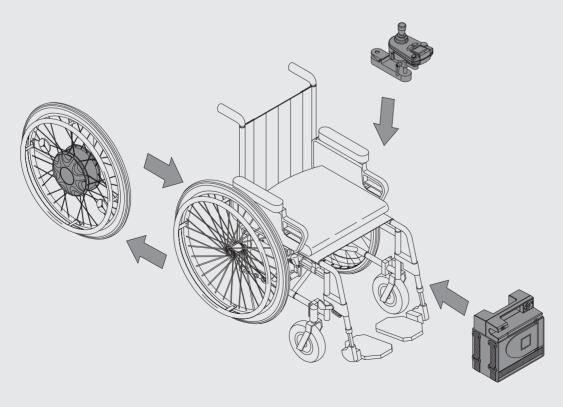
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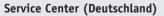
KLEIN. LEICHT. WENDIG.

e-fix Elektrischer Zusatzantrieb

Gebrauchsanweisung	D	
User manual	GB/U	
Instructions d'utilisation	F	
Manual de instrucciones	E	
Istruzioni per l'uso	I	
Brugsvejledning	DK	
Gebruiksaanwijzing	NL	
Bruksanvisning	N	
Instruktionsbok	S	







Montag bis Donnerstag von 8.00 – 18.00 Uhr Freitags von 8.00 – 16.00 Uhr

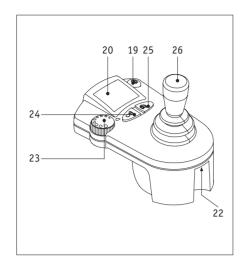
erreichbar unter **Telefon (0800) 9096-250** (gebührenfrei)

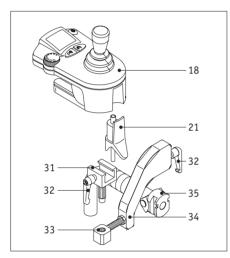


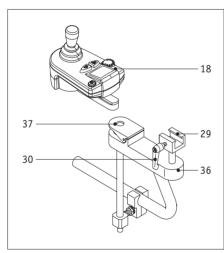


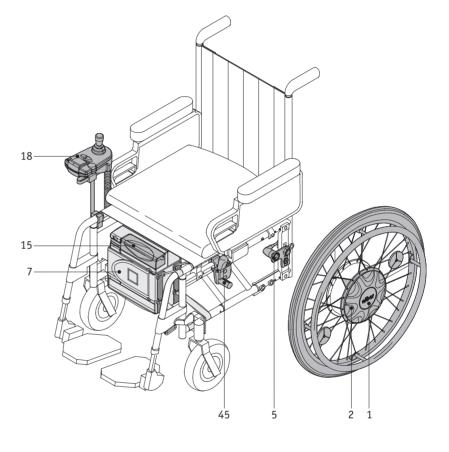
Der e-fix ist klassifiziert als Gerät der Anwendungsklasse B nach EN 12184











• Overview of the most important elements

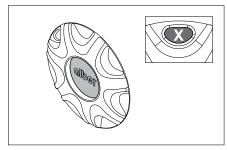
(Please open the overview diagram in the front cover)

Wheel /Distor	
Wheel/Plates Release cover	1
Coupling ring	2
Quick release axle	3
Plug	4
Wheel mount	5
Torque plug	6
Battery pack	
Battery pack	7
Battery bag	8
Velcro fastener	9
Recess on battery pack	10
Charger socket	11
Flap	12
3 A fuse	13
25 A fuse	14
Interface	15
Charger	
Plug	17
Control unit	
Complete control unit	18
Power button	19
Display	20
Plug	21
Socket	22
Adjusting dial switch	23
Horn	24 25
Menu button Joystick	26
D 1 1 / / 1 2 2	
Bracket (driver)	07
Connecting tube Mount	27 28
Sliding piece	26 29
Clamping lever	30
otamping tere.	
Bracket (attendant)	20 "
Clamping lever Mount	32a/b 33
Mounting angle	34
Fixation to wheelchair	35
Swivel arm	
Complete swivel arm	36
Сар	37
Anti-tippers	
Quick pin	40
Holding device	41
Anti-tipper	44
Wheelchair	
Parking brakes	45
Window	46

Window

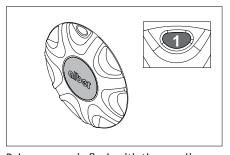
46

Overview of coupling ring



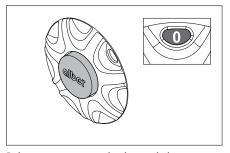
Release cover in the middle of the wheel is pressed in and "X" is displayed in the window:

Wheel can be attached or removed



Release cover is flush with the coupling ring and "1" is displayed in the window:

Wheel is ready for operation "Power driven" mode



Release cover protrudes beyond the coupling ring and "O" is displayed in the window:

Wheel is in "free-wheeling"

GB/US

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1. Introduction

Congratulations

With the acquisition of your e-fix you chose a reliable, multifunctional, state of the art Alber product based on most current technology.

The e-fix increases your independence and mobility tremendously. Used appropriately, it will soon prove indispensable and open up entirely unexpected possibilities to you. Mounted to your wheelchair you virtually got a powered wheelchair without the disadvantages of the latter. For instance your wheelchair remains fully foldable, which is particularly important for its transportation and the often only restricted space available.

Please read the instruction manual carefully to get familiar with the system and its variety of possibilities. Handling the e-fix is much less complicated than it may seem when reading the instructions for the first time. As a matter of fact, you will instantly realize just how easy and effortless it is to use the e-fix when your Alber distributor teaches you step by step the practical handling of it. This instruction session is part of the Alber service and free of charge.

In the event of further questions, please contact your local dealer or any Alber representative.

Have fun with your e-fix,

your Alber Team



Important safety instructions - Please observe them closely!

In the interest of your safety, the e-fix may only be operated by people who:

- have been taught how to use the e-fix
- are physically and mentally capable to use the e-fix in all possible situations of employment

The instruction session is part of the delivery package. It takes place by appointment and is done by your local dealer or one of the Alber distributors, no extra charge involved.

If for some reason you still do not feel comfortable handling the e-fix, please contact your local dealer.

Please also observe the maximum slope your wheelchair can handle determined by the wheelchair manufacturer. Do not exceed it.

The efficiency of the additional drive may be affected by electromagnetic fields, generated for example, by mobile telephones. The add-on drive therefore, should be switched off on safe ground. Also travel close to strong electric interference fields should be avoided.

The add-on drive can also affect other equipment such as theft-proof cabinets in departmental stores.



Do not use the e-fix before you participated in the instruction session.

1.1 Standard scope of delivery

- · Quick-release axles drive wheels, 2 pieces
- · Control unit with bracket
- · Battery pack with bag
- · Charger
- · Interface with cable harness
- · Hand rest for control unit

Optional accessories

- · Drive wheel for wheelchair users weighing max. 160 kg
- · Anti-tippers with jack-up function
- · Swivel arm for control unit
- · Bracket for attendant control
- · Opti-Box for connecting additional functions
- · Remote power button
- · Remote charging socket
- Various joystick options
- · Large battery pack for increased capacity
- · Extended hand rest
- · Protection bow for the hand and the control unit
- Tray table
- · Spoke cover
- · Intuitive attendant control
- \cdot Control for engaging/disengaging the drive wheel

The accessories contained in this list and additional accessories can be found in the order lists and catalogues. For further information, please contact your dealer.

