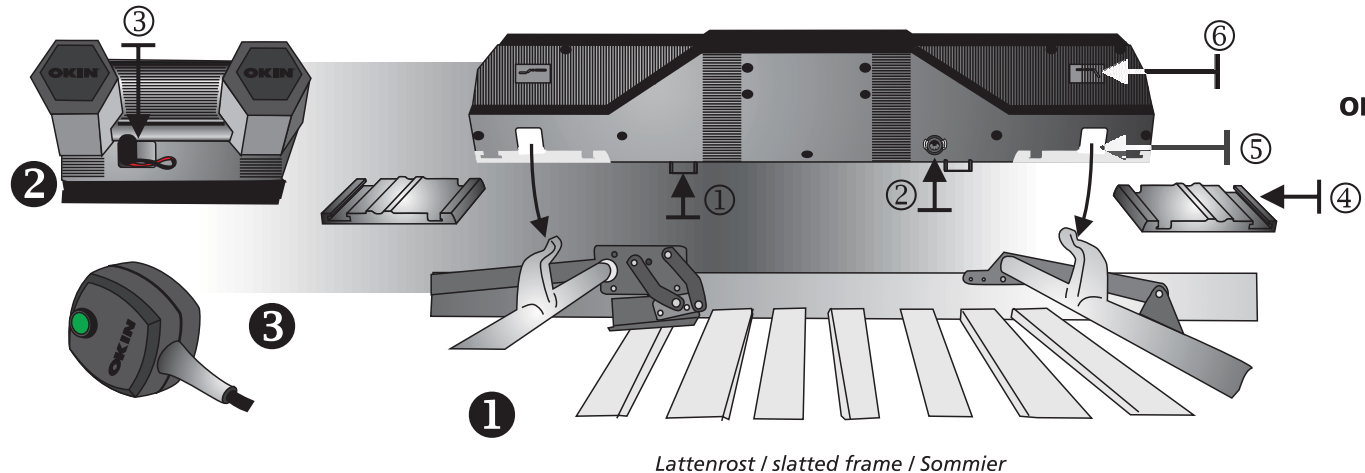




**OKIMAT 3H4/3H6/
2SL
IPS/EPS**

Version 04: 2010/10/04

Kurzanleitung Einbau

Der OKIMAT ist für den Einbau in elektromotorisch verstellbare Lattenroste vorgesehen, er wird einbaufertig geliefert.

Falls die Motoren sich nicht in Einbaulage befinden sollten, schließen Sie bitte den Netzstecker an (bei Ausführung Netzfreischaltung dann die grüne Taste im Stecker für 1 Sek. drücken). Betätigen Sie die Abwärtstasten an ihrem Handschalter. Die Motoren fahren in Einbaulage. Ziehen Sie jetzt aus Sicherheitsgründen den Netzstecker.

Legen Sie zur einfacheren Montage den Lattenrost auf den Rücken, damit der Beschlag nach oben zeigt. Entfernen Sie die Seitenschieber ④, drücken Sie den OKIMATEN fest auf die Hebel am Beschlag bis der OKIMAT in die vorgesehenen Aufnahmen ⑤ einrastet. **Das aufgeprägte Rückensymbol ⑥ muss in Richtung Kopfende des Lattenrostes zeigen!** Setzen Sie die Seitenschieber ④ wieder auf.

Stecken Sie das Handschalterkabel ein ① und führen Sie das Kabel durch die Zugentlastung ②. Legen Sie den Lattenrost in das Bettgestell und stecken Sie den Netzstecker in die Steckdose.

Bei Ausführung mit Netzfreischaltung und Notabsenkung (siehe Sonderausstattung) befindet sich im Netzstecker eine grüne Taste, die nach dem Einstecken 1 Sek. lang gedrückt werden muß, damit der interne Energiespeicher aufladen kann. Danach bitte Batterie ankleben ③.



Achtung: max. 5 Schaltzyklen pro min.. Bei Ausführungen mit Infrarot oder Funk lesen Sie bitte die spezielle Montageanleitung. Zur vollständigen Inbetriebnahme lesen sie bitte die Montageanleitung.

Sonderausstattung Netzfreischaltung

Die Netzfreischaltung schützt vor elektromagnetischen und elektrischen Wechselfeldern. Im Netzstecker trennt ein 2-poliges Relais nach jeder Handschalterbetätigung die Netzfreischaltung vom Hausnetz (hörbares Relaisklicken). Der Antrieb ist dann völlig Netzspannungsfrei und das gesamte System verbraucht im Ruhezustand keinen Netzstrom. Die Netzfreischaltung arbeitet mit allen übergeordneten Netzfreischaltungen zusammen.

D

Short mounting instructions

The OKIMAT is intended to be mounted in electromotoric adjustable slatted frames and is supplied ready for installation.

If the motors are not in the correct position for installation, connect the plug (if supplied with mains isolation circuit, push green button for 1 sec.). Then push the downwards buttons on the handset. The motors will move to the right position for installation. Pull the connection plug for safety reasons.

For easier fitting put the slatted frame upside down so that the steel pipes point up. Remove the sliding covers ④. Push the OKIMAT firmly over the lever until the pipes snap in the U-shaped gap ⑤. Make sure that the back symbol ⑥ on the OKIMAT points towards the head section of the slatted frame. Close the sliding covers again ④.

When the installation of the OKIMAT is complete, please check that the handset cable is plugged in ① and pull it through the strain relief ②. Now put the slatted frame into the bed and plug the connection plug into the socket.

Models with mains isolation circuit and auxiliary movement (see special equipment) are fitted with a green button on the plug, which must be pushed for 1 sec. after connection, to load the internal energy storage. Then attach the battery ③.



Attention: max. 5 cycles per minute. For versions with IR or RF please read the special mounting instruction. For complete comissioning please read the mounting instruction.

Special equipment Mains isolation circuit

Mains isolation protects against potential dangers resulting from electrical or magnetic alternating fields since a 2-pool relay in the connection plug cuts immediately off mains connection (audible click in the relay).

Now the actuator is completely isolated from the mains, and the complete system does not use any current at rest. The mains isolation circuit works together perfectly with all preceding mains isolation circuits.

GB

Instructions concises pour le montage

Le moteur OKIMAT est prévu pour le montage dans des sommiers à lattes réglables par moteur électrique. Après la livraison, il est prêt à être installé.

Si les moteurs ne sont pas en position de montage, embrochez la fiche secteur (sur le modèle à déconnexion du réseau, appuyer sur la touche verte dans la fiche pendant 1 seconde; voir la fig.w). Actionnez les touches de descente sur votre unité de télécommande. Les moteurs vont en position d'installation. Pour des raisons de sécurité, débranchez maintenant la fiche secteur.

Afin de faciliter le montage, retournez le sommier à lattes d'une manière que les tuyaux d'acier soient dirigés vers le haut. Enlevez les couvercles à coulisses ④, poussez le moteur OKIMAT rigidement sur le crochet, jusqu'à ce que les tuyaux soient bloqués dans les encoches ⑤. Le symbole ⑥ doit être dirigé vers le chevet du sommier à lattes. Remettez les couvercles à coulisses ④ en place.

Enfichez le câble de l'unité de télécommande ① et insérez le câble dans le dispositif de soulagement de traction ②. Mettez le sommier dans le lit et embrochez la fiche secteur dans la prise.

Sur le modèle avec déconnexion du réseau et fonction de descente auxiliaire (voir Accessoires), la fiche secteur possède une touche verte. Après l'enfichage, celle-ci doit être enfoncée pendant 1 seconde pour charger l'accumulateur d'énergie interne. Ensuite, connecter la pile ③.



Attention: max. 5 cycles de commutation par minute. Pour la mise en service complète, lisez les notices de montage. Pour les modèles à récepteur infrarouge ou radioélectrique, lisez les notices de montage correspondantes.

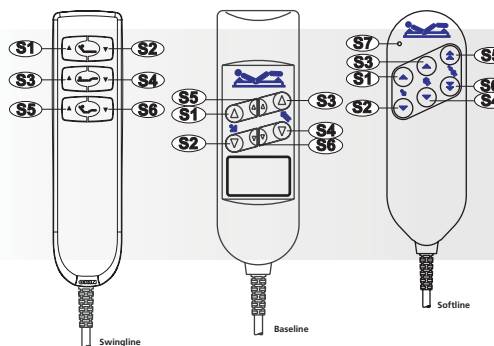
Accessoires

Déconnexion du réseau (en option)

La déconnexion du réseau garantit la protection contre les champs électromagnétiques et électriques alternatifs. Lorsqu'on actionne l'unité de télécommande, un relais à 2 pôles dans la fiche secteur assure la déconnexion du secteur (vous entendez le clic du relais). Le moteur est alors complètement libre de tension. A l'état de repos, le système ne consomme pas d'énergie. La fonction de déconnexion s'intègre parfaitement dans tous les circuits supérieurs pour la déconnexion du réseau.

F

	Handschalterfunktionen/	Handset functions/	Fonctions de la telecommande:
S1	Rückenteil hoch	back part up	montee dos
S2	Rückenteil ab	back part down	descente dos
S3	Fußteil hoch	foot part up	montee pied
S4	Fußteil ab	foot part down	descente pied
S5	Fuß + Rückenteil hoch	foot and back up	montee dos et pied
S6	Fuß + Rückenteil ab	foot and back down	descente dos et pied
S7	- Signallicht leuchtet, wenn eine Taste betätigt wird (optional). (Bei 4-Tasten-Handschalter entfallen die Funktionen S5 - S7) - Light flashes if a key is in action (optional) (For 4 key-remote control functions S5 - S7 are omitted) - Voyant allumé lorsque un bouton est pressé (optional) (Pour télécommande à 4 boutons les fonctions S5 - S7 sont supprimées)		



Die individuelle Tastenbelegung kann von der hier Abgebildeten abweichen. Die Symbolik des Aufdrucks ist ausschlaggebend.

Please note that the individual key functions can differ from the functions depicted here. The symbols printed on the handset are decisive.

Veillez noter que la disposition des touches peut différer de celle-ci, la symbolique reproduite sur l'étiquette faisant foi.

**OKIMAT 3H4/3H6/
2SL
IPS/EPS**

Version 04: 2010/10/04

Resetfunktion (optional)

Damit auch bei Stromausfall in die Liegeposition gefahren werden kann, gibt es als Sonderausstattung eine Resetfunktion die über eine eingebaute 9 Volt Blockbatterie ermöglicht wird. Die Absenkgeschwindigkeit ist reduziert. Bei Stromausfall wird die Batterie automatisch aktiviert, wenn die Tasten für Kopf- und Fußteil "abwärts" gedrückt werden.

Obwohl die Batterie mehrmalige Resets ermöglicht, empfehlen wir aus Sicherheitsgründen nach jedem Reset den Austausch, spätestens aber nach einem Jahr, da dann die Kapazität nachläßt.

Achtung: Die zur Erstausrüstung verwendeten Batterien sind frei von Cadmium und Quecksilber. Trotzdem gehören verbrauchte Batterien nicht in den Hausmüll. Geben Sie diese bitte bei entsprechenden Sammelstellen oder im Handel ab.

Behebung von Störungen (Allgemein für alle OKIMATEN)

Motoren arbeiten nicht, wenn der Handschalter betätigt wird:
Netzanschluß überprüfen, Handschalterstecker überprüfen
OKIMATEN mit Netzfreischaltung und Notabsenkung zusätzlich:
grüne Taste im Netzstecker drücken. Nach erfolgter Notabsenkung arbeiten die Motoren nicht, obwohl Netzspannung da ist; grüne Taste im Netzstecker drücken und Batterie erneuern.

ACHTUNG

Der OKIMAT ist nur für den Einsatz in Lattenrosten bestimmt. Überlastung vermeiden. Nicht länger als 2 Min. dauernd betätigen, da sonst Beschädigungen entstehen können, für die der Hersteller nicht haftet.

-Handschalter stets zugentlasten und korrekt anschließen.

-Netzstecker korrekt und fest in die Steckdose stecken.

-Der OKIMAT darf nur von autorisiertem Fachpersonal geöffnet werden! **Vor dem Öffnen Netzstecker ziehen.**

-Eigenmächtige Instandsetzungen und Veränderungen schließen eine Haftung des Herstellers für daraus entstehende Schäden aus.

Technische Daten

Netzanschluß 100 / 110/ 230 / 240 Volt AC 50 / 60 Hz

Der OKIMAT arbeitet mit einer Gleichspannung von 24 V DC

Einschaltdauer 15% bei einem maximalen Dauerbetrieb von 2 min.

Schutzart: Gefertigt nach VDE Schutzklasse II

Leistungsbedarf, je nach Belastung und Typ 30 - 300 Watt

Sonderausstattung: Netzfreischaltung kompatibel mit übergeordneten

Netzfreischaltungen / Notabsenkung bei Stromausfall

D

Reset function (optional)

As a special equipment an installed 9 V manganese battery allows an reset into horizontal position in the case of apower failure. The battery is automatically activated, if the buttons for "head and foot part down" are pushed. The subside speed is reduced. Although the battery can manage several resets, we suggest to change it after each reset or after 1 year at the latest, because the capacity of the battery will deteriorate.

Attention: The batteries initially supplied with the motors are free from cadmium and mercury. The nevertheless must not be put in the bin. Please return them to special collections or at the retailer's.

Trouble shooting (General for all OKIMAT)

Motors do not work when the handset is used: Check the mains connection, check the plug of the handset

Additionally for OKIMAT with mains isolation circuit and auxiliary movement: Push the green button of the mains connection plug (see drawing @) after using the auxiliary movement the motors do not work despite supply voltage. Press green button of the mains connection plug and renew the battery.

ATTENTION

The OKIMAT must only be used for slatted frames. Avoid overload. Do not use continuously for more than 2 minutes for risk of damage for which the manufacturer cannot be held responsible.

The handset must be free of stress at all times and must be connected correctly. Ensure that the plug is connected correctly.

Only authorized personnel are allowed to open the OKIMAT. **Disconnect from mains before opening.**

The manufacturer does not accept any responsibility for damages resulting from repairs or changes carried out by the customer.

Technical data

Mains connection 100 V / 110 V / 230 V / 240 V AC, 50/ 60 Hz.

The OKIMAT works with a direct voltage of 24 V DC.

Intermittent duty with 50 VA transformer 15% with a maximum continuous operation of 2 min.

Manufactured in accordance with VDE protection class II

Force, depending on load and model: 30 - 300 V Special equipment:

- Mains isolation circuit compatible with general mains isolation systems

- Auxiliary movement in the case of current failure

GB

Fonction reset (en option)

En cas de défaillance de l'alimentation, une pile monobloc 9V incorporée, disponible en option, permet de descendre le lit dans la position horizontale. La vitesse de descente est réduite. Lorsque l'alimentation est coupée, la pile est activée automatiquement aussitôt qu'on appuie sur l'une des touches pour la descente de la partie dorsale ou du chevet. Bien que la pile soit capable de descendre le lit plusieurs fois, nous recommandons de la remplacer après chaque fois qu'elle est utilisée pour la remise en position horizontale, mais au plus tard après un an.

Attention: Les piles livrées avec le moteur sont libres de cadmium et de mercure. Malgré cela, les piles épuisées ne doivent pas être éliminées avec les ordures ménagères. Nous vous prions de bien vouloir les remettre à un point de ramassage ou à votre distributeur.

Dépannage (instructions générales pour tous les moteurs OKIMAT)

Lorsqu'on actionne l'unité de télécommande, le moteur ne fonctionne pas: 1. Contrôler le raccordement à l'alimentation, 2. Vérifier la fiche de l'unité de télécommande. Mesures supplémentaires sur les modèles OKIMAT avec déconnexion du réseau et fonction de descente auxiliaire: Appuyer sur la touche verte dans la fiche secteur (fig.). Bien que la tension d'alimentation arrive au moteur, celui-ci ne fonctionne pas après l'utilisation de la fonction de descente auxiliaire: appuyer sur la touche verte dans la fiche secteur (fig.) et remplacer la pile.

ATTENTION

Le moteur OKIMAT est destiné uniquement à l'installation sur des sommiers à lattes. Eviter la surcharge. Pour éviter des endommagements pour lesquels le fabricant n'assume pas de responsabilité, l'actionnement en continu pendant plus de 2 minutes n'est pas admissible. Attention au raccordement correct de l'unité de télécommande, en tenant compte du soulagement de traction.

Embrocher la fiche secteur correctement dans la prise (bon contact). Le moteur OKIMAT ne doit être démonté que par du personnel autorisé! **Avant le démontage, débrocher la fiche secteur.** -Le fabricant refuse toute responsabilité pour les endommagements après des réparations et des modifications sans autorisation.

Caractéristiques techniques

Alimentation 100 / 110/ 230 / 240 Volts c.a.; 50 / 60 Hz

Le moteur OKIMAT est alimenté en 24 V c.c.

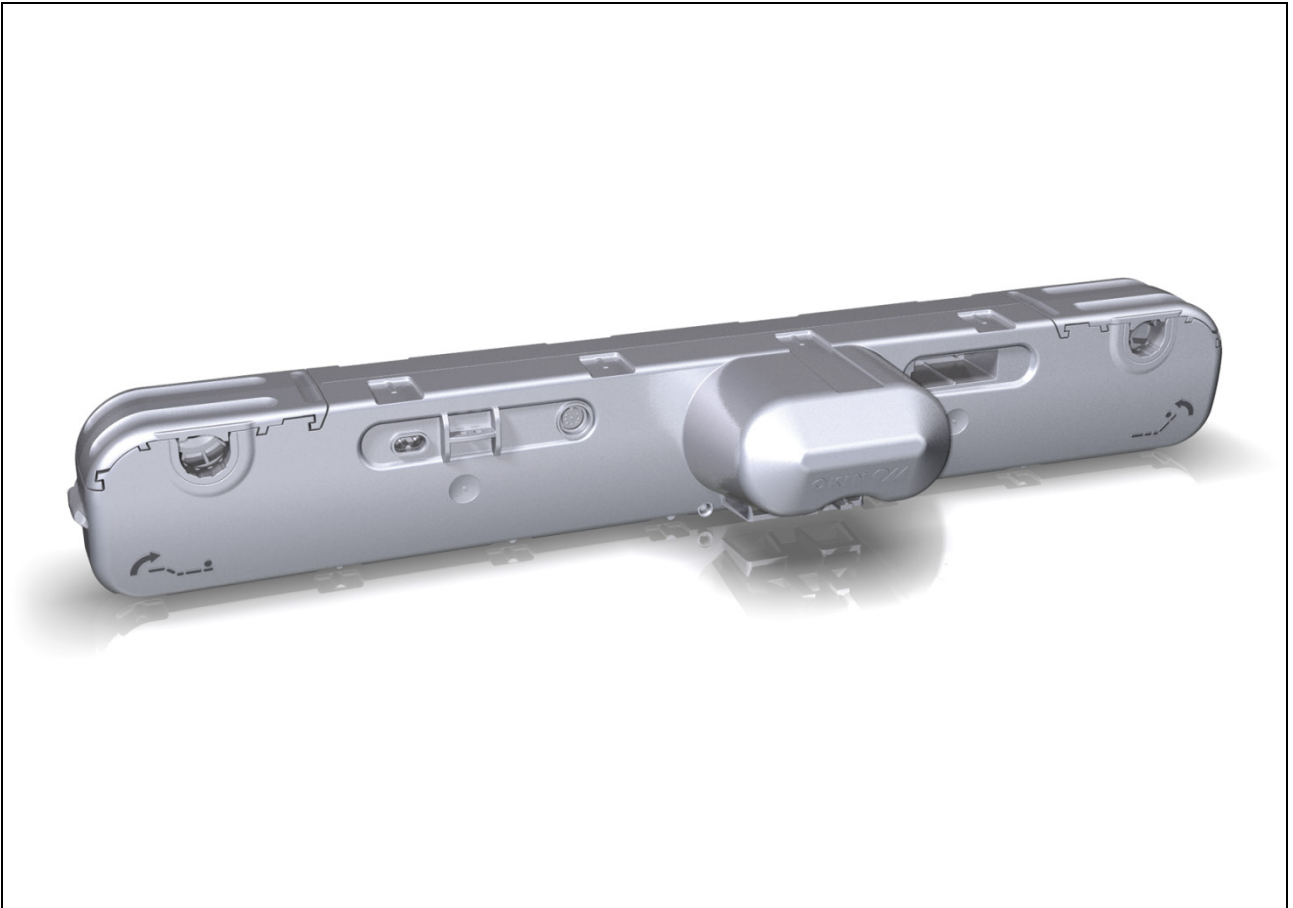
Cycle d'action en fonctionnement continu pendant max. 2 min.: 15%

Mode de protection: Fabriqué selon les standards VDE, classe de protection II

Puissance exigée, selon la charge et le type: 30 à 300 Watts

Accessoires en option: Fonction de déconnexion du réseau, compatible avec les circuits supérieurs pour la déconnexion du réseau / fonction de descente auxiliaire en cas de défaillance secteur

F



OKIMAT 4 IPS
OKIMAT 4 IPS_e
OKIMAT 4 EPS
OKIMAT 4 EPS_e

Installation Instructions

(Translation of the original installation instructions)

Foreword

Version	Datum	Änderung
1.0	03/2015	First Release
2.0	04/2016	Release II
3.0	05/2017	Release III
4.0	06/2018	Release IV
5.0	12/2018	Release V
6.0	02/2020	Release VI
7.0	05/2020	Ratings plate, toggle, declaration of incorporation and of conformity

Disclaimer and exclusion of liability

DewertOkin is not responsible for damage resulting from:

- failure to observe these instructions,
- changes made to this product which have not been approved by DewertOkin, or
- the use of replacement parts which have not been approved or manufactured by DewertOkin.

