

The logo for 'alber' consists of the word 'alber' in a white, lowercase, sans-serif font, centered within a solid black square.

scalamobil

Bedienungsanleitung

User Manual

Manuel d'instructions

Manual de instrucciones

Bruksanvisning

Manuale di istruzioni

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Introduction

Congratulations! With the acquisition of the **scalamobil** you chose a powerful, dependable and multifunctional stairclimbing device which increases the wheelchair driver's mobility tremendously. The **scalamobil** will soon prove indispensable and open up entirely unexpected possibilities to you.

But, here as elsewhere practise is all. Therefore, your escort operating the **scalamobil** will need a bit of practise to transport the person in the wheelchair easily and safely up- and downstairs.

Please read the instruction manual carefully before using the **scalamobil** for the first time.

In order to familiarize yourself with the **scalamobil**, we suggest that you practise its operation possibly with some weight but not a person in the wheelchair.

Please note that for security reasons you must stay within the indicated maximum load.

Attention! The **scalamobil** is not designed for outdoor use. Please always make sure that the stairs in question are entirely dry. If you would like to use the **scalamobil** outdoors, please do so only in dry weather.



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1. Essential Parts

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2. Operating Elements

2.1 Key-operated switch (4)

Your **scalamobil** may be equipped with an optional key-operated switch, which works like an electrical main switch. If locked, your **scalamobil** is safe from unauthorized use.

2.2 ON/OFF switch (2)

After you turn on the **scalamobil**, its electrical diagnosis-system activates a self-testing device which lasts for two seconds. During this test the rocking switch must be switched off; otherwise the electronic unit automatically switches on the red control lamps indicating malfunction. In such case, please turn off the **scalamobil** and try again. Please wait for the test to be completed, indicated by the green control lights, before operation.

Attention! In order to protect the batteries an automatic device turns off the **scalamobil** if not in use for more than 5 minutes (the green control lights go out).

In this case please turn the **scalamobil** first off and then on again.

Attention! If the **scalamobil** is connected to the charger or the charging cable, it cannot be turned on.

2.3 Rocker switch UP/DOWN (3)

To climb upstairs push the switch upward; to climb downstairs push the switch downward. As soon as you release the switch, it snaps into a neutral position and the **scalamobil** stops.

2.4 Speed control (16c)

With the speed control you can adjust the climbing speed to your liking (between 7 and 18 steps per minute).

2.5 Single step switch (16b)

If the single step switch is on --- and the rocker switch is pushed steadily, the **scalamobil** slowly aligns its wheels and stops.

In order for the **scalamobil** to perform the entire climbing cycle (one step) the rocker switch must be pushed continuously. After each step you may release the rocker switch.

The single step mode lends itself particularly for spiral staircases (see 3.5). If the single stage switch

is on — and the rocker switch is pushed steadily, the **scalamobil** climbs continuously.

2.6 Control lights (11)


If the green light is on, the batteries are full and the electrical system is in working order.

If the yellow light is on, the batteries are already considerably discharged. It is still possible to use the **scalamobil**, but the batteries should be recharged as soon as possible.

If the red light is blinking, the batteries are down to their security limit.

Climb to the end of the stairs and immediately recharge the batteries of your **scalamobil**.

If the red light is on, the batteries are either completely empty and have to be recharged, or the electronic unit of the **scalamobil** is out of order. If the red light does not go out after charging the batteries, please contact your specialty dealer.

 Please recharge the batteries, if possible immediately after each use of the **scalamobil**.

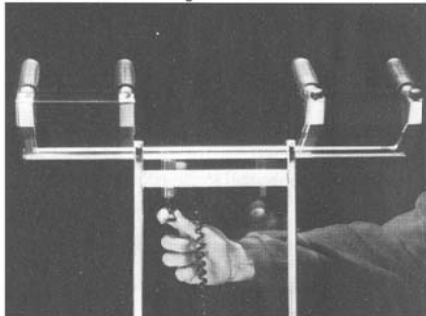
2.7 Handle (1)

The **scalamobil** is easiest to handle if the upper horizontal axle of the handle is approximately at breast-height of the person operating the **scalamobil**. In order to adjust the height of the handle, loosen the adjustment knobs, move the bar to the desired height, and tighten the knobs again.