1.2 Technical data - e-fix (version max. 120 kg)

Range with 12 Ah battery pack: approx. 16 km (***)
Range with 22 Ah battery pack (*): approx. 30 km (***)

Max. speed: 6 km/h

Max. climbing capability: 20 % with 120 kg load (observe the

limiting values of the wheelchair

manufacturer)

Batteries: 2 x 12 volts, 12 Ah or 17 Ah

Operating nominal voltage:: 24 volts

Operating temperature: Ambient temperature range

(approx. -25 °C to +50 °C)

Air pressure in the e-fix wheels (only applies to pneumatic tires): 6 bar

Air pressure in the steering wheels

(only applies to pneumatic tires): Observe the specifications of the

manufacturer

Weight of components

Drive wheel: 7.8 kg
Battery pack: 9 kg
Charger: 1 kg
Control unit: 0.5 kg

Electrical system

Operating voltage: 24 V

Batteries: Sealed lead acid batteries 2 x 12 V/12 Ah

optional 2 x 12 V/17 Ah

Alber electronics: 24 V DC max. 25 A
Motor power: 110 W optional 150 W
Max. load capacity: 120 kg, optional 160 kg

Nominal speed (24" wheel): 1000 min -1

Protection class: IP X4

Charger

Type: Ansmann BC24025

Input voltage: 90 - 260 VAC Charging current: max. 2,5 A Protection class: IP X1

Safety class: Safety class II, fully insulated

Driving data

Negotiable obstacle height: 4 cm (***)

Turning radius: Depending on type of wheelchair in use Application class: Application class B as per EN 12184

approved for indoor and outdoor use

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The e-fix complies with the EU regulation for medical products 93/42/EWG.

- * Optional 17 Ah battery pack
- ** Depending on weather, temperature, and terrain. The stipulated driving values can be achieved under optimum driving conditions
- *** Depends on type of wheelchair, weight of wheelchair driver, wheel base, center of gravity, diameter and type of wheelchair castor wheels

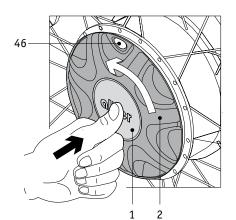
We reserve the right for technical changes or changes in design due to continuous development.

Charger

Please consult the enclosed user's manual of the charger for technical information and instruction.

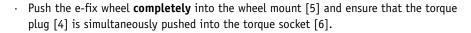
2. Wheels

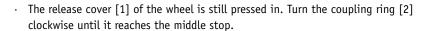
2.1 Mounting wheels

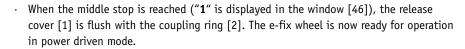


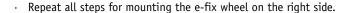
The two electrically powered drive wheels are the heart of the e-fix. They can be exchanged for the manually operated wheels that are a standard feature of your wheelchair. Lift the wheelchair slightly.

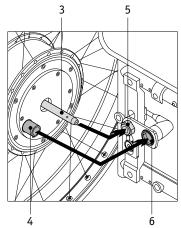
- · Remove the left wheel of your wheelchair according to the manufacturer's user manual.
- Press the release cover [1] of the e-fix wheel and simultaneously turn the coupling ring [2] counter clockwise as far as it will go. "X" is then displayed in the window [46].
- Push the quick-release axle [3] of the e-fix wheel approximately halfway into the wheel mount attached to your wheelchair [5].
- Turn the e-fix wheel until the torque plug [4] and the torque socket [6] are opposite one another.

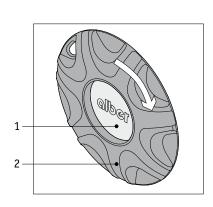


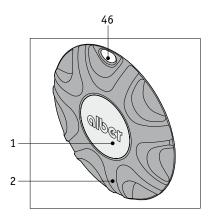












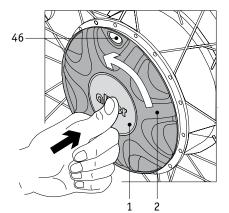


As both e-fix wheels are identical, they can be used not only on the left but also on the right side of your wheelchair.

Before driving, check that both wheels are correctly locked in position (coupling ring is at the middle stop and release cover flush with coupling ring). Faulty connections lead to an immediate standstill of the system and are indicated on the display of the control unit (see Chapter 9.1).

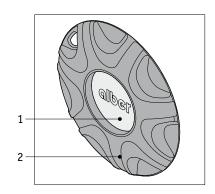
Before mounting the wheels, check that the quick-release axles and the wheel mount on the wheelchair are clean. Dirt on the quick-release axles may cause the plug-in connection to jam.

2.2 Remove wheels



The e-fix wheels can be removed for transportation and the wheelchair can be folded. Proceed as follows:

- · Switch off the e-fix on the control unit.
- Press the release cover [1] of the wheel and simultaneously turn the coupling ring [2] counter clockwise as far as it will go. "X" is then displayed in the window [46].
- If the release cover [1] of the wheel is pressed, lift the wheelchair slightly and remove the wheel by pulling it gently out of the mount.
- · Do not place the e-fix wheel on its quick-release axle.



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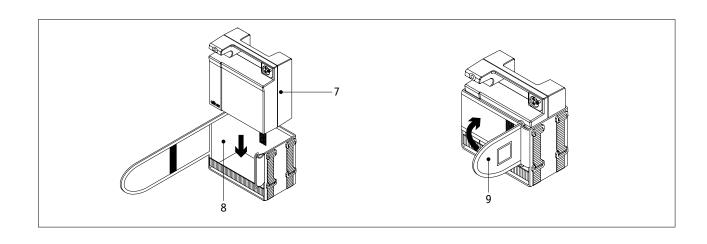
Avoid damaging the quick-release axles of the wheels, in particular during transport.

3. Battery pack

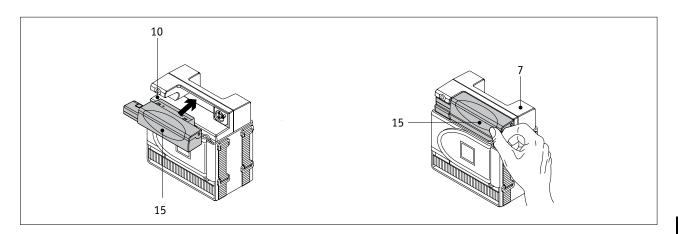
3.1. Inserting the battery pack

It is standard that the specifically designed bag intended for the battery pack to your wheelchair when the e-fix is mounted.

- · Place the battery pack [7] as shown in the drawing in the battery bag [8] (connection socket of the interface points forward).
- · Secure the battery bag [8] with the Velcro fastener [9]. Make sure that the Velcro fastener fits as tightly as possible to the housing of the battery pack.



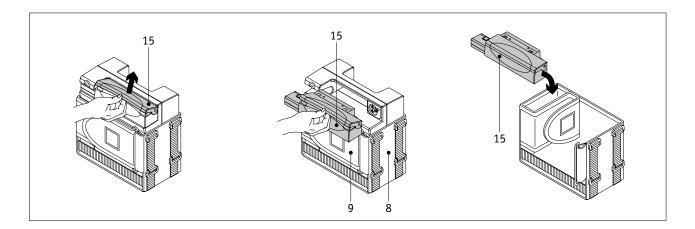
- Connect the interface [15] as shown in the drawing to the battery pack. Make sure that the cables are inside the opening [10].
- Press the interface [15] firmly against the housing of the battery pack [7] until it locks into position!



3.2 Removing the battery pack

The battery pack only needs to be removed when the wheelchair requires folding for transportation. The battery bag can remain on the wheelchair.