Creation of a complete operating instruction manual for the entire end product

These instructions are only intended to be used by the end-product manufacturer. They should not be given to the operator of the end product. The factual information contained within may be used as a basis when creating the end-product manual.

The warning and danger notices are best suited for use in the end product's manual. However it is not sufficient to simply follow these notices. You should also carry out an internal risk assessment for your end product. This can then be used as the basis for the safety notices in your manual.

These installation instructions do not contain all information required to safely operate the end product. They only describe the installation and operation of the drive as partially completed machinery.

The instructions are intended for the technicians responsible for manufacturing an end product and not for the operators of the end product.

Notice for customers in EU nations

German Inspection Authority (TÜV SÜD Product Service) testing label

The construction of the OKIMAT 4 has been inspected by the German TÜV SÜD Product Service Inspection Authority. TÜV SÜD Product Service also monitors the production of the OKIMAT 4. The official German TÜV SÜD Product Service certifies this construction inspection and production monitoring.



Figure 1 TÜV SÜD Product Service Safety Mark

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1. General Information

- The name "OKIMAT 4" shall be used to refer to the models OKIMAT 4 IPS, OKIMAT 4 IPSe and OKIMAT 4 EPS and OKIMAT 4 EPSe, unless there is a reference to a specific model.

These installation instructions must be followed closely in order to install this drive successfully and safely in the end product. These instructions are not an operating manual for the end product.

These instructions will help you to minimize danger, repair costs and down times. They will also help you to maximize the reliability and lifespan of the end product.



CAUTION

The notices in these instructions must be followed! Following the guidelines during installation and connection procedures will help to minimize:

- the risk of accident and injury, and
- damage to the drive system or the end product.

These installation instructions have been written with due care and attention. However, we cannot guarantee that the data, images and drawings are complete and correct nor do we accept any liability for the information contained therein, unless required by law.

Availability of this document

As manufacturer of the end product, you are obligated to comply with Machinery Directive 2006/42/EC. This directive stipulates that the installation instructions must be kept on file for governmental inspection purposes.

1.1 Safety notices within the installation instruction and the operating instructions for the entire machine

The manufacturer of the end product is only permitted to operate the OKIMAT 4 drive (by itself an incomplete machine)

- when the end product (for which the OKIMAT 4 drive is intended) is in compliance with all protective measures specified in the Machinery Directive 2006/42/EC, and
- when the manufacturer expressly declares the compliance of the end product.

The manufacturer of the end product must create a manual for the users of that product. The safety notices in the end-product manual must be written based on the end product's risk assessment.

1.2 Conventions used

Notices which do not relate to safety are indicated in these instructions with a triangle:

- Triangular notice symbol

Safety notice explanations

 CAUTION
CAUTION indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.
NOTICE
NOTICE is used to address practices which are not related to personal injury but may result in damage to the product or surroundings.

2. Safety notices

2.1 Proper and intended usage

The OKIMAT 4 drive is meant to be installed in beds.

- They provide motor adjustment capabilities for movable reclining bed parts. They should be used in conjunction with suitable brackets and mechanics.



CAUTION

Risk of accident

This drive should only be used for the applications described above. Any other use is forbidden. Improper usage can lead to accidents or destruction of the unit. Such non-approved applications will lead immediately to the expiration of all guarantee and warranty claims on the part of the end-product manufacturer against the manufacturer.

Improper usage

Be sure to follow the notices below concerning improper usage. You should include them in your product manual in order to inform the users of your end product.

The OKIMAT 4 drive should not be used:

- in any environment where combustible or explosive gases or vapours (e.g., anaesthesiology) may be present,
- in a moist environment,
- outdoors,
- in any application that will be cleaned with an automated washing system,
- with forces which exceed those specified on the ratings plate.

The OKIMAT 4 drive can be used by children of 8 years and older, persons with reduced physical, sensory or mental capabilities, or persons with lack of experience or knowledge when they are supervised or instructed concerning the safe use of the device and when they understand the resulting risks. Do not allow children to play with this device. The cleaning and user maintenance must not be carried out by children without supervision.

- You should only use spare parts which have been manufactured or approved by DewertOkin. Only these parts will guarantee a sufficient level of safety.

Optional: battery-operated reset function**NOTICE**

The battery-operated reset function is not a safety system and does not avert danger.

DewertOkin does not guarantee that the drive will function in the event of a power outage.

If the end-product manufacturer chooses to guarantee the functionality of the end product during a power outage, then the end-product manufacturer is responsible for arranging a mechanism to ensure this functionality.

2.2 Selection and qualification of personnel

The installation of the drive in the end product may only be performed by qualified personnel.

2.3 OKIMAT4 (IPS / IPSe) ratings plate

- The ratings plates shown are examples; the specifications for your drive may differ from this illustration.

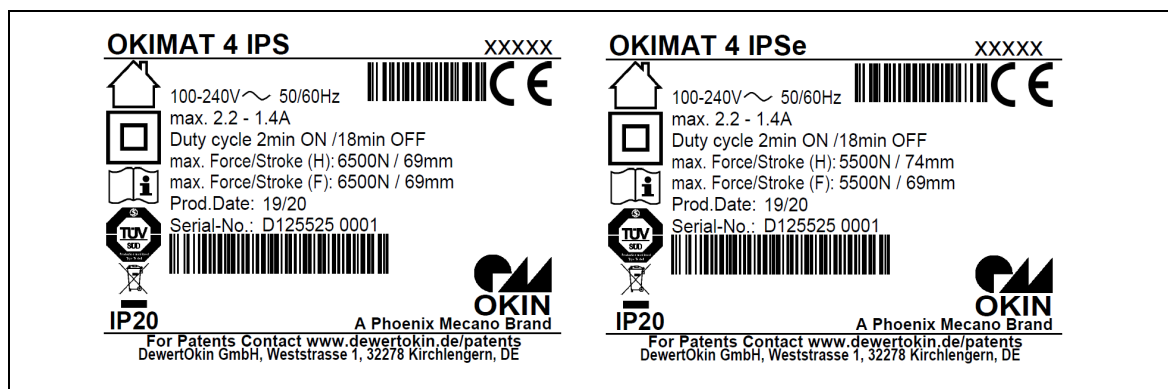


Figure 2 Ratings plates (examples)

OKIMAT 4 IPS OKIMAT 4 IPSe	Model name
xxxxxx	Article number
100-240V ~ 230-240V ~	Input voltage
50/60Hz	Frequency
Max. 2.2 - 1.4A	Current consumption
Duty cycle: 2 min ON / 18 min OFF	Intermittent duty / power-on time
Max. force/stroke (H)	Pushing force and stroke (head end)
Max. force/stroke (F)	Pushing force and stroke (foot end)
Prod.date	Calendar week / year
Serial No.	Serial number for your drive
IP20	Protection degree
	Use in dry rooms only!
	Protection class: II
	Always follow the instructions in the manual!
	Follow all special disposal instructions!
	Conformity mark

2.4 OKIMAT4 (EPS / EPSe) ratings plate

- The ratings plates shown are examples; the specifications for your drive may differ from this illustration.

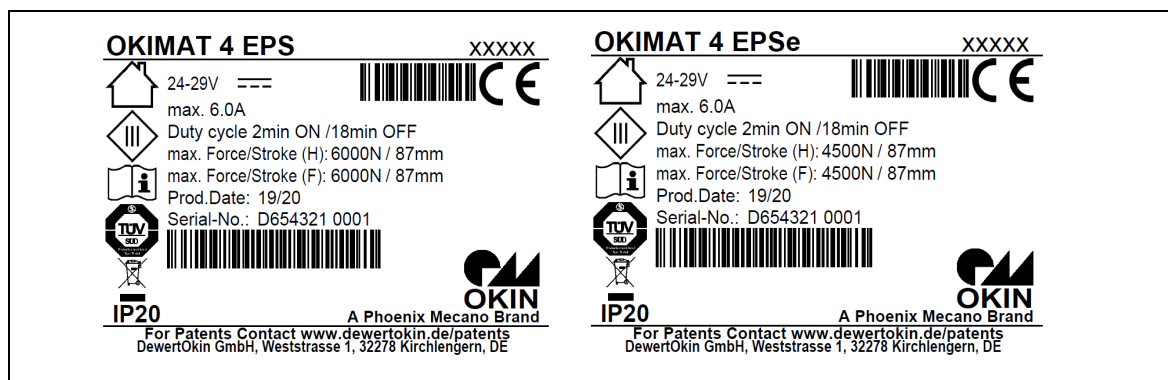


Figure 3 Ratings plates (examples)

OKIMAT 4 EPS OKIMAT 4 EPSe	Model name
XXXXX	Article number
24 – 29V	Input voltage
Max. 6.0A	Current consumption
Duty cycle: 2 min ON / 18 min OFF	Intermittent duty / power-on time
Max. force/stroke (H)	Pushing force and stroke (head end)
Max. force/stroke (F)	Pushing force and stroke (foot end)
Prod.date	Calendar week / year
Serial No.	Serial number for your drive
IP20	Protection degree
	Use in dry rooms only!
	Protection class: III
	Always follow the instructions in the manual!
	Follow all special disposal instructions!
	Conformity mark

3. Possible combinations

The OKIMAT 4 drive can be combined for use with other DewertOkin components. The following basic combinations are possible:

- OKIMAT 4 with cable-bound handset
- OKIMAT 4 with built-in RF wireless receiver and RF hand-held remote control
- OKIMAT 4 with external RF wireless receiver and RF hand-held remote control

Systems can be customized by combining drives and OKIN control units. The system components must be connected in a specific order. The mains plug should only be plugged in after all other components are connected.

DewertOkin has separate system instruction manuals containing all information and instructions needed for these systems.

- Only a DewertOkin device should be used to control the drive since they have already been verified to work together.

4. Description

The drive is powered by electrical motors. The back and leg sections of a bed can be adjusted depending on the drive options. The drive is controlled by means of an OKIN control unit.

The drives differ in their:

- motor power,
- optional reset function,
- different stroke variants,
- optional built-in RF radio receiver,
- country-specific mains power cable and plug.
- optional variant with an external switched-mode power supply (EPS / EPSe),

4.1 Components

The components have a compact design – with two linear adjusting units and a control unit located within an enclosed housing. To facilitate the tool-free assembly process, the two sliders on the side (the shutters) can be removed from the housing.



CAUTION

Risk of accident

Please follow these operating instructions carefully. You could be injured by fire or electrical shock if you do not follow these assembly instructions.

The appropriate pluggable power supply cord is included, depending on the regional version (USA, continental Europe EURO flat plug, the UK, Australia or Japan).

NOTICE

Only use the proper power cable that is permitted in your country. Be sure to use the correct plug adapter, as shown in the following illustration. Follow the specifications on the ratings plate.

- There is a delay after the supply voltage is applied before the device actually turns on. Wait at least two seconds before beginning the commissioning.



CAUTION

Risk of accident

Electrical components should be connected or disconnected only when the power supply cord is unplugged.

4.1.1 Option: Built-in switched-mode power supply (IPS / IPSe) with pluggable power supply cord

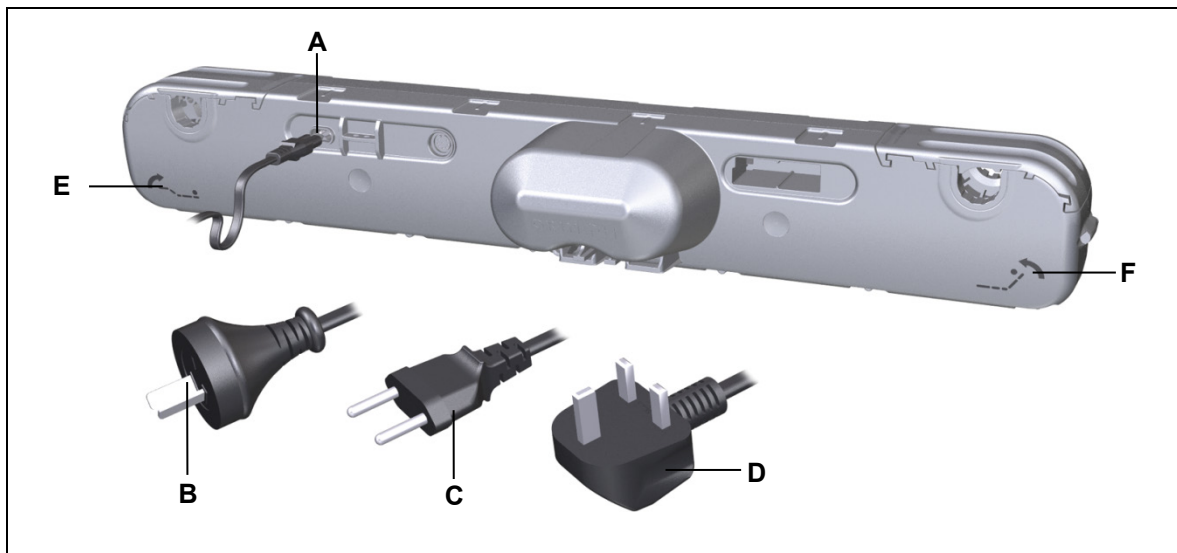


Figure 4 Pluggable power supply cord

A Power socket (C8)

C Power plug (EURO flat)

E Foot side

B Power plug (Australia)

D Power plug (United Kingdom)

F Head side

4.1.2 Option: External switched-mode power supply (EPS / EPSe)

A port on the OKIMAT 4 EPS / EPSe permits the corresponding power supply to be connected (e.g. the Power Supply PD12/PD13).

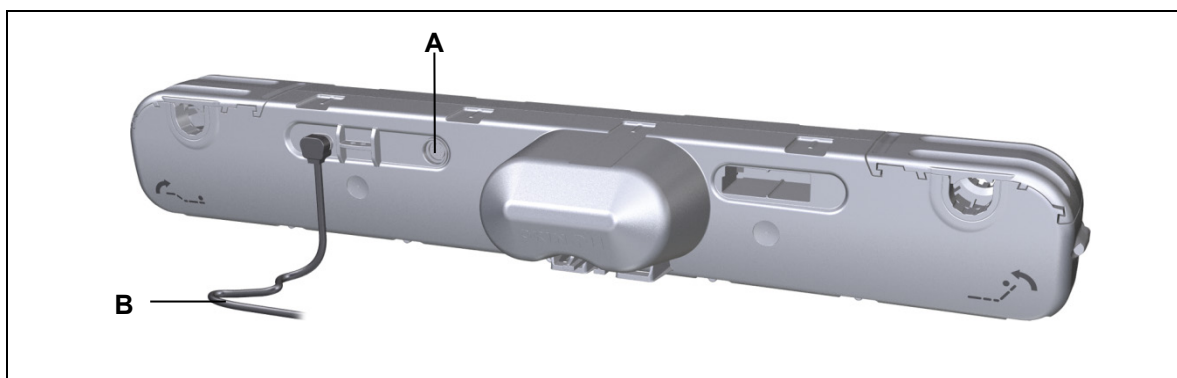


Figure 5 External switched-mode power supply

A Handset socket

B Connecting cable for the power supply (e.g. Power Supply PD12/PD13)

5. Technical specifications

OKIMAT 4 IPS		OKIMAT 4 IPSe
Connection to mains power (AC)		100 - 240 V AC, 50/60 Hz 230 - 240 V AC, 50/60 Hz
Current		Max. 2.2-1.4 A Max. 1.4 A
Standby		≤ 0.5 W
Permitted push force	Max. 6500 N	Max. 5500 N
Adjustment speed	Max. 3.3 mm / second	Max. 4.0 mm / second
Mode of operation ¹ under max. rated load.		Intermittent duty 2 min./18 min.
Protection class		II
Wireless frequency (optional)		2.4 GHz band
Transmitting power (optional)		< 10 mW e.i.r.p
Drive type		Double drive
Protection degree		IP20
Stroke ²		87, 74, 69
Colours		Black
Length x width x height (in mm)	720 x 136 (163) x 105	720 x 136 x 105
Axle gap distance		581 mm (+/- 1mm)
Gap to pivot lever		Min. 480 mm (+ 2mm); refer to Figure 7
Axle receptacle diameter	Ø 25 mm (optional Ø 34 mm)	Ø 25 mm
Weight		Approx. 3.2 kg
Optional: battery-operated reset function		
Voltage		One or two nine-volt batteries (type 6LR61) depending on version
Ambient conditions for operation, storage and transport		
Transport and storage temperature		From -20 °C to +50 °C From -4 °F to +122 °F
Operating temperature		From +10 °C to +40 °C From +50 °F to +104 °F
Relative humidity		From 30% to 75%
Air pressure		From 800 hPa to 1060 hPa
Height		< 2000 m

¹) Mode of operation: intermittent duty 2 min./18 min. This means that after the unit is operated with its rated load for up to two minutes it must then be paused for 18 minutes. The system can malfunction if this pause is not observed!

²) Safety extra low voltage

³) Other stroke distances are available on request.

OKIMAT 4 EPS		OKIMAT 4 EPSe
Input voltage (DC)		24 - 29 V
Current		Max. 6.0 A
Standby		≤ 0.5 W
Permitted push force	Max. 6000 N	Max. 4500 N
Adjustment speed	Max. 3.3 mm / second	Max. 4.0 mm / second
Mode of operation ¹ under max. rated load.		Intermittent duty 2 min./18 min.
Protection class ²		III
Wireless frequency (optional)		2.4 GHz band
Transmitting power (optional)		< 10 mW e.i.r.p
Drive type		Double drive
Protection degree		IP20
Stroke ³		87, 74, 69
Colours		Black
Length x width x height (in mm)	720 x 136 (163) x 105	720 x 136 x 105
Axle gap distance		581 mm (+/- 1mm)
Gap to pivot lever		Min. 480 mm (+ 2mm); refer to Figure 7
Axle receptacle diameter	Ø 25 mm, (optional Ø 34 mm)	Ø 25 mm
Weight		Approx. 3.1 kg
Optional: battery-operated reset function		
Voltage	One or two nine-volt batteries (type 6LR61) depending on version	
Ambient conditions for operation, storage and transport		
Transport and storage tem- peratures	From -20 °C to +50 °C From -4 °F to +122 °F	
Operating temperature	From +10 °C to +40 °C From +50 °F to +104 °F	
Relative humidity		From 30% to 75%
Air pressure		From 800 hPa to 1060 hPa
Height		< 2000 m

¹⁾ Mode of operation: intermittent duty 2 min./18 min. This means that after the unit is operated with its rated load for up to two minutes it must then be paused for 18 minutes. The system can malfunction if this pause is not observed!

