



**drive**



**XS2 Aluminium Wheelchair**  
(XS2SP16SIL, XS2SP18SIL, XS2SP20SIL,  
XS2TS16SIL, XS2TS18SIL, XS2TS20SIL)

Instructions for use

CE

## introduction

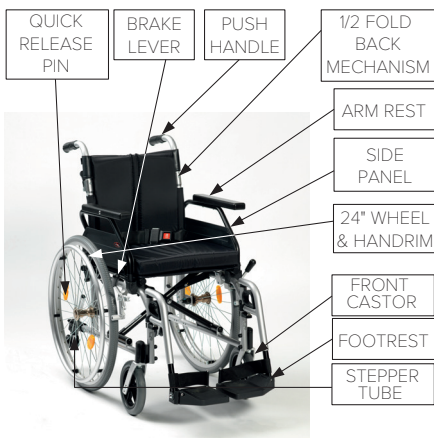
The lightweight XS2 wheelchair range is intended to assist the transport of users with mobility difficulties. This wheelchair is designed for occasional or frequent use, and can be used indoors and outdoors. Over-loading the wheelchair is the only known contraindication, although others may be specific to an individual or care environment. The wheelchair can be manually moved forward and in reverse. The wheelchair is available in either a transit model, or a self propel model to be operated by the wheelchair user. The wheelchair can support users of up to 135 kg (21 stone).



### Warning

This wheelchair must not be used as a seat in a motor vehicle. Users should always transfer to the vehicle's seat and the wheelchair should be safely stowed away.

## parts description



Self Propel models

16" (XS2SP16SIL)

18" (XS2SP18SIL)

20" (XS2SP20SIL)



Transit models

16" (XS2TS16SIL)

18" (XS2TS18SIL)

20" (XS2TS20SIL)

## preparing for use

These instructions should be read carefully before using the wheelchair.

This product does not have a service manual. The following parts should be adjusted by a healthcare professional to suit each user's requirements:

### 1. Rear Wheels

Use the axle bracket to alter the horizontal position of rear wheels and the vertical position of self-propel wheels. Remove the screws and nyloc nuts, reposition, then reattach the fasteners and adjust brakes (below). Drive DeVilbiss Healthcare Ltd recommends approved service personnel do this.

### 2. Upholstery

This wheelchair features a cushioned seat and back, and a tension-adjustable back canvas. To adjust the tension, remove the cushion and backrest, then adjust the Velcro straps. Ensure straps are not too taut, as this can damage the wheelchair.

### 3. Brake Unit

Loosen the bolt heads with a 5mm hex key, sliding the brake unit along the frame. Readjust the brakes if any rear wheels have been moved. Drive DeVilbiss Healthcare Ltd recommends approved service personnel do this.

### 4. Armpad Position

Move the armpads back or forward by holding the buttons on either side.

### 5. Footrest Height and Angle, Anti-tip Wheels

See the **footrest adjustment** and **steep terrain, kerbs and steps** sections.

A risk assessment must also be performed to assess suitability of the device for the user. This assessment should include, but not be limited to:

- Small adults (and children)
- Users (and attendants) who lack capacity
- Very active occupants
- Unauthorised access to the wheelchair

Independent users and attendants are responsible for determining that they are both mentally and physically capable of using the wheelchair with minimal risk of harm.



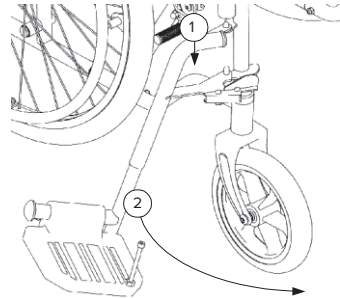
Maximum occupant mass – Exceeding the limit marked on your device can damage the product and put users at risk of harm.

Remove all packaging and stand the wheelchair on the ground. Separate the arm rests to open the wheelchair, then push down firmly. Once the seat is secure, the backrest is upright and the footrests are attached (see overleaf), the wheelchair is ready for use.

## footrest adjustment

To fit the footrests, align approximately 45° outwards, push down firmly into the frame (1) then rotate inwards (2) until they lock into place. Pull the handle / lever and rotate to release.