- · Pull the interface [15] carefully off the battery pack as illustrated in the drawing
- · Fully open the velcro fastener [9] of the battery bag [8] and remove the battery pack.
- · Store the battery pack [7] in a safe place.
- Fold the velcro fastener of the battery pack as illustrated in the drawing, inserting the interface [15] into it.

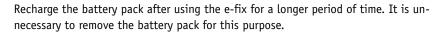




Never use a battery pack other than the one checked and provided by Alber. The use of other battery packs can cause damage to the electronics or result in the malfunctioning of your e-fix.

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3.3 Charge battery pack on wheelchair



- · Insert the charger plug [17] into the charging socket [11].
- · Plug the charger into a socket (90-240 V).

Always remember to recharge the battery pack after using the e-fix for a longer period of time. If the e-fix is not in use, leave the battery pack connected to the charger. The charger automatically switches to maintenance charge when the battery pack is fully charged. This avoids overcharging or damage to the battery pack.

Remove the mains plug of the charger after the battery has been charged and then remove the plug [17] of the charger from the socket [11].



Please note the operating instructions supplied with the battery charger.

3.4 General information on the batteries

The batteries of your e-fix are maintenance-free and rechargeable. Their durability depends considerably on the charging/discharging cycles. You can increase their durability by recharging them regularly. The integrated electronics of the e-fix checks for the charge of the batteries continuously; thus, avoiding a total discharge of them, always provided that they are used correctly.

- · Avoid a total discharge of the battery pack. Recharge the battery pack of the e-fix after each partial discharge, i.e. after each use.
- Lead batteries are subject to a so-called self-discharge. Therefore the battery pack should, when-ever possible, always be connected to the Alber automatic charger.
 The Alber automatic charger switches from charging to maintaining the charge once the battery pack is fully charged. Thus the battery pack cannot be overcharged.
- If you store lead batteries over a longer period of time without regularly recharging them, they suffer a reduction of capacity.
- Incorrect handling of the battery pack may result in the leakage of electrolytic liquid.
 This may cause injuries to the skin or damage clothing.
- · Should skin or eyes come into contact with the electrolytic liquid, rinse immediately with clear water and consult a doctor.
- Do not expose the battery pack to fire or burn. This may cause the battery pack to explode.
- Do not short circuit the battery pack. A short circuit causes extremely high currents which may damage the battery pack or the device.
- · After expiry of the service life, return the battery pack to Alber or the Alber specialist dealers who will dispose of it correctly.



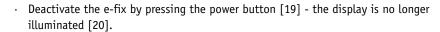
The battery pack of your e-fix can be recharged or discharged in any position. It is considered as safe as dry batteries and certified for airline transportation by DOT and IATA.

4. Control unit

4.1 Prior to initial use

The standard delivery package of the e-fix includes the mounting of its various components. It is, however, advisable to remove several components from the wheelchair, for instance, if you want to transport the wheelchair in a car. You gain more space or make better use of the existing space in your trunk.

4.2 Removal of the control unit for transport



- Remove the plug [21] from the control unit. Pull the plug and not the cable!
- · Remove the control unit [18] and its connecting tube [27] from the mount [28].
- · Place the control unit plug [21] in the battery bag.
- · Store the control unit [18] safely and securely during transport.

Alternatively, the control unit [18] can be removed from the adjustment plate [29], so that it can be operated by an attendant via a bracket on the back of the wheelchair (see chapter 10).

- Remove the pluq [21] from the control unit. Pull the plug and not the cable!
- · Release the clamping lever [30].
- · Push the control unit [18] out of the sliding piece [29].

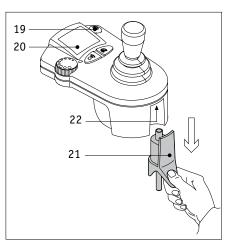
4.3 Installing the control unit

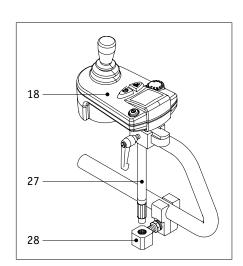
- Remove the plug of the control unit from the battery bag and insert it in the socket [22] on the control unit.
- Insert the connection pipe [27] together with the control unit in the mount [28] on the wheelchair.

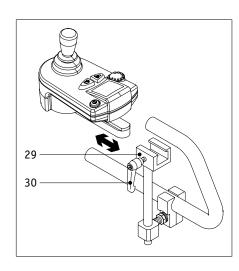
Proceed as follows if the control unit for the control system has been removed from the sliding piece [29] by an attendant person:

- · Slide the control unit [18] into the sliding piece [29].
- · Tighten the clamping lever [30].
- · Insert the plug [21] into the control unit [18].

Your e-fix is now ready for use again.







4.4 Push buttons and displays

4.4.1 Power button

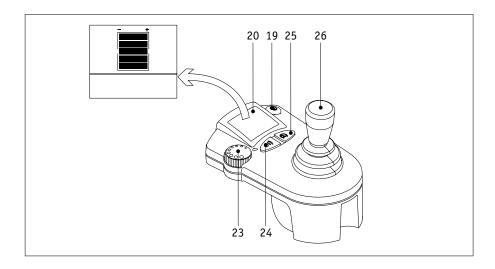
Use the button [19] to switch the e-fix on and/or off.

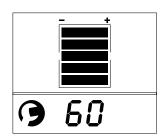
When switching on the e-fix, the electronic system automatically checks the operability of all components. Varying symbols simultaneously appear in the display and will go off when the check was fault-free.

4.4.2 Display

After switching on the e-fix and on completion of the automatic system check, various messages appear in the display [20]:

- The bar line display indicates the charging status of the battery pack. Five bars signify that the "Battery is fully charged (100 %)", four bars indicate that the "Battery is 80 % charged", three bars indicate that the "Battery is 60 % charged" etc. Keep the battery pack well charged to benefit from the full range of the e-fix. Refer to chapter 3.3 for charging the battery pack.
- · The backlight of the display goes off 30 seconds after switching on the e-fix.
- If the control unit is switched on but the e-fix is not being used, it switches off automatically after 1 hour. The shut-off period can be adjusted according to your requirements by a dealer for medical accessories (see Chapter 4.2.6).
- Should a fault occur when switching on or during operation, an error message appears in the display. A list of all possible error messages can be found in Chapter 9.1.





4.4.3 Adjusting dial switch for selecting speed

Select the maximum speed (stepless), that the e-fix is required to reach when the joystick is fully moved, by turning the dial switch [23]. The adjustment range is between 1.5 km/h and 6 km/h. The set value (maximum 99) is indicated as a percentage via a 2-digit display.



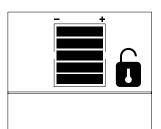
Wheelchair drivers who use the e-fix for the first time, should begin at a low speed (see also Chapter 6.2).

4.4.4 Horn

In order to signalize a dangerous situation, the horn can be activated via the button [24].

· If the button [24] is pressed, a permanent acoustic signal can be heard.

4.4.5 Menu button



To protect the e-fix from misuse by unauthorized persons, an immobilizer can be activated. Press the menu button [25] (approx. 3 sec.) until the display goes off. The e-fix switches off automatically.

If the e-fix is switched on with activated immobilizer, the lock symbol in the control unit display flashes.

Press the menu button again [25] for approx. 3 seconds. The lock symbol then goes off and the e-fix is ready for driving.



The immobilizer is not intended as a protection against theft as the drive wheels can be disengaged and the wheelchair can be pushed away.

