

Assembly Instructions

Tonale Power 201 - 281



resource

WARNING

READ CAREFULLY BEFORE BEGINNING INSTALLATION. IMPROPER INSTALLATION OF THE PRODUCT MAY CAUSE SERIOUS INJURY. KEEP THIS INFORMATION FOR FUTURE REFERENCE

-  Installation or any further adjustments must be performed by a licensed contractor or a trained professional, who will ensure proper assembly and installation.
-  Installation must be performed by at least 2 people.
-  Improper installation of this product can cause serious or fatal injury. Improper installation may result in permanent damage to the bed.
-  The wall bed must be secured to the wall in FOUR locations using appropriate hardware. The contractor or installer must select the proper anchoring hardware based on the wall material. It is necessary to ensure that wall anchors of the bed can withstand forces generated. The value of the holding power (Fh) of each anchor should be 630 Newtons (142 lbf).
-  All hardware must be properly tightened. No parts of the model should be left loose or unstable.
-  In case of re-assembly or re-installation of the product, DO NOT USE the same holes drilled for original installation. Rather, the anchors, plates and plugs selected by the re-installer must be placed in a different, secure position. Never remove wall attachment screws without first removing the mattress, bed frame and hydraulics/pistons.
-  It is the owners responsibility to periodically inspect the bed to make sure that the anchors are strong and show no signs of weakening (for example if you feel that the anchor screws are moving when pulling on the cabinet of the bed). Do not use the wall bed if the cabinet moves and do not open the bed if you are not sure that it is securely attached to the wall, because it could tip over causing serious injuries. When in doubt about the anchoring, please stop using the bed immediately and have it inspected by a professional.
-  It is recommended to assess the structural integrity of the floor and wall to make sure that the wall anchoring devices can withstand the forces generated. More specifically, before installing the wall bed, it is necessary to verify that the floor and the wall on which you want to install the bed are flat and have no structural damage that could affect the installation of the wall bed or its anchoring to the wall. Do not install the bed on weakened or rotten structures.

Warranties for all products purchased from Resource Furniture, LLC are only valid if the product has been properly assembled, Installed by a trained professional, and operated in accordance with the assembly instructions. Resource Furniture accepts no responsibility for any damage or injury caused by Improper Installation.

TONALE POWER OVERVIEW

GENERAL TECHNICAL INFORMATION

The Tonale Power Standard is a transforming system, with foldaway vertical double bed and patented slatted bed base CF09 and hinged opening and closing system. The linear actuators and gas springs are fully recessed in the side panels of the product thanks to a patented technology. This transformable piece of furniture can be ordered alone or paired with any of our modular boiserie panels, cabinets, or closets to create a unique storage wall, perfect for any study or guest room.

Bed base for version 167cm/65 3/4" wide: one-piece or split upon request (see price list).

Bed base for version 177cm/69 5/8" wide: always split.

Bed base only: 52 kg/115lbs

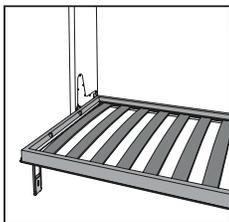
Bed base with front panels: 74 kg/163lbs

Mattress: cm 150x198x18/59"x78"x7" - weight range kg 29-33/64-73lbs ----

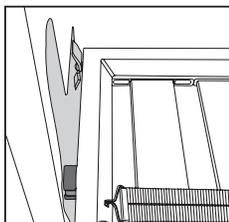
cm 160x198x18/63"x78"x7"- weight range kg 31-33/68-73lbs

Belts: nylon adjustable belts to hold mattress , with black nylon release buckles.

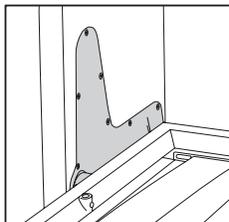
Maximum liftable load: (including mattress, covers set and pillows): kg 109/240lbs



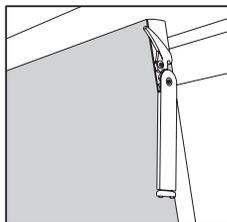
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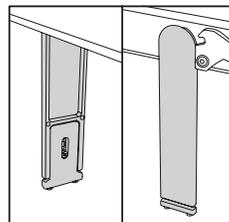
PIC.2