For optimum comfort it is important to attain the correct leg position. To change the footrest height, unscrew the hex bolt on the silver tubing with a 5mm hex key. To alter the footplate angle, loosen the 6mm hex bolt on the side. Adjust the footrest as required, then tighten to secure.



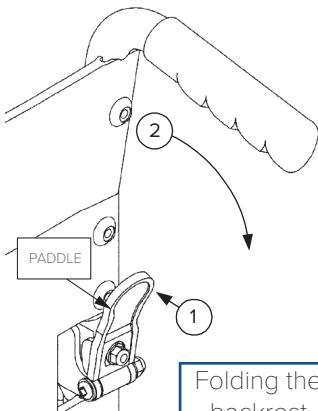
Attaching the footrest



### Common misuse

Do not stand on the footrests. Overloading can damage the product and cause harm to the occupant.

## folding back mechanism



Folding the backrest

To fold the backrest, push the black paddle towards the back post with your thumb (1) whilst pulling the handle down (2) as shown in the [folding the backrest](#) image. Repeat this operation for the other handle.

To put the backrest back into position, lift both handles together and the folding mechanism will lock back automatically.

Do not push down on the handles to raise the front of the wheelchair, as this could result in damage to the wheelchair. To mount kerbs and steps, reconnect the backrest and use the stepper tube as described in the [steep terrain, kerbs and steps](#) section.



### Common misuse

The paddle is intended to be pushed. Do not pull the paddle to fold the backrest.

## general warnings



### Before using the wheelchair, read the safety notices below;

- Do not exceed the 10° maximum gradient. Use slow speeds and do not reverse down a gradient.
- Do not use on escalators.
- The wheelchair is only suitable for single occupancy.
- Keep your feet on the footrests when moving. Do not stand on the footrests.
- Ensure that fingers and objects do not get caught in the wheel spokes or any other moving parts during use and assembly.
- Maintain proper balance at all times. Users should not move their centre of gravity out of the seating area.
- Do not reach for items further than your arm's length.
- Parking brakes should always be applied when transferring.
- Be aware of hazards in your environment, such as narrow doorways, steps, household appliances, children's toys, etc.
- A risk assessment must be performed by a competent person to ensure the wheelchair is suitable for the user. We recommend you consult a healthcare professional before using any assistive medical devices.
- Keep away from heating and ignition sources which may raise surface temperatures or cause a fire.

## transfer and use

**Transfer:** When transferring in and out of the seat, move the seats as close as possible to each other. Attendants should engage parking brakes and fold away footrests. If users need to be lifted out of a seat, attendants are responsible for being suitably trained and competent to lift occupants with minimal risk of harm. Good health and safety practice must always be used.

**Propelling:** The attendant should push from behind using the handgrips, and following the safety advice above. Transit models can only be propelled by an attendant. Self Propel models can also be propelled by wheelchair users, pushing the handrims on the rear wheels. To slow down, apply pressure to the handrims.

When stationary, the brakes should always be applied.

## steep terrain, kerbs and steps

**Steep terrain:** These wheelchairs are not designed for use on gradients beyond 10°. When on a slope, avoid swerving or sudden changes in movement.

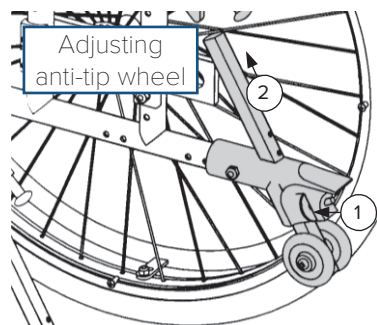
**Over kerbs:** Attendants push down on the stepper tube with a foot to raise the front castors (when mounting a kerb for example).



### Common misuse

Do not lean or push down on the push handles, as this can damage the wheelchair.

The stepper tube at the back of the wheelchair comes with an integral anti-tip wheel (shown in [Adjusting anti-tip wheel](#)). To adjust the height of these wheels and enable the wheelchair to tip backwards, pull the metal disc (1) and adjust the height of the wheel (2). Release the disc and slide the anti-tip wheels to ensure they are locked in position.



To mount kerbs, lift the anti-tip wheels fully and approach the kerb head-on. Then the attendant uses the stepper tube to raise the front castors, and lowers the front castors on the raised kerb. Finally the attendant should push the wheelchair forward, lifting it up slightly to mount the kerb if required.