²⁾ Safety extra low voltage

³⁾ Other stroke distances are available on request.

Dimensions of housing

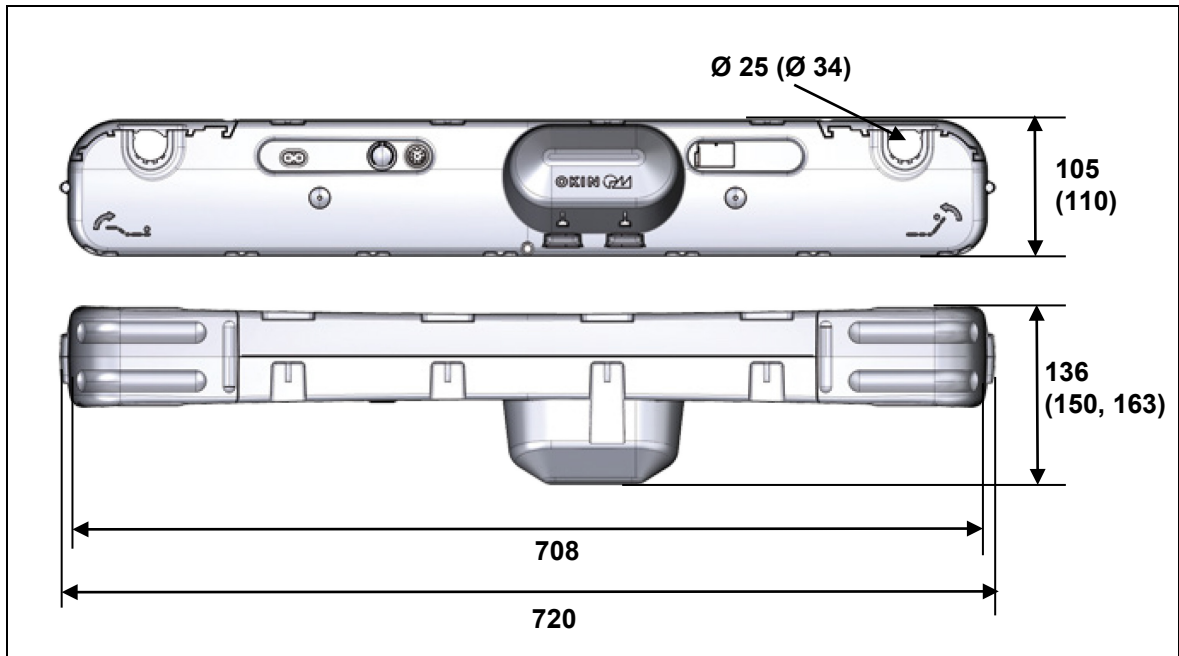


Figure 6 OKIMAT 4 (specified in mm)

Dimensions of the pivot lever

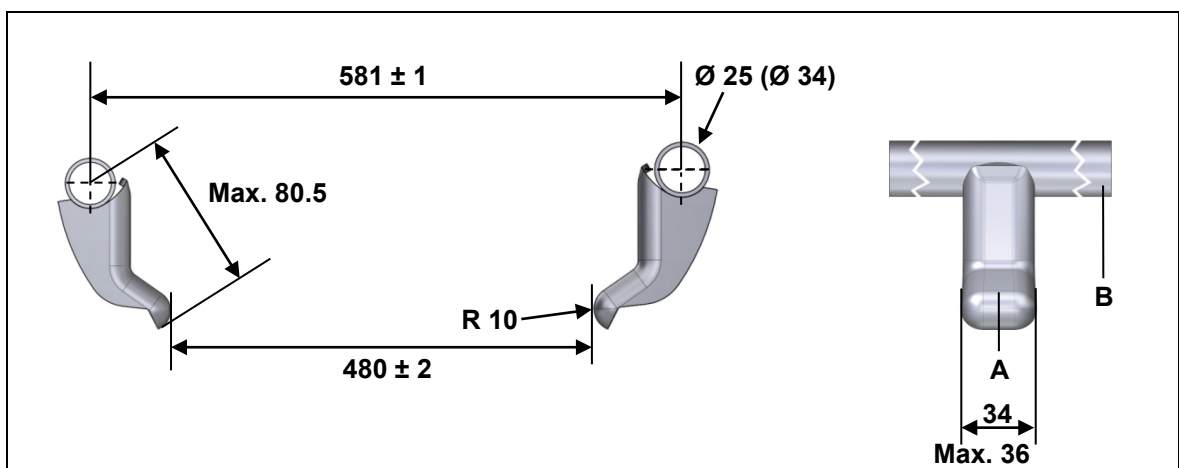


Figure 7 Pivot lever position, in mm

A Pivot lever (OKIN)

B Axle support

- ▶ Make sure that you consider the amount of torque that is generated by the drive when you design the weld between the bracket and the end product.

- Version 4500 N: Max. torque: 325 Nm.
- Version 5500 N: Max. torque: 396 Nm.
- Version 6500 N: Max. torque: 468 Nm.

- ▶ We recommend: the OKIN pivot lever (ID number 2.00.718.108.00)

6. Installation

6.1 Safety notices to observe during installation

Basic safety rules must be followed in order to ensure that the end product can be continually operated in a safe manner. These rules must be observed while using the end product and while installing the drive.

Avoiding fatigue fractures

Drives that are incorrectly installed can undergo fatigue fractures which then create a risk of injury.

- Install the drive in the end product so that it is properly aligned. This will help prevent shear stress.
- Do not position the drive at a slanted angle when installing it in the end product. A slanted angle between the intended direction of movement of the end product and the drive's direction will create shear stress and could lead to a fatigue fracture.

Avoiding a pinching hazard

When designing your product, you should take the drive adjustment movement into account with passive safety mechanisms and with the appropriate safety notices in your operating instructions.

- Installation methods for ensuring passive safety: Install the OKIMAT 4 drive so that none of the positions where shear and pinch hazards exist are accessible externally.

Make sure that your operating instructions inform the user of these safety points.

6.2 Installation procedure

6.2.1 An installation example

Before installing the drive, make sure that you are observing all of the safety notices found in the "Safety notices to observe during installation" section.

- 1 Move your product into a position where it is supporting no load.



CAUTION

Danger of pinching/crushing injuries!

- Be sure to carry out work on the drive in a position so that no loads are bearing on it. Only in this way can you be sure to avoid any risks of crushing or injury.
- Disconnect the nine-volt battery if you are using the battery-operated reset function.

- 2 Pull the shutters firmly to the side (A). The slots (B) for the brackets (D) are now uncovered.

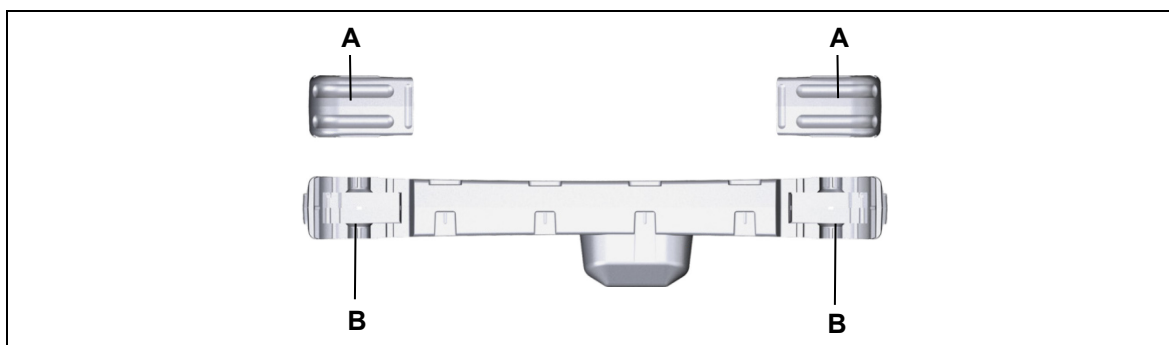


Figure 8 Installing the drive

A Shutters

B Fitting mounts

- 3 Align the OKIMAT 4 next to your product. The slots for the back and leg sides must be properly aligned with the correct brackets on your end product (refer to the symbols on the OKIMAT 4 as described in Figure 4).

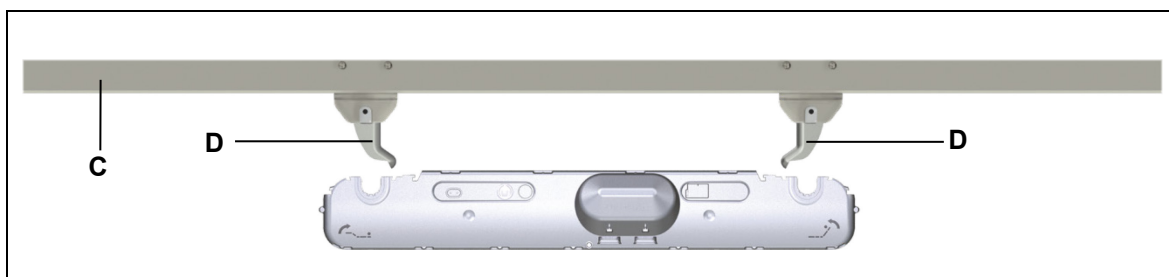


Figure 9 Installing the drive

C End product (bed)

D Brackets with pivot lever

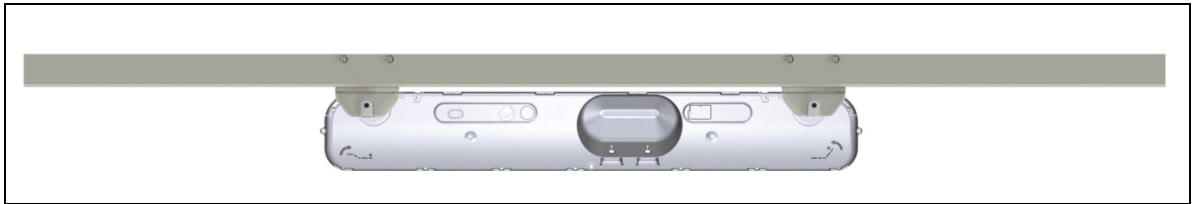


Figure 10 Installing the drive

- 4 Push the drive in so that the brackets (**D**) fit into the slots (**B**). Press in until the tubes snap into the brackets.
- 5 Close the shutters (**A**) on the drive by snapping them back in. The OKIMAT 4 is now securely attached to the end product.
- 6 Disconnect all additional components (handset, etc.) from their sockets.
- 7 Now connect the drive to the power supply.

Please note, after the power supply has been connected:

- There is a delay after the supply voltage is applied before the device actually turns on. Wait at least two seconds before beginning the commissioning.

6.2.2 Mounting the adapter for the receiver and control unit (optional)

There are optional adapters available for the RF ECO BASIC and RF ECO BT / RF ECO BT M receivers, as well as the HE150 control unit. The receiver and the control unit can be placed in the adapter. The adapter is attached to the OKIMAT 4.

Mounting the adapter for the RF ECO BASIC

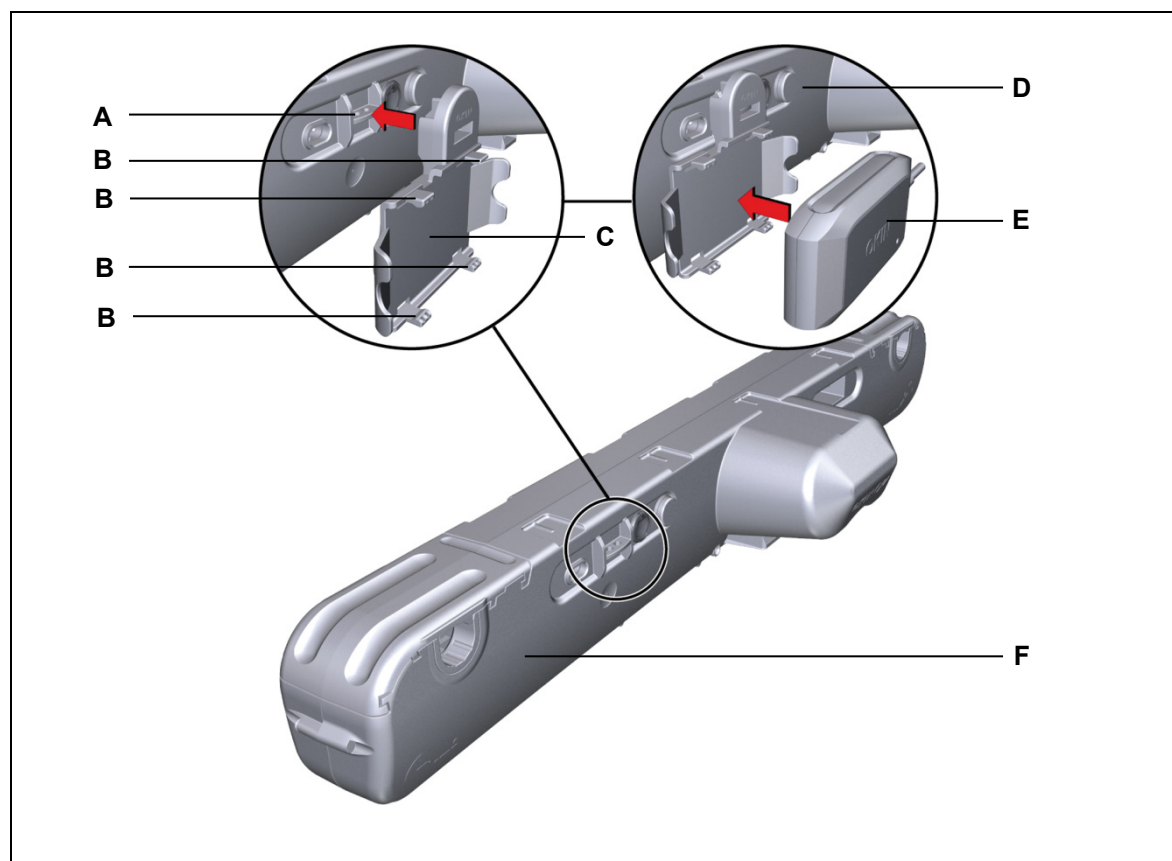


Figure 11 Mounting the adapter for the RF ECO BASIC

- | | |
|------------------------------|-------------------------|
| A Mounting attachment | B Locking clips |
| C Adapter | D Handset socket |
| E RF ECO BASIC | F OKIMAT 4 |

- 1 Push the adapter's locking clip into the OKIMAT 4's mounting attachment until you hear the clip snap in.
- 2 You can put the RF ECO BASIC into the adapter after you have mounted the adapter.
- 3 Connect the plug from the RF ECO BASIC to the handset socket on the OKIMAT 4.

Mounting the adapter for the RF ECO BT / RF ECO BT M

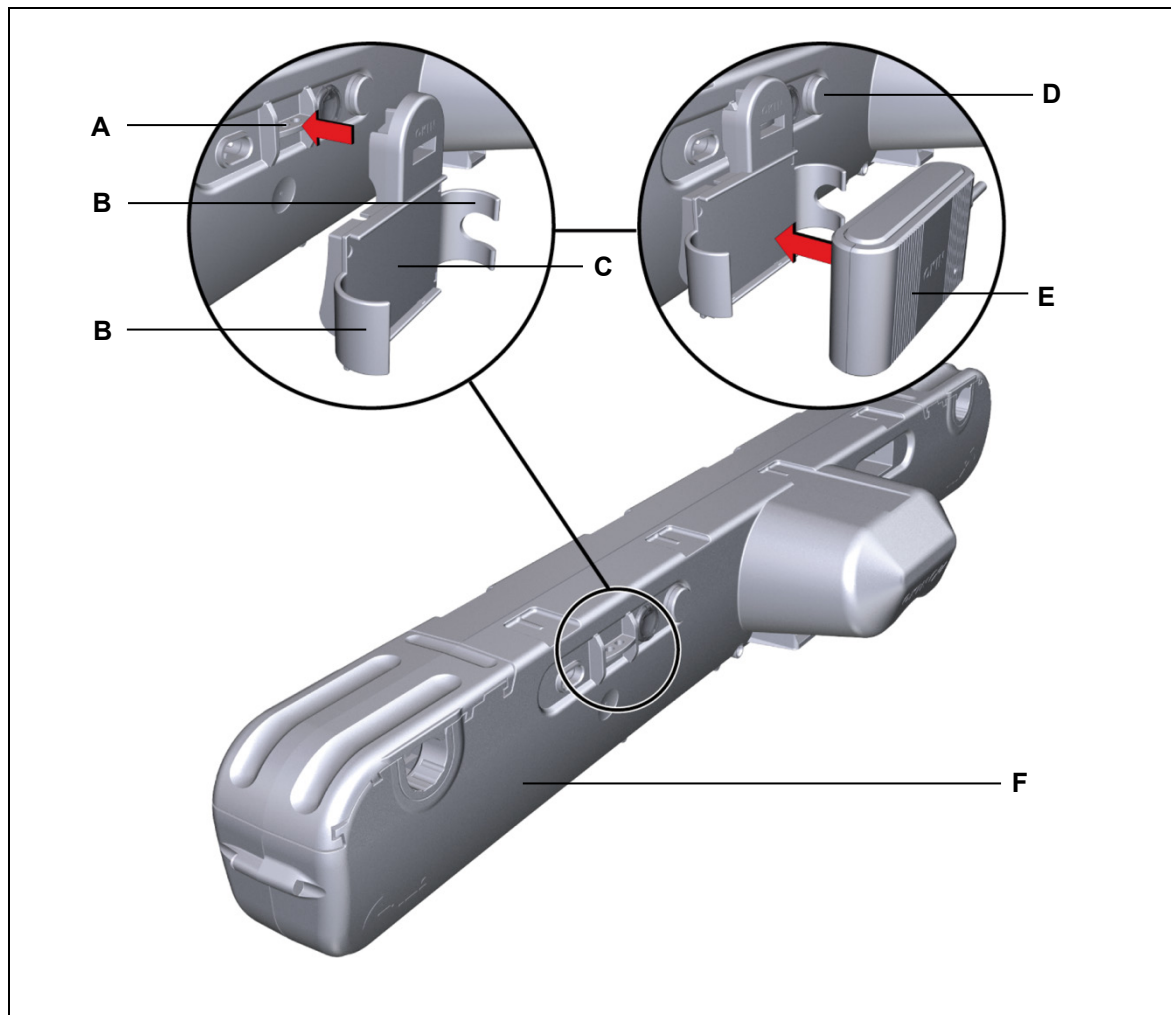


Figure 12 Adapter mount for the RF ECO BT / RF ECO BT M

- | | |
|----------------------------------|--|
| A Mounting attachment | B Guide for the RF ECO BT / RF ECO BT M |
| C Adapter | D Handset socket |
| E RF ECO BT / RF ECO BT M | F OKIMAT 4 |

- 1** Push the adapter's locking clip into the OKIMAT 4's mounting attachment until you hear the clip snap in.
- 2** You can put the RF ECO BT / RF ECO BT M into the adapter after you have mounted the adapter.
- 3** Connect the plug from the RF ECO BT / RF ECO BT M to the handset socket on the OKIMAT 4.