PIC.3



PIC.4



PIC.5A

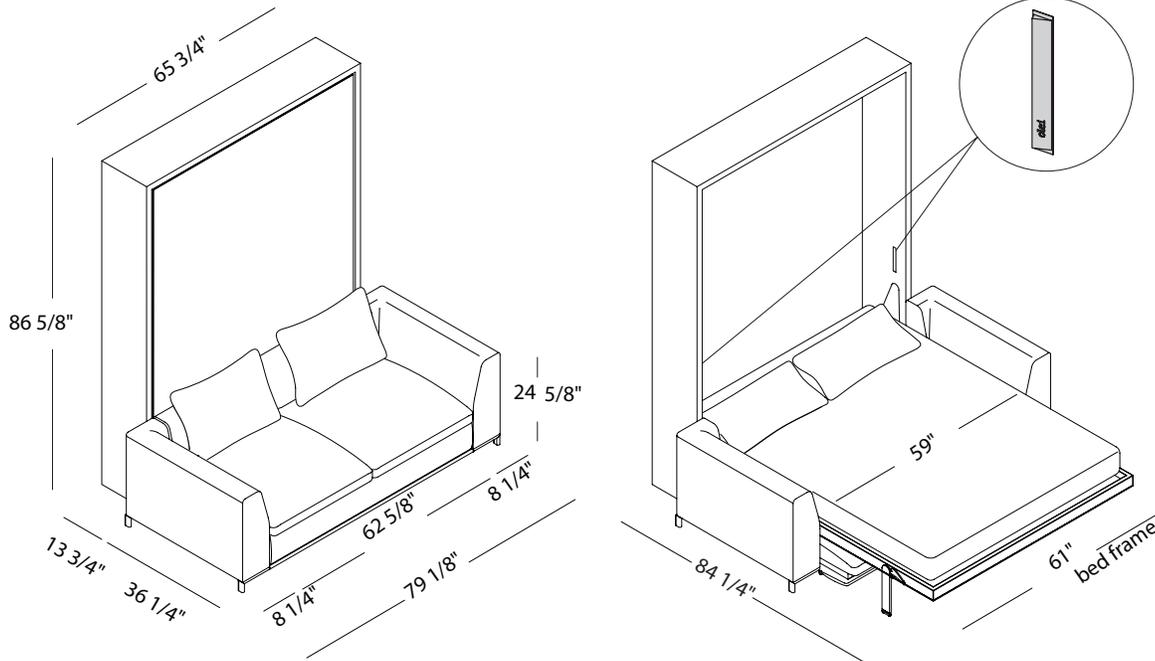
PIC.5B

TONALE POWER OVERVIEW

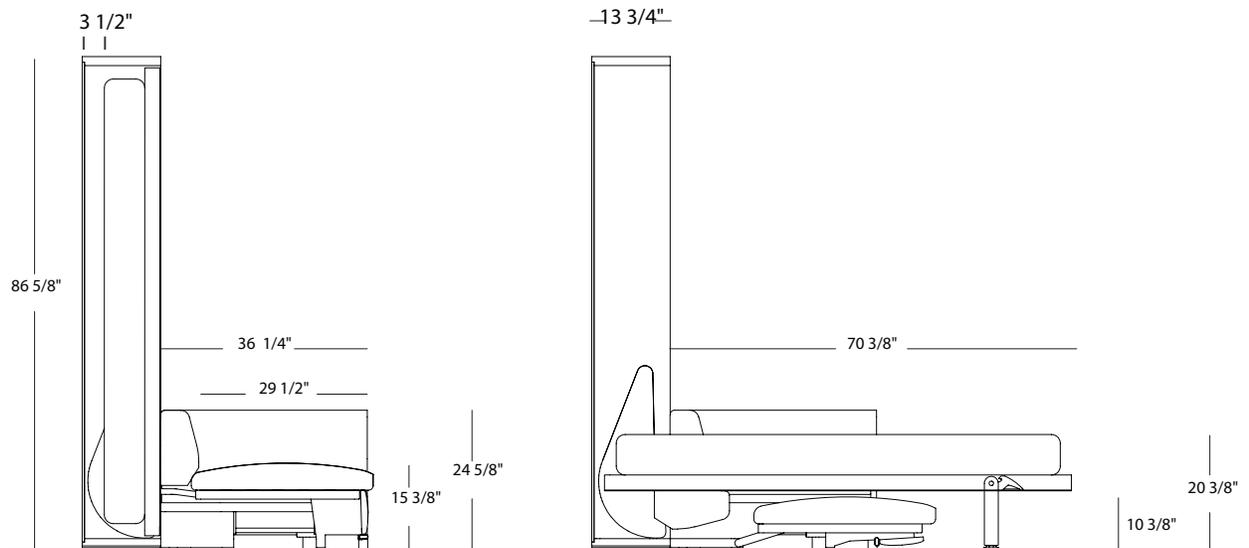
TONALE L.201

Axonometric view

Integrated LED lighting



Sezione / section



TONALE MATTRESS SPECIFICATIONS

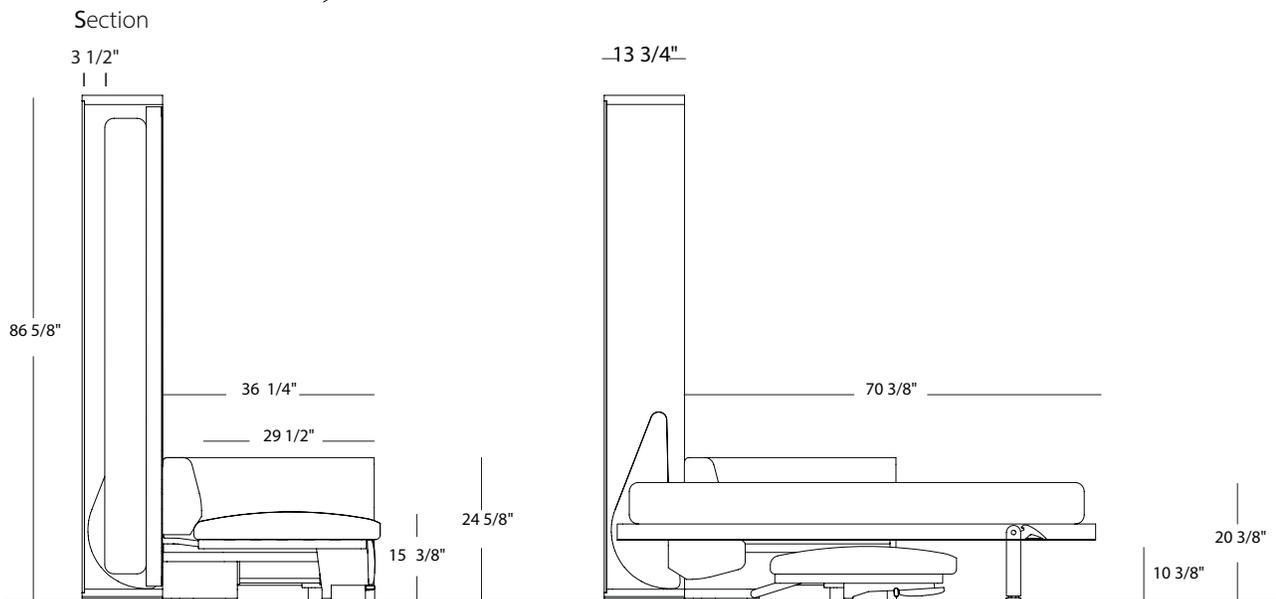
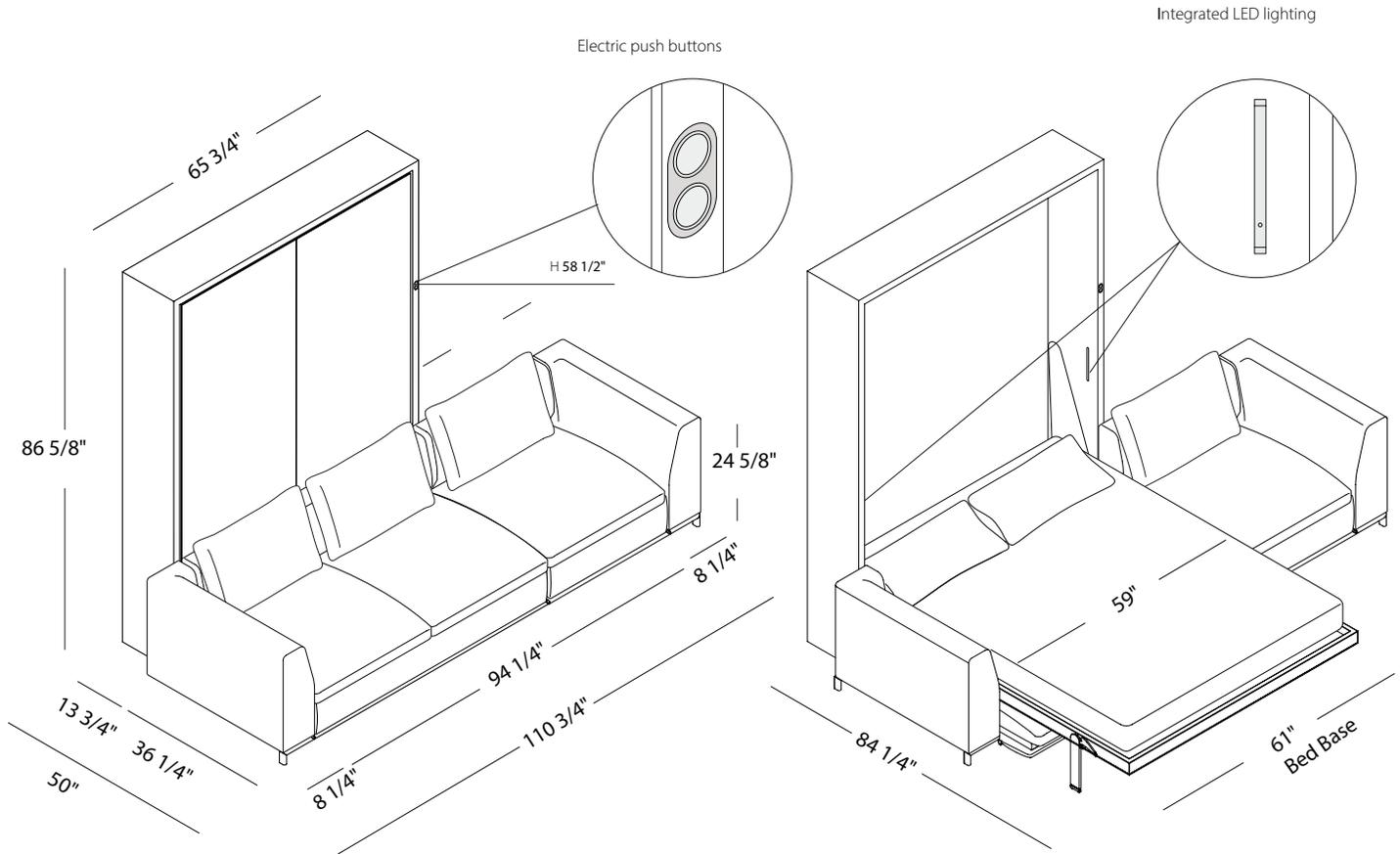
Recommended weight: ~ 64-74 lbs

Recommended dimensions: 78 3/4 x 59 x 7"

TONALE POWER OVERVIEW

TONALE L.281

Axonometric view



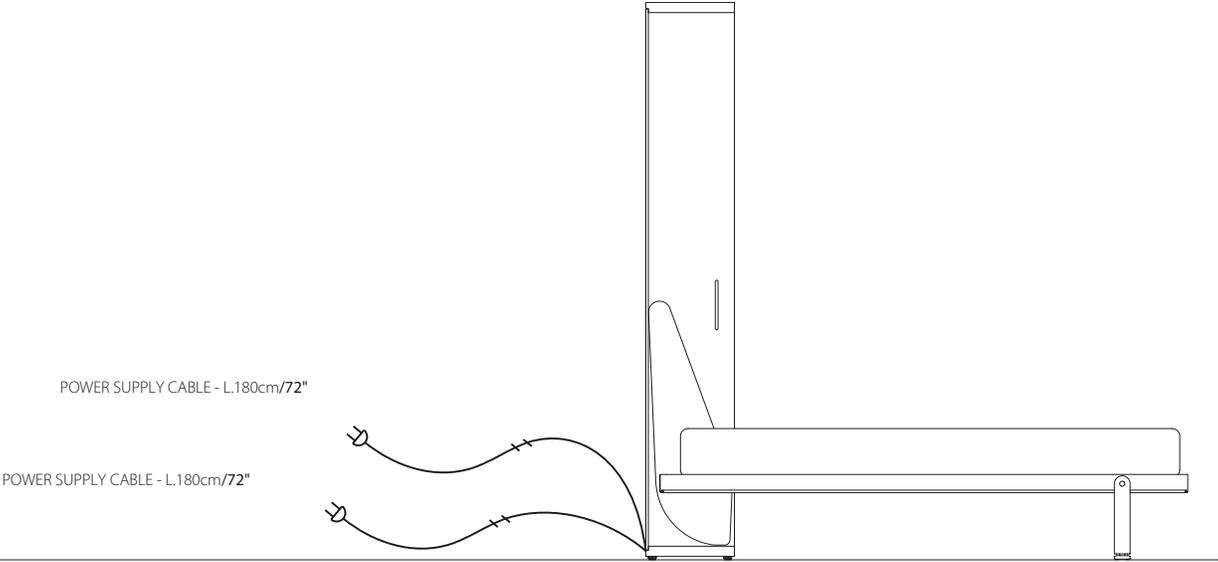
TONALE MATTRESS SPECIFICATIONS

Recommended weight: ~ 64-74 lbs

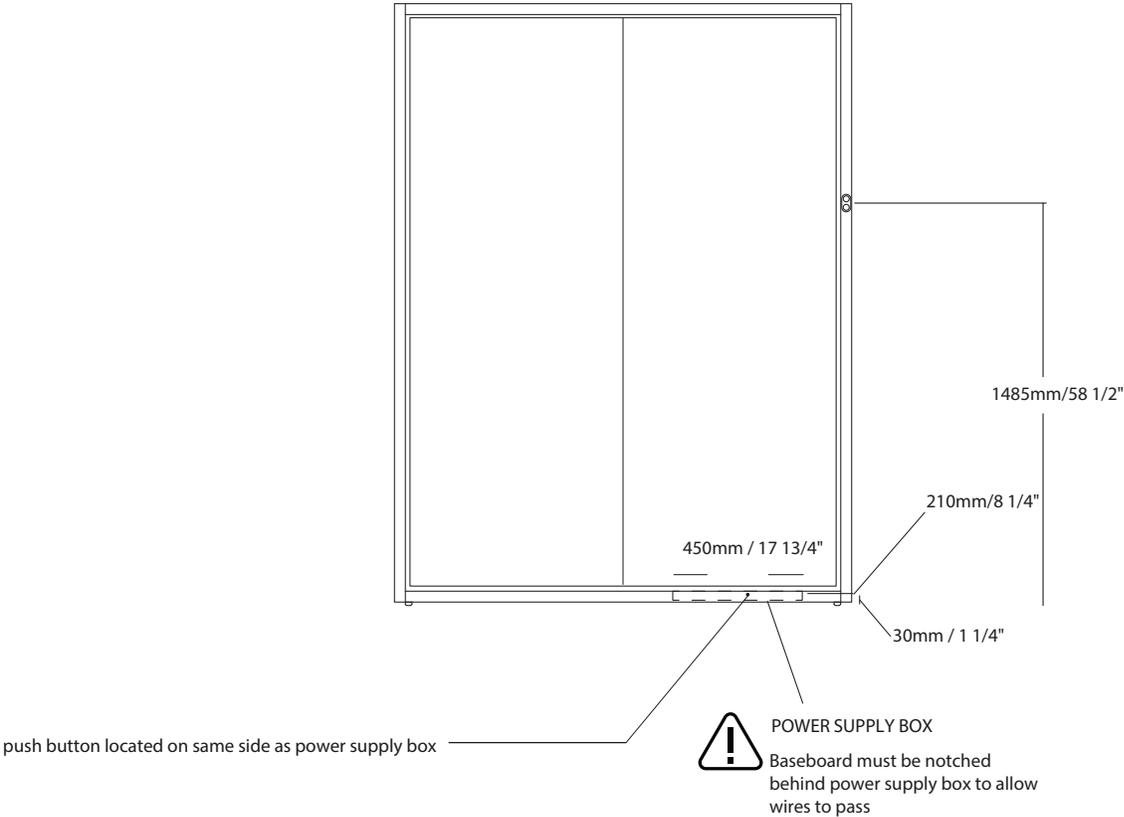
Recommended dimensions: 78 3/4 x 59 x 7"

TONALE POWER OVERVIEW

CABLE POSITION / SIDE VIEW



Front view



TONALE POWER OVERVIEW

MOTORIZATION POWER

The automatic opening and closing motion of the vertical bed base is carried out by two electric actuators, controlled by buttons placed on the side panel of the product.

In case of power failure, the bed **can be operated** manually.

Supplied voltage: 110-240V – AC 2A 50-60 Hz

Operating voltage: 24V DC

Standby consumption 0,3 W

LINEAR ACTUATORS

Level of protection IP 6K9K

CONTROL UNIT

Level of protection IP 20

Class of electrical protection III

DRIVER

Level of protection IP 30

Class of electrical protection II

Temperature during use between 0° and 50° C

Compliant RoHS

LED LIGHTING

Integrated in the side panel of the wall bed, with opaline polycarbonate cover, in compliance with EN62471 regulation, belonging to "risk free" category, maximum safety warranty with no limit.

LED 3000°k 1,43 W IP40 108/118 Lm/W EEC A+

Dimensions : mm W 12 x D 10 x H 200 / W 1/2" X D 3/8" X H 7 7/8"



WARNING PAGE PROVIDED BY MANUFACTURER

DO NOT OPEN AND CLOSE THE BED USING THE MOTORIZED FUNCTION WITHOUT THE MATTRESS PLACED ON THE BED BASE. ONLY OPERATE MANUALLY WITHOUT THE MATTRESS.



