

# S1 Steel Wheelchair

**drive**<sup>TM</sup>

CE

[www.drivemedical.co.uk](http://www.drivemedical.co.uk)

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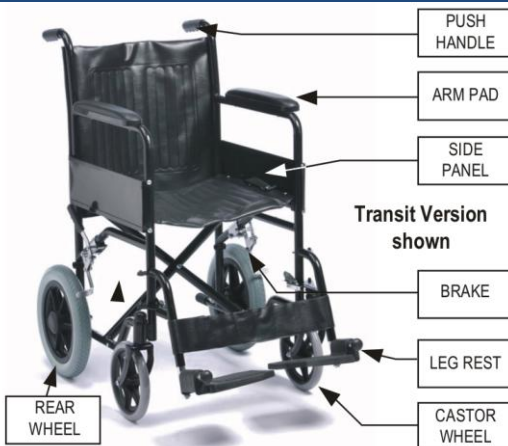
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## Introduction

The Drive Medical S1 steel wheelchair is designed for use indoors and outdoors, but should not be used on rough terrain. The wheelchair is designed for a single user of up to 115kg (18 stone). Models with either 24" self propel wheels or 12½" transit wheels are available.

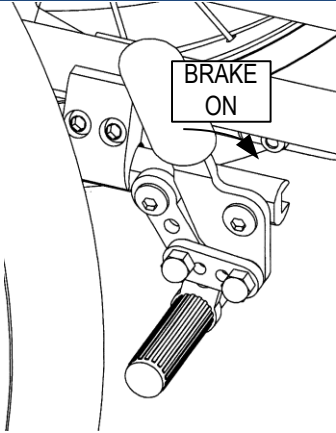
The wheelchair can be moved in all directions, and is manually propelled by the wheelchair user and/or a carer, depending upon the model of wheelchair in use.

## Parts Description



Steel wheelchairs come with either 24" rear wheels (for a user to self-propel or attendant to push) or 12½" rear transit wheels (for an attendant to propel).

## Brake Operation

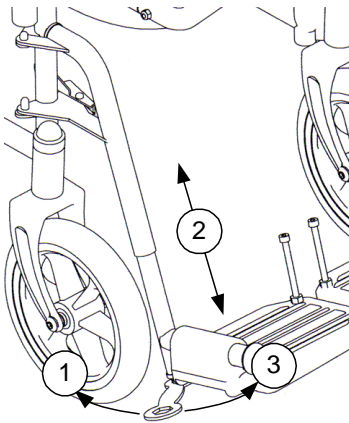


### Parking Brakes

To apply the parking brakes, push the handle on the brake unit until locked in place (see diagram). To release the brake, push the handle in the opposite direction.

*Note: the model of brake on the wheelchair may be visually different from that shown.*

## Leg Rest Adjustment



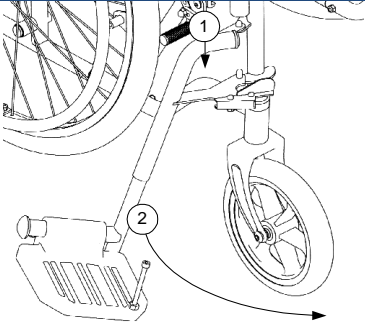
For optimum comfort it is important to attain the correct leg position. The footrests have been designed so that they can be extended into a number of fixed positions. To do this, release the bolt using the spanner (see diagram) and turning clockwise (1). Then adjust the footplate to lengthen or shorten the legrest (2). Finally, tighten the bolt by using the spanner and turning anticlockwise (3).

Some models of leg rests may come with tool free adjustment on leg rests. These models can be identified a brass push button on the tubing of the legrest.

*Note: Always ensure the bolt is sufficiently tightened after adjustment.*

*Note: the model of brake on the wheelchair may be visually different from that shown.*

## Leg Rest Removal



To remove the leg rest, press the chrome lever on the leg rest whilst swinging the leg rest out. This will now allow the leg rest to be lifted up and removed. To attach the leg rest, place the leg rest on the two receiver posts on the wheelchair frame (1). Then swing the leg rest inwards until it locks in position (2).

*Ensure that the leg rest is securely locked in position before use.*

## Operation and Propulsion

- The wheelchair can be propelled by the wheelchair user using the rear wheel handrims or by an attendant using the push handles.
- To apply the parking brakes, push the plastic brake handle towards the front of the wheelchair. Push the handle back to release the brakes. The brakes should be used as parking brakes when the wheelchair is stationary. Apply reverse pressure to handrims or push handles to slow the wheelchair during operation.
- Use slow speeds on gradients. Do not use on gradients more than 10°
- The wheelchair is only suitable for single occupancy.
- The wheelchair user should keep their feet on the footplates when moving. Do not stand on the footplates.
- Do not use escalators.
- Do not reverse down a gradient
- 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 will extend.
- Be aware of hazards in your environment, such as narrow doorways, steps, household appliances, children's toys, etc.
- We recommend you consult your healthcare professional for advice about transferring to and from the wheelchair. The parking brakes should always be applied when transferring.
- The wheelchair brakes are parking brakes and are not suitable for slowing the wheelchair down.

