

MEYLAND-SMITH A/S



EST. 1901



User manual for
MEYWALK® 2000
model Medium and Large



Introduction

These instructions for use contain information on the assembly and adjustment of MEYWALK® 2000, how to maintain it, things to watch out for and other important items.

MEYWALK® 2000 Medium and Large are walking aids suitable for children from about 6 years old right up to adults, height from approximately 120 cm (47") to 200 cm (78"). MEYWALK® 2000 is intended for walking disabled who cannot stand up without support from a seat.



Figure 1

MEYWALK® 2000 can be adjusted to give a good and individually fitted support. The trunk support gives support to keep the torso upright and makes the user feel safe. The rear stop prevents the user from sliding off the seat, and the handlebar gives support to the arms. Using the integral lifting and lowering system the seat unit can be brought down to the height of a wheelchair seat, making it quick and easy to transfer the user over to the MEYWALK® 2000 and raise them up again. Both user and helper will find it much less tiring to get in and out of the MEYWALK® 2000 than other walking aids. Due to the large wheels MEYWALK® 2000 is suitable for both indoors and outdoors use.

Figure 1 shows the names of some of the different parts of MEYWALK® 2000 referred to in the text.

Prior to first use

MEYWALK® 2000 is supplied almost fully assembled. Check that the package contains the following parts:

- Bottom frame with wheels and brakes etc.
- Top part with seat and trunk support etc.

Note that a 5 mm Allen key is supplied with MEYWALK® 2000. This is located under the rear stop (see figure 2).



Figure 2

Joining the top part and bottom frame:

First remove the covering from the holes at the top end of the lower tubes on the bottom frame. Then remove the covering from the bottom of the upper tubes on the top part and shake it so the springs inside come out. Place the two springs in the top of the down tubes on the bottom frame (see figure 3), and fit the top part into the two down tubes on the bottom frame (see figure 3). Remember to position the top part so the handlebar is in direction towards the swivelling front wheels.



Figure 3

Mounting of accessories:

A description of how to mount accessories, both those supplied with the walking aid and those acquired later, is given in the section: "Mounting and adjustment of accessories".

Adjustment of basic model

Trunk support and seat height:

Note that the seat height will be altered when the height of the trunk support is altered.

The height of the trunk support and the seat is adjusted according to the rulers on each side of MEYWALK® 2000. Both adjustments are double secured. The spanner grips can easily withstand the load alone, but the adjustments can be extra secured with the Allen screws (see figure 4). This extra securing can be useful when MEYWALK® 2000 is used by only one user or if there is a risk that "a busybody" loosens the spanner grips.



Figure 4

The height of the trunk support is altered by loosening the bottom two Allen screws and then the bottom two spanner grips (see figure 4). This enables the two rings to be slid up or down the upper tubes. Place the rings at the desired height using the rulers to ensure they are at the same height on both sides. At last retighten the spanner grips (and if necessary Allen screws).

Set the seat height in the same way by loosening the top two Allen screws and then the top two spanner grips (see figure 5). This enables the seat tube to be slid up or down the upper tubes. Place the seat tube at the desired height using the rulers to ensure it is at the same height on both sides. At last retighten the spanner grips (and if necessary Allen screws).

Trunk support locking:

When closing the trunk support one can “lock” the two rear tubes by giving them a firm push downwards (see figure 6). In this way one can secure them from accidentally slide open or being opened by “a busybody” !

Spring loading:

The two springs inside the down tubes (see figure 7) can be changed to give a harder or softer suspension. As a guideline, it should be possible to collapse the springs completely with the weight of the user. There are four different spring hardnesses available, corresponding to the following minimum weights: white springs for at least 20 kg (45 lb.), yellow springs for at least 45 kg (100 lb.), blue springs for at least 65 kg (145 lb.), and red springs for at least 80 kg (175 lb.).

Seat position and angle:

The seat can be adjusted forwards or backwards by slackening the Allen screw below the seat fitting (see figure 8). When the desired position has been found, retighten the Allen screw.

The angle of the seat can also be adjusted by slackening the four nuts under the seat fitting (see figure 8). An 11 mm ($\frac{7}{16}$ ") spanner will be needed here. After adjustment retighten the nuts.



Figure 5



Figure 6



Figure 7



Figure 8

Rear stop:

The rear stop behind the seat can be adjusted in lengthways direction. First lift up the rear stop and tilt it backwards. This reveals an Allen screw inside the U-profile. When the Allen screw is loosened, the rear stop can be slid forwards or backwards in the external tube (see figure 9). After adjustment, retighten the Allen screw.