Before using the product, carefully read the instructions.

- Kids must be supervised while using the motorized function of the bed.
- Area under bed must be obstacle free.
- Do not open the bed using the motorized function without the mattress placed on the bed base as shown on page 28!
- The transforming system is provided with an obstacle detector device, which stops the motion when an obstruction is detected.
- The automatic opening and closing gets started by pressing the buttons on the side panel of the product.
- The bed opens by pressing the lower button once, and closes by pressing the upper button once.
- Pressing one of the two buttons during the automatic opening and closing will stop the motion immediately.
- The end of stroke detector is located on the bottom right of the right vertical panel.
- Do not activate the stroke detector manually because it could cause a disruption of the system.



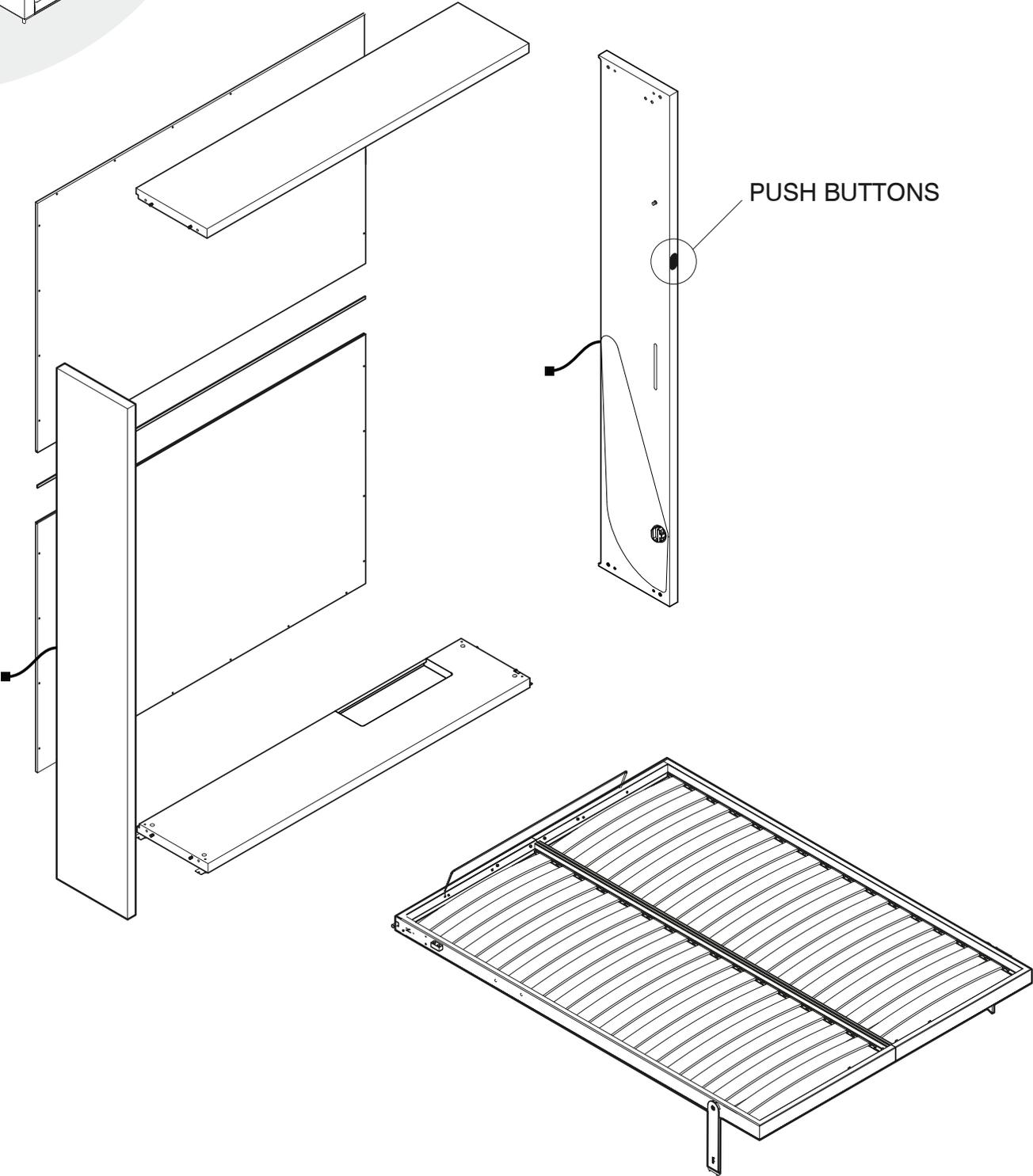
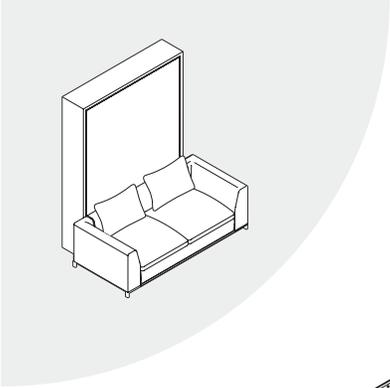
For the user's safety and to prevent overheating of the motors, the motorized function gets interrupted if:

- The buttons are pressed multiple times within a 45sec period.
- The bed is opened and closed 6 times in a 10min period. The system will go into safety mode and won't operate automatically for 15min.
- The load on the bed is too heavy for the motors to lift.
- Any kind of intervention for repairs and maintenance must be carried out when the system is disconnected from the power source, and by skilled operators.
- In case instability of the structure, strange noises or odor is detected, the system must be immediately disconnected from the power source, and must not be used.
- Possible defective components of the system must be replaced by original ones supplied by the manufacturer.
- The use of non-original components/ parts in replacement can constitute danger for the user, as well as causing damages to the product.
- For maintenance purposes, easy access to the power source is required.
- Power cables must be fastened and protected against damages caused by folding, flattening or sharp corners.
- In case of electric power failure, slowly open and close the bed manually.
- when opening and closing the bed manually, use slow, steady movements, do not rapidly open the bed or force close.

TONALE POWER TROUBLESHOOTING

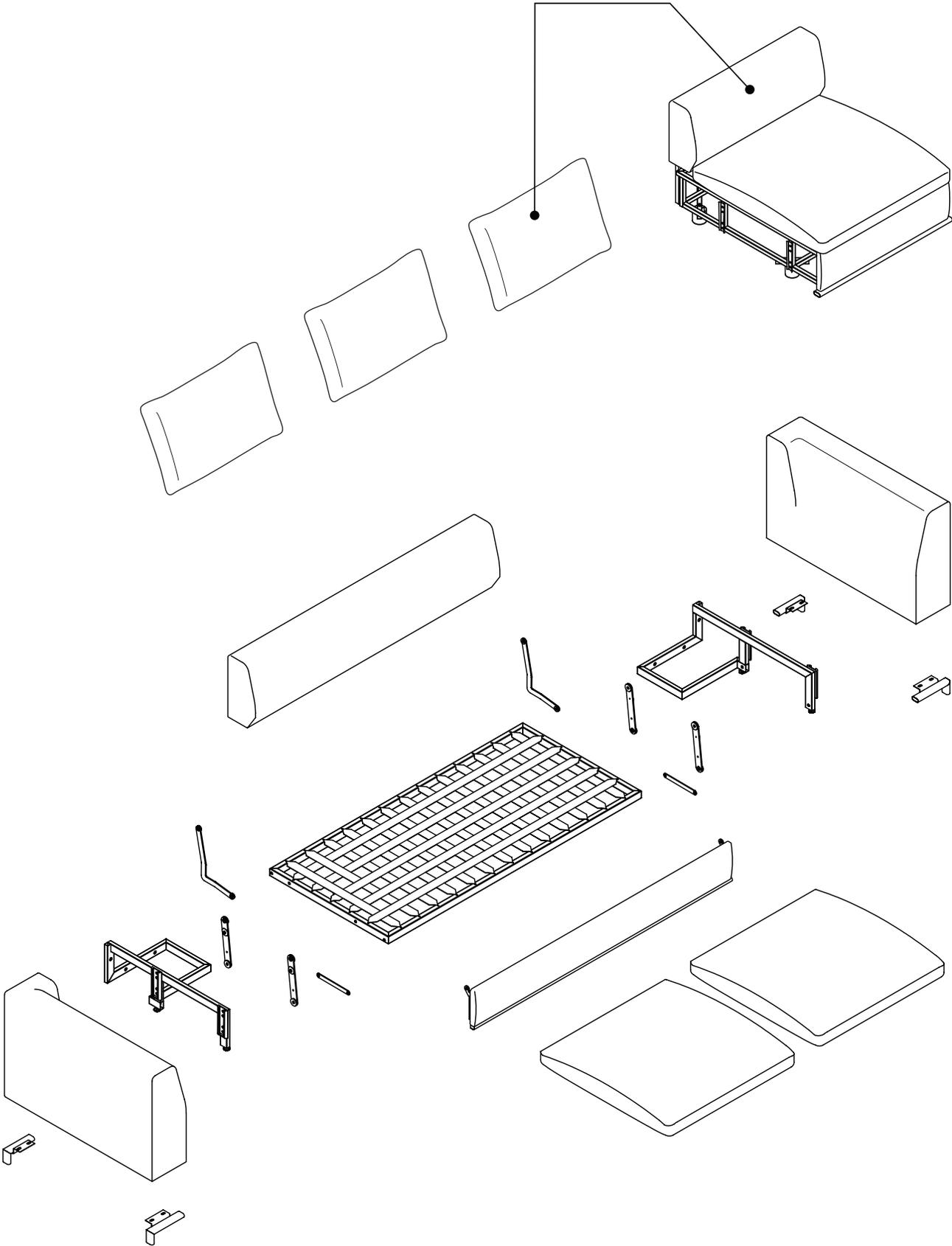
PROBLEM	POSSIBLE REASONS	SOLUTIONS
Error acoustic alarm by the control unit (1 tone).	The obstacle detector has detected an obstacle	Inspect the area and restart the movement once it is obstacle-free.
Error acoustic alarm by the control unit (2 tones).	Actuators are overloaded. The bed base may not be in vertical alignment when in the bed is closed.	Check the bed for areas of blockage or strains on the bed base.
Error acoustic alarm by the control unit (4 tones).	Wrong utilisation of the buttons.	Buttons can not be pushed longer than 20 seconds after the movement ends. In this case the driver needs to be disconnected from power supply for around 1 minute, and then reconnected.
	Button is defective.	Replace the button.
Error acoustic alarm by the control unit (5 tones) when the driver gets connected.	Wrong driver is used.	Use only the original driver.
	Driver is defective.	Replace the driver.
	Control unit is defective.	Replace the control unit.
Error acoustic alarm by the control unit (5 tones) during operating.	Control unit is defective.	Replace the control unit.
	Actuators are defective (Hall sensor system).	Replace the actuators.
Pushing the buttons, the actuators do not operate but a click from relay is heard.	Actuators are not connected.	Connect the actuators according to the assembly instructions.
	Actuators are defective.	Replace the actuators.
	Control units is defective.	Replace the control unit.
Pushing the buttons, the actuators do not operate and no click from relay is heard.	Buttons are not connected.	Connect the buttons according to the assembly instructions.
	Buttons are defective.	Replace the buttons.
	Control units is defective.	Replace the control unit.
No automatic movement after a frequent use of the buttons in a short time lapse.	Protection against playing is operating.	Wait 2 minutes until the automatic movement will be permitted.
No automatic movement.	Protection against overheating is operating.	Wait few minutes until the movement will be permitted. Check that all wires are properly connected.