4.4.6 Drive parameters

Various drive parameters are stored in the e-fix software. Your dealer can set these parameters to suit your specific requirements.

The standard functions are as follows:

Function	Setting
Max. speed forwards	100 % = 6 km/h
Max. speed backwards	60% of the max. speed = 3.6 km/h
Acceleration time	1.5 sec
Deceleration time	1.5 sec
Rotation speed	28 % of the max. speed
Rotational acceleration/deceleration	0.31 sec
Buzzer	Active
Brake	Time delayed by 30 seconds
Automatic shut-off time	1 hour
Joystick throw	100 %
Exchange axle of joystick	no

Significance:

- Maximum speed forwards the maximum speed that can be reached when the joystick is pushed forward as far as it will go.
- Maximum speed backwards the maximum speed that can be reached when the joystick is pushed backward as far as it will go.
- Acceleration time the time (duration) required for accelerating from a standstill or driving speed to the preset maximum speed.
- Deceleration time the time (duration) of the braking procedure from the maximum speed to the desired power stage or standstill. This time (duration) depends to a great extent on the wheelchair settings.
- · Rotation speed maximum speed for driving in a circle/curve.
- Rotational acceleration/deceleration duration of acceleration or delay when driving in a circle.
- · Buzzer Activation or deactivation of the acoustical signal.
- Brake the time after issuing the last command until the electromagnetic brakes are activated.
- Automatic shut-off time the time (duration) in which the e-fix remains ready to operate without switching off automatically for the purpose of saving energy.
- Joystick throw the maximum necessary movement of the joystick to activate a drive command.
- · Exchange axle of joystick change directions of movement defined at the joystick.

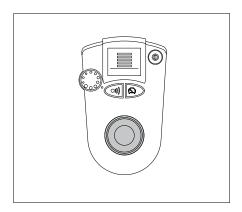


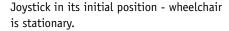
Please contact your dealer for the individual adaptation of your functions. He will be pleased to advise you and program your settings.

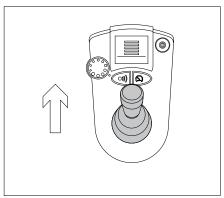
4.5 Joystick

The joystick of the e-fix can be compared to a fictional combination of steering wheel, clutch and gas pedal of a car. Basically all of the wheelchair driver's control commands are directed to the e-fix wheels by the joystick. That's why driving the e-fix takes some practice. Please use the lowest speed when you drive the e-fix the first couple of times.

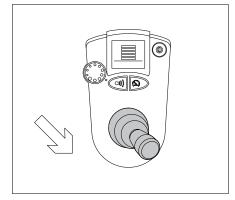
Performance (from the driver's point of view) Here are some examples for positioning the joystick and the movements that are coupled with it.







The wheelchair drives straight forward.



The wheelchair curves to the left driving backwards. (The curve's radius depends on the joystick's movement).



Please refer to chapter 6 and 7 when undertaking your first driving attempts.

The middle position of the joystick remains without function, i.e. the wheels do not move and are blocked by the integrated brakes. However, if the e-fix is at a standstill on slopes of more than 10 % you have to tighten the parking brakes of your wheelchair. These must additionally be mounted to the frame of the wheelchair by an authorized dealer. The joystick works in a way like the gas pedal of a car. Between its original position (everything is at a standstill) and one when it is fully pushed e.g. forward (maximum speed) you can vary the speed.

4.6 Adjustments

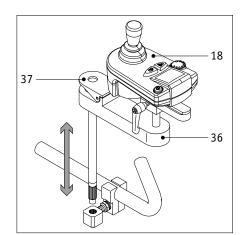
When the e-fix is mounted, the control unit is placed in the position indicated by the wheelchair driver at the time he ordered the e-fix.

Generally this position is on the same height as the armrest and cannot be moved vertically. By contrast, a horizontal adjustment is easily possible, since the control unit's position depends on the length of the driver's arm.



If it turns out that you like a different vertical position of the control unit from the one you ordered, please contact your Alber representative.

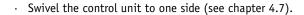
4.7 Swivel arm (available as accessory)



To simplify driving to table edges, we recommend mounting the optional swivel arm. The swivel arm allows the control unit to be swung out from its original position.

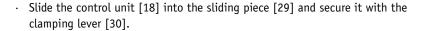
- · Press the cap [37] and swing the control unit [18] out to the side.
- To return, swing the control unit [18] back into the initial position; the cap [37] moves upwards and automatically locks the swivel mechanism.
- If the swivel arm [36] and the control unit require removing for e.g. transporting, they can be completely removed from the mount.
- The control unit can be longitudinally offset a little more if necessary in the sliding piece [29] itself by releasing the clamping lever [30].
- After adjusting to the optimum position, secure by tightening the clamping lever [30] on the sliding piece [29].

4.7.1 Removing the control unit from the swivel arm



- · Withdraw the plug [21] from the control unit [18].
- Release the clamping lever [30] and slide the control unit [18] out of the off sliding piece [29].

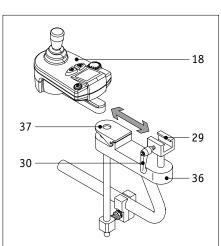
4.7.2 Mounting the control unit on the swivel arm



- · Swivel the control unit to one side (see chapter 4.7).
- · Insert the plug [21] into the control unit [18] (see chapter 4.3).



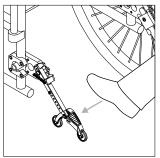
The swivel arm can be attached to virtually all wheelchair models. Contact your dealer or Alber representative for further details.



5. Anti-tippers (available as an accessory)

5.1 How to use Alber anti-tippers

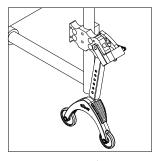
Alber anti-tippers not only prevent the wheelchair from tipping but also assist the attendant when attaching and removing the manually-operated wheels and e-fix wheels. Proceed as follows:



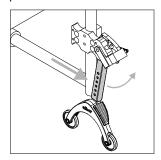
Press your foot against the anti-tippers, as shown in the illustration.



Simultaneously pull the wheelchair upwards and backwards using the handles, until the wheelchair is lifted slightly from the ground and the anti-tipper lock into position.



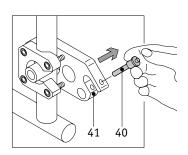
You can now attach or remove a wheel. Repeat the procedure with the second anti-tippers on the other side of the wheelchair.



You can put the anti-tippers back into the starting position if the wheels have been attached. Simply push the wheelchair forward and at the same time hold back the retaining bar with your foot.



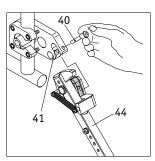
Do not use the ani-tippers as transit wheels. Make sure that the wheelchair stands in a secure position and does not move.

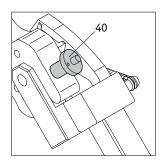


5.2 Attachment and removal of the Alber anti-tippers

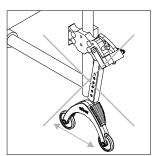
As most standard wheelchairs are already equipped with anti-tippers, Alber anti-tippers are offered as accessories. Should your e-fix also include the Alber anti-tippers, these have already been adjusted to your wheelchair before leaving the factory and only have to be attached as described below.

- First remove the quick pins [40] from the holding device [41] by pressing your thumb on the center of the pin while lifting it out with your middle and index finger.
- Insert the anti-tippers [44] into the holding device [41].
- Secure the anti-tippers in the holding device [41] with the quick pins [40]. Press the locking mechanism in the center of the locking pin and push the pin entirely into the holding device.