Attention! Please always fasten both adjustment knobs tightly.

If climbing spiral and/or narrow staircases, it may become necessary to move the upper part of the handle to the left or right.



In such case pull out the indexing bolt somewhat to move the handle to the right or left until the bolt catches.

2.8 Removal of the handle

If necessary, for instance when transporting the **scalamobil** in your car, the handle can be completely removed.

First, unplug the plug at the top of the housing.

Second, loosen the adjustment knobs to lift out the entire handle.



To remount the handle, the loosened adjustment knobs need to be slightly pulled outward in order for the handle to be moved back into its appropriate fixtures.

Attention! Please tighten both adjustment knobs well and plug the helix cable back into the socket at the top of the housing.

3. Operation

3.1 Safety instructions

In the interest of your safety, please note all of the following warnings and take them very seriously

Attention! Only trained personnel may operate the **scalamobil**.

Attention! Only use the **scalamobil** in conjunction with specially adjusted wheelchairs or equipment.

Attention! Never use the **scalamobil** on wet, waxed, slippery floors or loose carpets (tightly attached or glued in wall-to-wall carpet is fine) nor on stairs whose steps are higher than 20 cm.

Attention! Never release the handles of the **scalamobile** while climbing stairs.

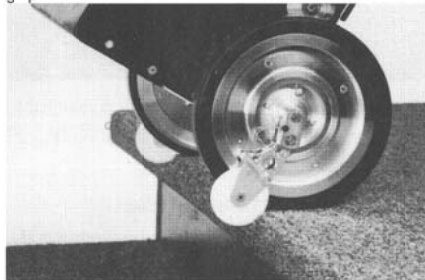
Please understand that disregarding these safety instructions may lead to serious accidents.

3.2 Performance check

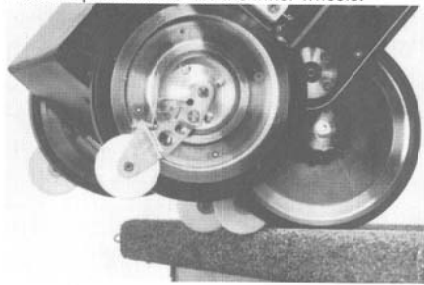
Before every operation of the **scalamobil** all four automatic safety breaks must be checked.

Attention! Never check the breaks with a person in the wheelchair.

To check the breaks, turn on the **scalamobil** as described in 2.2. By pushing of the rocker switch set the **scalamobil** first on the outer wheels. Then advance the **scalamobil** to the edge of the step. At this point the safety breaks on both wheels must grip.



Please repeat this test for the inner wheels.

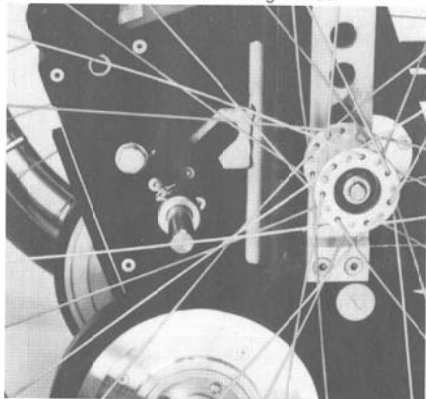


Attention! Never use the *scalamobil*, if not all the breaks are in working order. In case of failure, please contact your dealer immediately.