TONALE POWER MAIN COMPONENTS

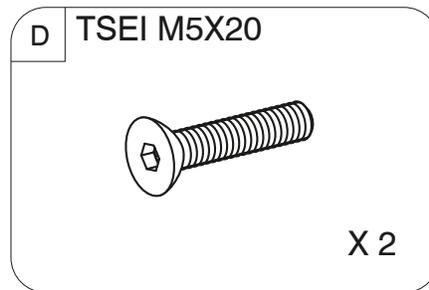
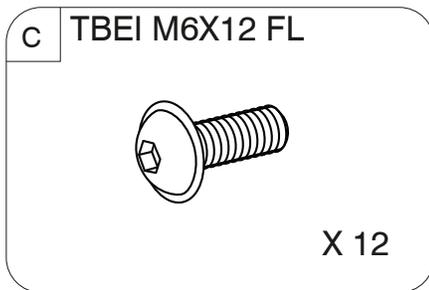
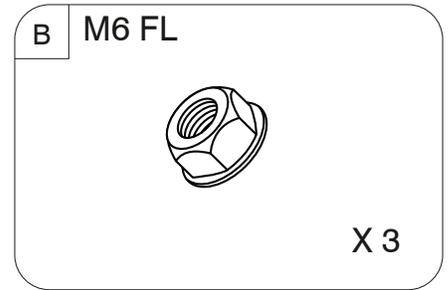
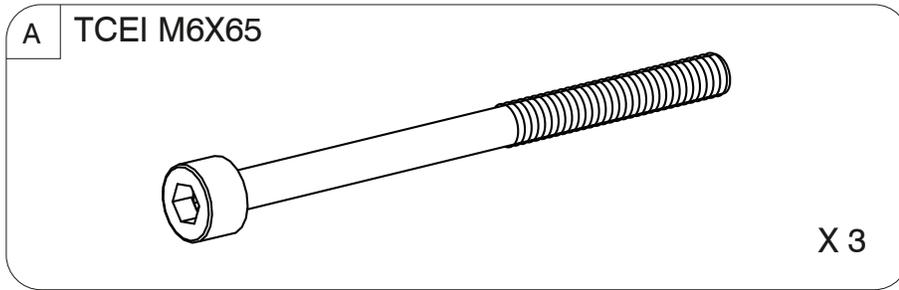


TONALE POWER MAIN COMPONENTS

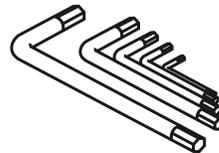
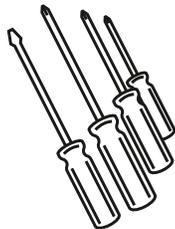
Only for TONALE 281