- Check whether the quick pins [40] securely rest in the holding device [41]. You are not supposed to be able to remove them without pressing the locking mechanism in their center.
- · To remove the anti-tippers, work your way back step by step.

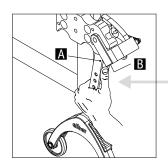




It is not permitted to jack up the wheelchair while the occupant is still in the wheelchair!

The anti-tippers are not transfer rollers!

Do not move the wheelchair when it is jacked up!





Take care when adjusting or folding up the anti-tippers, especially when adjusting or moving them with your hand. There is a risk of being crushed between the retaining bar [A] and the stopper [B] due to the high spring force required.

6. Operation

6.1 Safety of the driver

Safety and comfort of the driver are the first priority. It is, therefore, indispensable to get to know your e-fix and its driving performance thoroughly. Your Alber representative assists you with a free of charge training session when you use the e-fix for the first time. He helps you until you feel secure using your e-fix.



The e-fix must not be used in combination with a wheelchair puller or hand bike. The drives are not designed for the speeds that can be achieved with a hand bike or puller. Even if the e-fix is unhitched, its mechanical system may become damaged due to excess speed. As the drive will keep inducing current even when the e-fix is unhitched, the electronic system may sustain significant damage.

6.2 Driving

The first few attempts to use the e-fix should not take place in a confined space, since the driver is not used to the device and thus likely to collide with furniture and such. Therefore, you should first practice driving the e-fix outside, e.g. on an empty parking site.

- Turn the e-fix on at its lowest speed (see chapter 4.4.3) and get a feeling for its driving performance.
- · Give yourself small driving tasks and practice them at your own leisure.
- · Using the e-fix successfully comes with practice.
- Practice results in competence. You will soon become more confident moving the
 joystick thus driving in a more precise manner.
- Increase the speed slowly. We advise you always to choose a low speed level when driving inside.

6.3 Further Suggestions on driving with the e-fix

- When you start driving, never push the joystick all the way forward. There is the
 potential danger of an accident, especially if the pre-selected speed is set at maximum
 speed. In such case the wheelchair may make movements the driver cannot control
 anymore.
- · Move the joystick gently and smoothly. Do not jerk the joystick.
- Make sure you do not make strong, jerky movements of the joystick, particularly in potentially dangerous situations when you want to avoid an obstacle. Instead, brake the e-fix until you come to a standstill by releasing the joystick.
- If you let go of the joystick, your wheelchair comes to a gentle standstill. In case you
 need to come to an immediate standstill, move the joystick briefly opposite the
 driving direction and then let go.
- Always brake the e-fix with the joystick; never touch the push rims of the wheelchair's wheels.
- · Never drive parallel to steep slopes. The center of gravity may change inadvertently, which may result in the wheelchair tilting sideways.
- · Counter-steer as necessary when you are driving along sloping curbs etc.
- Always drive over small obstacles such as curbs in a 90 degree angle; in other words, both wheels drive over the obstacle at the same time. Go at a low speed over the obstacle.
- Check if the castor wheels of your wheelchair are at a right angle to the ground and check the air pressure at regular intervals as both factors influence the performance and the range of the e-fix.
- Never drive the e-fix without anti-tippers. Remove the latter only when you drive over a bigger obstacle. In such case you need a person accompanying you, since there is an increased danger for the wheelchair to tip over.
- · Driving on public roads is subject to Motor Vehicle Regulations.
- Comply with the relevant national regulations in force when travelling on public roads. Your wheelchair has been provided with the stipulated additional devices.



Please note that the driving quality and the braking reaction is also influenced by the castor wheels. Therefore, please make sure that there is the same air pressure in both tires and that their axles are aligned in a 90 degree angle to the ground.

6.4 Dangerous ground and dangerous situations

Taking into account his driving skills and physical abilities, the e-fix driver decides for himself which routes he will travel. Prior to setting off he must check the e-fix for worn or damaged tires, as well as the state of charge of the battery pack. These safety checks, as well as the requisite personal driving skills, are particularly important near the following dangerous ground, which should only be tackled at the discretion of the e-fix driver:

- Quay walls, landing and berthing points, paths and places close to water, unsecured bridges and dikes.
- · Narrow paths, sloping ground (e.g. ramps and driveways), narrow paths beside inclines, mountain routes.
- · Narrow and / or sloping paths close to main arterial roads or close to chasms
- · Leaf- and snow-covered or icy driving routes.
- · Ramps and lifting equipment on vehicles.

You have to drive along above named danger plots or similar ones with a lot of attention, especially with conformist or reduced speed. Just as you have to avoid jerky driving behaviour or abrupt change of direction of travel.

To raise your security, or when you feel unsecure, you have to consider an escort for help.



Gradients or slopes of max. 20 % can be negotiated with the e-fix without an attendant. The basic prerequisites being, excellent tire profiles, correct air pressure in the tires, safe terrain and a maximum person's weight of 120 kg. With a maximum person's weight of 160 kg (optional reinforced drive wheels) gradients or slopes of maximum 15 % can be negotiated.

Gradients and slopes of more than 15 % or 20 % may only be negotiated with the e-fix when assisted by an attendant. Observe the specifications of the wheelchair manufacturer.

An attendant person is also necessary for crossing

- · kerbs
- obstructions of all kinds on sloping ground as there is a greater risk of tipping over in these cases.

Particular care should always be taken when crossing main arterial roads, cross roads and level crossings. Never cross rail tracks in the road or at level crossings by driving in parallel to them as the wheels could get wedged in. If possible always ask some person to escort you who can push you over the road or level crossing in the event that you get stuck (e.g. due to the battery pack being empty).

Great care should be taken in driving on ramps attached to vehicles. During the lifting or lowering procedure the e-fix must be switched off. The parking brakes on the wheelchair must also be engaged. This prevents the e-fix rolling away, e.g. through unintentionally issued driving commands; and if required, an attendant person should be asked to stand by.

When it is wet the tires have less grip on the road surface; there is a greater risk of slipping. Please adjust your driving style accordingly.

When driving over obstacles in reverse, the full functionality of the anti-tippers is not guaranteed. Therefore, drive slowly and carefully in reverse until the drive wheels of your e-fix touch the obstacle. Then, carefully drive over the obstacle. We recommend the assistance of an accompanying person.

6.5 Hazard warnings

Practise how to negotiate gradients, slopes, side slopes and obstacles with the e-fix add-on drive with the aid of an attendant. Obstacles 4 cm high can be negotiated. Both these values, however greatly depend on the following factors: Type of wheelchair, weight of wheelchair occupant, wheel base, centre of gravity, diameter and type of steering wheels. Depending on the configuration, it may be possible that the maximum values of performance are not reached or exceeded.

When transporting the wheelchair in vehicles, ensure that the e-fix add-on drive combined with a manual wheelchair is not used as a seat or transport vehicle for handicapped persons. When driving, ensure that passengers are seated in the seats installed in the vehicle and secured with the corresponding seat belts. Non-observance of these warnings may result in injuries to both the user and other passengers in case of an accident.

Travelling over a slope or an incline is dangerous if the self-acting brakes are not ready for operation.

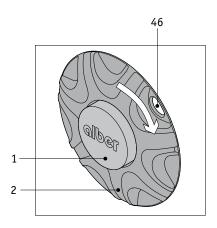
7. Driving

7.1 Driving with manual wheelchair wheels

In chapter 2 you learned how to mount the e-fix wheels to and remove them from your wheelchair. So you have the choice to use the conventional wheels that are manually propelled or the electrically powered e-fix wheels.



