable The cables release completely and the handles snap back into place when released.		х		х
8. Tilt or back support cylinders Check for oil leaks.	х			х
9. 20, 22 and 24 in. rear wheels Is the sealed bearing and nut tension appropriate?	Х	х		х
10. Hand rims Check for rough spots or peeling finish.	Х			х
11. Front wheels Check for proper tension by rotating the wheel; it should stop gradually. Adjust the bearing if the wheel wobbles or stops abruptly.	х	x		
<u>CAUTION</u> : Like any vehicle, the wheels and tires must be periodically checked for signs of wear and replaced if necessary.				
12. Tires Check for wear. If pneumatic, check air pressure.	х		х	
13. Axles Keep quick release axles clean.			х	
14. Hand rims Make sure that the hand rims are properly attached to the wheels.			х	
15. Cleaning Clean parts and upholstery.				х
Tiro proceuro				· ·

Tire pressure



The recommended air pressure will usually be marked on one side of the tire. However, if necessary, you can refer to the following table:

20 in. standard tire pressure	65 psi
22 in. standard tire pressure	65 psi
24 in. standard tire pressure	75 psi
8 x 2 in. tire	35 psi



After making any adjustments, and BEFORE using the wheelchair, make sure that all parts are tightly secured. DO NOT overtighten the hardware as damage to the tubing may occur.



7 TROUBLESHOOTING GUIDE

Wheelchai r pulls to the right	Wheelchair pulls to the left	Wheelchair is difficult to propel	Front wheels oscillate	Noise or squeaking	SOLUTIONS
Х	X	Х			Check tire air pressure
		Х	Х	Х	Check the tightness of the screws and nuts
Х	Х		Х		Check that both front wheels are touching the ground at the <i>same</i> time
Х	X				Check the tightness of the spokes
Х	Х	Х	Х		Check the angle of the front fork brackets
Х	Х				Check the rear wheel axle adjustment
Х	Х	Х			Check the front and rear wheel rotation
Х	Х				Check the front and rear fork rotation
Х	Х	Х		Х	Check that the brakes do not rub on the wheels when fully disengaged.



8 WARRANTY

ORTHOFAB quarantees its Tango CE tilt wheelchair against any manufacturing defect for a period of five (5) years on the units and components from the date of possession by the insured person.

The warranty applies to units, components, parts, and workmanship in the event of breakage or malfunction due to a defect. The term "defect" refers to any design or manufacturing fault that renders the unit, component, or part unsuitable for the purpose for which it was designed.

Units and components replaced or repaired under any of these warranties are subject to the remaining term of such warranty.

A five (5) year warranty on components added to a unit and on components not replaced under a warranty provided for above from the time of addition or replacement.

If a unit was repaired four (4) times for the same defect or has been out of service for a period of sixty (60) consecutive or non-consecutive days within one (1) year of delivery, the insured person may request a replacement at no charge.

This period begins on the first day on which the unit is out of service. A repair carried out within one day, regardless of its duration, counts as one day. However, **ORTHOFAB** shall not be responsible for delays caused by the lack of availability of the user or the establishment to perform the repair.

A device is considered unserviceable when it cannot perform the functions for which it was designed.

The parts used to repair a unit or component are covered by the remaining warranty of that unit or component.

Replacements and repairs during the warranty period shall be made with original parts and components.

ORTHOFAB will repair or replace any defective part if it is returned carefully packaged to prevent further damage and sent (postage prepaid) to an authorized ORTHOFAB distributor during the warranty period.

This warranty does not cover mechanical parts or components damaged by abuse, neglect, accident, normal wear and tear or installation not authorized by **ORTHOFAB**.

ORTHOFAB quarantees the availability of components and parts necessary for the operation of the wheelchairs for a period of five (5) years from the date of delivery.



This is provided in lieu of any other written, implied, or statutory warranty. **ORTHOFAB**'s liability is limited to the repair or replacement of any part or component as set forth above.

Exclusions and limitations

The above warranty does not apply to products that have been subject to negligence or accident, faulty use, maintenance or storage, or improper use or service. Furthermore, it does not apply to products damaged because of repair or modification without written consent from ORTHOFAB, nor to repairs and modifications not performed by an authorized **ORTHOFAB** distributor.



The warranty shall be limited to the repair and, at **ORTHOFAB**'s absolute discretion, the replacement of defective material as provided herein. Except for the warranties set forth herein, ORTHOFAB makes no express or implied warranty, statutory or contractual, including for latent defect, nor any implied warranty of merchantability or fitness for a particular purpose relating to its products, except as otherwise provided herein.

The express warranty set forth above is in lieu of any liability or obligation of **ORTHOFAB** for damages arising out of or relating to **ORTHOFAB** products.

In no event shall **ORTHOFAB** be liable for any special, indirect, or consequential damages, whether in contract, tort or otherwise, even if **ORTHOFAB** has been advised of the likelihood of such damages. The distributor's warranty shall be expressly limited to the repair and replacement of non-conforming products as provided herein, or the refund of any amount not exceeding the purchase price of the material involved.

The conditions in section 8 constitute the complete and exclusive warranty statement applicable to **ORTHOFAB** products and shall supersede any prior proposal or agreement. oral or written, and any other communication between ORTHOFAB and a particular distributor regarding the **ORTHOFAB** warranty.

ORTHOFAB shall not assume any risk for damage incurred during transport.