BED BASE ASSEMBLY



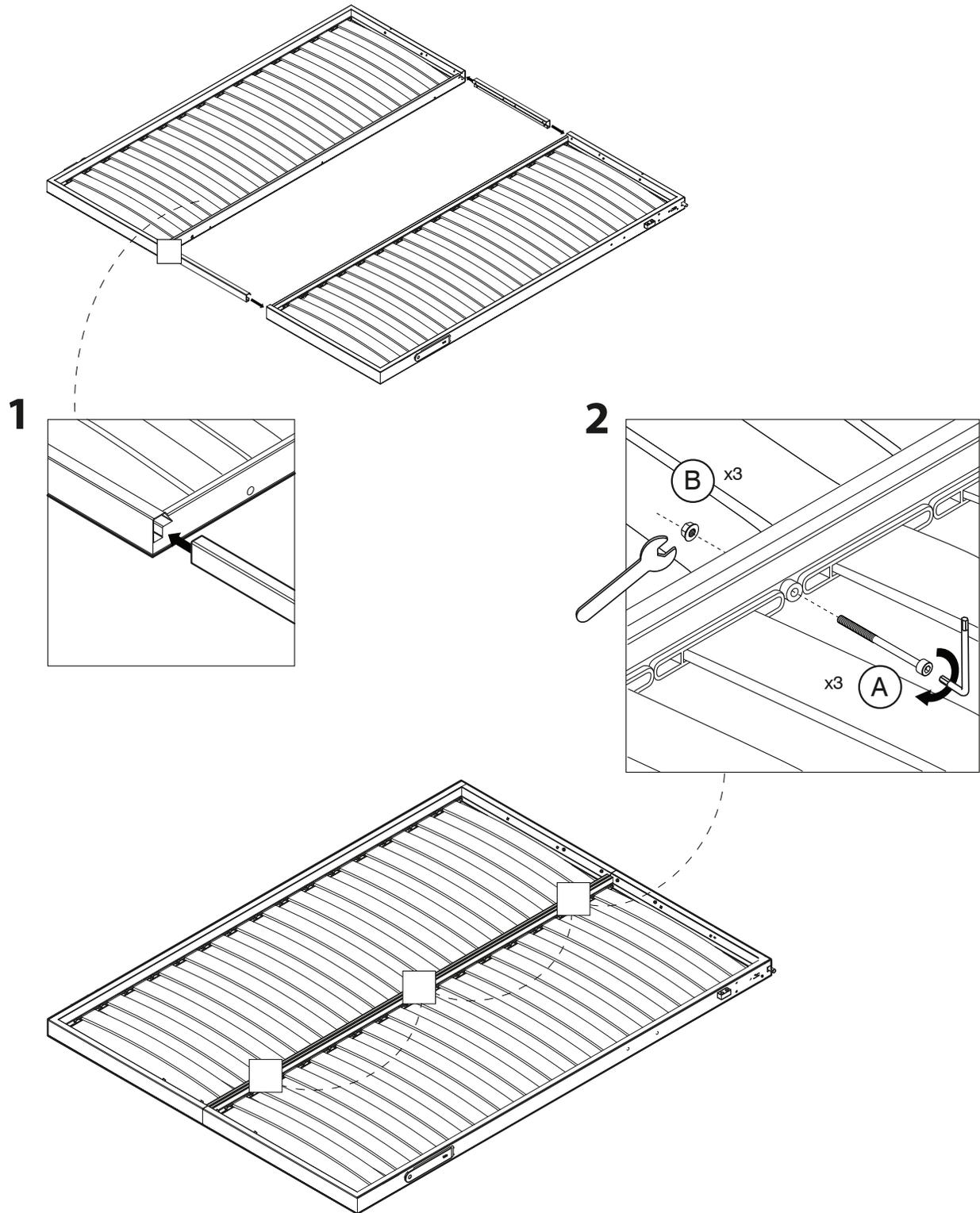
TONALE POWER TOOLS



2 PEOPLE REQUIRED

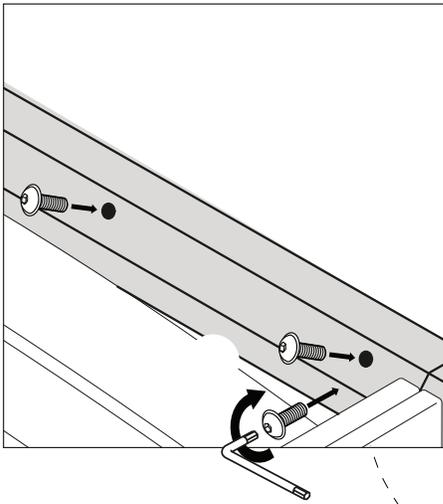


BED BASE ASSEMBLY

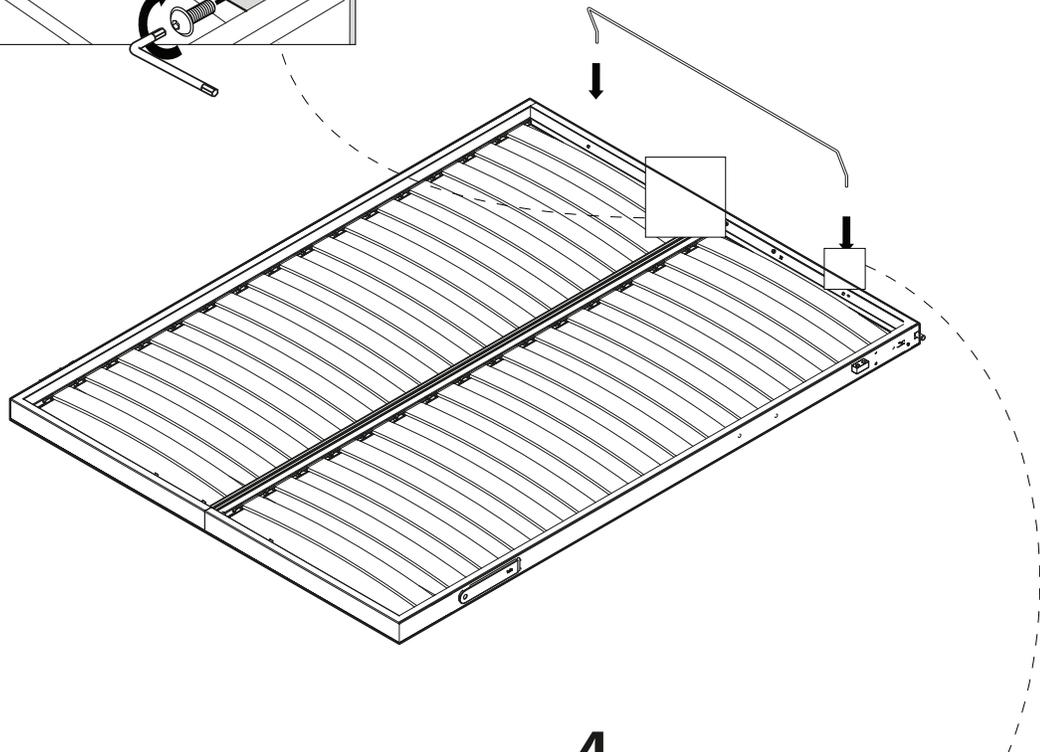


BED BASE ASSEMBLY - MATTRESS BAR

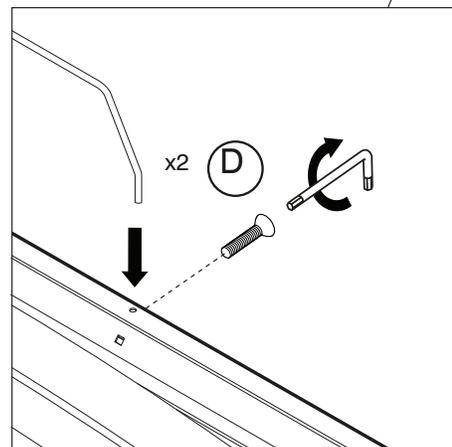
3



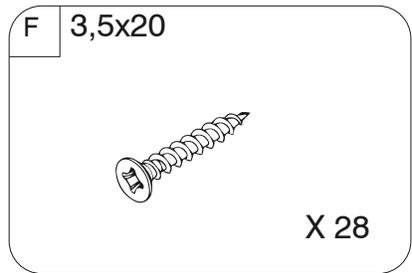
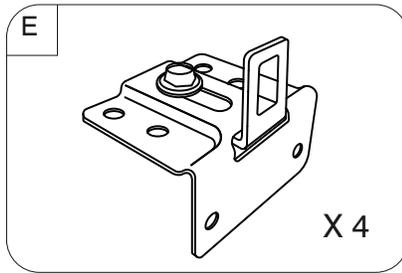
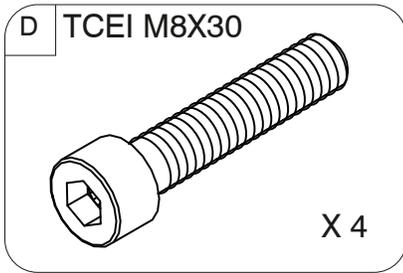
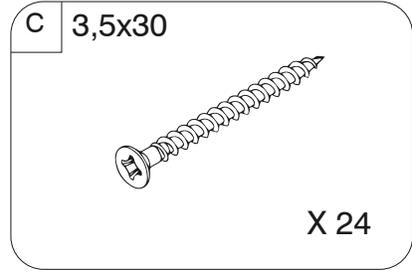
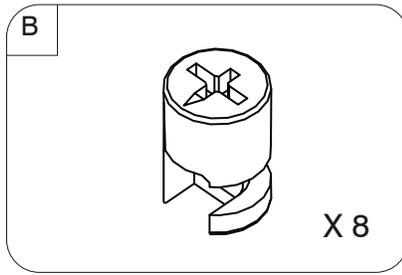
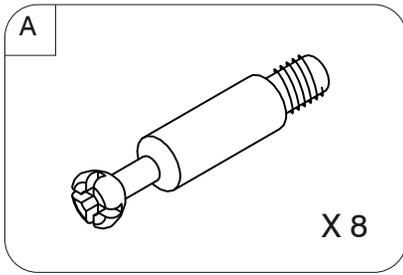
Mattress bar must be installed before the bed base is inserted into the structure.



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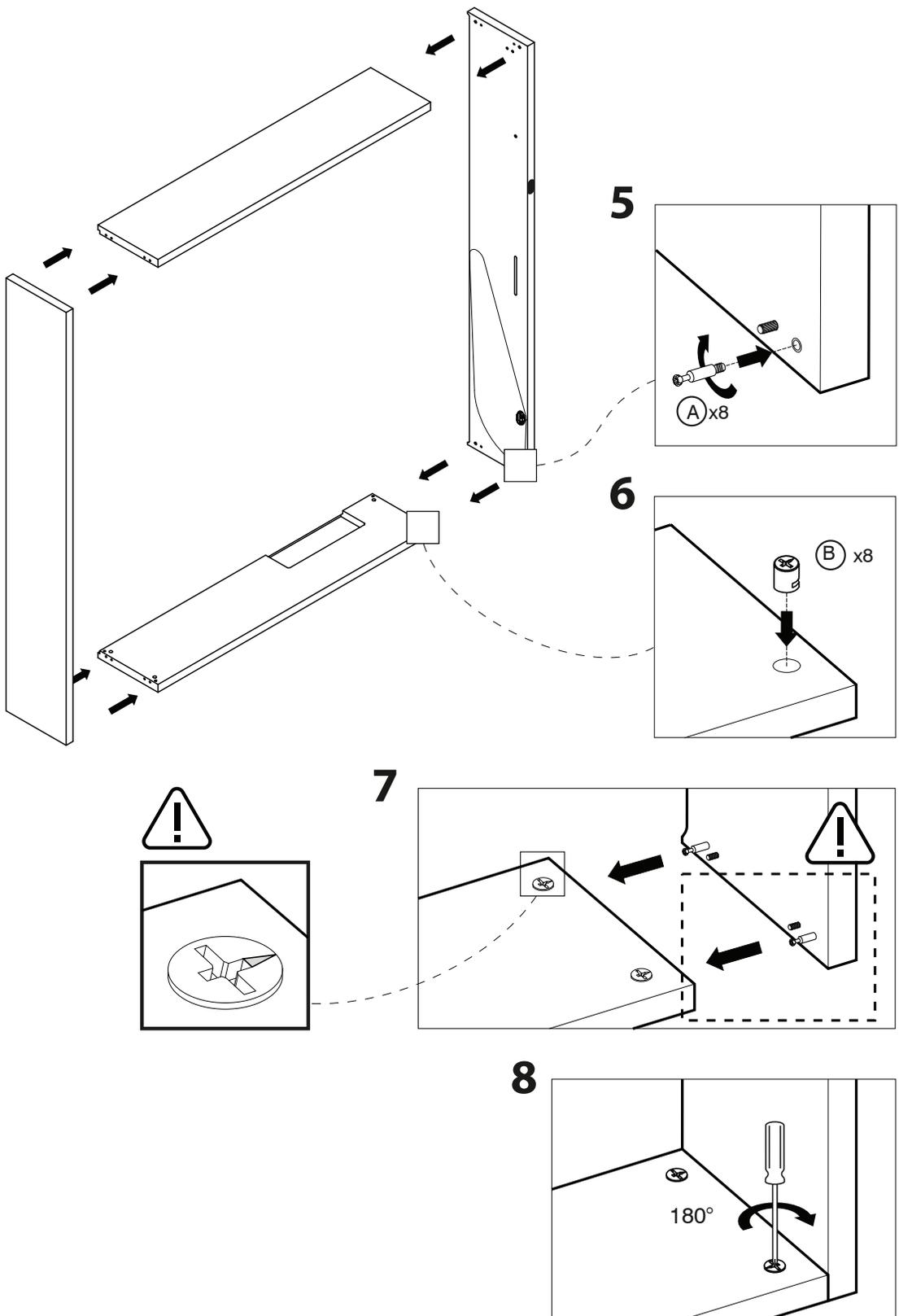