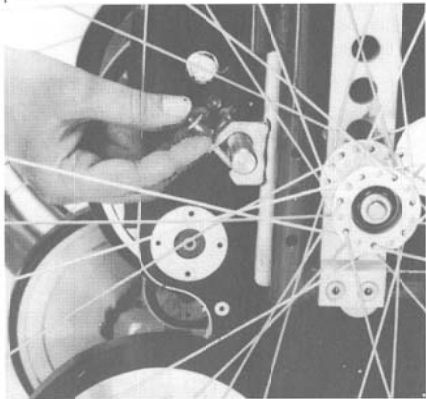
3.3 Mounting to the wheelchair

The wheelchair has to be equipped with a special holding device. (For the Alber models X1 and X6 the holding device is standard).

Align the wheels of the *scalamobil* in a parallel position by pushing the rocker switch and move the lower axle into the lower hooks of the holding device. Push the rocker switch upward until the upper bolts lock into the forks of the holding device.



Secure the bolts with the puposely provided locking pins.



Attention! Never replace the locking pins with nails, screws or the like. Only use the original Alber locking pins.

Align the wheels of the **scalamobil** again in a parallel position and the wheelchair is ready to drive on level ground as usual.



3.4 Upstairs

Attention! Only climb stairs with the **scalamobil** if the back wheels of the wheelchair are removed (with the exception of the Alber models X1 and X6).

To remove the wheels, push the rocker switch upward until the back wheels of the wheelchair lift off the ground. At this point the wheels can easily be removed. Please adjust the handles as described in 2.7.



Put the wheelchair plus **scalamobil** in a parallel position; tilt the entire mechanism backwards and balance it out. You have reached a balanced position when you feel neither pressure downward nor for-

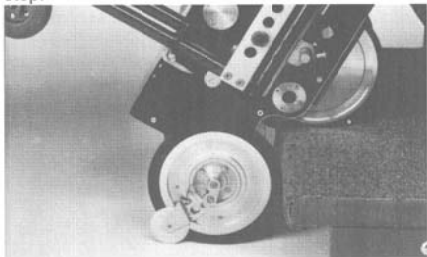
ward. Then drive the **scalamobil** backwards to the stairway, walk up two stairs and pull the **scalamobil** toward the first step.



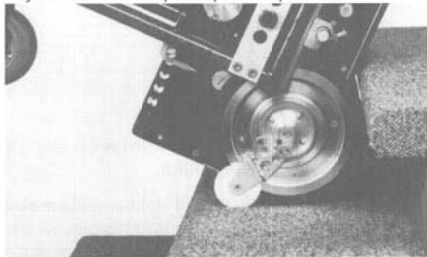
Attention! Always pull the **scalamobil** slightly backward while climbing stairs.

Push the rocker switch upward and the **scalamobil** begins to climb. The climbing process is divided into two intervals per step. The first part is finished when the inner pair of wheels touches down on the next

step.



Then the outer wheels follow and the second part is accomplished when both pairs of wheels are securely on the next step in a parallel position.



- ☞ If the steps have a high depth, the climbing process may have to be interrupted. In such a case release the rocker switch and push the **scalamobil**- wheels in parallel position - backwards to the next step.

When climbing regular stairs, the rocker switch may remain pushed because, due to the continuous movement backward, the wheels are already at the edge of the following step, ready to take the next step up.

- ☞ Keep the **scalamobil** in a precipitous, tilted position as shown in the directions, to ensure that the inner wheels always securely take a hold on the next step.

Attention! When the inner pair of wheels touches down on the next step, the weight shifts from the outer pair of wheels which is still one step lower. At this point you will feel a shift in pressure at the handle (a slight pull forward) which can easily be balanced by pushing the handle downward.

Climb with the **scalamobil** in the described two interval process until you reach the end of the stairs.

At the top of the stairs pull the **scalamobil**- wheels in parallel position - as far back that the wheelchair's front wheels are securely on the floor in order to park the chair in its regular position.



To remount the wheelchair's wheels, lift the chair with the **scalamobil**'s outer pair of wheels and put the chair's wheels back into its fixtures. Always make sure that the full floating axle system locks securely.