Mounting the adapter for the HE150 control unit

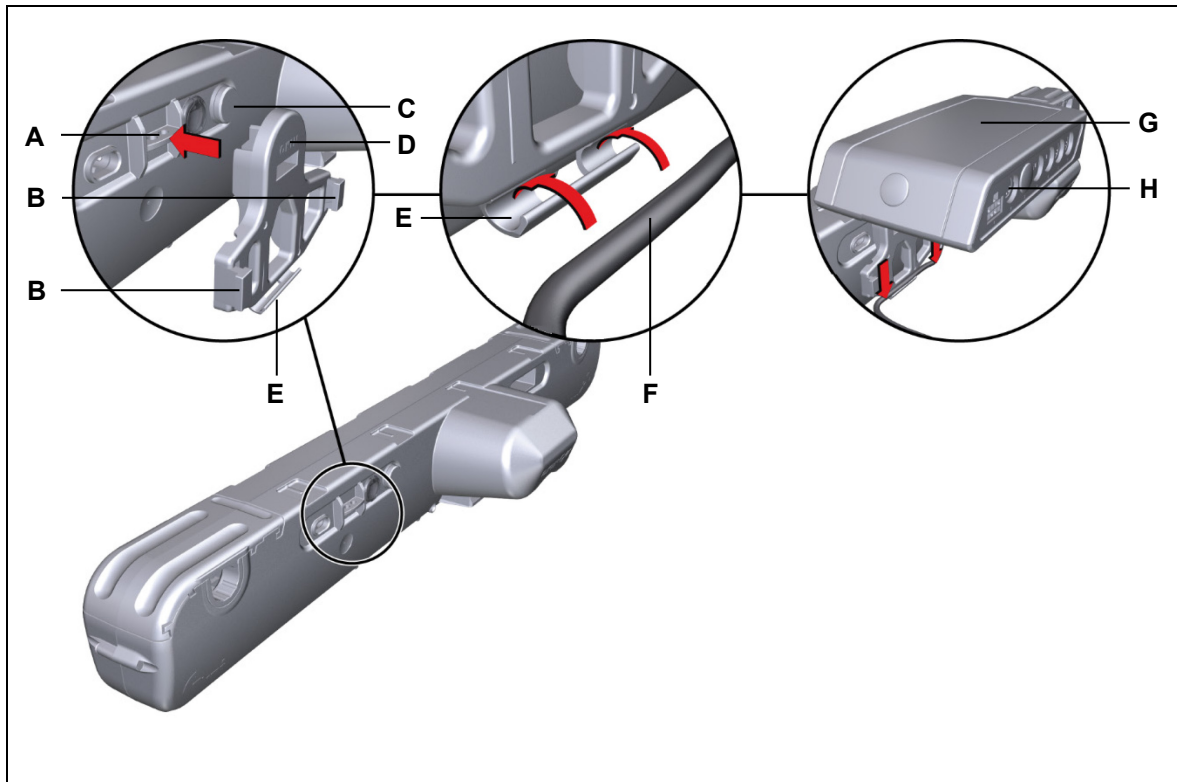


Figure 13 Mounting the adapter for the HE150

- | | |
|--|---|
| A Mounting attachment | B Guide for the HE150 |
| C Connecting socket in OKIMAT 4 | D Adapter |
| E cable guide | F Connecting cable |
| G HE150 control unit | H Connecting socket of the HE150 |

- 1 Push the adapter's locking clip into the OKIMAT 4's mounting attachment (**A**) until you hear the clip snap in.
- 2 Connect the connecting cable plug to the connecting socket of the OKIMAT 4 (**C**).
- 3 Route the connecting cable (**F**) in the cable guide (**E**) of the adapter.
- 4 Put the HE150 control unit (from the top downwards) into the adapter's guide (**B**).
- 5 Connect the connecting cable plug to the connecting socket on the HE150 (**H**).

Removing the adapter

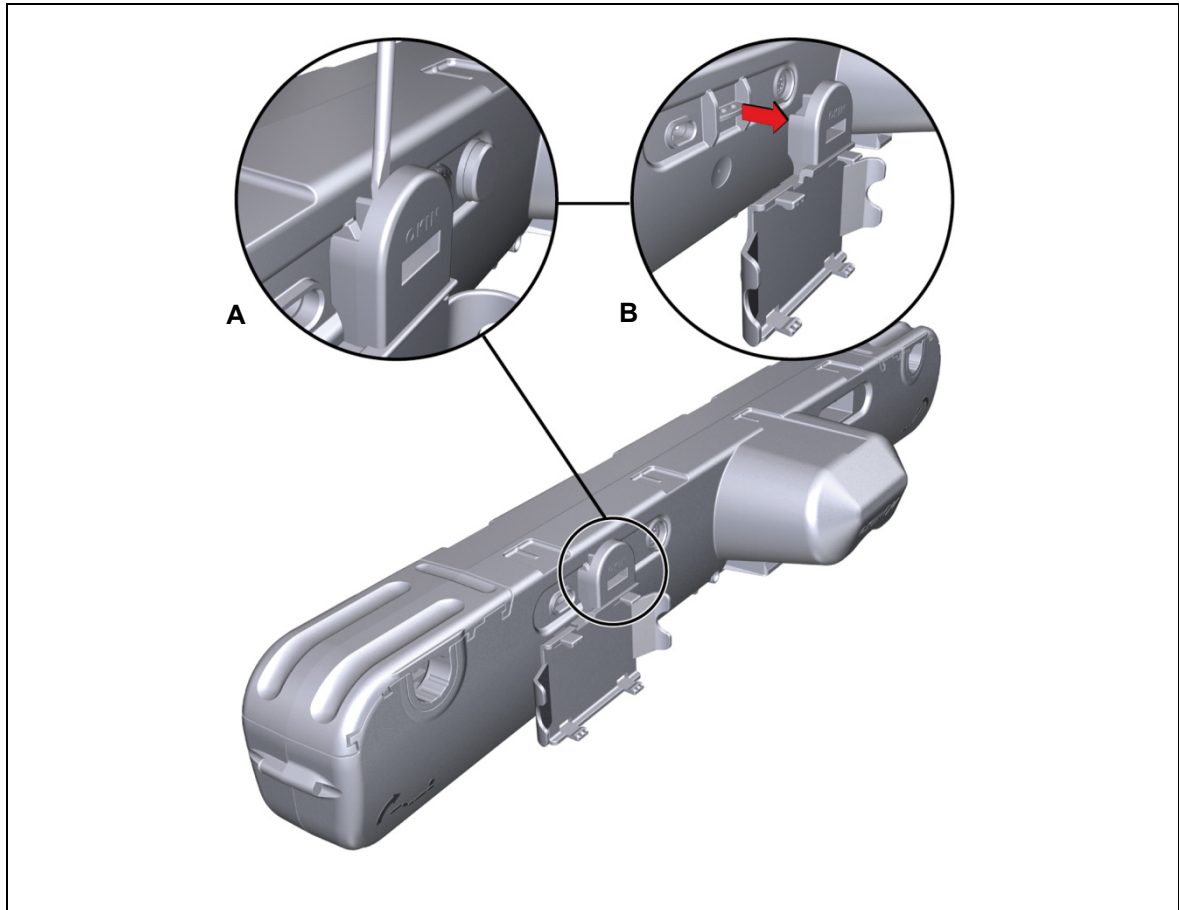


Figure 14 Removing the adapter (an example)

- 1 Disconnect the plug of the receiver or HE150 control unit from the handset socket.
- 2 Take the receiver or control unit (RF ECO BASIC, RF ECO BT / RF ECO BT M, RF-M-BT or HE150) out of its adapter.
- 3 To remove the adapter, use a screwdriver to carefully unlock the locking clip (as shown in Figure A). Then pull out the adapter (B).

Threading the handset cable, power cable and connecting cable into the strain relief mechanism

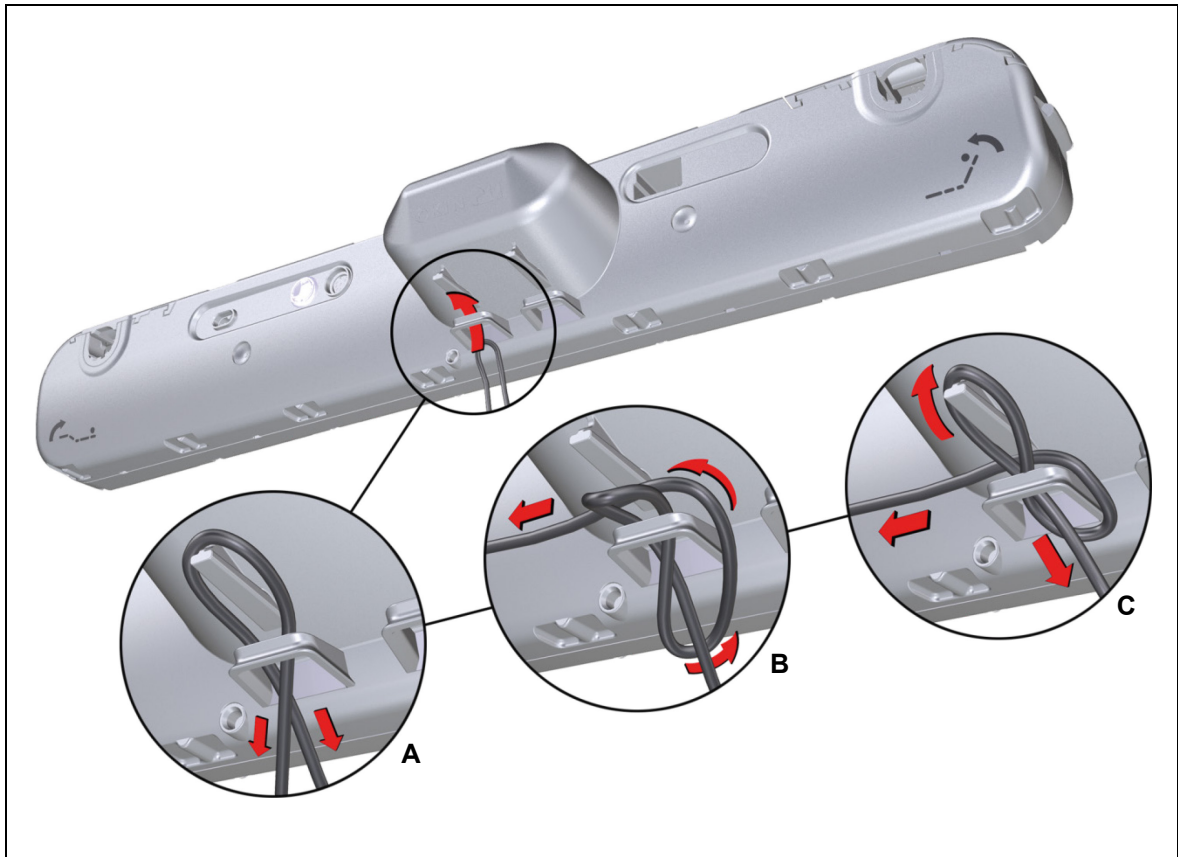


Figure 15 Looping the cable through the strain relief mechanism

A Cross over the looped-in cable

B Guide one cable end back behind the loop

C Secure cable to strain relief



CAUTION

Risk of accident

Electrical components should be connected or disconnected only when the power supply cord is unplugged.

- 1 To attach the handset cable: Connect the plug from the handset to the handset socket on the OKIMAT 4.
- 2 Push the cable in a loop through the strain relief (as shown by **A** in Figure 15).
- 3 Run the right cable strand first under the left strand and then behind and through the loop (as shown by **B** in Figure 15).
- 4 Place the loop over the peg on the drive and pull the loop back slightly (as shown by **C** in Figure 15).
- 5 In order to secure the power cable: Connect the power cable plug to the power socket on the OKIMAT 4. Repeat steps 2 through 4 with the power cable using the second strain relief.

6.2.3 Electrical connection

**CAUTION****Risk of accident**

Electrical components should be connected or disconnected only when the power supply cord is unplugged.

- There is a delay after the supply voltage is applied before the device actually turns on. Wait at least two seconds before beginning the commissioning.

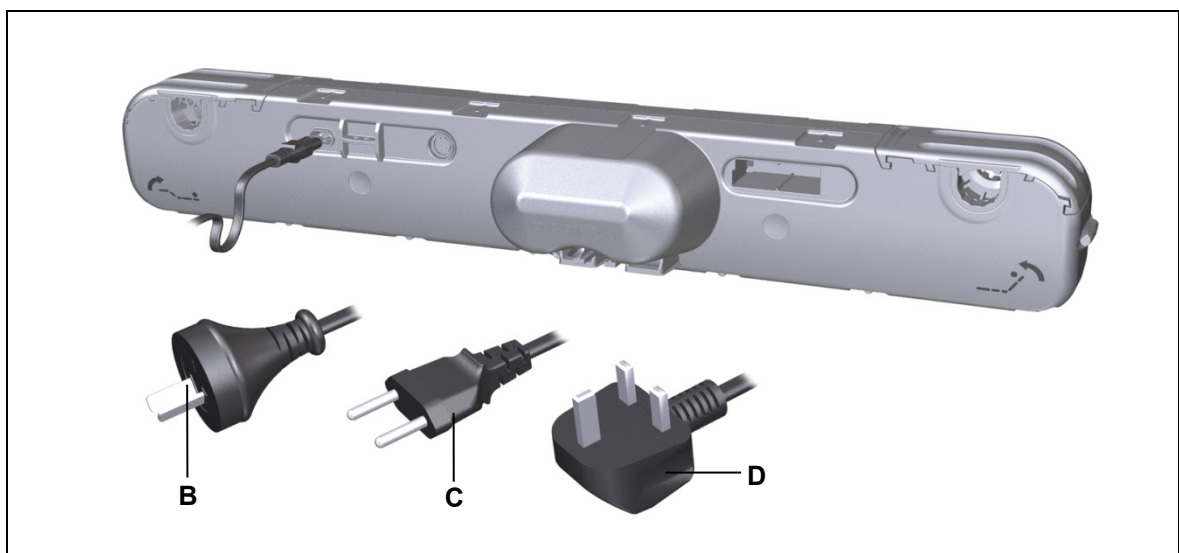
Option: Pluggable power cable (OKIMAT 4 IPS / IPSe)

Figure 16 Pluggable power supply cord

B Power plug (Australia)

C Power plug (EURO flat)

D Power plug (United Kingdom)

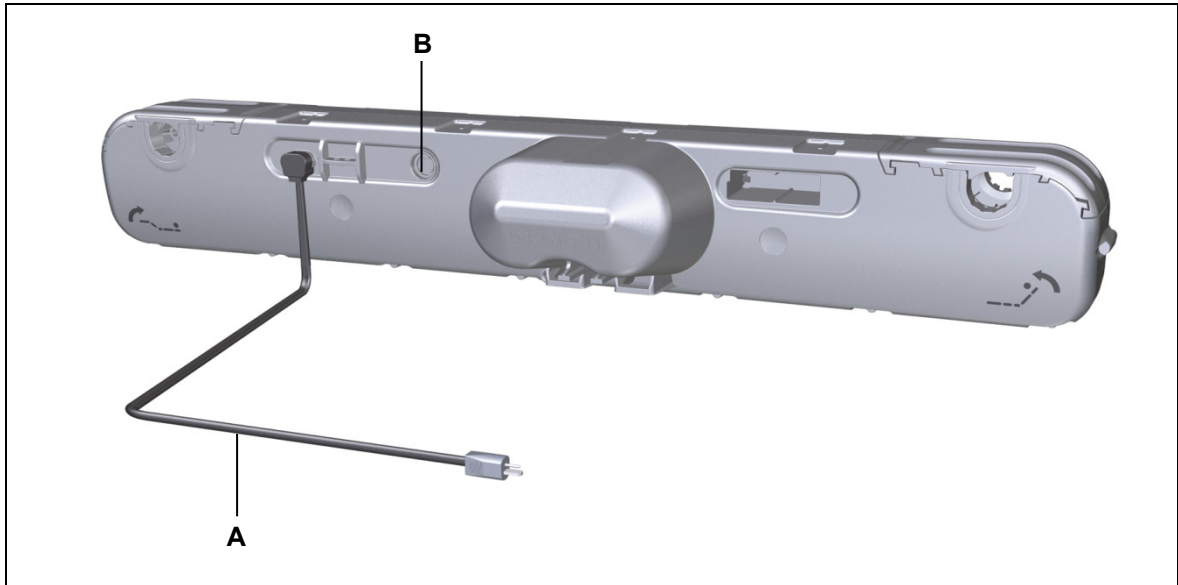
Option: Connecting the OKIMAT 4 EPS / EPSe to an external power supply

Figure 17 External switched-mode power supply (SMPS)

A Cable for the external power supply

B Handset socket

Optional: battery-operated reset function

Connecting the nine-volt battery

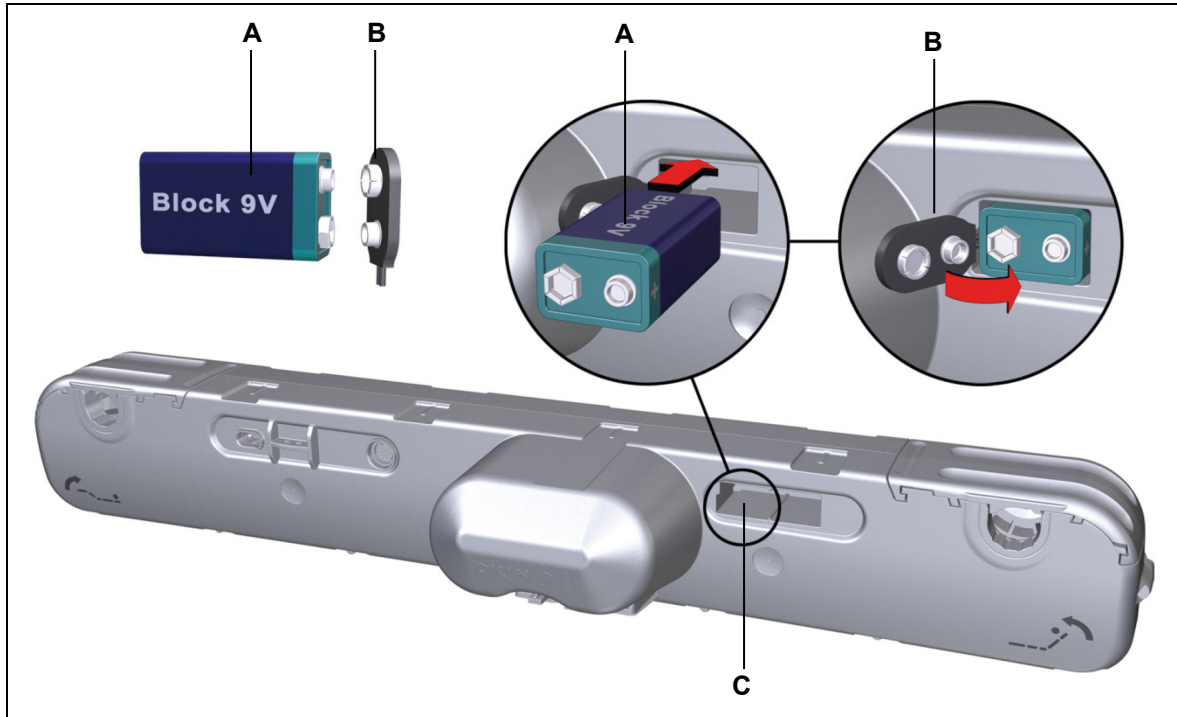


Figure 18 Connecting the nine-volt battery

A Nine-volt battery (type 6LR61)

B Battery clip

C Battery compartment for 1 or 2 batteries

NOTICE

For the RF radio variants, the nine-volt battery may discharge whenever the mains voltage is not connected.

Routing the electrical cables

When routing the cables, be sure that:

- the cables cannot get jammed,
- no mechanical load (such as pulling, pushing or bending) will be put on the cables, and
- the cables cannot be damaged in any way.

Fasten all cables (especially the mains cable) to the end product using sufficient strain relief and kink prevention methods. Be sure that the design of the end product prevents the mains cable from coming into contact with the floor during transport.

6.2.4 Dismantling



CAUTION

Risk of accident

- Electrical components should be connected or disconnected only when the power supply cord is unplugged.
- Disconnect the nine-volt battery if you are using the battery-operated reset function.

► Certain details may change because of technical changes.

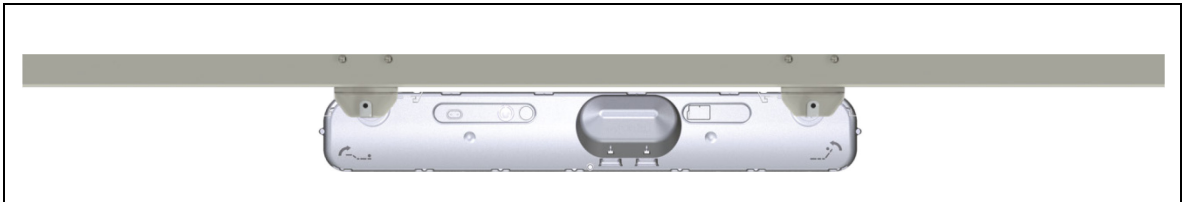


Figure 19 Removing the drive

- 1 Move your product into a position where it is supporting no load.