STRUCTURE ASSEMBLY



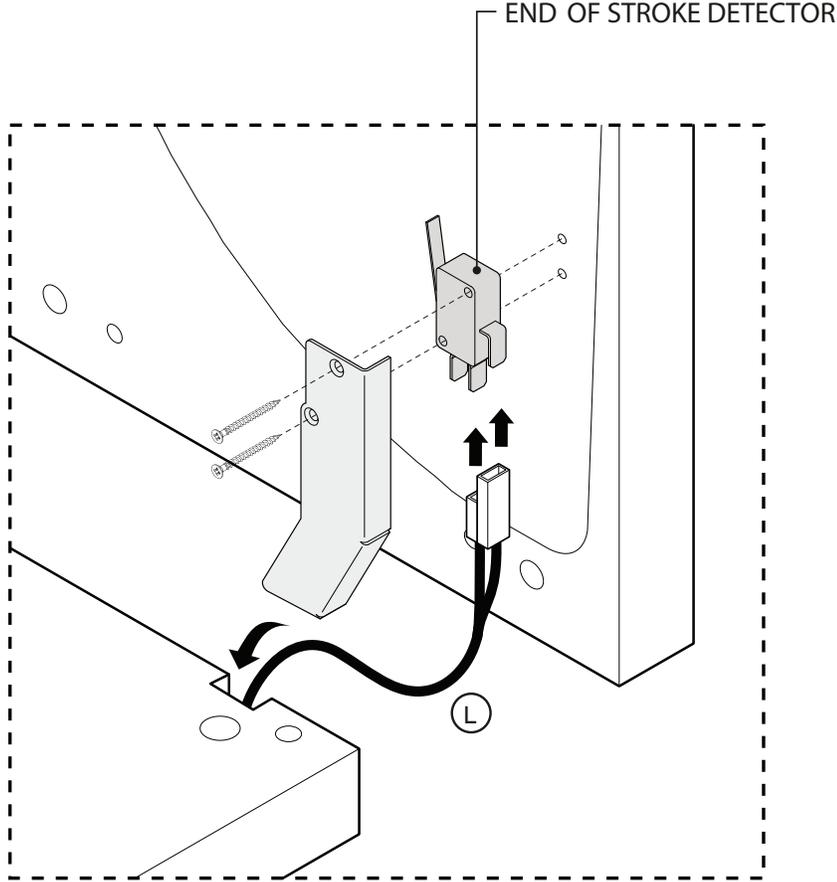
2 PEOPLE REQUIRED

STRUCTURE ASSEMBLY



STRUCTURE ASSEMBLY

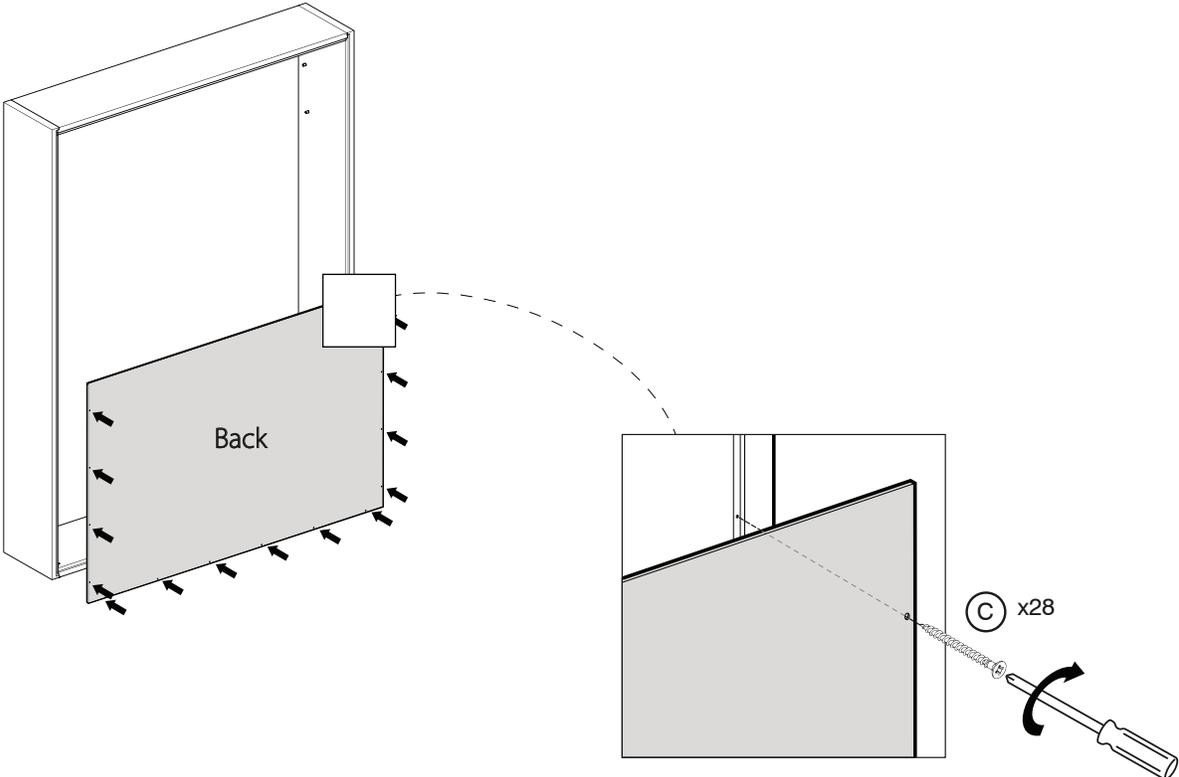
7.1



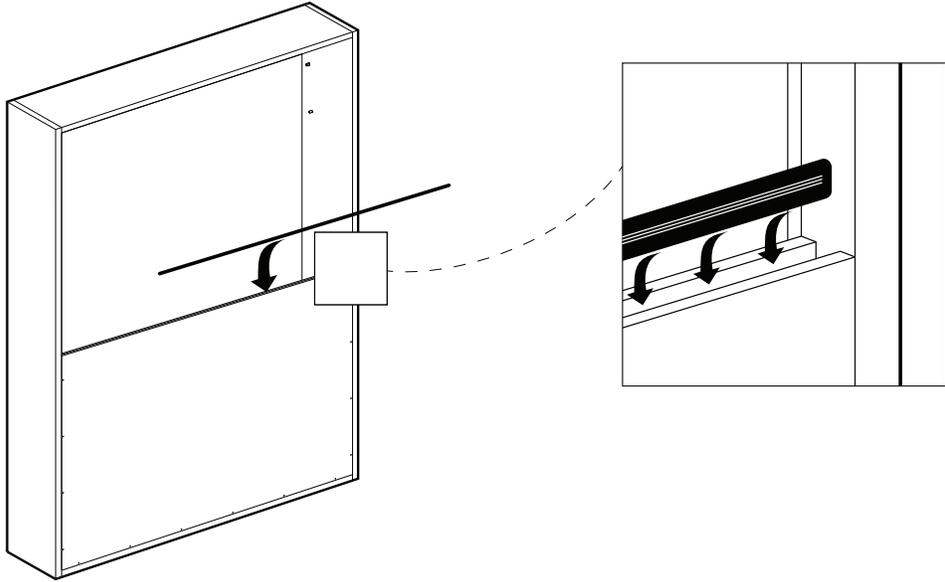
Connect the cable to the end of stroke detector

STRUCTURE ASSEMBLY

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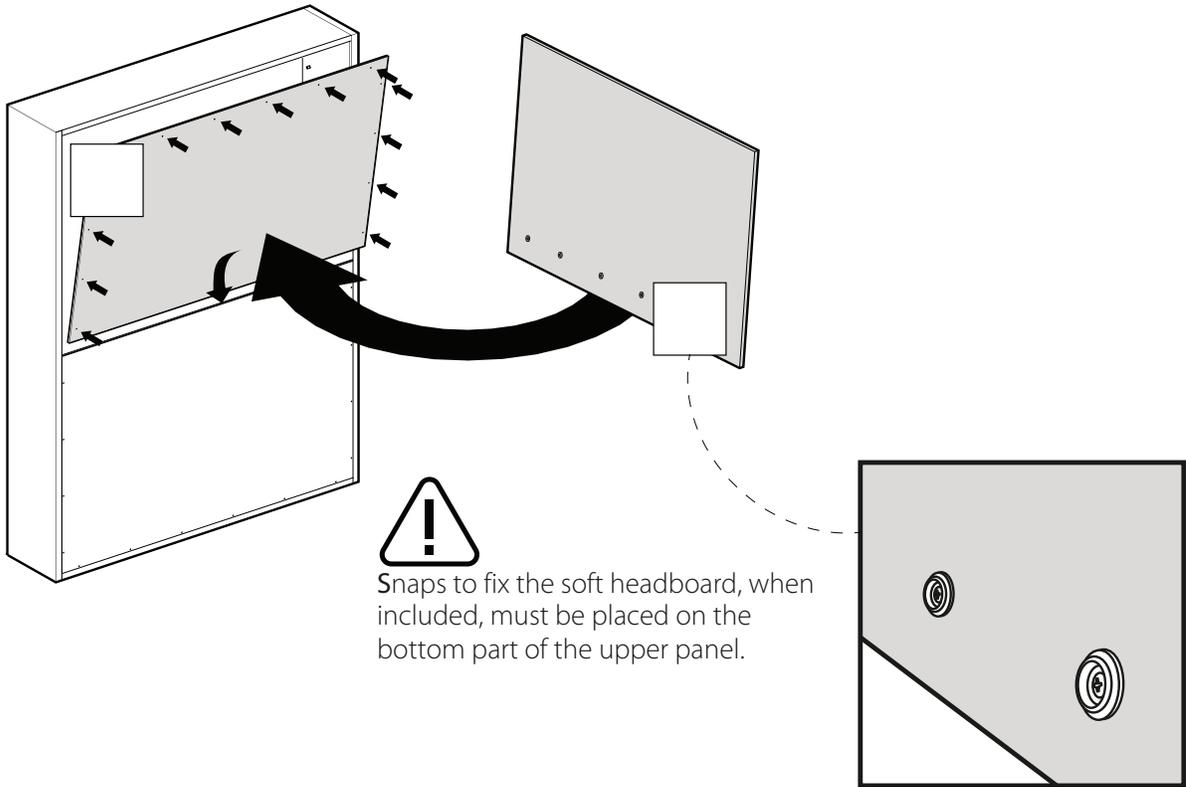


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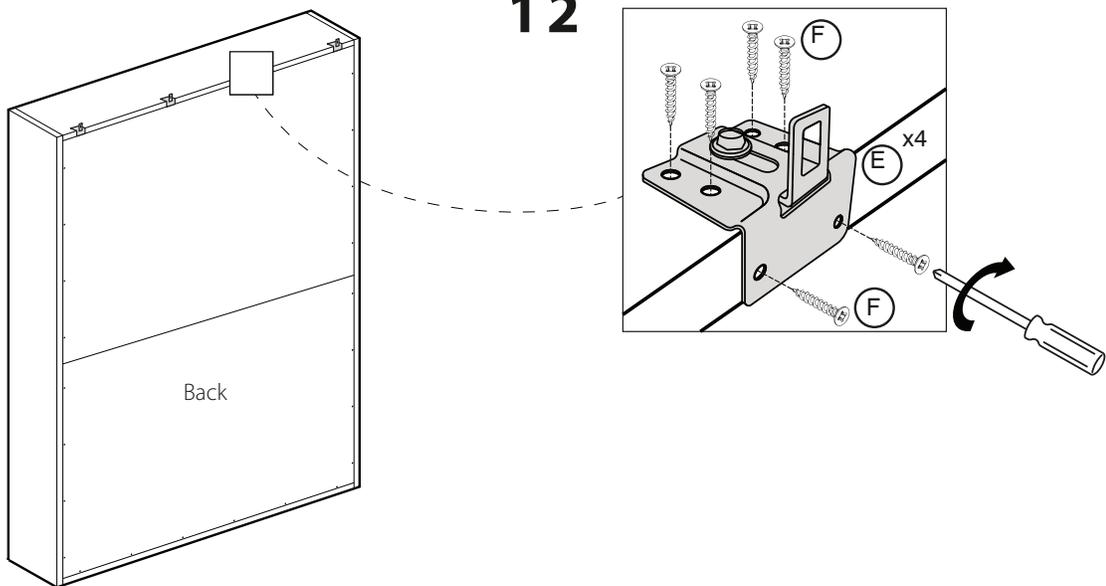


STRUCTURE ASSEMBLY

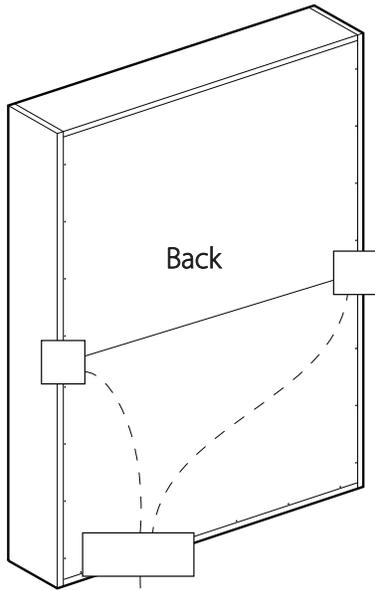
11



12

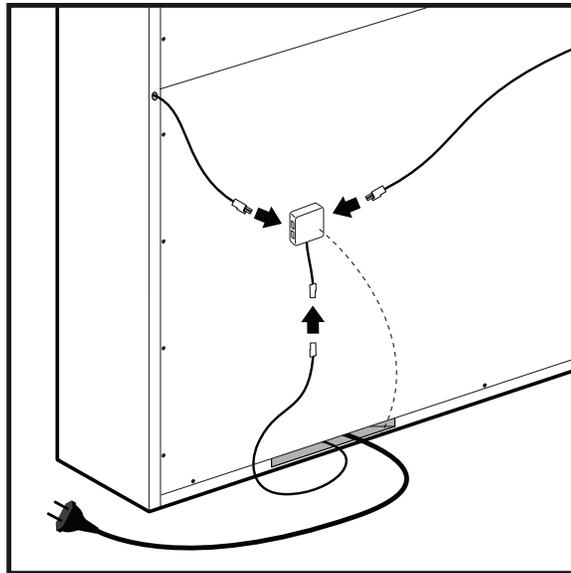


ELECTRICAL COMPONENTS



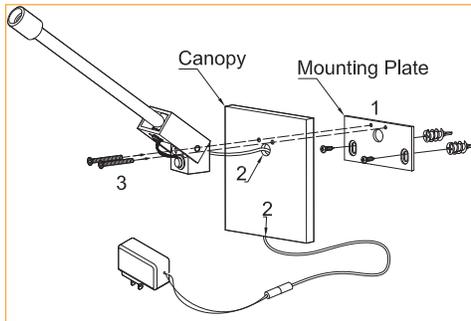
Optional : LED wiring

13



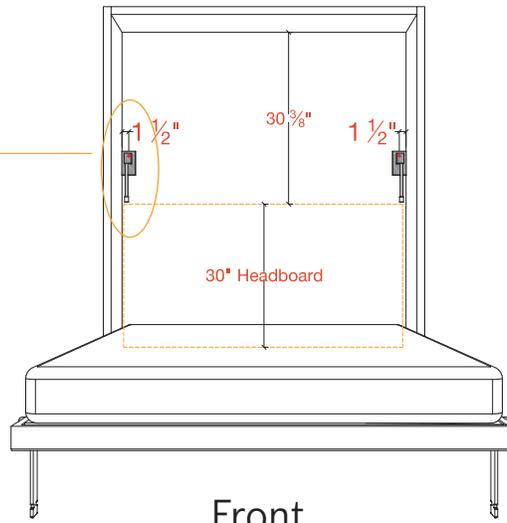
OPTIONAL WAND LIGHTING

Headboard must be installed on site before light fixture. Drill $\frac{1}{2}$ " hole at $10 \frac{1}{4}$ " above headboard and $1 \frac{1}{2}$ " in from the side. Install mounting Plate with provided wood screws, aligning the $\frac{1}{2}$ " drill holes.