To go down, line up the front castors with the edge of the kerb. The attendant uses the stepper tube to raise the front castors and tip the user slightly back. Keeping the castors raised, slowly lower the wheelchair down the kerb.



### Common misuse

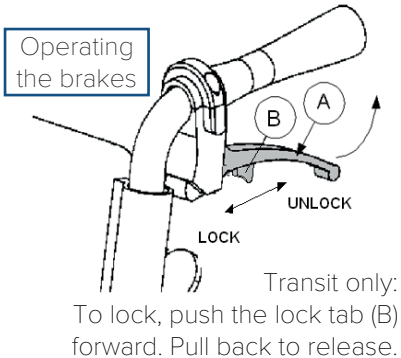
In most cases, attendants should also raise the front castors when going down kerbs, to prevent the user from falling or sliding out.

**Multiple steps:** The wheelchair is not designed to mount staircases, so may require carrying if no elevators or ramps are available. Attendants are responsible for being suitably trained and competent to lift the wheelchair with minimal risk of harm. Do not carry using the handles or any removable sections.

## brake operation

### Parking Brakes

To apply the parking brakes, push the handle on the brake unit until locked in place. To release the brake, pull the handle in the opposite direction. The brakes should always be applied when the wheelchair is stationary.



### Cable Brakes

On the transit models, the attendant pushing the wheelchair may use cable-operated brakes to slow or park the wheelchair.

To apply the brakes, squeeze the large lever (A) on the push handles and the brakes will be applied until the levers are released. Ensure both levers are pulled simultaneously to ensure the wheelchair travels in a straight line.

## using a wheelchair belt

Belts are often used to restrain wheelchair occupants during normal use. Any belts used should be adjusted to suit each user. When fastened, they should be tight without causing discomfort or undue pressure. Belts may not be suitable for all users. Seek professional medical advice before using a wheelchair belt.

All wheelchairs in the XS2 range come with a lap belt. They are secured around the user's pelvis to help keep their hips and pelvis towards the back of the seat. These belts must not be used as a substitute for a seatbelt in a motor vehicle. The length of the belt can be adjusted using the tri-glides, and it has a large clip to fasten and unfasten the lap belt.

There is a risk of suffocation from users 'submarining' (where they slide down the chair until the lap belt is around the neck area). To reduce the risk of this, ensure appropriate belts are fitted, occupants are under supervision and the belts are used in line with the manufacturer's instructions for use.

## disassembly and storage

This wheelchair has a number of quick release components and the wheelchair frame is easily foldable. This facilitates a light carry weight and minimises storage space required. To disassemble for storage, transport or maintenance, follow the steps below. To reassemble components, reverse these instructions.



### 1. Quick release wheel

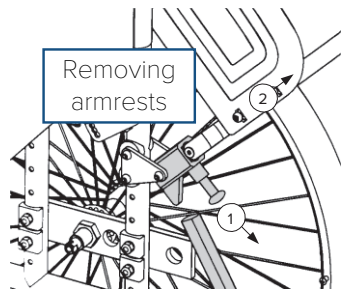
To remove the rear wheels, push the button in the centre of the wheel hub, (shown on the Quick release button diagram in grey), and slide the wheel and axle from the frame.

To reattach, push both parts into the frame until the wheel is secure.

### 2. Armrests

There is a lever towards the front of each armrest to move them, similar to the backrest levers. Push the levers to release the armrests and flip them upwards.

To remove the armrests, flip them upwards, pull the lever at the back (1) of the Removing armrests image and pull upwards on the tube frame (2).



### 3. Half Folding Back

Follow the previous instructions to fold the back.

### 4. Footrests

Follow the previous instructions to remove or swing out the footrests.

### 5. Folding the wheelchair

Remove the seat and back cushions. Then grab the centre of the front and rear edges of the seat sling. Pull upwards on the seat sling and the wheelchair should naturally fold up.

Note: The wheelchair may be folded and stored in a motor vehicle.

The wheelchair should be stored in a dry environment, away from direct sunlight.



## care and maintenance

Do not use a damaged or badly worn wheelchair. Users should routinely check for any malfunctions or changes in performance. See **Accessories and Spare Parts** section for approved parts available from Drive DeVilbiss Healthcare Ltd.