CAUTION

Danger of pinching/crushing injuries!

Be sure to carry out work on the drive in a position so that no loads are bearing on it. Only in this way can you be sure to avoid any risks of crushing or injury.

- 2 Disconnect the OKIMAT 4 from the power supply!
- 3 Disconnect the connecting cables from all additional components (e.g. handsets) from their sockets.
- 4 Be sure to support the drive's weight to prevent it from falling.
- 5 Pull strongly on the shutters (A) sideways until they are completely out.

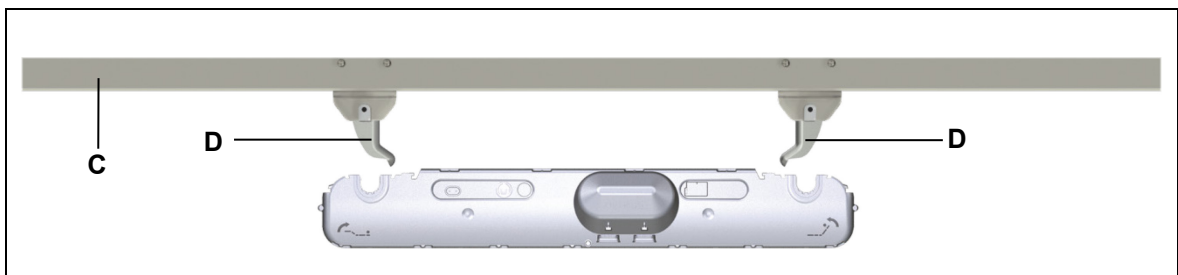


Figure 20 Removing the drive

C End product (bed)

D Brackets

- 6** Pull out the OKIMAT 4 far enough so that the brackets (**D**) are out of the slots (**B**). The OKIMAT 4 is now unattached and can be removed.

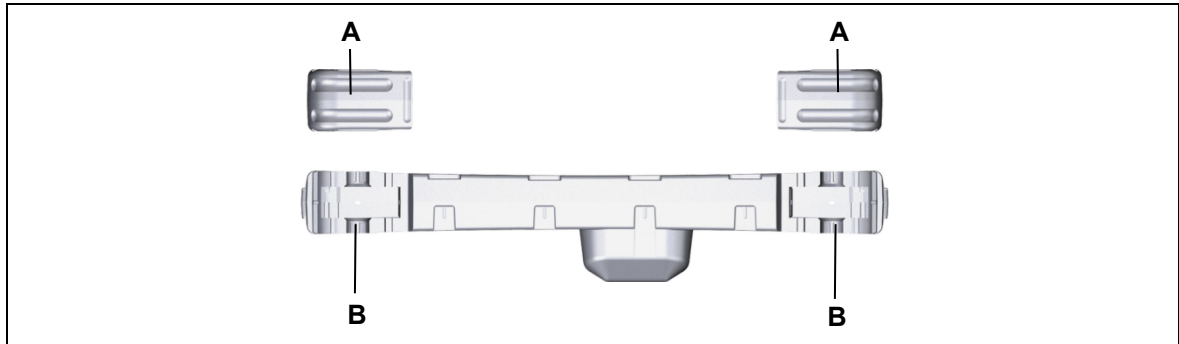


Figure 21 Removing the drive

A Shutters

B Fitting mounts

- 7** Push the shutters (**A**) back onto the OKIMAT 4 so that they are not lost during transportation.

7. Information about creating your Operating Manual

The factual information contained within may be used when you are creating the end-product manual. The installation instructions do not contain all information required for the safe operation of the end product. They only describe the installation and operation of the drive as a partially assembled piece of machinery.

- ▶ When creating the operating instructions, remember that the installation instructions are intended for qualified specialists and are not for typical users of the end product.

7.1 General information

- ▶ Only a DewertOkin device should be used to control the drive since they have already been verified to work together.

Delayed start-up

After plugging the power plug into the power outlet:

- ▶ There is a delay after the supply voltage is applied before the device actually turns on. Wait at least two seconds before beginning the commissioning.

Power-on time / intermittent operations

The OKIMAT 4 drive has been designed for intermittent operations. Intermittent operation is an operational mode where the drive must pause after a specified maximum period of operation (power-on time). This protects the drive from overheating. Extreme overheating can cause a malfunction.

- ▶ The ratings plate specifies the maximum power-on time and the required pause intervals.

Avoiding toggle operations

You should avoid switching from one direction of travel to the opposite direction without first stopping the motor. Make sure that you pause between motions! A pause (motor stop time) can be activated using the controls.

NOTICE
You should always avoid a quick change (toggling) of directions.

Shutting off the drive

To shut off the drive, first disconnect the system from the power supply and then disconnect the battery. The power supply must always be accessible during operations so that the system can be shut off.

7.2 Handset / hand-held remote control

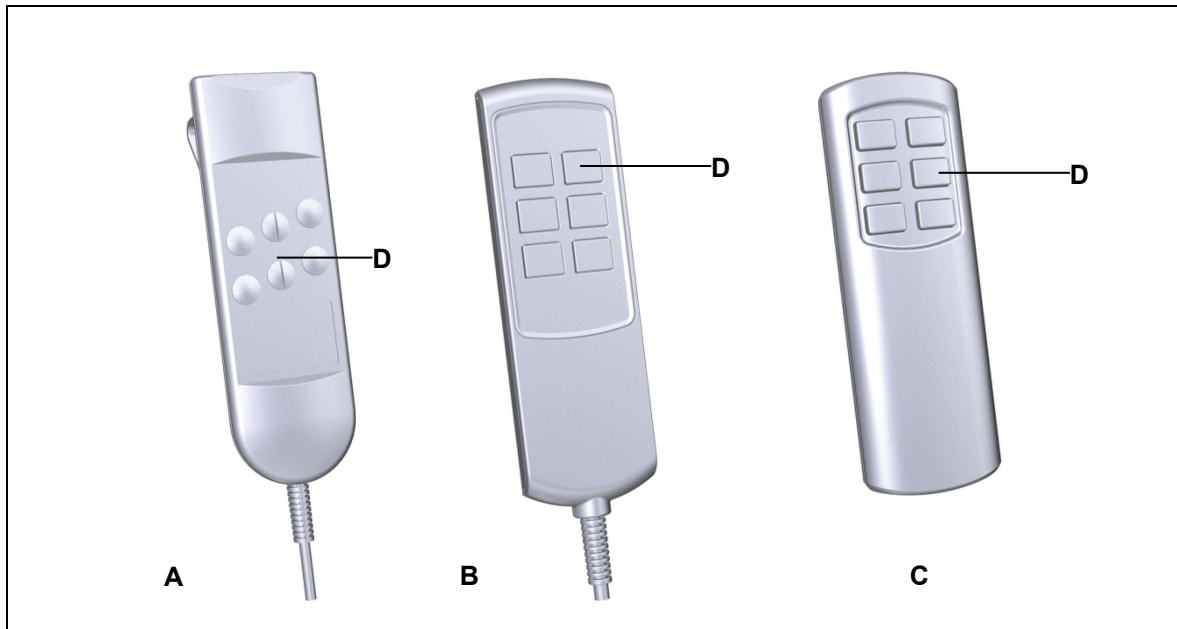


Figure 22 Examples of handset / hand-held remote control

- | | |
|--|--------------------------|
| A Baseline handset | B Topline handset |
| C RF ECO hand-held remote control, for external or internal wireless reception (RF) | D Adjustment keys |

- The adjustment motions are carried out by pressing on the corresponding symbol keys on the handset/hand-held remote control.

7.2.1 Configuring the RF ECO hand-held remote

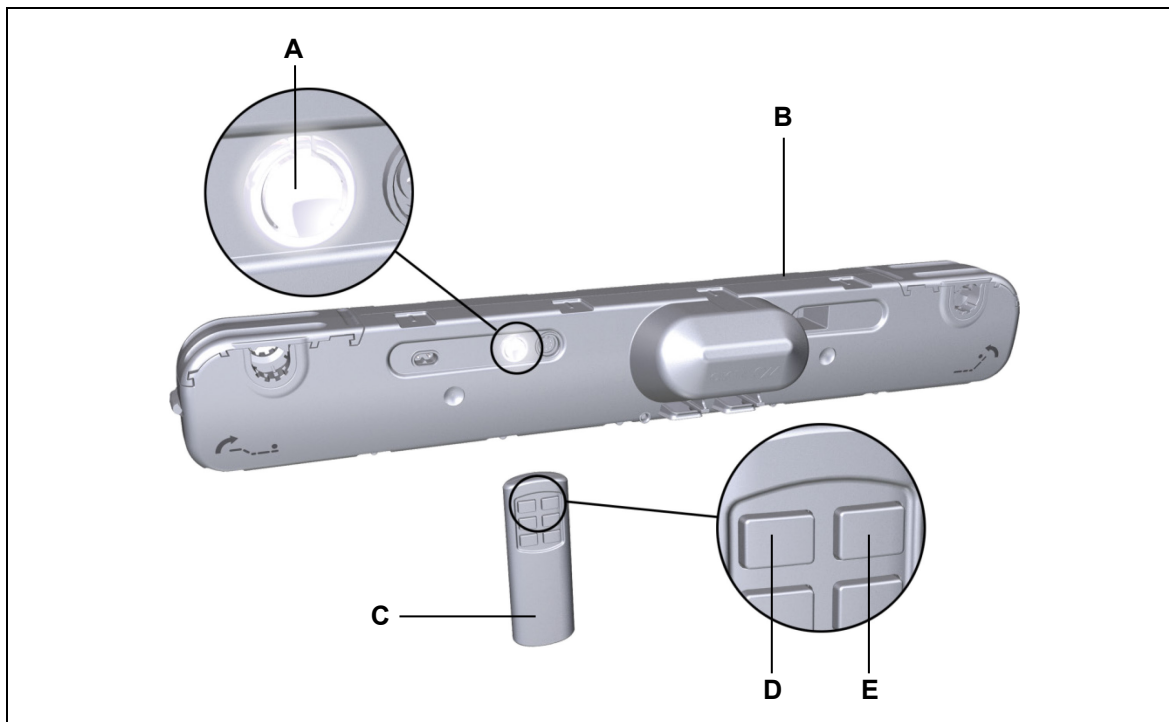


Figure 23 Example: Configuring the RF ECO hand-held remote

A Button

B OKIMAT 4 with built-in RF

C RF ECO hand-held remote

- 1 Press the function key on the drive (**A** in Figure 23) twice (a quick double click). The drive will now be in the teach-in (configuration) mode for approximately 10 seconds. The LED on the function key lights up.
- 2 Press the (**E**) and (**D**) keys simultaneously on the RF ECO hand-held remote. Hold down both keys until the function key's LED starts to blink. The RF ECO remote is now configured and ready to use.

7.2.2 Deactivating the RF ECO hand-held remote

You can interrupt communications between the hand-held remote and the drive; this is useful if you wish to decommission the remote or if the programming for the remote was unsuccessful. Take the following steps:

- 1 Press the function key on the drive (**A** in Figure 23) four times quickly.
- 2 Then press the function key (**A**) one more time. The RF ECO remote is now deactivated.

7.3 Notice for operating with optional configuration

7.3.1 Optional: battery-operated reset function

The battery-operated reset function allows the drive system to be operated during a power outage. One or two nine-volt batteries are used to power the OKIMAT 4 in the event of an outage. The batteries are not connected by default since they have very limited capacity. They can only be used once to power the reset function. The used batteries should then be replaced and properly disposed of.

NOTICE
The battery-operated reset function is not a safety system and does not avert danger.

When working with radio units (RF), first disconnect the drive system from the power supply! Connect the nine-volt battery first when you would like to perform a battery-operated reset. The battery may only be used to power the reset function one time. Take out the battery and dispose of it properly after the reset function has been carried out.

- If the end product is under a heavy load which prevents the reset function from operating, the strain or load on the end product must first be removed before a reset can be carried out.

7.3.2 Additional operating controls

For more information on operating other controls, refer to the separate instructions for these control units.

8. Troubleshooting

This chapter describes troubleshooting methods for fixing problems. If you experience an error that is not listed in this table, please contact your supplier.

- Only qualified specialists who have received electrician training should carry out troubleshooting and repairs.

Problem	Possible cause	Solution
The handset or drive system is not functioning.	There is no mains supply voltage.	Connect the mains power.
	The hand switch or drive system is defective.	Please contact your supplier or sales agent.
The drive is suddenly not capable of movement.	The overheating protection or system protection has been triggered.	Remove the overload (change or remove the load). Allow the system to rest for 20 to 30 minutes with the mains power unplugged. If this does not resolve the problem, contact your supplier or distributor.
	The unit's fuse may have been triggered or may be broken.	Please contact your supplier or sales agent.
	There is no mains supply voltage.	Connect the mains power.
	A lead-in connection has been interrupted (mains power, hand switch or auxiliary drive).	Check the cables and reinsert them, if required.
The battery-operated reset is not functioning.	The battery is empty.	Check the battery and replace if necessary.
	Battery is not connected.	Connect the battery.

9. Maintenance

9.1 Maintenance

- The OKIMAT 4 drive requires no maintenance.

9.2 Cleaning and care

- Clean the OKIMAT 4 drive as needed using a dry anti-static cloth.

NOTICE
• Always disconnect the power supply before you start to clean the drive system! • Disconnect the nine-volt battery if you are using the battery-operated reset function. • Never clean the OKIMAT 4 in an automated washing system or with a high-pressure cleaner. Do not allow fluids to penetrate the unit. Damage to the system could result. • Do not use a cleanser that contains benzene, alcohol or similar solvents. • Make sure that you do not damage the drive's connecting cable.

10. Disposal

10.1 Packaging material

The packaging material should be sorted into recyclable components and then disposed of in accordance with the appropriate national environmental regulations (in Germany according to the recycling law KrWG from 01.06.2012; internationally according to the EU Directive 2008/98/EC (Waste Framework Directive WFD as of 12.12.2008)).

10.2 Drive components

The OKIMAT 4 drive consists of electronic components, cables and metal and plastic parts. You should observe all corresponding national and regional environmental regulations when disposing of the OKIMAT 4 drive.

The disposal of the product is regulated in Germany by Elektro-G, internationally by the EU Directive 2012/19/EC (WEEE), or by any applicable national laws and regulations.



The OKIMAT 4 drive should not be disposed of with normal household waste!

The disposal of the nine-volt batteries is regulated in the EU by Battery Directive 2006/66/EC, in Germany by the BattG battery law of 25.6.2009, and internationally by any applicable national laws and regulations.



The battery should not be disposed of with normal household waste!

Einbauerklärung

nach Anhang II der EU-Maschinenrichtlinie
2006/42/EG

Der Hersteller

Declaration of Incorporation

*According to Appendix II of the EU Machinery
Directive 2006/42/EC*

The manufacturer:

DewertOkin GmbH
Weststraße 1
32278 Kirchlegern
Deutschland - Germany

erklärt hiermit, dass nachstehend beschriebene
unvollständigen Maschinen

*declares that the incomplete machines described
below*

OKIMAT 4 IPS
OKIMAT 4 IPSe
OKIMAT 4 EPS
OKIMAT 4 EPSe

die folgenden grundlegenden Anforderungen der
Richtlinie Maschinen (2006/42/EG) erfüllt:

*complies with the following basic requirements of the
Machinery Directive (2006/42/EC):*

Abschnitt:

Sections:

1.1.3; 1.3.3; 1.3.4; 1.3.7; 1.5.1; 1.5.2; 1.5.5; 1.5.6; 1.5.7; 1.5.8; 1.5.9; 1.5.10; 1.5.13

Die unvollständige Maschine darf erst dann in Be-
trieb genommen werden, wenn festgestellt wurde,
dass die Maschine, in die die unvollständige Ma-
schine eingebaut werden soll, den Bestimmungen
der Richtlinie Maschinen (2006/42/EG) entspricht.

*You may only operate this incomplete machine after
you have confirmed that the end product (into which
this machine will be installed) complies with the
Machinery Directive 2006/42/EC.*

Der Hersteller verpflichtet sich, die speziellen Unter-
lagen zur unvollständigen Maschine einzelstaatli-
chen Stellen auf begründetes Verlangen elektronisch
zu übermitteln. Die zur Maschine gehörenden
speziellen technischen Unterlagen nach Anhang VII
Teil B wurden erstellt.

*On reasonable request, the manufacturer is obliged
to send the special documentation accompanying the
partially completed machinery in electronic form to
the appropriate national institution. The special
technical documents corresponding to the machine
have been created according to Appendix VII, part B.*

Für die Zusammenstellung der technischen Unter-
lagen ist bevollmächtigt: DewertOkin GmbH
Weststraße 1
32278 Kirchlegern
Tel.: 05223 979-0
Deutschland - Germany

*For preparation of the technical documentation is
authorized: DewertOkin GmbH
Weststraße 1
32278 Kirchlegern
Phone: +49 5223 979-0
Deutschland - Germany*



Kirchlegern, Germany 11 May 2020

Dr.-Ing. Josef G. Groß
Geschäftsführer / Managing Director

EG-Konformitätserklärung

Nach Anhang IV der EMV-Richtlinie 2014/30/EU

Nach Anhang IV der EU-Niederspannungsrichtlinie 2014/35/EU

Nach Anhang VI der RoHS-Richtlinie 2011/65/EU (inkl. Delegierte Richtlinie (EU) 2015/863)

Der Hersteller

EU Declaration of Conformity

In compliance with Appendix IV of the EMC-Directive 2014/30/EU

In compliance with Appendix IV of the LVD-Directive 2014/35/EU

In compliance with Appendix VI of the EU RoHS Directive 2011/65/EU (incl. Commission delegated Directive (EU) 2015/863)

The manufacturer

DewertOkin GmbH
Weststraße 1
32278 Kirchlegern
Deutschland - Germany

erklärt hiermit, dass das Produkt

declares that the following product

OKIMAT 4 IPS
OKIMAT 4 IPSe
OKIMAT 4 EPS
OKIMAT 4 EPSe

die Anforderungen folgender EG-Richtlinien erfüllt:

meets the requirements of the following EU directives:

Richtlinie über elektromagnetische Verträglichkeit 2014/30/EU

Electromagnetic Compatibility Directive 2014/30/EU

Niederspannungsrichtlinie 2014/35/EU

Low Voltage Directive 2014/35/EU

DELEGIERTE RICHTLINIE (EU) 2015/863 DER KOMMISSION vom 31. März 2015 zur Änderung von Anhang II der Richtlinie 2011/65/EU des Europäischen Parlaments und des Rates hinsichtlich der Liste der Stoffe, die Beschränkungen unterliegen.

COMMISSION DELEGATED DIRECTIVE (EU) 2015/863 of 31 March 2015 amending Annex II to Directive 2011/65/EU of the European Parliament and of the Council as regards the list of restricted substances.

Angewendete Normen

Applied standards:

- EN 60335-1:2012/A11:2014
- EN 55014-1:2006/A1:2009/A2:2011
- EN 55014-2:1997/A1:2001/A2:2008
- EN 61000-3-2:2014
- EN 61000-3-3:2013
- EN 62233:2008

Konstruktive Änderungen, die Auswirkungen auf die in der Montageanleitung angegebenen technischen Daten und den bestimmungsgemäßen Gebrauch haben, das Produkt also wesentlich verändern, machen diese Konformitätserklärung ungültig!

This declaration of conformity is no longer valid if constructional changes are made which significantly change the drive system (i.e., which influence the technical specifications found in the instructions or the intended use)!