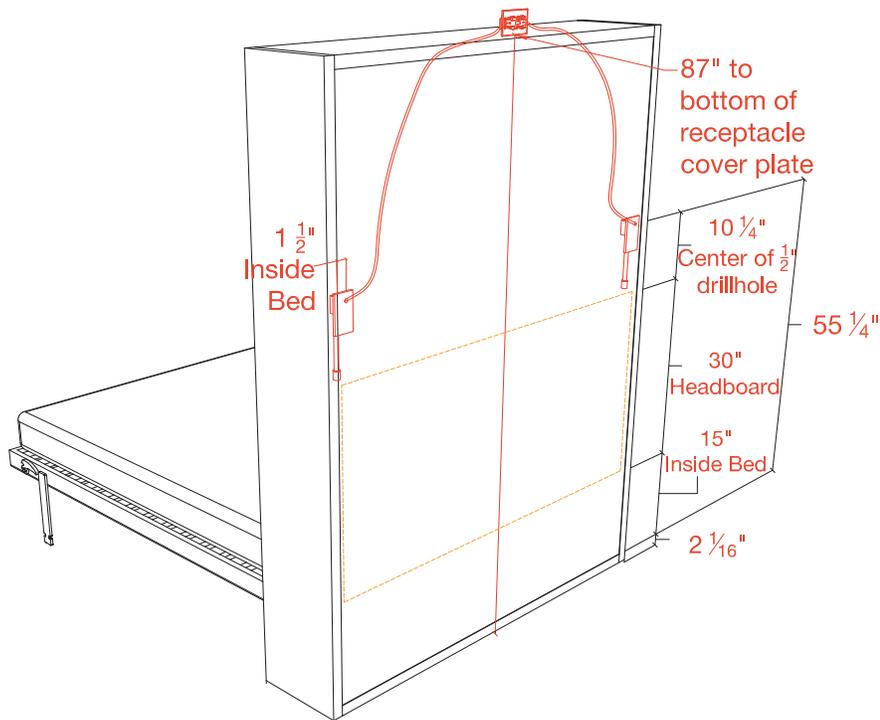


Wand Light Exploded Diagram

Cord Length = 118"

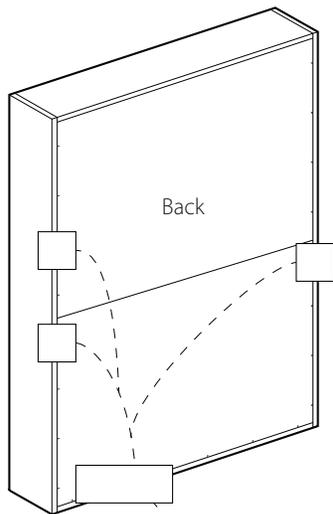
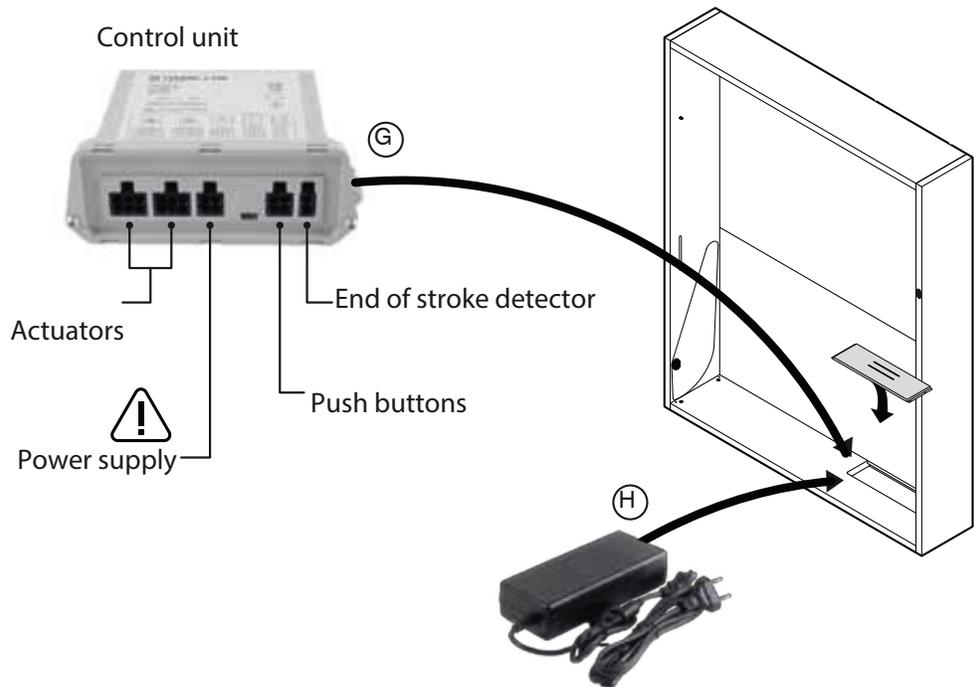


Front

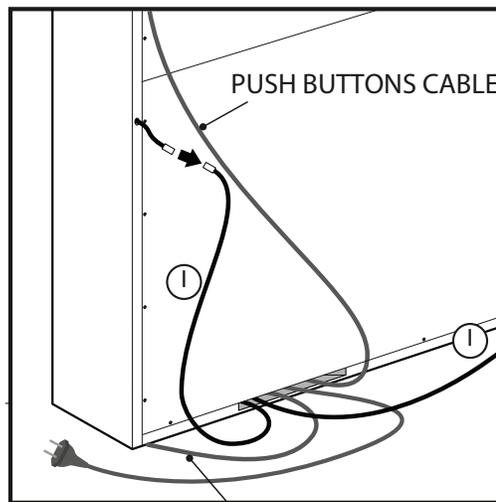


Back

ELECTRICAL COMPONENTS / SYSTEM WIRING



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END OF STROKE DETECTOR CABLE MUST PASS UNDER THE BED STRUCTURE

WALL ANCHORING INSTRUCTIONS

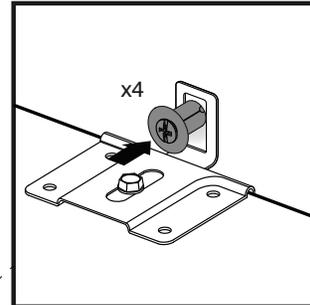


Caution! Carefully read pages 23-26 before anchoring the bed to the wall.

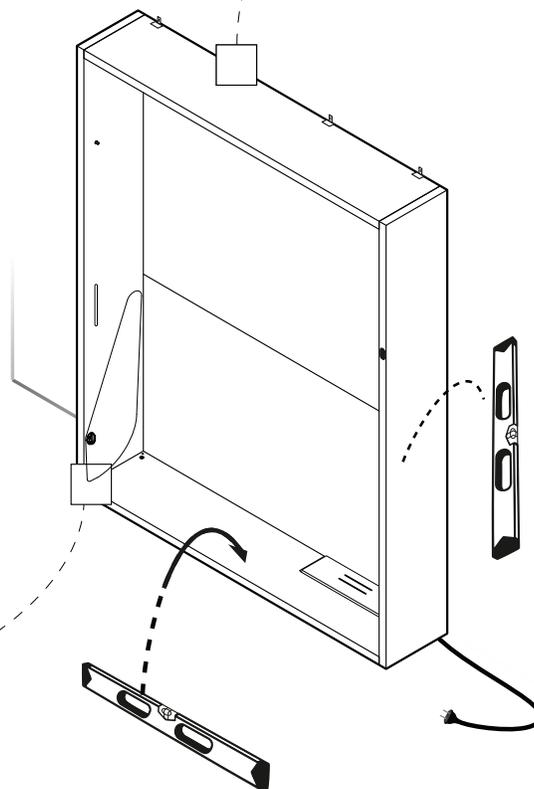
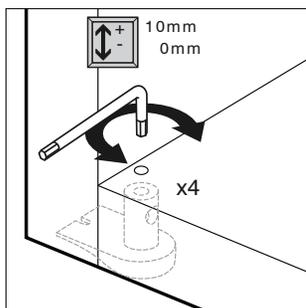
It is compulsory to secure the product to intact and strong walls, by no less than 4 wall anchoring points, as well as to place it on leveled floors.



16



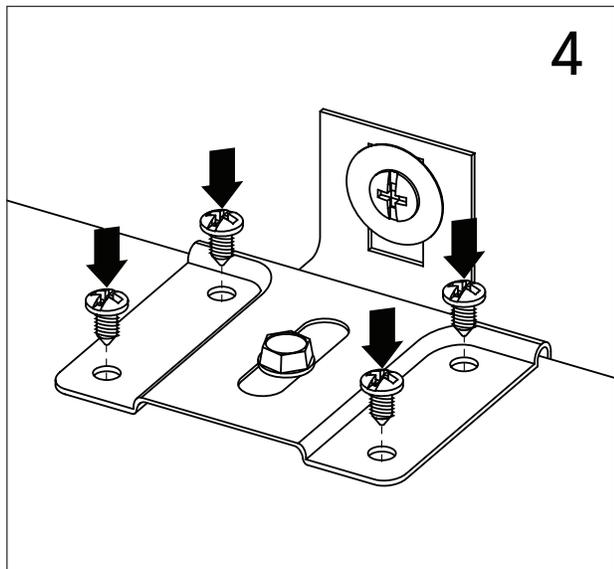
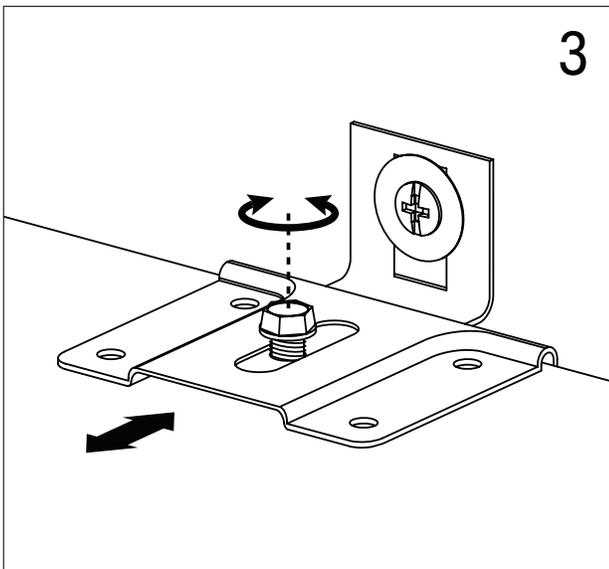
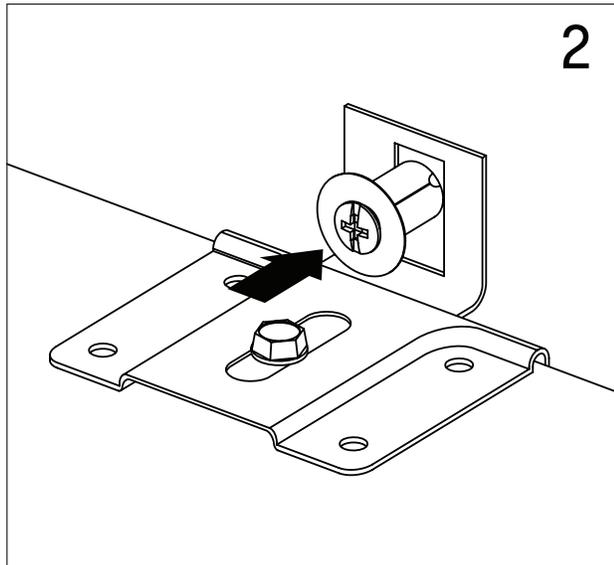
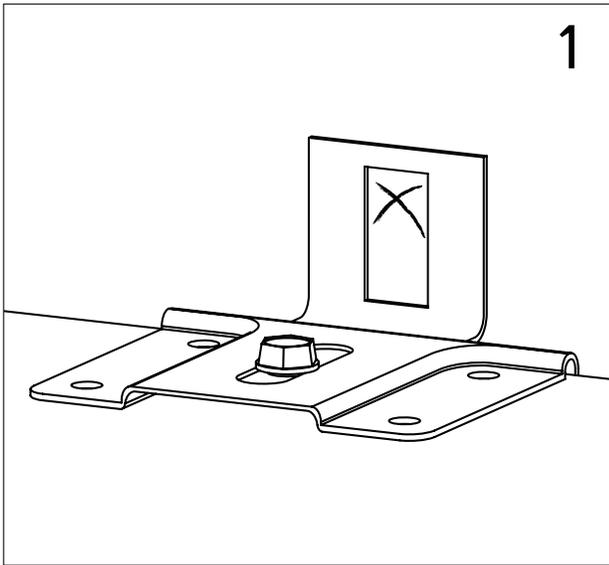
15



WALL ANCHORING INSTRUCTIONS

After the unit is level and plumb it must be securely attached to the wall using the metal angle mounting brackets as shown in the images below. A proper wall anchor suitable for the wall's construction must be selected by the contractor or installer.