Figure 9

Handlebar:

The handlebar is mounted on each side in a tube section located on a cone. The cones are fixed in position with Allen screws, and when these are loosened, the handle bar can be rotated around the cones (see figure 10). The handlebar can also be slid forwards or backwards in the two tube sections by additionally slackening the two Allen screws on the side of the handlebar (see figure 10). Once the right positions have been found, retighten the Allen screws.



Figure 10

Getting in and out

MEYWALK® 2000 has an integral lifting/lowering system, which facilitates getting in and out for the user. We recommend two helpers when getting the user in and out. Press in the locking buttons at the front of the MEYWALK® 2000 and raise the tilt bar. On the MEYWALK® 2000 Medium this will lower the seat unit by about 15 cm (6"), and on the MEYWALK® 2000 Large by about 25 cm (10") (see figure 11). Then lift up and tilt backwards the rear stop and open the trunk support (see figure 12). When the user is in position on the seat, close the trunk support and rear stop and raise the seat unit by pressing the tilt bar down until it locks with an audible click. The integral gearing in the lifting/lowering system means that downwards pressure need only be about one third of the user's weight.



Figure 11



Figure 12

Mounting and adjustment of accessories

Extra long spacer tubes (MEYWALK® 2000 Large only):

If an even higher position for the trunk support and seat is required, a set of extra long spacer tubes is available, giving a further 6 cm (2") of height. These will be mounted in the down tubes if supplied with the walking aid. If acquired later, the existing tubes must be replaced with the new ones. The top part of MEYWALK® 2000 is lifted out of the bottom frame, the two springs are removed and the bottom frame is turned upside down to shake the spacer tubes out (see figure 13). Then the new extra long spacer tubes are slid into the down tubes, the springs are placed on top and the top part is slid into the down tubes of the bottom frame again.

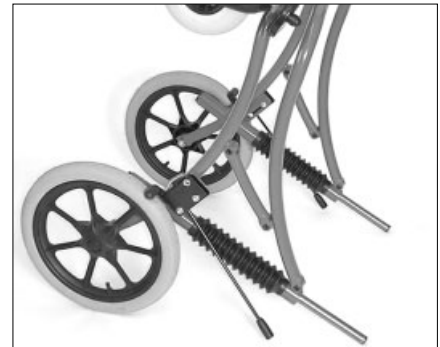


Figure 13

Height reduction fitting:

The trunk support and seat height can also be reduced approximately 8 cm (3") with a set of height reduction fittings. These must be mounted in the hinge mechanism between the down tubes and the tilt bar. Unscrew the Allen screw heads and remove the tilt bar. Then fit the two fittings over the hinge eyes on the down tubes and tighten (see figure 14). Finally slide the two bright internal hinge sleeves supplied into the hinge eyes on the fittings, fit the tilt bar over them and fasten with the Allen screw heads supplied.



Figure 14

Anti-tip supports:

Anti-tip supports are mounted on each side by first removing the centercap on the outside of the rear wheel and unscrewing the nut from the bolt which pass through the wheel hub (see figure 15). Two 19 mm (3/4") spanners will be needed for this. The longer bolt supplied with the anti-tip supports is fitted in the wheel hub instead of the existing bolt. Keep the old bolt safe in case the anti-tip supports later are removed. Then slide the U-fitting on the anti-tip support over the end of the frame where the wheel



Figure 15

was mounted. Push the bolt through while placing a washer between the wheel and the U-fitting (see figure 16). Screw the nut back on. Remember to tighten firmly. Finally put on the centercap again.

The height of the anti-tip supports from the ground is adjusted by slackening the counter nut on the adjusting screw (see figure 16). This will require a 13 mm ($\frac{1}{2}$ ") spanner. If necessary slacken the nut on the wheel bolt. The anti-tip support is tilted up so the head of the adjusting screw rests against the end of the frame and the adjusting screw is screwed forward or back to get the correct height (see figure 17). Then retighten the counter nut and the nut on the wheel bolt.

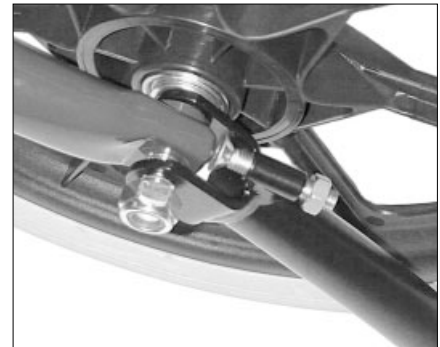


Figure 16



Figure 17

Leg guides:

Leg guides for MEYWALK® 2000 are delivered in a set of a left and a right rail (see figure 18). They are mounted on the inside at each side of the bottom frame (see figure 19).