Kirchlegern, Germany 11 May 2020

Dr.-Ing. Josef G. Groß
Geschäftsführer / Managing Director

EG-Konformitätserklärung

(Ausführung 2,4GHz)

Nach Anhang VI der RED-Richtlinie 2014/53/EU

Nach Anhang VI der RoHS-Richtlinie 2011/65/EU

(inkl. Delegierte Richtlinie (EU) 2015/863)

Der Hersteller

EU Declaration of Conformity

(Version 2.4GHz)

In compliance with Appendix VI of the RED-Directive 2014/53/EU

In compliance with Appendix VI of the EU RoHS Directive 2011/65/EU

(incl. Commission delegated Directive (EU) 2015/863)

The manufacturer:

DewertOkin GmbH
Weststraße 1
32278 Kirchlegern
Deutschland - Germany

erklärt hiermit, dass das Produkt

declares that the following product

OKIMAT 4 IPS

OKIMAT 4 IPSe

OKIMAT 4 EPS

OKIMAT 4 EPSe

die Anforderungen folgender EG-Richtlinien erfüllt:

meets the requirements of the following EU directives:

Richtlinie 2014/53 über die Harmonisierung der Rechtsvorschriften der Mitgliedstaaten über die Bereitstellung von Funkanlagen auf dem Markt

RED Directive 2014/53/EU

DELEGIERTE RICHTLINIE (EU) 2015/863 DER KOMMISSION vom 31. März 2015 zur Änderung von Anhang II der Richtlinie 2011/65/EU des Europäischen Parlaments und des Rates hinsichtlich der Liste der Stoffe, die Beschränkungen unterliegen.

COMMISSION DELEGATED DIRECTIVE (EU) 2015/863 of 31 March 2015 amending Annex II to Directive 2011/65/EU of the European Parliament and of the Council as regards the list of restricted substances.

Angewendete Normen

Applied standards:

- EN 60335-1:2012/A11:2014
- EN 55014-1:2006/A1:2009/A2:2011
- EN 55014-2:1997/A1:2001/A2:2008
- EN 61000-3-2:2014
- EN 61000-3-3:2013
- EN 62233:2008
- EN 50663: 2017
- ETSI EN 300440 V2.1.1
- ETSI EN 301489-1 V1.9.2

Konstruktive Änderungen, die Auswirkungen auf die in der Montageanleitung angegebenen technischen Daten und den bestimmungsgemäßen Gebrauch haben, das Produkt also wesentlich verändern, machen diese Konformitätserklärung ungültig!

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Kirchlegern, Germany 11 May 2020

Dr.-Ing. Josef G. Groß
Geschäftsführer / Managing Director

DewertOkin GmbH
Weststrasse 1
Kirchlengern 32278, Germany
Tel: +49 (0)5223/979-0
Fax.: +49 (0)5223/75182
<http://www.dewertokin.de>
Info@dewertokin.de

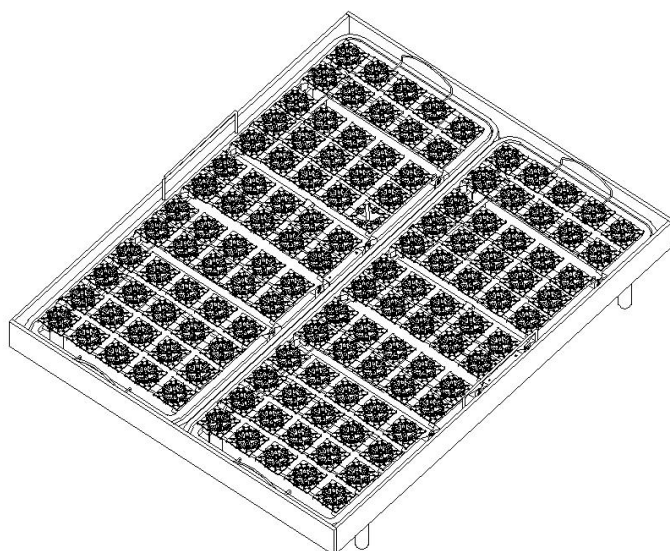
ID No.: 81425

FR Description du produit
EN Product description
DE Produktbeschreibung
ES Descripción del producto

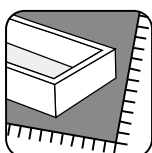
IT Descrizione del prodotto
NL Productomschrijving
PT Descrição do produto
PL opis produktu

SOMMIER RELAX

PW35



X2



À MONTER
SOI-MÊME

Meuble à usage domestique / Domestic furniture / Meuble a uso domestico / Möbel für den häuslichen Wohngebrauch/
Mobili per la casa/ Huishoudmeubilair / Mobiliário doméstico

3517920561735/3517920561711/3517920697915

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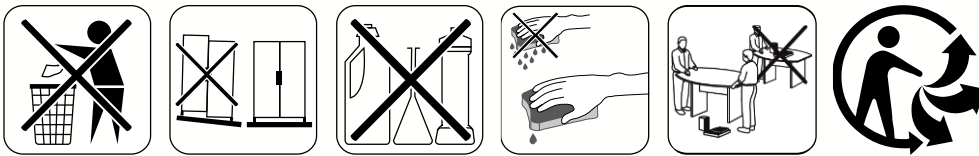
WHITE

NATURE



Vente-unique

zoom



1. Reperez les pieces constituant votre meuble.
2. Regroupez et comptez la quincaillerie.
3. Munissez vous de l'outillage necessaire.
4. Amenez vous une zone de montage, la moquette ou une couverture protegera des rayures.
5. Procédez au montage, ne jamais forcer sur les assemblages, resserez les vis apres quelques temps d'usage.



FR

Gardez votre notice de montage.

Si une piece venait a manquer elle sera le moyen le plus clair pour communiquer avec votre magasin.
Nous conseillons d'aérer la pièce lors du montage et quelques heures après.

1. Identify the parts which make up your piece of furniture.
2. Gather the hardware parts and count them.
3. Have the necessary tools ready.
4. Organize a space for assembly, wall carpeting or a blanket will protect the furniture against scratches.
5. Mount the furniture, never force the parts to be assembled.



EN

Tighten the screws after it has been used for some time.

Keep the assembly instruction since it will help you when you get in touch with the store if a part should be missing.

We advise ventilating the room during installation and during few hours after.

1. Bitte überprüfen Sie, ob alle Einzelteile Ihres Möbelstücks vorhanden sind.
2. Bitte überprüfen Sie, ob alle Schrauben und Verbindungsteile für die Montage vorhanden sind.
3. Halten sie alle notwendigen Montage-Werkzeuge für ihren Einsatz gebrauchsbereit.
4. Bereiten Sie einen passenden Ort für die Montage vor. Ein Teppichboden oder ähnliches schützt vor Kratzern.
5. Beginnen Sie mit der Montage. Lassen Sie sich Zeit und fügen Sie die Einzelteile nie mit Gewalt zusammen.



DE

Um einen langfristigen und einwandfreien Gebrauch zu gewährleisten, ziehen Sie die einzelnen Schrauben regelmäßig nach längerer Nutzung des Möbelstücks fest.

Bitte bewahren Sie diese Montageanleitung auf. Diese gewährleistet im Problemfall einen reibungslosen und schnellen Kommunikationsaustausch mit dem Kundenservice Ihres Geschäfts.

Wir beraten, lüften Sie den Raum während der Installation und ein paar Stunden später.

1. Localice las piezas que componen su mueble.
2. Reagrupe y cuente la tornilleria.
3. Prepare las herramientas necesarias.
4. Prepare una zona de montaje, la moqueta o una manta protegerá de arañazo.
5. Proceda al montaje, no forzar sobre los embalages, apretar los tornillos después de algún tiempo de uso.



ES

Guardar las instrucciones de montaje.

Si una pieza le faltase, sera la manera mas facil de comunicarse con su proveedor.

Aconsejamos ventilar la zona durante la instalación y algunas horas después.

1. Identificare le parti che compongono il mobile.
2. Raccogliere le parti e contarle.
3. Tenere pronti gli attrezzi necessari.
4. Organizzare uno spazio per il montaggio, un telo da parete o una coperta proteggerà i mobili contro i graffi.
5. Montare il mobile, non forzare mai le parti da assemblare.



IT

Serrare le viti dopo che sono state usate per un certo periodo di tempo.

Conservare le istruzioni di montaggio poiché vi torneranno utili quando ricontatterete il negozio se una parte dovesse mancare.

Si consiglia di ventilare la stanza durante l'installazione e durante le ore successive.

 NL	1. Identificeer de onderdelen waar uw stuk meubilair uit bestaat. 2. Verzamel de hardwareonderdelen en tel deze. 3. Heb het vereiste gereedschap bijdehand. 4. Organiseer een ruimte voor assemblage; muurtafijl of een deken zal het meubilair beschermen tegen krassen. 5. Monteer het meubilair en forceer hierbij nooit de te monteren onderdelen. Draai de schroeven vast nadat het een tijdje in gebruik is geweest. Bewaar de assemblage-instructies in het geval dat u contact op moet nemen met de winkel indien er een onderdeel ontbreekt. Wij raden u aan de kamer te ventileren tijdens en voor enkele uren na de installatie.
 PT	1. Identifique as peças que constituem a sua mobília. 2. Junte as ferragens e conte. 3. Tenha prontas as ferramentas necessárias. 4. Organize e arranje espaço para a montagem, colocando um tapete ou manta para proteger a mobília contra riscos. 5. Monte a mobília, nunca force as peças a montar. Aperte os parafusos após a peça de mobília ter sido utilizada durante algum tempo. Guarde as instruções de montagem, pois serão úteis quando quiser contactar a loja, caso perca alguma peça. Aconselhamos a ventilar a divisão durante a instalação e algumas horas depois.
 PL	1. Zidentyfikuj części, z których składa się Twój mebel. 2. Zbierz części sprzętowe i policz je. 3. Przygotuj niezbędne narzędzia. 4. Zorganizuj przestrzeń do montażu; wykładzina ścienna lub koc zabezpieczą meble przed zarysowaniami. 5. Zamontuj meble; nigdy nie zmuszaj części do montażu. Dokręć śruby po pewnym czasie użytkowania. Zachowaj instrukcję montażu, ponieważ pomoże ci ona w kontakcie ze sklepem, jeśli brakuje części. Zalecamy przewietrzenie pomieszczenia podczas instalacji oraz kilka godzin po jej zakończeniu.

**IMPORTANT, A CONSERVEZ POUR UNE REFERENCE ULTERIEURE: LIRE
ATTENTIVEMENT**

IMPORTANT, RETAIN FOR FUTURE REFERENCE: READ CAREFULLY

**WICHTIG, FÜR SPÄTERES NACHSCHLAGEN AUFBEWAHREN: SORGFÄLTIG
LESEN**

**IMPORTANTE, CONSERVAR PARA FUTURAS CONSULTAS: LEER
ATENTAMENTE**

**IMPORTANTE, CONSERVARE PER RIFERIMENTO FUTURO, LEGGERE CON
ATTENZIONE**

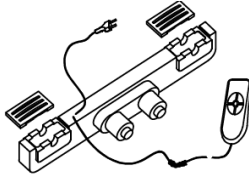
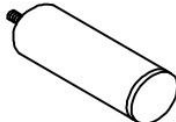
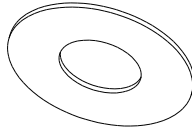
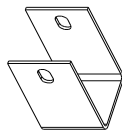
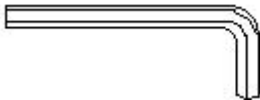
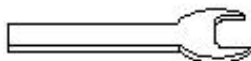
**BELANGRIJK, BEWAARALS EVENTUEEL NASLAGWERK, ZORGVULDIG
LEZEN**

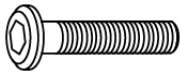
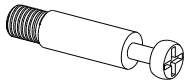
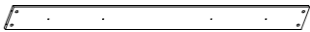
IMPORTANTE, GUARDAR PARA REFERÊNCIA FUTURA, LER ATENTAMENTE

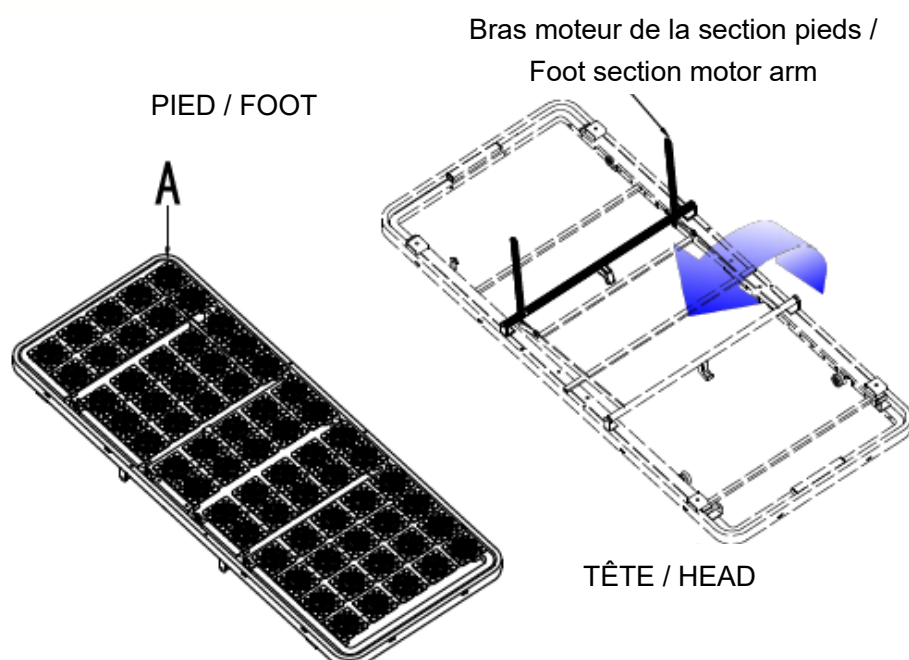
WAŻNE, ZACHOWAJ NA PRZYSZŁOŚĆ: PRZECZYTAJ UWAŻNIE

Hardware Ctn No.

1/3 & 2/3

No.	Description	Size	Picture	Qty	Ctn no.
A	Bed Frame			2	1/3 1pc 2/3 1pc
B	Motor			2	Extra Part
C	LEG	H: 200mm		8	1/3 4pcs 2/3 4pcs
D	WASHER	DIA=50mm		8	1/3 4pcs 2/3 4pcs
E	MATTRESS STOPPER	L=256mm		4	1/3 2pcs 2/3 2pcs
F	MATTRESS STOPPER	L=358mm		2	1/3 1pc 2/3 1pc
G	U BRACKET			2	1/3 1pc 2/3 1pc
H	ALLEN KEY			2	1/3 1pc 2/3 1pc
I	WRENCH			2	1/3 1pc 2/3 1pc

J	SCREW	M8*60		2	1/3 1pc 2/3 1pc
K	NUT	M8		2	1/3 1pc 2/3 1pc
L	SCREW	M6*25			3/3
M	METAL BOLT				3/3
N	Screw	M6			3/3
O	Side Board				3/3
P	Side Board				3/3



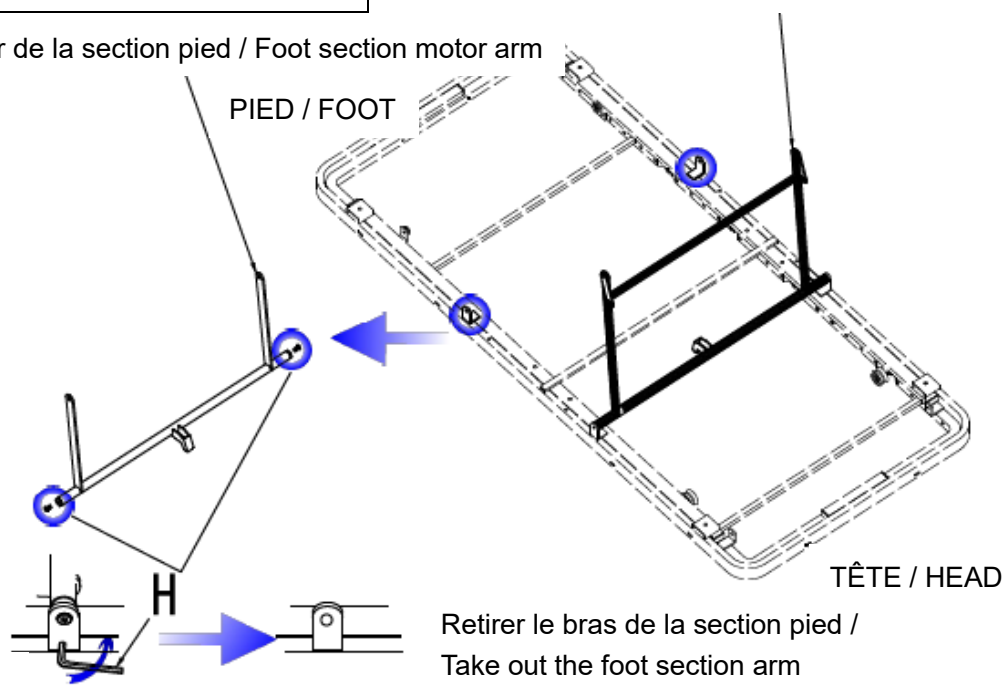
ÉTAPE 1 / STEP 1

Retourner le lit / Turn over the bed

 H: CLÉ ALLEN 5 MM (1 PIÈCE) /
ALLEN KEY 5MM 1 PC

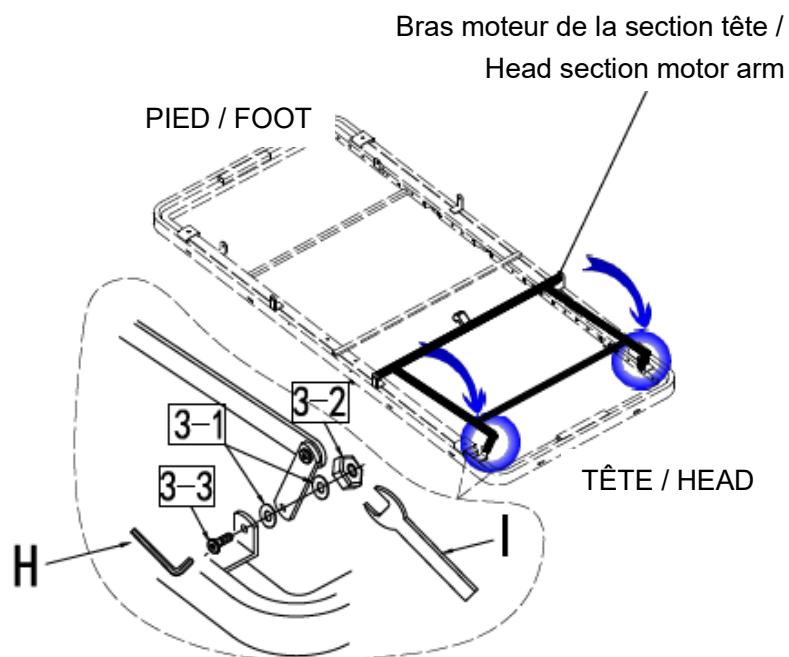
Bras moteur de la section pied / Foot section motor arm