Attention! Never release the **scalamobil**'s handles while climbing stairs.

3.5 Downstairs

Attention! Only climb stairs after removing the wheelchair's wheels. (The only exception are the Alber models X1 and X6).

The wheels can be removed by pushing the rocker switch downward "DOWN" until the wheelchair's back wheels lift off the floor. Then take off the wheels and adjust the handles as described in 2.7.



Put the wheelchair plus **scalamobil** in a parallel position; tilt the entire mechanism slightly backwards and balance it out. You have reached a balanced position when you feel no pressure at the handles, neither forward nor downward. Then advance the **scalamobil** to the edge of the stairs until

the automatic breaks grip.



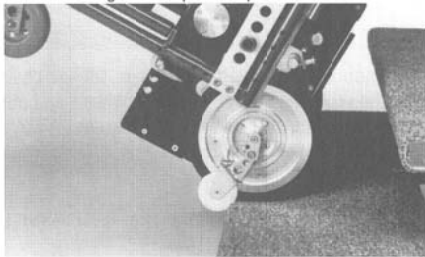
Attention! While climbing downstairs, always push the **scalamobil** slightly forward until the breaks grip at the edge of each step.


Push the rocker switch downward "DOWN" to activate the **scalamobil**'s mechanism. The downward movement works in two intervals per step. The first interval ends when the **scalamobil**'s outer pair of

wheels touched down on the lower step.



The outer wheels follow in the second interval which is finished when both pairs of the **scalamobil**'s wheels are again in a parallel position.



 If the steps have a high depth, the climbing process may have to be interrupted. Release the rocker switch and advance the **scalamobil**- wheels in parallel position - forward to the edge of the next step.

When climbing regular stairs, the rocker switch may remain pushed because, due to the continuous movement forward, the wheels are already at the edge of the following step, ready to take the next step down.

Attention! When the **scalamobil**'s outer pair of wheels touches down on the lower step and the weight shifts to the lower step, you will feel a slight shift in pressure at the handles (pressure downward). Please balance out said pressure change by slightly moving the handles upward.

Have the **scalamobil** climb downstairs in the described two interval process until you reach the end of the stairs. Park the wheelchair in its regular position.

To remount the wheelchair's wheels, lift the chair with the **scalamobil**'s outer pair of wheels and put the chair's wheels back into its fixtures. Always make sure that the full floating axle system securely locks.

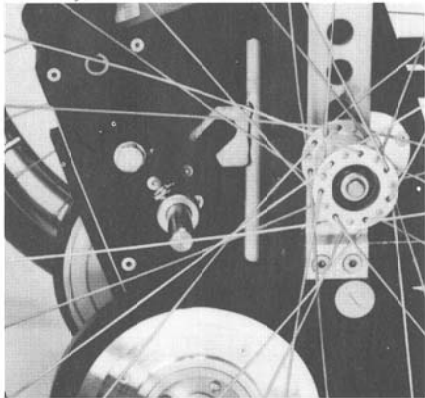
Important for spiral stairways: The **scalamobil**'s outer wheels must traverse a greater distance at the outer side of the spiral stairway than the inner wheels. Since both breaks must take a hold on the edges of each step, the outer side of the **scalamobil** must be advanced more than the inner side.



Attention! Never release the handles of the **scalamobil** while climbing stairs.

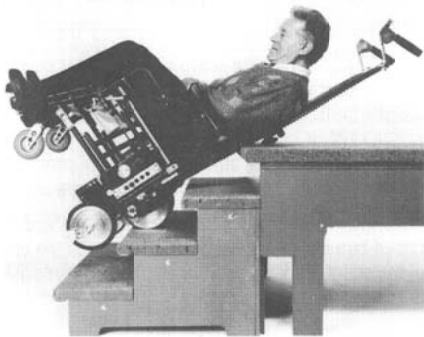
3.6 Removal from the wheelchair

Push the rocker switch upward "Aufwärts" until the **scalamobil**'s outer wheels touch the floor lifting the wheelchair somewhat. Now you can easily put the chair's wheels back into its fixtures. Always make sure that the full floating axles securely lock. Pull out the locking pins and push the rocker switch downward "DOWN" until you can easily remove the **scalamobil** from under the wheelchair by pulling it towards you.