The parking brakes attached to your wheelchair [45] are adjusted to the e-fix wheels. When operating your wheelchair with the conventional wheels, the parking brakes [45] may need readjusting!



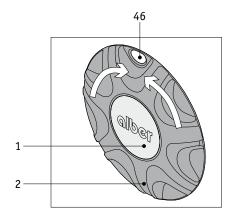
7.2 Driving with e-fix wheels in manual operation

The e-fix wheels can be used manually like conventional wheels or in the power mode (Change the mode only at a standstill).

- Switch off the e-fix on the control unit.
- · Turn the coupling ring [2] clockwise as far as it will go.
- If the release cover [1] protrudes beyond the coupling ring [2] and "0" is displayed in the window [46], you are in "free wheeling". The wheelchair can now be operated manually.
- Should you unintentionally attempt to drive the e-fix in this manual mode via the control unit, a warning signal is emitted (if control unit is switched on). An error message also appears on the display of the control unit (see Chapter 9.1).



Do not forget to apply the parking brakes [45] when the wheelchair is stationary. These brakes that are attached to the wheelchair and adjusted to the e-fix wheels, prevent unintentional movement. Use of the e-fix drive wheels in manual operation in combination with a pulling device, for example in excess of 10 km/h, is not permitted. For this purpose, use your manual wheels.



7.3 Driving with e-fix wheels in electrically powered operation

For the electrically powered mode of the e-fix, the wheels must be engaged accordingly.

- · Turn the coupling ring [2] until it reaches the middle stop.
- "1" is then displayed in the window [46]. The release cover [1] is also flush with the coupling ring [2].
- $\cdot \;\;$ Switch on the e-fix at the control unit.
- · The e-fix cannot be pushed manually in the electrically powered mode.



When driving downhill, current is fed from the drive wheels back into the power pack in order to increase range. If you drive downhill with a fully-charged or almost fully-charged power pack and the power pack cannot accept anymore current, you will be informed of this by a blinking power pack display and an acoustic warning signal (5 short signal tones). If current continues to be fed into the power pack, the electronics automatically reduce the speed by up to approx. 2 km/h. As soon as the current consumption increases, in other words when travelling on a level surface or uphill, the e-fix accelerates until its previous speed is reached.

This behaviour may temporarily occur on level surfaces immediately after conclusion of the charging process."

7.4 Range

For every user of the e-fix, one of the most interesting questions is the range of the system. It can generally be assumed that a range of approx. 16 km can be reached with the standard battery pack (12 Ah), and a range of approx. 30 km with the 17 Ah battery pack. These are ideal values and are based on flat, firm terrain. Deviations are possible due to topographical conditions, ambient temperature, type of terrain, tire pressure of the front wheels, frame geometry, weight of the wheelchair, weight of the driver and type of drive wheels used.

7.5 Storage and transport

7.5.1 Storage

For long-term storage of your e-fix drive, store the e-fix wheels and especially the battery pack in a dry place, preferably at room temperature (15 °C to 25 °C). For storage purposes only, connect the battery pack every 2 months to the supplied charger and charge it completely. This ensures that your e-fix add-on drive will function even after storing for a longer period of time. The batteries used are leakage-proof, maintenance free and dry cell batteries. Store the battery pack preferably upright (in the same position as they are in the wheelchair).

Refer to Chapter 3.4 for further information on the type of batteries used.

7.5.2 Transport

Contrary to electric wheelchairs, you may still fold your wheelchair with the e-fix attached, i.e. you can transport it as easily as any manual wheelchair with no additional space required.

- · Remove the control unit from the wheelchair (see Chapter 4.2).
- · Remove the battery pack from the battery bag (see Chapter 3.2).
- · Remove the wheels (see chapter 2.2).
- · Fold your wheelchair and store it together with all its components.
- After transportation, reassemble your wheelchair by following these instructions in reversed order.

8. Care, maintenance and disposal

8.1 Cleaning

Control unit, wheels and battery may be cleaned with a damp (not wet) cloth rag. Use regular household cleaners in water diluted, never petroleum ether or the like. Do not rinse the wheels with a water hose.



Ensure that liquids are prevented from entering any components of e-fix.

8.2 Maintenance

Your e-fix wheelchair requires a minimum of maintenance. Nevertheless, we recommend checking regularly that all parts and accessories are securely fixed. In order to ensure that your Adventure wheelchair is safe to drive and functioning correctly, it should undergo a technical inspection every 2 years at the latest. In particular, damage that has occurred during use that is not visible to the naked eye as well as wear and fatigue can thus be detected.

For this purpose, contact directly your authorized Alber dealer.



Service and repairs on the e-fix may only be carried out by authorized dealers. In case of defects, please contact your dealer.

8.3 Recycling



This device, its battery pack and accessories are long-lasting products.

However, they may contain materials that prove to be hazardous for the environment if they are disposed of in places (e.g. landfills) that are not intended for this purpose according to the current applicable legislation in the respective country.

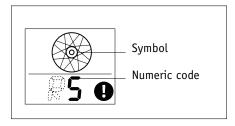
The symbol of the "crossed-out refuse bin" (in accordance with WEEE Directive 2002/96/EC) is placed on this product to remind you of your obligation to recycle.

Therefore, please act in an environmentally-conscious manner and bring this product to your regional recycling centre at the end of its service life.

Please familiarise yourself with the applicable legislation in your country regarding disposal, because the WEEE Directive does not apply in all European States. For example, this product does not fall under the national implementation of WEEE in the Electrical and Electronic Equipment Act as means of transport.

These components are also alternatively taken back by Alber or Alber dealers for proper, environmentally sound disposal.

9. Quick assistance on system failure

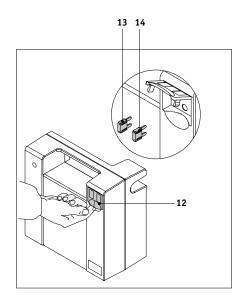


Various error codes are indicated in the display when system errors occur. The next section contains a table with the cause of the fault, the corresponding display and the elimination of the fault.

9.1 Error messages on the display

DISPLAY	DESCRIPTION	CAUSE	REMEDY
None	Battery capacity display flashes; Wheelchair runs more slowly	The motors act as generators when travelling downhill and put power back into the batteries. When the battery is fully charged it might be damaged. Therefore speed is reduced.	This reaction stops as soon as the battery pack is no longer fully charged.
1	Exclamation mark symbol flashes Battery capacity display fllashes	Microcontroller in control unit is defective.	Contact your special dealer or Alber representative.
L4 R4	Exclamation mark symbol flashes Wheel symbol flashes; Letter "L" or "R" flashes	No communication with drive wheel "left". No communication with drive wheel "right".	Contact your special dealer or Alber representative.