Bras moteur de la section tête /
Head section motor arm



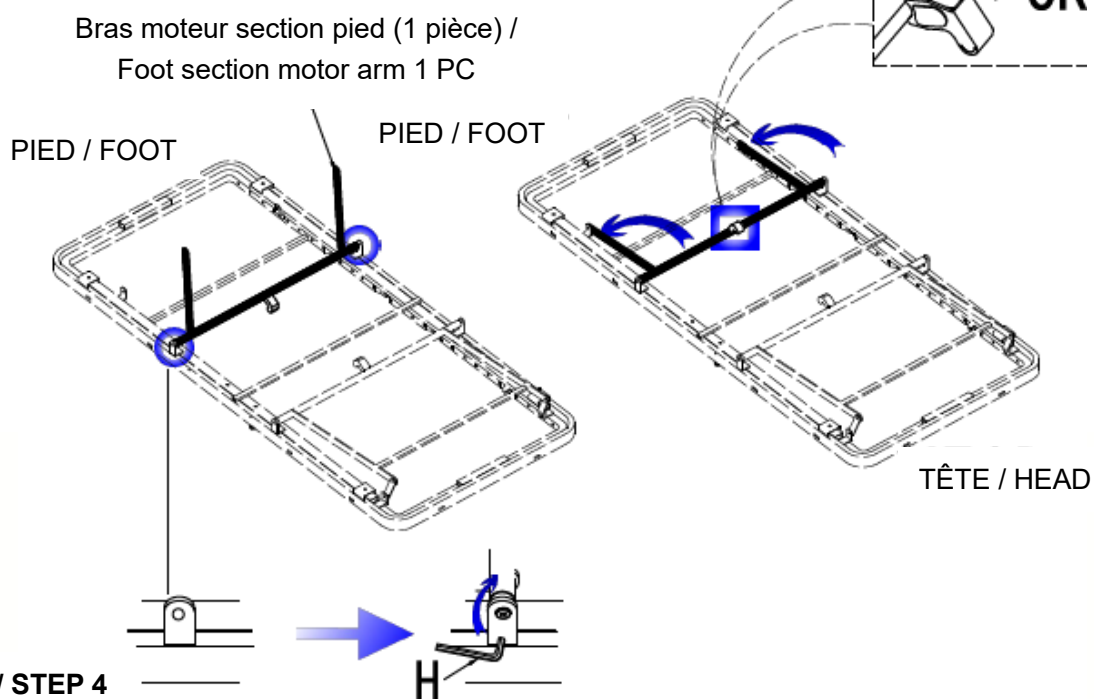
ÉTAPE 2 / STEP 2

	H: CLÉ ALLEN 5 MM (1 PIÈCE) / ALLEN KEY 5MM 1 PC
	I: CLÉ 13 MM (1 PIÈCE) / WRENCH 13MM1PC
	3-1: RONDELLES (4 PIÈCES) (SUR LE BÂTI) / WASHER 4 PCS (ON BED FRANE)
	3-2: ÉCROU (2 PIÈCES) (SUR LE BÂTI) / NUT 2 PCS(ON BED FRANE)
	3-3: VIS (2 PIÈCES) (SUR LE BÂTI) / SCREW 2 PCS(ON BED FRANE)

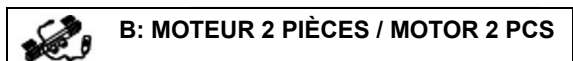


ÉTAPE 3 / STEP 3

	H: CLÉ ALLEN 5 MM (1 PIÈCE) / ALLEN KEY 5MM 1 PC
	Bras moteur section pied (1 pièce) / Foot section motor arm 1 PC

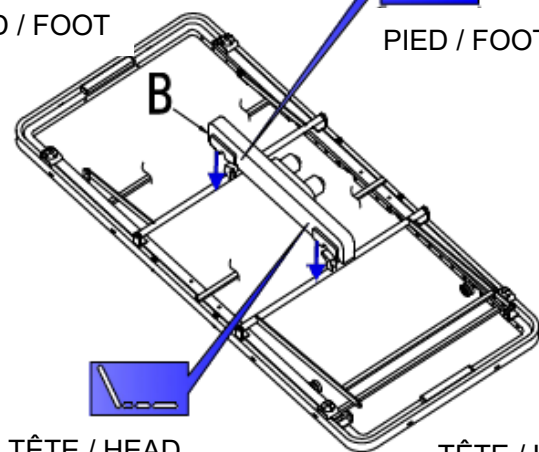


ÉTAPE 4 / STEP 4



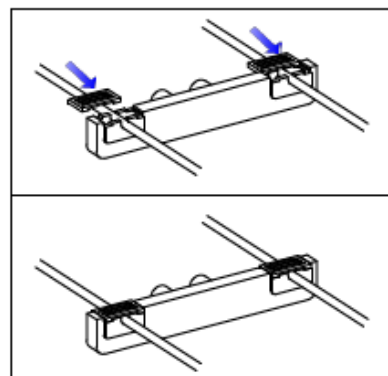
PIED / FOOT

PIED / FOOT

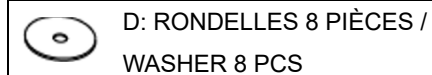
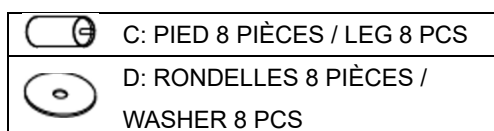


TÊTE / HEAD

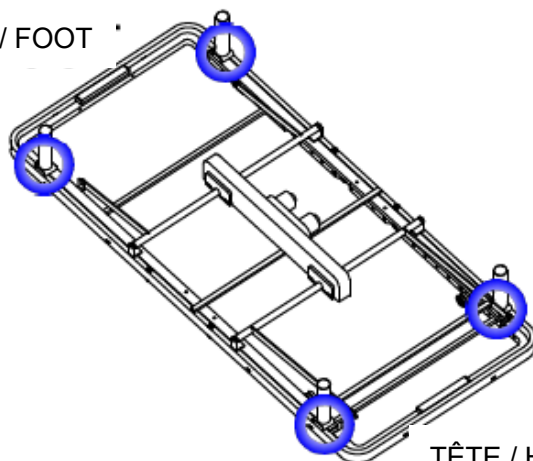
TÊTE / HEAD



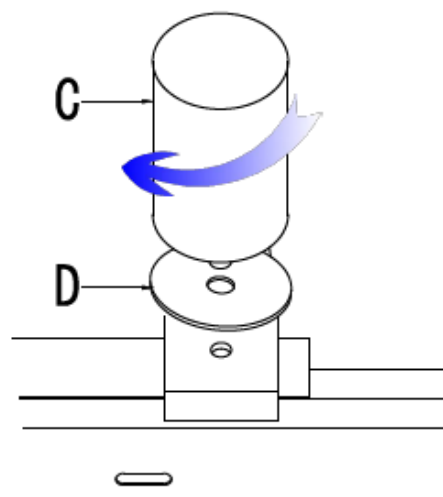
ÉTAPE 5 / STEP 5



PIED / FOOT

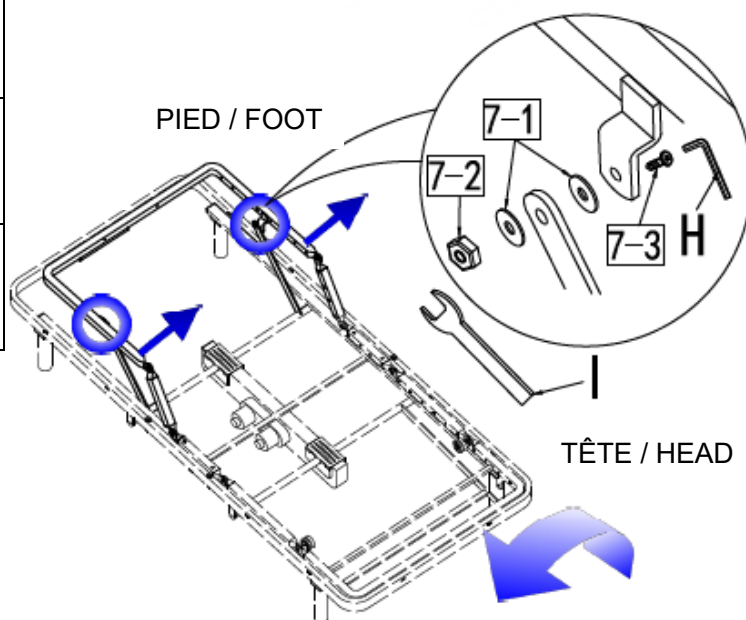


TÊTE / HEAD



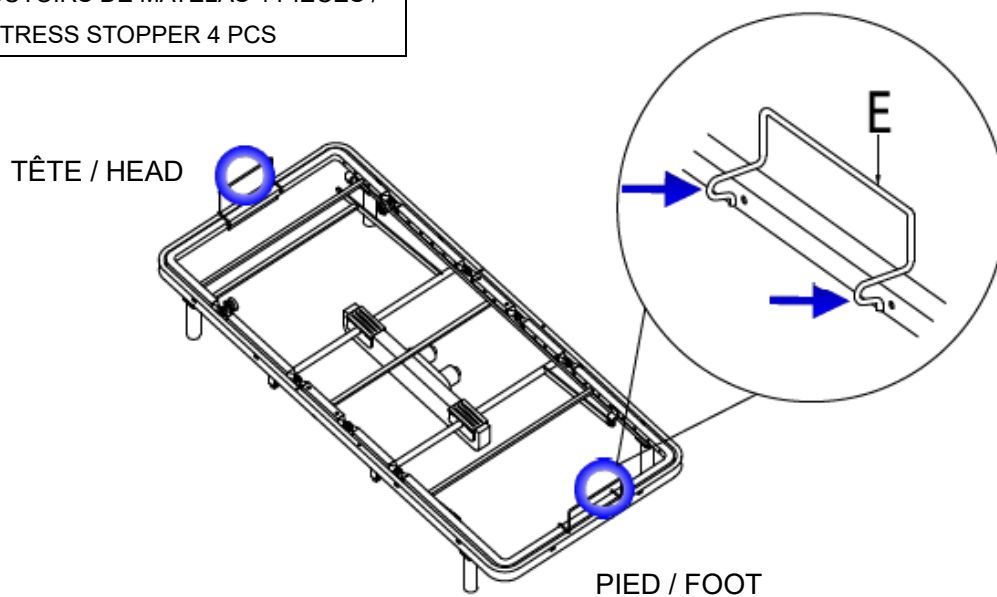
ÉTAPE 6 / STEP 6

	H: CLÉ ALLEN 5 MM (1 PIÈCE) / ALLEN KEY 5MM 1 PC
	I: CLÉ 13 MM (1 PIÈCE) / WRENCH 13MM1PC
	7-1: RONDELLES (4 PIÈCES) (SUR LE BÂTI) / WASHER 4 PCS (ON BED FRAME)
	7-2: ÉCROU (2 PIÈCES) (SUR LE BÂTI) / NUT 2 PCS(ON BED FRAME)
	7-3: VIS (2 PIÈCES) (SUR LE BÂTI) / SCREW 2 PCS(ON BED FRANE)

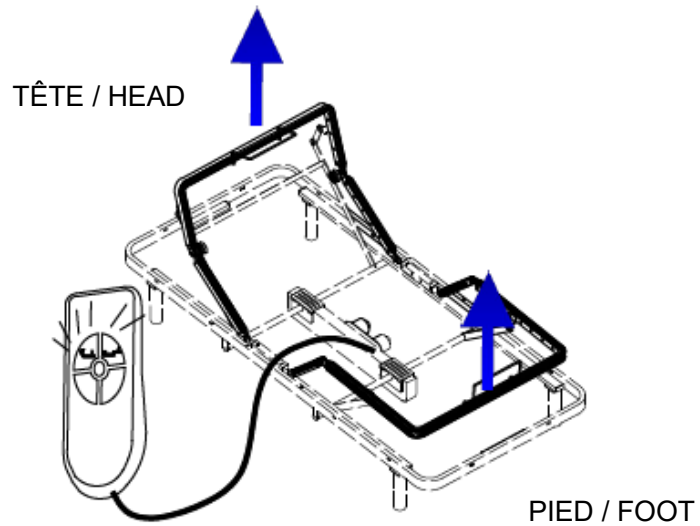


ÉTAPE 7 / STEP 7

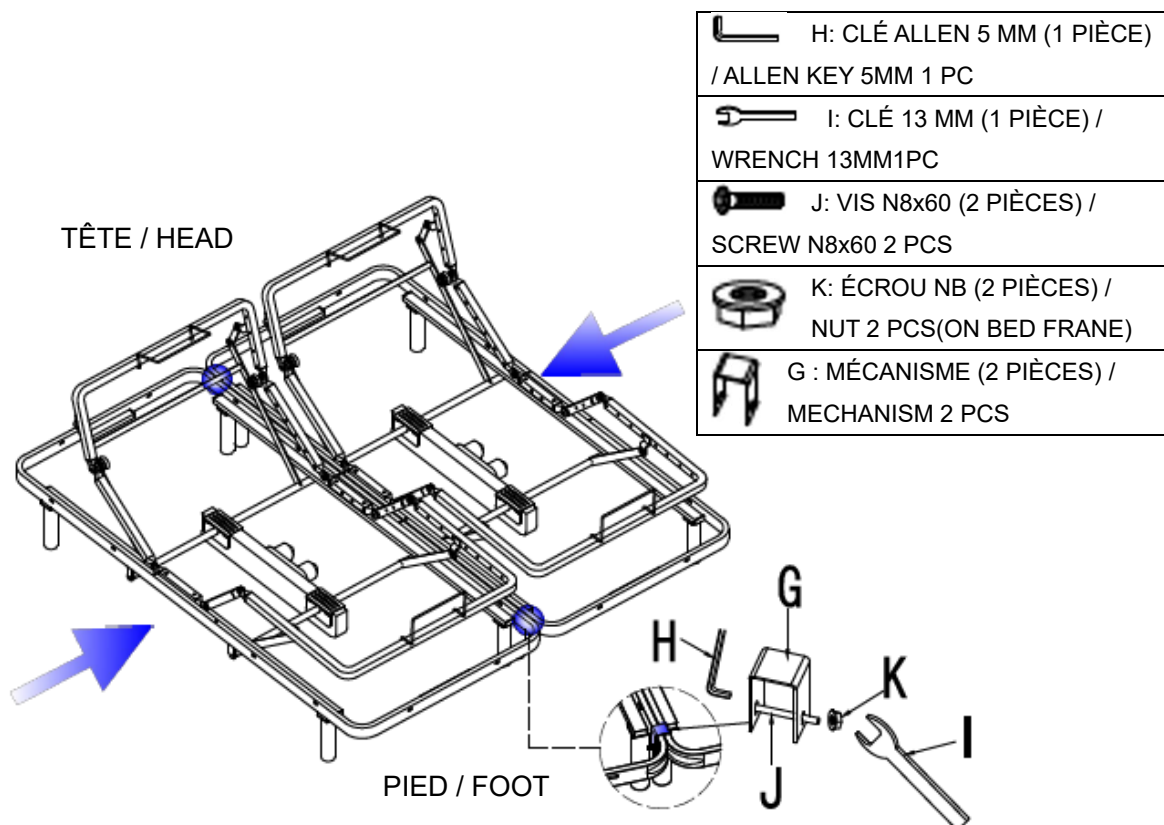
	E : BUTOIRS DE MATELAS 4 PIÈCES / MATTRESS STOPPER 4 PCS
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ÉTAPE 8 / STEP 8



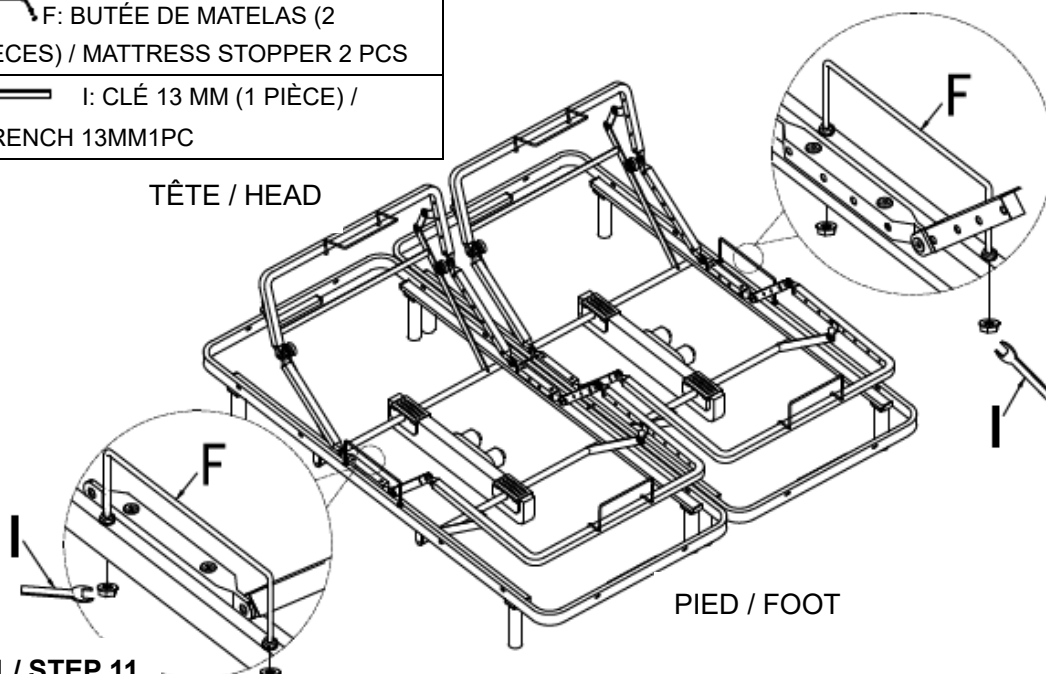
ÉTAPE 9 / STEP 9



ÉTAPE 10 / STEP 10

	F: BUTÉE DE MATELAS (2 PIÈCES) / MATTRESS STOPPER 2 PCS
	I: CLÉ 13 MM (1 PIÈCE) / WRENCH 13MM1PC

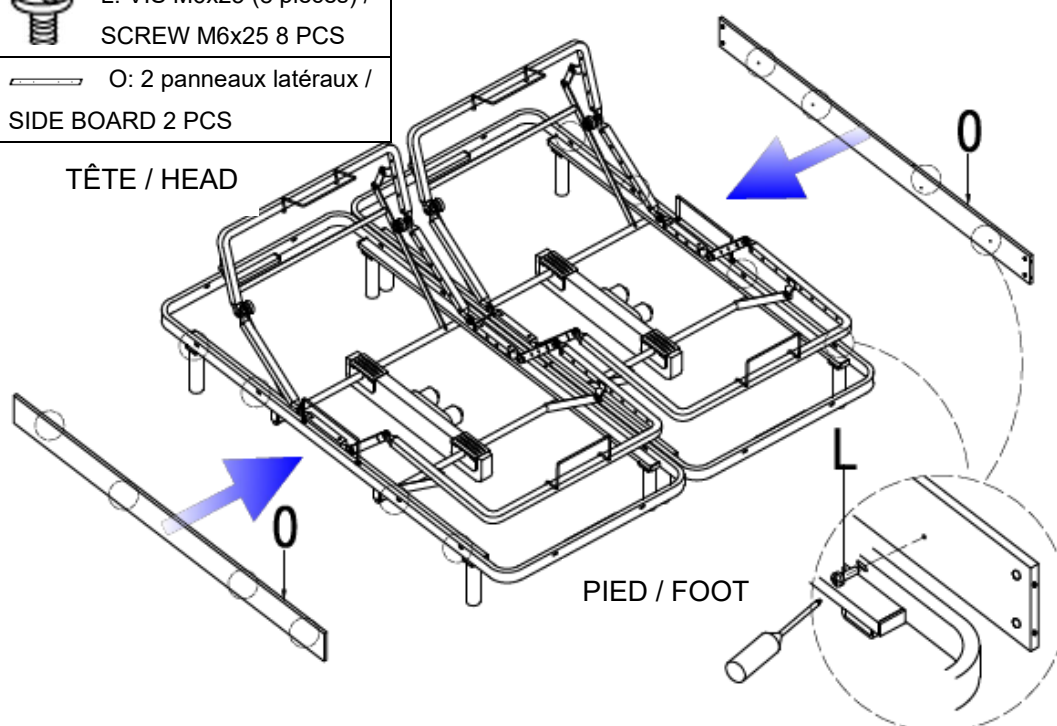
TÊTE / HEAD



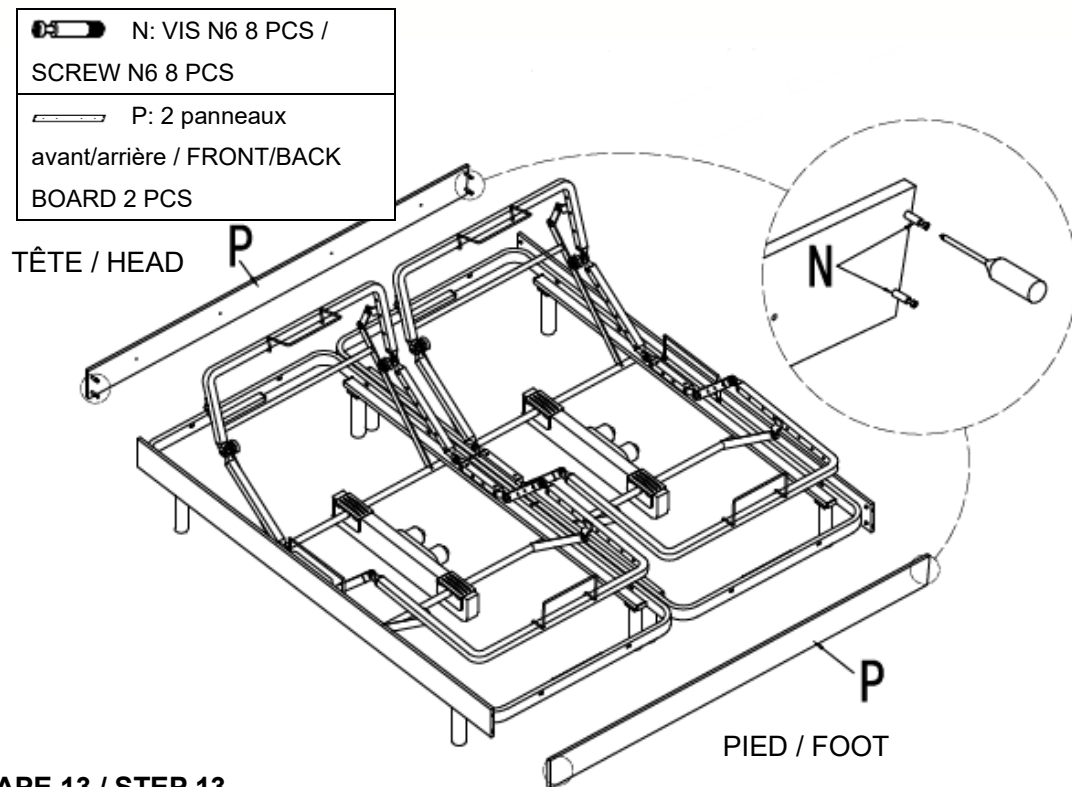
ÉTAPE 11 / STEP 11

	L: VIS M6x25 (8 pièces) / SCREW M6x25 8 PCS
	O: 2 panneaux latéraux / SIDE BOARD 2 PCS