3.7 In case of error

If the **scalamobil** ever stops while climbing stairs, put the entire mechanism backwards on the stairs. The automatic safety breaks make a rolling away over the edge of the step impossible. With the help of a second person one can lift the **scalamobil** plus wheelchair step by step upward.



4. Maintenance

4.1 Charging of the batteries

 Please always make sure to recharge the maintenance free batteries after each usage of the **scalamobil**.

Please always use either the Alber automatic charger or the Alber vehicle-charge-cable (in your car by means of the cigarette lighter). The automatic charger switches itself off when the batteries are fully charged. It is therefore impossible to overcharge the batteries.



4.2 Cleaning

The wheels and the breakdrums of the **scalamobil** must be cleaned regularly with alcohol, at least once a month (if in daily use once a week) in order to ensure an optimal functioning of the breaks.

4.3 Maintenance

All bearings are self-lubricating. In the interest of your safety it is advisable to have your **scalamobil** thoroughly checked once a year by your dealer.

5. Training/Instruction

Only trained personnel may operate the **scalamobil**. To instruct people in its use is part of each **scalamobil**'s delivery. Attendants of the **scalamobil** must be capable of

- climbing stairs backwards
- lifting at least 20% of their body weight

Alber or their authorized dealers reserve the right not to sell the **scalamobil** to people who do not have mentioned minimal requirements. If an additional attendant needs to be trained, please contact your distributor or import dealer, see 3.

6. Technical data

Height: 355 mm

Depth: 290 mm

Width: 360 mm

Weight with batteries: 25 kg

Weight with batteries, without handle: 19,5 kg

Lifting capacity: 120 kg

Batteries: 12 V, 7 Ah (option, 12 Ah)

Voltage on the motor: 12 V

Climbing speed: 7 - 18 steps/min


Capacity per battery charge: more than 300 step which is approximately 20 floors.

We reserve the right for technical and optical changes.



7. Liability

The manufacturer Ulrich Alber GmbH is not responsible for the safety of the **scalamobil** if:

- the **scalamobil** was used improperly.
 - the **scalamobil** was not checked regularly (at least once a year)
 - the **scalamobil** was operated by untrained personnel
 - the attendance and mounting was done by unauthorized personnel
 - the **scalamobil** was not operated in accordance with the operator's manual
 - the **scalamobil** was operated with an insufficient battery charge
 - extraneous parts were added to or used with the **scalamobil**
 - parts of the **scalamobil** were removed.
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8. Dealers/Importers

DK, N, S, SF

Tunbjers AB

Gamla Vägen 73 • S-29034 Fjälkinge
Tel.: 0 44 / 50 530 • Fax: 0 44 / 58 188

GB

Simorg Limited

Room 13, Enterprise House • 7 Gordon Street
GB-Luton, Bedfordshire, LU1 2QP
Tel.: 05 82 - 48 47 85 • Fax: 05 82 - 48 41 57

F

Patélek Elektrotechnik Sàrl

17 Rue Principale • F-67360 Froeschwiller
Tel.: 88 54 04 81 • Fax: 88 540 967

CH

Alber AG

Poststr. 3 • CH-8956 Killwangen
Tel.: 0 56 - 71 52 00 • Fax: 0 56 - 71 52 01

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Medimec

Via XXIV Maggio, 8 • I-48013 Brisighella (RA)
Tel.: 05 46 - 8 11 62 • Fax: 05 46 - 8 02 16

E

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