DISPLAY	DESCRIPTION	CAUSE	REMEDY
E4	Exclamation mark symbol flashes Letter "E" flashes	No communication with the special control.	Contact your special dealer or Alber representative.
S4	Exclamation mark symbol flashes Letter "S" flashes	No communication with the intuitive attendant control.	Contact your special dealer or Alber representative
None	Lock symbol flashes	Anti-theft lock is active.	Press the menu button for approx. 3 seconds.
7 - 10, 14, 15, 20	Battery capacity display flashes	Microcontroller in control unit is defective.	Contact your special dealer or Alber representative.
11	Exclamation mark symbol flashes	Battery voltage not in permissible range.	Contact your special dealer or Alber representative.
12	Exclamation mark symbol flashes	Incorrect connection of the speed stop/speed limit switch.	Contact your special dealer or Alber representative.
13	Exclamation mark symbol flashes	Cable breakage or short circuit in the battery pack.	Contact your special dealer or Alber representative.
16 – 18	Exclamation mark symbol flashes	Joystick in control unit is defective.	Contact your special dealer or Alber representative.
19	Exclamation mark symbol flashes	Special control.	Contact your special dealer or Alber representative.
21	Exclamation mark symbol flashes	Voltage in the battery pack is less than 19.2 V.	Battery pack shows undervoltage or deep discharge. Charge battery pack. Replace the battery cells or send in the battery pack for repair if charging is not possible.
L1 R1	Exclamation mark symbol flashes Temperature symbol flashes Wheel symbol flashes Letter "L" or "R" flashes	Cutoff due to overload in drive unit "left". Cutoff due to overload in drive unit "right".	Let the wheels cool down and check whether the wheelchair occupant had driven with the brakes on. Otherwise contact your special dealer or Alber representative.
L2 R2	Exclamation mark symbol flashes Wheel symbol flashes Letter "L" or "R" flashes	Battery pack voltage too high at left or right drive wheel.	Check the fuses of the battery pack. Replace the battery cells or send in the battery pack for repair.
L3 R3	Exclamation mark symbol flashes Temperature symbol flashes Wheel symbol flashes Letter "L" or "R" flashes	Cutoff due to overheat.	Let the wheels cool down and check whether the wheelchair occupant had driven with the brakes on. Otherwise contact your special dealer or Alber representative.
L6 R6	Exclamation mark symbol flashes Wheel symbol flashes Letter "L" or "R" flashes	Microcontrol in drive wheel is defective.	Contact your special dealer or Alber representative.
L7 - L17 R7 - R17	Exclamation mark symbol flashes Wheel symbol flashes Letter "L" or "R" flashes	Microcontrol in drive wheel is defective.	Contact your special dealer or Alber representative.
L18 - L20 R18 - R20	Exclamation mark symbol flashes Wheel symbol flashes Letter "L" or "R" flashes	Cabling of the interface is defective.	Contact your special dealer or Alber representative.
L21 R21	Exclamation mark symbol flashes Wheel symbol flashes Letter "L" or "R" flashes	Microcontrol in drive wheel is defective.	Contact your special dealer or Alber representative.
E0 – E7	Exclamation mark symbol flashes Letter "E" flashes	Special control is defective.	Contact your special dealer or Alber representative.
S0 - S3 S5 - S8	Exclamation mark symbol flashes Letter "S" flashes	Intuitive attendant control is defective.	Contact your special dealer or Alber representative.



9.2 Changing fuses in the battery pack

The overloading of individual e-fix components may in rare cases require the replacing of the fuses in the battery pack. Remove the battery pack from the wheelchair for this purpose.

- · Remove the interface from the battery pack for safety reasons (see chapter 3.2).
- · Remove the battery pack from the battery bag (see chapter 3.2).
- · Open the flap [12] on the back of the battery pack.
- · Replace the defective fuse (3 A [13] or 25 A [14]).
- · Close the flap [12].
- · Re-insert the battery pack in the battery bag.
- · Re-insert the interface [15] in the battery pack (see chapter 3.1).
- The fuses are on the back of the battery pack. You do not require any tools. Should one of the fuses be defect, only use the supplied spare fuses.
- 0

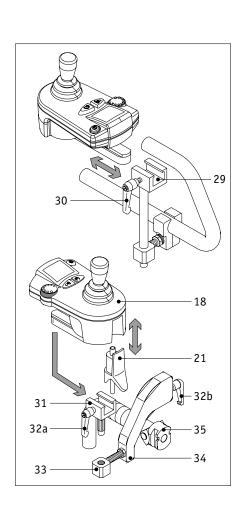
Fuses are extremely sensitive to electrical faults. If you have to change the fuse several times due to a fault in an e-fix component, please contact your dealer. Never use a fuse with a nominal value other than the one stipulated and never jumper the defective fuse. This can destroy the device and may cause the e-fix to ignite.

10. Control unit for attendants (as optional accessory)

e-fix can be operated by both the wheelchair driver or his/her attendant. Simply move the control unit from its regular location at the armrest of the wheelchair to the control panel which is not part of the standard scope of delivery but can be subsequently attached when required.

- If the e-fix is ready for operation, deactivate the system by pressing the power button on the control unit (see Chapter 4.2).
- · Withdraw the plug [21] from the control unit (see also Chapter 4.2).
- · Withdraw the control unit from the sliding piece [29] (see also Chapter 4.2).
- · Slide the control unit [18] into the sliding piece [31] and secure it with the clamping lever [32a].
- · Insert the plug [21] into the control unit.
- · Insert the assembled unit into the mounting [33].
- Finally, slide the mounting angle mounting [34] onto the fixation [35] on the wheelchair.
- Secure the mounting angle [34] with the clamping lever [32b].

Dismantle the control unit in reverse order if it is to be used again directly by the wheelchair driver. You can decide which of the individual components [31 - 34] should remain affixed to the wheelchair for use when the necessity arises.



11. Warranty and liability

11.1 Warranty

The time of warranty for the e-fix amounts to 24 months (12 months for the batteries) from the date of purchase, and covers faulty material and processing defects. The warranty does not include:

- · natural wear and tear
- · damage caused by improper use
- · forced damage
- · unauthorized changes made on the device and/or its accessories.

The operating noise of the drive motors may increase slightly on completion of the running-in period. This is not the result of wear on mechanical components and therefore, is not included in the durability guarantee.

In particular the General Standard Terms and Conditions of Ulrich Alber GmbH apply.

11.2 Liability

Neither Ulrich Alber GmbH nor its agents or authorized dealers and sales representatives will be liable for the safety, reliability or performance of the e-fix or for any claims for personal injury or property damage which may arise from the following:

- · The e-fix was driven without anti-tippers.
- · The e-fix was handled and used inappropriately.
- The e-fix was used other than in accordance with all instructions and precautions included in the operator's manual and on the product labeling.
- · The e-fix was not checked every two years by an authorized dealer or Ulrich Alber GmbH.
- · Assembly, repairs and other work was done by unauthorized personnel.
- · Parts or accessories other than those recommended by Ulrich Alber GmbH were used.
- · Parts of the e-fix were changed or removed entirely.

12. CE conformity

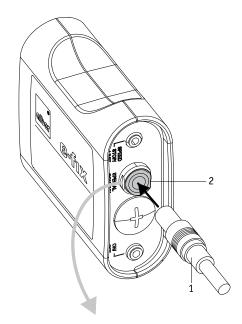
The CE conformity for the e-fix is only valid in combination with the anti-tippers. In addition, the following points have to be taken into consideration:

- Assembly and repairs as well as any other work done on the e-fix must be carried out by Ulrich Alber GmbH or any other personnel authorized by Ulrich Alber GmbH.
- The lower part of the anti-tippers must be attached high enough so that their wheels can rotate freely when the wheelchair is on a horizontal level.
- · The user must pay particular attention to the following:
 - a) The anti-tippers must be unobstructed.
 - b) Please be extra careful when driving over obstacles higher than 40 mm and narrower than the sidewalk's curb.
 - c) The critical height of obstacles must be tested individually for each wheelchair equipped with the e-fix by the occupant.
 - d) The point at which a certain wheelchair equipped with the e-fix tilts backwards at its back axle must also be tested by the occupant. The critical limit is reached at the point where the tilted wheelchair falls backwards.