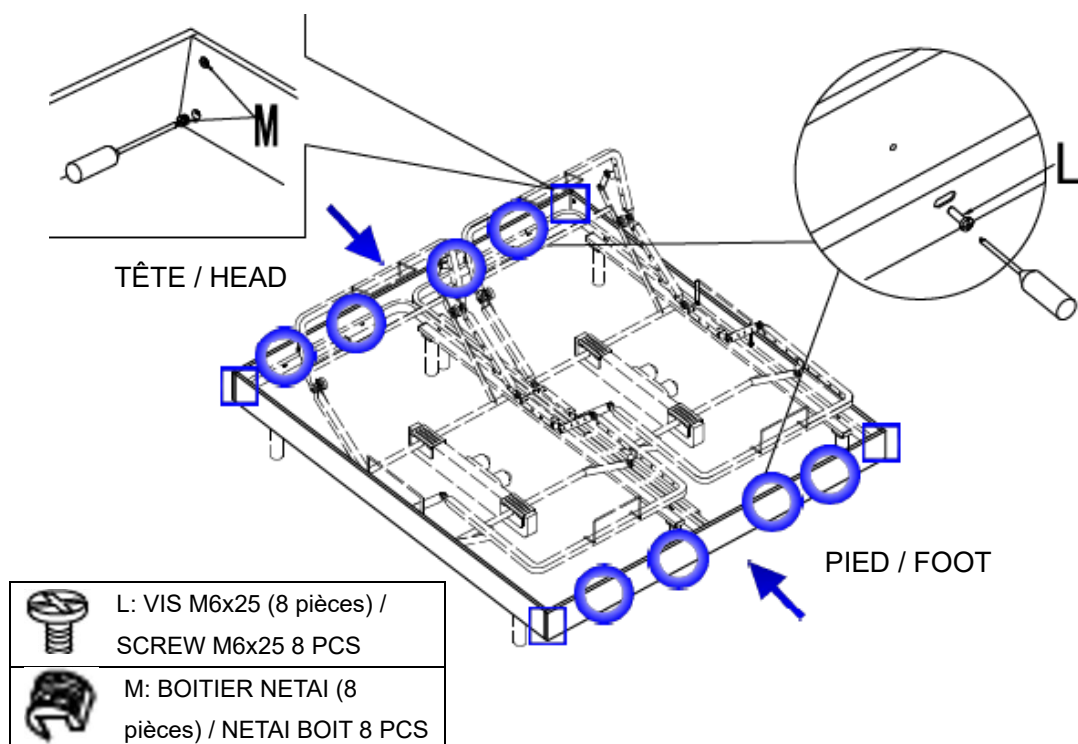
TÊTE / HEAD



ÉTAPE 12 / STEP 12



ÉTAPE 13 / STEP 13



FINITION / FINISH

Entretien et maintenance:

Dépoussiérer régulièrement avec un chiffon sec.

Nettoyer avec du liquide vaisselle et essuyer avec un chiffon humide.

Ne pas utiliser le produit si l'un des éléments semble endommagé, brisé ou manque.

Eviter de placer ce produit à proximité de feu ouvert et d'autres sources de forte chaleur telle qu'un radiateur.

Care and maintenance:

Remove dust regularly with a dry cloth.

Clean with dishwashing liquid and wipe with a damp cloth.

Do not use the product if any part appears damaged, broken or missing.

Be aware of the risk of open fire and other sources of strong heat, such as electric heaters, in the vicinity of the product.

Pflege und Wartung:

Entfernen Sie den Staub regelmäßig mit einem trockenen Tuch.

Reinigen Sie mit Spülmittel und wischen Sie mit einem feuchten Tuch.

Verwenden Sie das Produkt nicht, wenn Teile beschädigt, defekt sind oder fehlen.

Achten Sie auf die Gefahr von Feuer und anderen starken Wärmequellen in der Nähe des Produkts, wie elektrische Heizkörper.

Cuidado y mantenimiento:

Quite el polvo periódicamente con un paño seco.

Limpiar con líquido para lavar platos y limpie con un paño húmedo.

No utilice el producto si alguna de las piezas está dañada, rota o falta.

Conozca los riesgos de un fuego y de otras fuentes de calor fuerte, como los calefactores eléctricos, en las proximidades del producto.

Cura e manutenzione:

Rimuovere la polvere regolarmente con un panno asciutto.

Pulire con detersivo per piatti e asciugare con un panno umido.

Non utilizzare il prodotto se una parte risulta danneggiata, rotta o mancante.

Essere consapevoli del rischio rappresentato da un camino e da altre fonti di forte calore, come riscaldatori elettrici, in prossimità del prodotto.

Onderhoud en reiniging:

Verwijder regelmatig enigerlei stof met een droge doek.

Reinig met afwasmiddel en veeg af met een vochtig doekje.

Gebruik het product niet als enigerlei onderdelen beschadigd lijken, gebroken zijn of ontbreken.

Houd rekening met de risico's van open vuur en andere krachtige hittebronnen, zoals elektrische verwarmingen, in de buurt van het product.

Cuidado e manutenção:

Remova frequentemente a poeira com um pano seco.

Limpe com detergente da loiça e um pano humedecido.

Não utilize o produto se alguma peça parecer danificada, partida ou em falta.

Tenha em atenção o risco de chama viva e de outras fontes de calor forte, como aquecedores elétricos, perto do

produto.

Opieka i utrzymanie:

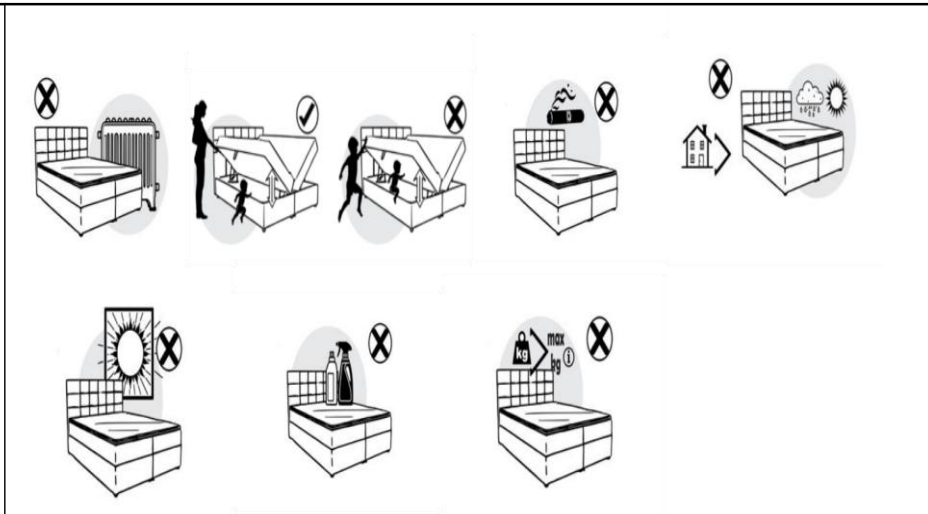
Regularnie usuwaj kurz suchą szmatką.

Wyczyść płynem do mycia naczyń i wytrzyj wilgotną szmatką.

Nie używaj produktu, jeśli jakakolwiek część wygląda na uszkodzoną, zepsutą lub brakującą.

Należy pamiętać o ryzyku otwartego ognia i innych źródeł silnego ciepła, takich jak grzejniki elektryczne, w pobliżu produktu

INSTRUCTIONS DE SÉCURITÉ ET D'UTILISATION DU LIT

EN - BED SAFETY AND USE INSTRUCTIONS GER- SICHERHEITS- UND GEBRAUCHSANWEISUNGEN FÜR DAS BETT ESP- INSTRUCCIONES DE USO Y SEGURIDAD DE LA CAMA POR- SEGURANÇA DA CAMA E INSTRUÇÕES DE UTILIZAÇÃO ITA- SICUREZZA DEL LETTO E ISTRUZIONI PER L'USO NED- BEDVEILIGHEID EN GEBRUIKSIJNSTRUCTIES POL- INSTRUKCJA BEZPIECZEŃSTWA I UŻYTKOWANIA ŁÓŻEK	
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La surface doit être nettoyée avec un chiffon humide ou avec des détergents dédiés. Les déversements doivent être éliminés immédiatement avec un tampon propre et sec pour absorber le liquide. Ne frottez pas, cela pourrait endommager le tissu. Des variations de couleur entre les surfaces nettoyées et non nettoyées peuvent apparaître. En cas de doute, contactez un professionnel pour effectuer le nettoyage.

Surface shall be cleaned with moist cloth or with dedicated detergents. Spills should be removed immediately with a clean and dry dabbing to absorb the liquid. Do not rub, it may damage the fabric. Variations in color between the surfaces cleaned and uncleaned might appear. If in doubt, contact a professional to carry out cleaning.

Die Oberfläche muss mit einem feuchten Tuch oder speziellen Reinigungsmitteln gereinigt werden. Verschüttete Flüssigkeiten sollten sofort mit einem sauberen und trockenen Tupfer entfernt werden, um die Flüssigkeit aufzusaugen. Nicht reiben, da dies den Stoff beschädigen könnte. Es kann zu Farbabweichungen zwischen gereinigter und ungereinigter Oberfläche kommen. Wenden Sie sich im Zweifelsfall an einen Fachmann, um die Reinigung durchführen zu lassen.

La superficie se limpiará con un paño húmedo o con detergentes específicos. Los derrames deben eliminarse inmediatamente con un paño limpio y seco para absorber el líquido. No frotar, puede dañar la tela. Pueden aparecer variaciones de color entre las superficies limpiadas y sin limpiar. En caso de duda contacta con un profesional para realizar la limpieza.

A superfície deve ser limpa com pano úmido ou com detergentes específicos. Os derramamentos devem ser removidos imediatamente com um pano limpo e seco para absorver o líquido. Não esfregue, pode danificar o tecido. Podem aparecer variações de cor entre as superfícies limpas e não limpas. Em caso de dúvida, procure um profissional para realizar a limpeza.

La superficie dovrà essere pulita con un panno umido o con detergenti dedicati. Le fuoriuscite devono essere rimosse immediatamente con un panno pulito e asciutto per assorbire il liquido. Non strofinare, potrebbe danneggiare il tessuto. Potrebbero apparire variazioni di colore tra le superfici pulite e quelle non pulite. In caso di dubbi, rivolgersi ad un professionista per effettuare la pulizia.

Het oppervlak moet worden gereinigd met een vochtige doek of met speciale reinigingsmiddelen. Gemorste vloeistoffen moeten onmiddellijk worden verwijderd door schoon en droog te deppen om de vloeistof te absorberen. Niet wrijven, dit kan de stof beschadigen. Er kunnen kleurvariaties optreden tussen de gereinigde en ongereinigde oppervlakken. Neem bij twijfel contact op met een professional om de reiniging uit te voeren.

Powierzchnię należy czyścić wilgotną szmatką lub specjalnymi detergentami. Rozlane ciecze należy natychmiast usunąć czystym i suchym przetrarciem, aby wchłoniąć płyn. Nie trzyj, może to spowodować uszkodzenie tkaniny. Mogą pojawić się różnice w kolorze pomiędzy powierzchniami oczyszczonymi i nieoczyszczonymi. W razie wątpliwości należy skontaktować się ze specjalistą w celu przeprowadzenia czyszczenia.



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Made in China / Fabriqué en Chine

FR Description du produit

EN Product description

ES Descripción del producto

DE Produktbeschreibung

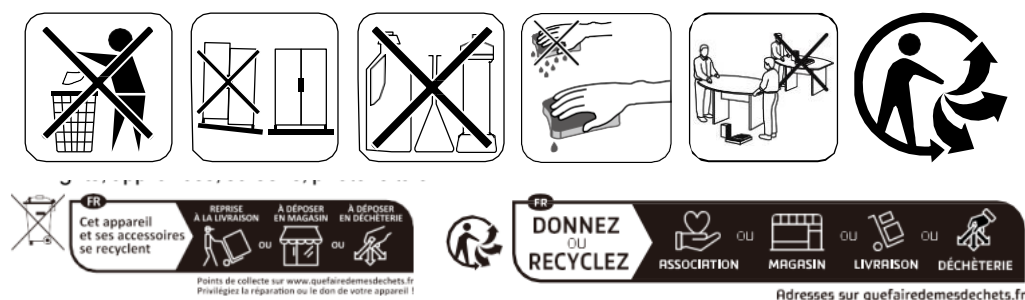
IT Descrizione del prodotto

NL Productomschrijving

PT Descrição do produto

PL Opis produktu

Matelas



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Français (FR)

Lisez attentivement cette notice avant d'utiliser le matelas.

- Conservez cette notice pour référence future.
- Ne laissez pas les sacs en plastique à portée des enfants. Risque d'étouffement.
- Déballez le matelas dans une pièce bien ventilée.
- Respecter le temps de décompression de 72 heures avant utilisation.
- Déployez le matelas sur une surface plane et propre.
- Assurez-vous que le matelas soit correctement positionné sur le support recommandé.
- Ne placez pas le matelas près d'une flamme ouverte ou d'une source de chaleur.

English (EN)

Read this manual carefully before using the mattress.

- Keep this manual for future reference.
- Do not leave plastic bags within the reach of children. Risk of suffocation.
- Unpack the mattress in a well-ventilated room.
- Allow 72 hours for decompression before use.
- Place the mattress on a clean, flat surface.
- Ensure the mattress is properly positioned on the recommended support.
- Do not place the mattress near an open flame or heat source.

Deutsch (DE)

Lesen Sie diese Anleitung sorgfältig durch, bevor Sie die Matratze verwenden.

- Bewahren Sie diese Anleitung für zukünftige Referenz auf.
- Plastiktüten nicht in Reichweite von Kindern lassen. Erstickungsgefahr.
- Packen Sie die Matratze in einem gut belüfteten Raum aus.
- Lassen Sie die Matratze 72 Stunden zur Entfaltung ruhen, bevor Sie sie verwenden.
- Legen Sie die Matratze auf eine saubere, ebene Fläche.
- Stellen Sie sicher, dass die Matratze korrekt auf der empfohlenen Unterlage positioniert ist.
- Platzieren Sie die Matratze nicht in der Nähe von offenen Flammen oder Wärmequellen.

Italiano (IT)

Leggere attentamente queste istruzioni prima di utilizzare il materasso.

- Conservare queste istruzioni per riferimento futuro.
- Non lasciare i sacchetti di plastica alla portata dei bambini. Rischio di soffocamento.
- Disimballare il materasso in una stanza ben ventilata.
- Attendere 72 ore per la decompressione prima dell'uso.
- Posizionare il materasso su una superficie piana e pulita.
- Assicurarsi che il materasso sia correttamente posizionato sul supporto raccomandato.
- Non posizionare il materasso vicino a fiamme libere o fonti di calore.

Español (ES)

Lea atentamente este manual antes de usar el colchón.

- Conserve este manual para futuras consultas.
- No deje bolsas de plástico al alcance de los niños. Riesgo de asfixia.
- Desempaque el colchón en una habitación bien ventilada.
- Espere 72 horas para que el colchón se descomprima antes de usarlo.
- Coloque el colchón sobre una superficie limpia y plana.
- Asegúrese de que el colchón esté correctamente colocado sobre el soporte recomendado.

- No coloque el colchón cerca de llamas abiertas o fuentes de calor.

Português (PT)

Leia atentamente este manual antes de usar o colchão.

- Guarde este manual para referência futura.
- Não deixe sacos plásticos ao alcance de crianças. Risco de asfixia.
- Desembale o colchão em um local bem ventilado.
- Aguarde 72 horas para a descompressão antes de usar.
- Coloque o colchão sobre uma superfície limpa e plana.
- Certifique-se de que o colchão esteja corretamente posicionado no suporte recomendado.
- Não coloque o colchão próximo a chamas abertas ou fontes de calor.

Polski (PL)

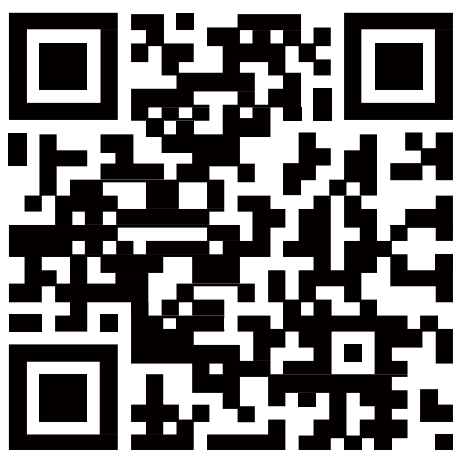
Przeczytaj uważnie tę instrukcję przed użyciem materaca.

- Zachowaj tę instrukcję na przyszłość.
- Nie pozostawiaj plastikowych toreb w zasięgu dzieci. Ryzyko uduszenia.
- Rozpakuj materac w dobrze wentylowanym pomieszczeniu.
- Oczekaj 72 godziny na pełne rozłożenie przed użyciem.
- Umieść materac na czystej i płaskiej powierzchni.
- Upewnij się, że materac jest prawidłowo umieszczony na zalecanym podparciu.
- Nie umieszczaj materaca w pobliżu otwartego ognia ani źródeł ciepła.

Nederlands (NL)

Lees deze handleiding zorgvuldig door voordat u de matras gebruikt.

- Bewaar deze handleiding voor toekomstig gebruik.
- Laat plastic zakken niet binnen het bereik van kinderen. Verstikkingsgevaar.
- Pak de matras uit in een goed geventileerde ruimte.
- Laat de matras 72 uur decomprimeren voordat u deze gebruikt.
- Leg de matras op een schone, vlakke ondergrond.
- Zorg ervoor dat de matras correct is geplaatst op het aanbevolen ondersteuningssysteem.
- Plaats de matras niet in de buurt van een open vlam of warmtebron.



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