Before mounting unscrew the Allen screw heads at the lower end of the tubes connecting the tilt bar and the bottom frame (see figure 20). The front end of the



Figure 18



Figure 19



Figure 20

leg guides are fastened to these hinge connections with the supplied Allen screw heads and the longer threaded rods. The rear end of the leg guides are fastened to the bottom frame with the U-shaped plastic covered threaded rod (see figure 21).



Figure 21

Swivel lock on front casters:

The swivel locks are delivered mounted on two new front casters.

For mounting first remove the two front wheels from the casters, use a 6 mm Allen key here (see figure 22). Remove the nut-cap and unscrew the front casters from the bottom frame by unscrewing the lock nut on top of the fender wheel (see figure 23). This will require two 19 mm ($\frac{3}{4}$ ") spanners. Then push the bolt on the new front casters into the bottom frame from below, place the tube fitting and the fender wheel on top of the bolt, and screw the lock nut back on.



Figure 22

Make sure that the front wheels are pointing straight forward and parallel aligned, when the swivel locks are activated (see figure 24). At last install the front wheels in the front casters again and put on the nut-caps.



Figure 23



Figure 24

Hip-pads:

The hip-pads are mounted on the two upper tubes below the seat tube and above the two height adjustment rings (see figure 28).

To mount the hip-pads first lift off the top part of MEYWALK® 2000 from the bottom frame. At each side unscrew and remove the Allen screw and the spanner grip from the height adjustment ring (see figure 25) and then remove the ring from the upper tube. The hip-pad is slid in over the upper tube (see figure 26) and screwed together with the inner tube through the slit. Then mount the height adjustment rings at each side again with the included inner tubes (see figure 27).

The hip-pads are adjusted away from or closer to the seat by loosening the spanner grips on the spanner boxes which hold the square tubes (see figure 28). The height of the hip-pads are adjusted by loosening the Allen screws that hold the fittings on the upper tubes and slide these fittings up or down on the tubes (see figure 29). After adjustment retighten the screws and grips.



Figure 25



Figure 26



Figure 27



Figure 28



Figure 29

Brakes

Use of brakes:

The brakes are parking brakes which function by directly blocking the rear wheels with a fitting which presses against the tyre.

To brake the walking aid, pull the brake levers all the way back until they come to a definite stop (see figure 30). In this position the brakes are self-locking. The brakes are released by pushing the brake levers forward again.



Figure 30



Figure 31

Adjustment of brakes:

First release the brakes by pushing the brake levers forwards. Now slacken the two nuts which fix the brake mechanism to the bottom frame (see figure 31). This will require a 10 mm ($\frac{13}{32}$ ") spanner. The whole brake mechanism can now slide backwards or forwards. Set it with a clearance of 3-5 mm (0,1"-0,2") between the brake fitting and the tyre. Finally retighten the two nuts and test the brake action.

Mounting and use of drag brakes:

The drag brakes are fitted on the outside of the existing brakes. Use a 10 mm ($\frac{13}{32}$ ") spanner to unscrew the nuts from the two bolts which fix the brake mechanism to the frame. The bolts are removed and replaced with the supplied longer bolts. Fit the drag brake over the two bolts with the hand screw facing forwards (see figure 32) and screw up the nuts again. Finally remove the elastic band holding the roller in place.

The drag brakes work by the roller at the back pressing into the tyre. First slacken off the nut on the threaded shank behind the hand screw. Then turn the hand screw until the roller presses into the tyre. Finally tighten off the nut against the drag brake housing. Use trial and error to find the best pressure against the tyre.



Figure 32

Mounting and use of non-reverse brakes:

The non-reverse brakes are mounted inside of the existing brakes. Use a 10 mm spanner to unscrew the nuts from the two bolts which fix the brake mechanism to the frame. The two bolts are removed and replaced with the supplied longer bolts. Then fit the non-reverse brake facing backwards over the two bolts (see figure 33). If the non-reverse brakes shall be used together with anti-tip supports the spacer-fitting (with ring around in figure 1) must be fitted. Next put back on the brake mechanism and screw the nuts back on (see figure 34). The non-reverse brake is adjusted so the curved fitting is pressed against the rear tyre by the spring loaded button (see figure 35). When the correct position is found for the non-reverse brake - and also for the brake mechanism - retighten the nuts firmly.

The non-reverse brakes can be disengaged by pushing the curved fitting forwards until the spring loaded button locks it in a position raised from the tyre (see figure 36).

Maintenance

The walking aid can be washed down with hot water and a normal detergent. However, the padding on the trunk support, handle bar and rear stop should be avoided.