Important safety note:

Driving the e-fix without attached anti-tippers is not safe, thus not admissible.

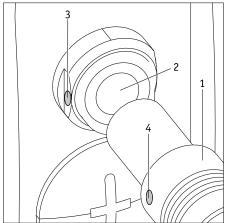


13. User manual Intuitive Attendant Controller

The intuitive attendant controller takes over the entire control of the e-fix and may only be used by the person accompanying the wheelchair user. Under no circumstances should the wheelchair user operate the attendant controller by himself or herself. Installation of the individual components is to be done either by Alber or a specialist dealer.

13.1. Connecting the attendant controller to the Optibox

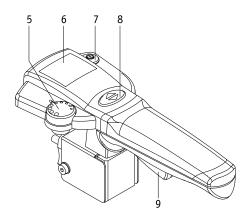
- Switch off the controller of the wheelchair user (see section of the e-fix instructions for use).
- · Align the red marking [4] on the plug [1] of the controller against the red marking [3] on the socket [2] of the Optibox.
- Push the plug [1] of the controller into the socket [2] of the Optibox while maintaining this alignment.
- · The attendant controller is now connected with the e-fix.



13.2. Initial start-up of the attendant controller

- Switch the controller of the wheelchair user on again and wait until the system check has been completed (see section 4.4.1 of the e-fix instructions for use).
- Press the button [7] at the attendant controller. This switches on the system and the following operating displays appear:
 - In the display of the controller of the wheelchair user: Battery symbol (display of the capacity of the rechargeable battery), underneath it are the letters "SH (= pushing aid).
 - In the display [6] of the controller of the attendant controller: Battery symbol (display of the capacity of the rechargeable battery), to the left and right of it is the currently set direction of travel (arrow symbol).

You can find information on the state of charge of the battery pack in section 4.4.2 of the e-fix instructions for use.



13.3. Travelling operation

- Determine the desired direction of travel by pressing the button [8]. The direction of travel changes with each press and is shown in the display.
- \cdot Use the adjusting wheel [5] to set the maximum speed that you desire.
- Pull the control lever towards yourself [9] travelling begins.

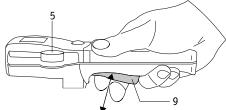
Showing the direction of travel in the display

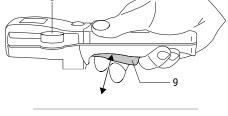






Direction of travel backwards







13.4. Information on travelling operation

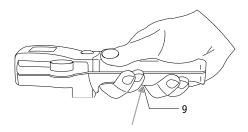
The control lever [9] is comparable to the gas pedal of a car.

The e-fix is motionless in the initial position. Travelling operation starts by pulling the control lever [9] towards yourself, with the speed increasing as you pull the control lever harder. The maximum speed that can be reached is set by the adjusting wheel [5] and is a maximum of 5.5 km/h for reasons of safety.

If this speed is still too high for you, your specialist dealer can reprogram in the controller of the e-fix the maximum speed that can be reached.

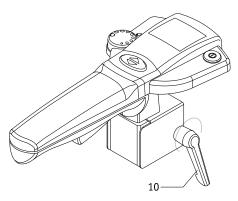
The electronics in the handle [11] register the movements made by the hand of the attendant holding the control lever. Light pressure of the control lever to the left or right is changed into a travelling command for the e-fix wheels so that you can travel around corners without any great exertion.

It is not allowed to lift or jack up the wheelchair over the intuitive attendant control or the additional hand lever. The restriction of the wheelchair manufacturer to lift or jack up the wheelchair has to be followed.



13.5. Information on the panic stop

If it is necessary to stop the e-fix at once in hazardous situations, just pull the control lever [9] firmly beyond the detent that can be clearly felt. This immediately switches off the e-fix and an acoustic warning signal is given in addition. After you release the control lever [9] you can immediately continue travelling with the e-fix.



13.6. Removing the attendant controller from the wheelchair

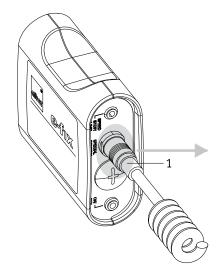
- Switch off the e-fix and dismantle the individual parts according to the details given in the e-fix instructions for use.
- Pull the plug [1] of the controller out of the Optibox while holding its metal holder
- Undo the fixing lever [10] (turn it several times!) and pull the controller out of the holder on the wheelchair.

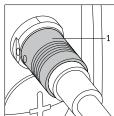


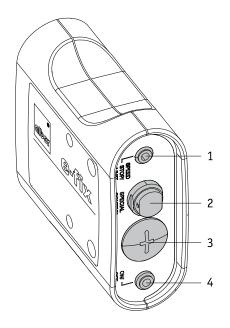
Warning

Slight pressure applied to the right or left of the handle of the intuitive attendant control results in the wheelchair moving to the right or left respectively. Equally, it is sufficient to lightly touch the control lever to set the wheelchair into motion.

Therefore always switch off the intuitive attendant control, if it is not in use. This ensures that the wheelchair does not begin to move inadvertently. Never hang any objects such as handbags, shopping bags, etc. on the handle or the holder of the intuitive attendant control, whether the wheelchair is in driving mode or not. Such objects might activate the control lever or trigger the sensors so that the wheelchair is inadvertently set into motion.







14. User manual Opti-Box

[1] Connection for Speed-Stop-Limit switch

A Speed-Stop-Limit switch provides the option to regulate the speed in accordance with the switch position. For example, in the case of wheelchairs with a stand-up and lift function the speed of these two positions can be reduced, or travelling blocked. When the Speed-Stop-Limit switch is pressed for the first time, the speed is reduced to 50% of the maximum speed. If the switch is closed, the e-fix continues to travel at the maximum speed. Your specialist dealer can make a change in the reduced speed.

[2] Interface for connection to external controllers

This is used for communication between the e-fix and external controllers and serves at the same time as the connection to the optional intuitive attendant controller.

[3] 24V power supply

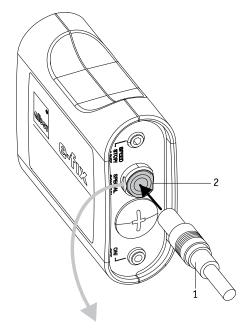
Connection option for a power supply for an external consumer.

Warning:

- · Do not fully discharge the rechargeable batteries through external consumers!
- · The power supply can not be used to operate live conserving machines!

[4] Connection for an external on/off switch

Option to switch the e-fix on and off by means of an external button.



15. User manual Remote Charging Cable

The external charging socket [3] is an extension of the charging socket [1] in the rechargeable battery of the e-fix. In a number of cases (for example, restricted mobility of the e-fix users, special attachments to the wheelchair, etc.) it can be very helpful to relocate the charging socket in such a way that it allows better access.

Depending on the length of cable available, the external charging socket [3] can be installed on your wheelchair by a specialist dealer at the position that you desire.



Important safety information

The rechargeable battery is to be recharged either at the charging socket [1] of the battery pack or at the external charging socket [3].

Never recharge the battery pack by using a second charger at the same time at both charging sockets!





Ulrich Alber GmbH Vor dem Weißen Stein 21 72461 Albstadt Telefon +49 (0)7432 2006-0 Telefax +49 (0)7432 2006-299 info@alber.de www.alber.de **(**

www.alber.de

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