## Using the Stepper Tube

Use the stepper tube to raise the front castors (when mounting a kerb for example). To use, push down on the stepper tube with a foot. Do not raise the front castors by pushing down on the push handles as this could result in damage to the wheelchair.

**To mount a kerb.** 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 a kerb.** 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.

*Warning: When going down a kerb, the front castors must be raised to prevent the user from falling out. The above are only recommendations and may not be suitable for all events.*

## Disassembly and Folding

Before folding, remove any quick release components if required. The Enigma wheelchair has been designed with an easy fold mechanism. To fold the wheelchair, ensure that the leg rests are removed, or in the forward position with plastic footplates flipped up. Holding the front and rear edge of the seat sling, pull the seat in an upward motion. The wheelchair will naturally fold up. Alternatively pull up on the two lift up straps on the seat canvas. Use the folding back mechanism if required.

We recommend that the wheelchair is carried by the two lift up straps. Please note though that the wheelchair may be too heavy for some users to lift. Also be sure to adopt the latest health and safety recommendations when lifting the wheelchair.

## Using the Wheelchair as a Seat in a Motor Vehicle

Drive Medical recommends that when in transport a wheelchair user should whenever possible transfer to a vehicle seat and be restrained using the vehicle provided occupant restraint system. However, there are circumstances and situations where such a transfer may not be possible and that the S1 Wheelchair can be used as a seat within a vehicle.

In preparation for use as a seat in a vehicle, Drive Medical has subjected the wheelchair to the dynamic test requirements of ISO 7176 Part 19:2008 and satisfied all performance requirements.

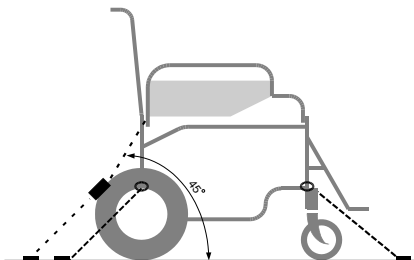
Drive Medical recommends that the S1 Wheelchair should be used forward facing in the vehicle, be secured using a 4 point tie-down system and a 3 point occupant restraint used to restrain the wheelchair user. A four point wheelchair tie-down and occupant restraint systems in compliance with ISO 10542-1:2012 would be suitable. The wheelchair was successfully dynamically tested using a Q-Straint system.

The wheelchair occupant should sit as upright as possible when in transport, ensuring that the lap belt lays as low as possible on the pelvis to avoid harmful loading of the abdomen, and that the upper section lay midway on the shoulder of the passenger.

Posture Support Devices such as a pelvic belt or an H-Type harness should not be relied on as a restraint system when in transport.

In situations where significant deviations from an upright seated posture are presented or the addition of other medical devices are required, a full risk assessment process should be conducted, and recorded, by all individuals involved in the transport process.

The securement points for the restraints are marked on the wheelchair using the symbol (overleaf).



#### LEGEND

- Wheelchair Restraints
- - - - - Occupant Restraints

## Maintenance and Tyre Pressure

This S1 wheelchair is installed with puncture proof solid tyres that will not require inflation.

Proper care and maintenance is important in order to keep your wheelchair in good working order. Be sure that your chair is in proper working order at all times. A qualified dealer or repair centre should be consulted for periodic inspections and repairs:

1. At least once a week, wipe down the frame using a clean soft cloth. If the chair is exposed to moisture, dry the chair immediately. The metal parts of the chair should be polished once a month with an auto wax.
2. Clean the upholstery with a mild soap solution, rinse and wipe dry. Worn or torn upholstery should be replaced promptly as it may not support your body weight.
3. Inspect the wheels at least once a month. Correct any side play by loosening the lock nut on the axle then tighten the axle just enough to remove anyplay.
4. Solid tyres require limited upkeep, but need to be cleaned periodically with a damp cloth. Solid tyres need to be replaced if they become cracked or severely worn.

## Specification

18" Wheelchair	Self Propel	Transit
Overall dimensions L x W x H (cm / in)	106 x 61 x 90cm (42" x 24" x 35")	88 x 60 x 91cm (35" x 24" x 36")
Width Closed (cm / in)	26cm (10")	26cm (10")
Seat dimensions L x W x H (cm / in)	40 x 45 x 50cm (16" x 18" x 20")	40 x 45 x 49cm (16" x 18" x 19")
Total weight	18kg	15kg
Maximum user weight	18 stone (115kg)	18 stone (115kg)

## 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.

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

This does not affect your statutory rights.