NOTES:

Any components exchanged under this warranty shall be covered by the original warranty.

If a component is returned under this warranty, but considered by Orthofab as functional, the component will be returned to the customer.

9 AUTHORIZED CENTRES

AUTHORIZED CENTRES

Technical Aids Services

CIUSSS du Bas-Saint-Laurent

800, avenue Sanatorium Mont-Joli (Québec) G5H 3L6

CIUSSS du Saguenay-Lac-Saint-Jean

2230, rue de l'Hôpital Jonquière (Québec) G7X 7X2

CIUSSS de la Capitale-Nationale

525, boulevard Wilfrid-Hamel Est Québec (Québec) G1M 2S8

CIUSSS de la Mauricie-et-Centre-du-Québec

3470, rue Sainte-Marguerite, pavillon G Trois-Rivières (Québec) G8Z 1X3

CIUSSS de l'Estrie

300, rue King Est, bureau 200 Sherbrooke (Québec) J1G 1B1

CIUSSS du Centre-Sud-de-l'Île-de-Montréal

Centre de réadaptation Lucie-Bruneau 2305, avenue Laurier Est Montréal (Québec) H2H 1C5

CIUSSS du Centre-Sud-de-l'Île-de-Montréal

Institut de réadaptation Gingras-Lindsay de Montréal 6300, rue Darlington Montréal (Québec) H3S 2J4

CIUSSS du Centre-Ouest-de-l'Île de Montréal

CRDP Constance-Lethbridge 7005, boulevard de Maisonneuve Ouest Montréal (Québec) H4B 1T3

CHU Sainte-Justine

Centre de réadaptation Marie-Enfant 5200, rue Bélanger Est Montréal (Québec) H1T 1C9

CIUSSS du Centre-Ouest-de-l'Île de Montréal

Centre de réadaptation MAB Mackay 3500, boulevard Décarie Montréal (Québec) H4A 3J5

Addresses

800, avenue Sanatorium Mont-Joli (Québec) G5H 3L6

2230, rue de l'Hôpital Jonquière (Québec) G7X 7X2

Site François Charron / section adultes 525, boulevard Wilfrid-Hamel Est Québec (Québec) G1M 2S8

3470, rue Sainte-Marguerite, pavillon G Trois-Rivières (Québec) G8Z 1X3

300, rue King Est, porte 18-B Sherbrooke (Québec) J1G 1B1

2305, avenue Laurier Est Montréal (Québec) H2H 1C5

6300, rue Darlington

Montréal (Québec) H3S 2J4

7005, boulevard de Maisonneuve Ouest

Montréal (Québec) H4B 1T3

5200, rue Bélanger Est Montréal (Québec) H1T 1C9

3500, boulevard Décarie Montréal (Québec) H4A 3J5

9 AUTHORIZED CENTRES

CISSS de l'Outaouais

135, boulevard Saint-Raymond Gatineau (Québec) J8Y 6X7

CISSS de l'Abitibi-Témiscamingue

CH SAT Amos 622. 4e Rue Ouest Amos (Québec) J9T 2S2

CISSS de l'Abitibi-Témiscamingue

CRDP Rouyn-Noranda 7, 9e Rue Rouyn-Noranda (Québec) J9X 2A9

CISSS de la Côte-Nord

1250. rue Lestrat Baie-Comeau (Québec) G5C 1T8

CISSS de la Gaspésie

230, route du Parc Sainte-Anne-des-Monts (Québec) G4V 2C4

CISSS de Chaudière-Appalaches

9500, boulevard du Centre-Hospitalier Charny (Québec) G6X 0A1

CISSS de Laval

Hôpital juif de réadaptation de Laval 560, boulevard Cartier Ouest Laval (Québec) H7V 1J1

CISSS de Lanaudière

1075, boulevard Firestone, bureau 1000 Joliette (Québec) J6E 6X6

CISSS des Laurentides

CISSS Montérégie-Ouest 5300, chemin de Chambly Saint-Hubert (Québec) J3Y 3N7

135, boulevard Saint-Raymond Gatineau (Québec) J8Y 6X7

622, 4e Rue Ouest Amos (Québec) J9T 2S2 7. 9e Rue Rouyn-Noranda (Québec) J9X 2A9

915, rue Germain Val-d'Or (Québec) J9P 3Y1

1250, rue Lestrat Baie-Comeau (Québec) G5C 1T8

450, avenue Évangéline Sept-Îles (Québec) G4R 2N5

230, route du Parc Sainte-Anne-des-Monts (Québec) G4V 2C4

9500, boulevard du Centre-Hospitalier Charny (Québec) G6X 0A1 253, Route 108 Beauceville (Québec) G5X 2Z3

560, boulevard Cartier Ouest Laval (Québec) H7V 1J1

1075, boulevard Firestone, bureau 1000 Joliette (Québec) J6E 6X6

11, rue Boyer Saint-Jérôme (Québec) J7Z 2K5

5300, chemin de Chambly Saint-Hubert (Québec) J3Y 3N7

730, rue St-Pierre Est St-Hyacinthe (Québec) J2T 1N2

250, Chemin Christ-Roi Châteauguay (Québec) J6J 4G7 Delivery of parts and components only:

388, rue Lamarre Longueuil (Québec) J4J 1T2



Customer Service Centre

2160, De Celles Québec (Québec) G2C 1X8

(418) 847-5225 (800) 463-5293

Tango CE

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