- Before each use of the wheelchair, the brakes and tyres should be checked. It can be folded up for storage, with the parking brakes on.
- The wheelchair should be kept clean and dust free. This can be done with a duster or damp cloth. Avoid neat bleach or abrasive surface cleaners. Leave to fully dry before reuse.
- Drive DeVilbiss Healthcare Ltd recommends that an approved service engineer maintains the wheelchair annually, and these items should be repaired, replaced, adjusted and/or lubricated if required:
  - Tyres
  - Wheel bearings
  - Castors
  - Brakes
  - Footrest locking mechanism
  - Seat upholstery
  - Back upholstery
  - Arm pads
  - Rear wheel quick release pin
  - Half folding back mechanism
  - Back posts
  - Wheelchair folding mechanism
- When the product has reached the end of its useful life, follow local recycling and disposal policies.

## powerpack installation



This wheelchair is suitable for some retrofit powerpacks, which allow the device to be controlled electronically. (See Powerpack example image.)

Powerpacks are not required to use the wheelchair. The mounting position will need adapting to be suitable for both the user and the powerpack used. Any installed powerpack must be used in line with the manufacturer's instructions for use.

For more information about powerpacks, contact Drive DeVilbiss Healthcare Ltd or your local dealer.

## specification

Model	XS2SP16SIL	XS2SP18SIL	XS2SP20SIL	XS2TS16SIL	XS2TS18SIL	XS2TS20SIL
Maximum occupant mass	135 kg	135 kg	135 kg	135 kg	135 kg	135 kg
Overall length with legrest	103 cm	103 cm	103 cm	92 cm	92 cm	92 cm
Overall width	58 cm	63 cm	68 cm	58 cm	63 cm	68 cm
Folded length	83 cm	83 cm	83 cm	83 cm	83 cm	83 cm
Folded width	26 cm	26 cm	26 cm	26 cm	26 cm	26 cm
Folded height	63 cm	63 cm	63 cm	63 cm	63 cm	63 cm
Total mass	17 kg	17 kg	17 kg	15 kg	15 kg	15 kg
Static stability	10°	10°	10°	10°	10°	10°
Effective seat depth	42 cm	42 cm	42 cm	42 cm	42 cm	42 cm
Effective seat width	40 cm	45 cm	50 cm	40 cm	45 cm	50 cm
Seat surface height at front edge	52 cm	52 cm	52 cm	52 cm	52 cm	52 cm
Overall height	93 cm	93 cm	93 cm	93 cm	93 cm	93 cm

## warranty

Your Drive branded product is warranted to be free of defects in materials and workmanship for one year from date of purchase. This device was built to exacting standards and carefully inspected prior to shipment. This warranty is an expression of our confidence in the materials and workmanship of our products and our assurance to the customer.

In the event of a defect covered by this warranty, we will at our option supply parts or replace the device. This warranty does not cover device failure due to owner misuse or negligence, or normal wear and tear. The warranty does not extend to non-durable components, such as rubber accessories, castors and grips, which are subject to normal wear and need periodic replacement. The wheelchair frame has a 5-year warranty.

If you have any queries or require full warranty conditions, please contact your provider.

## accessories and spare parts

Drive DeVilbiss Healthcare Ltd provide a range of accessories for wheelchairs in the XS2 range. Spare parts are also available for maintaining your wheelchair.

To order these parts, contact your provider. Visit [www.drivedevilbiss.co.uk](http://www.drivedevilbiss.co.uk) to find your local stockist. Spare part catalogues, compatibility charts and other documentation can also be found on this website. Only use parts approved by Drive DeVilbiss Healthcare Ltd.

For more information, or assistance with use and maintenance, please contact your provider. Users with visual, reading or cognitive disabilities should seek advice from their provider or a professional care provider for an appropriate format. For the latest version of this document, contact Drive DeVilbiss Healthcare Ltd using the details below, or check our website.

Any serious incident that has occurred in relation to the device should be reported to the manufacturer and the competent authority of your Member State. Please quote the product serial code on all correspondence, which can be found on the wheelchair frame under the seat.



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Drive DeVilbiss Healthcare Ltd provide these  
instructions for use and product markings.

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### Approved service facility