With repeated use of detergent, the painted frame may gradually take on a matt appearance. It can then be polished up with car polish. Follow the instructions on the polish.

Checking for tightness:

Regularly check that all bolts, screws and nuts are fully tightened and if necessary retighten.



Figure 33

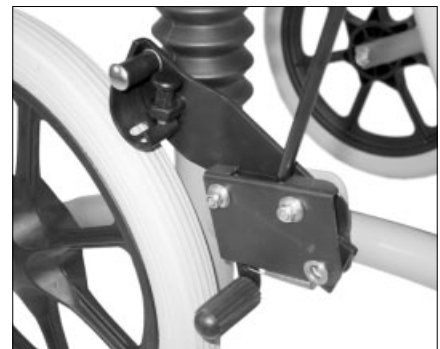


Figure 34



Figure 35



Figure 36

Safety precautions

Warning:

- MEYWALK® 2000 is a therapy product - and should only be used as such!
- The spring system used in MEYWALK® 2000 can involve a certain risk of the walking aid toppling over if used by a very restless user.
- MEYWALK® 2000 rolls very easy, and one should always consider potetial dangers the user can roll over to.

Therefore:

Never leave the user in MEYWALK® 2000 unattended!

Warning:

- Always hold the tilt bar securely when a user is being lifted or lowered. Especially when opening the tilt bar to lower the user, be prepared for an upwards-directed force which gradually increases as the tilt bar rises (see figure 37). Never let go of the tilt bar in the middle of a lifting or lowering operation, even if taken by surprise by the heavy weight effect.

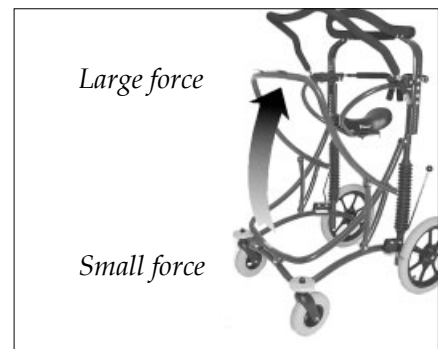


Figure 37

Warning:

- If fittings are removed, open tube ends may be revealed. These may have sharp inner edges and be dangerous for probing fingers. MEYWALK® 2000 is designed to avoid the necessity for open tube ends! If, however, a situation with open tube ends should arise, it is recommended that they are closed off with plastic plugs.

Limitations on use:

- The maximum user weight permitted is 100 kg (220 lb.).
- The walking aid should only be used on flat, level and stable surfaces.

Technical data

Dimensions:	Medium	Large
Length:	95 cm (37,5")	95 cm (37,5")
External width:	70 cm (27,5")	70 cm (27,5")
Internal width:	48 cm (19")	48 cm (19")
Seat height:	58 - 83 cm (23" - 32,5")	72 - 103 cm (28" - 40,5")
Trunk support height:	91 - 115 cm (36" - 45")	105 - 136 cm (41" - 53,5")
Trunk support options (chest measurement):	90 cm, 105 cm, 120 cm (35", 41", 47")	90 cm, 105 cm, 120 cm (35", 41", 47")

Weight:

MEYWALK® 2000 basic model:	25 kg (55 lb.)	26 kg (57 lb.)
Extra long spacer tubes (set):	—	½ kg (1 lb.)
Height-reduction fittings (set):	½ kg (1 lb.)	½ kg (1 lb.)
Anti-tip supports (set):	1 kg (2 lb.)	1 kg (2 lb.)
Leg guides (set):	4 kg (9 lb.)	4 kg (9 lb.)
Swivel locks, mounted on new front casters (set):	1 kg (2 lb.)	1 kg (2 lb.)
Hip-pads (set):	1½ kg (3 lb.)	1½ kg (3 lb.)
Drag brakes (set):	½ kg (1 lb.)	½ kg (1 lb.)
Non-reverse brakes (set):	½ kg (1 lb.)	½ kg (1 lb.)

Materials:

Frame:	Powder-coated steel tubes
Fittings:	Electrolytically galvanized steel
Padding:	Polyurethane foam
Seat cover:	Synthetic leather

Other:

Wheels:	Soft solid rubber tyres on synthetic rims with self-lubricating ball bearings
Colours:	Turquoise, RAL 5021 / Navy Blue, RAL 5022

CE-marking

Meywalk® 2000 is CE-marked. This warrants that Meywalk® 2000 is conforming to all relevant safety requirements in Council Directive 93/42/EEC concerning medical devices.



Meywalk® 2000 is tested by Berlin Cert, Prüf- und Zertifizierstelle für Medizinprodukte GmbH, an der Technischen Universität Berlin.

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