The required washer shown in the images below is not included with the hardware.

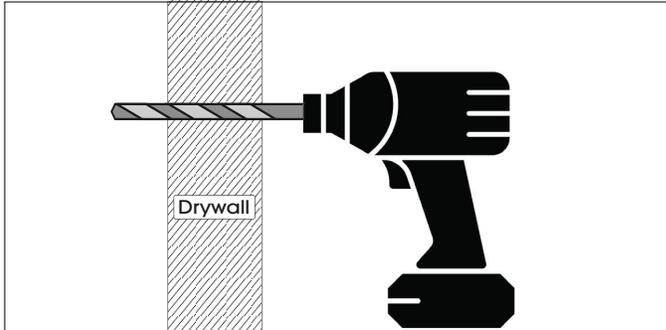


WALL ANCHORING INSTRUCTIONS

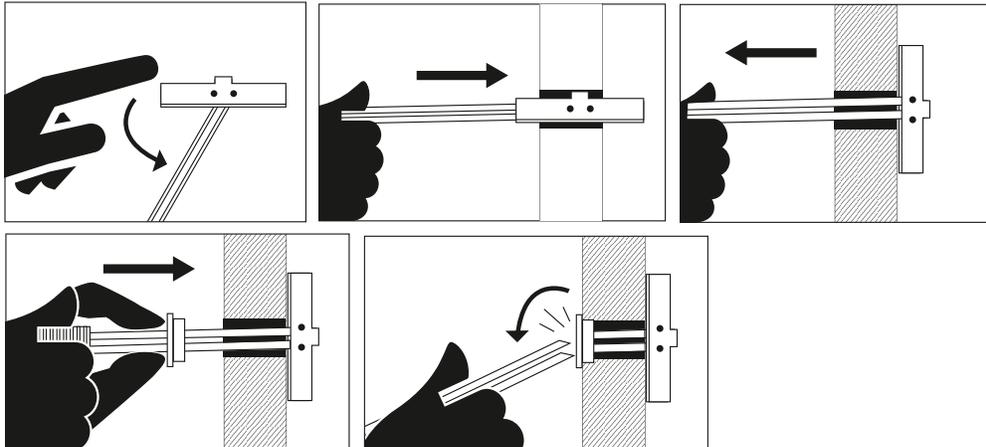
SHEETROCK

For 1/2" and 5/8" thick sheetrock it is recommended to use (4) 3/16 strap toggles.

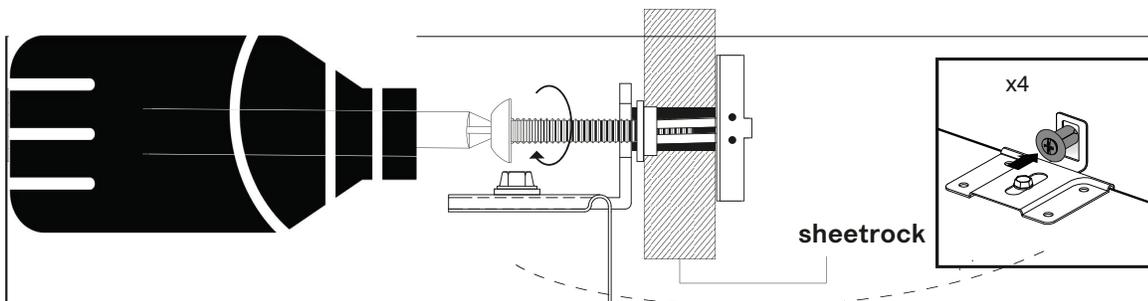
Using a 1/2" (13 mm) diameter metal bit, drill into the drywall.



Slide the metal channel of the anchor through the hole in the wall, hold the straps together and pull toward you until the channel rests behind the wall. Slide the cap along the straps until it is flush with the wall. Snap off the straps.

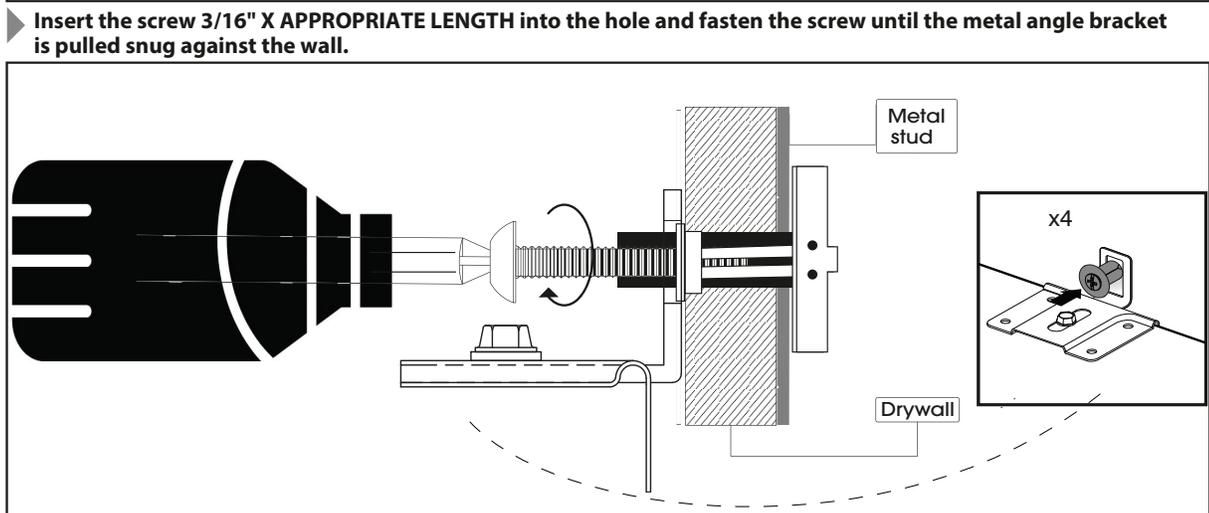
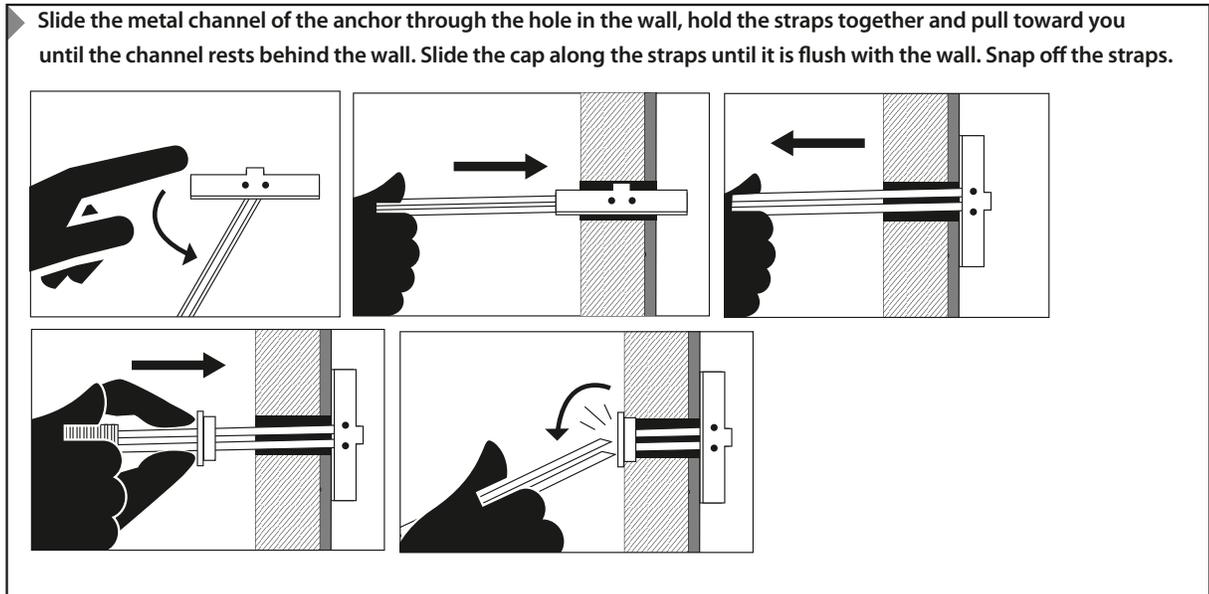
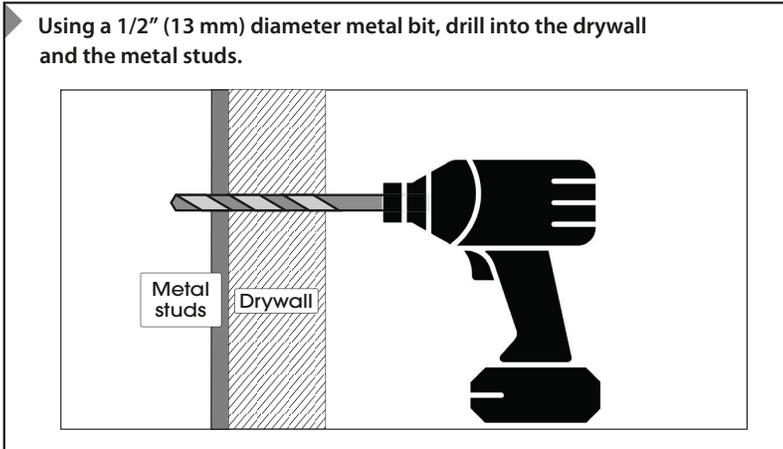


Insert the screw 3/16" X APPROPRIATE LENGTH into the hole and fasten the screw until the metal angle bracket is pulled snug against the wall.



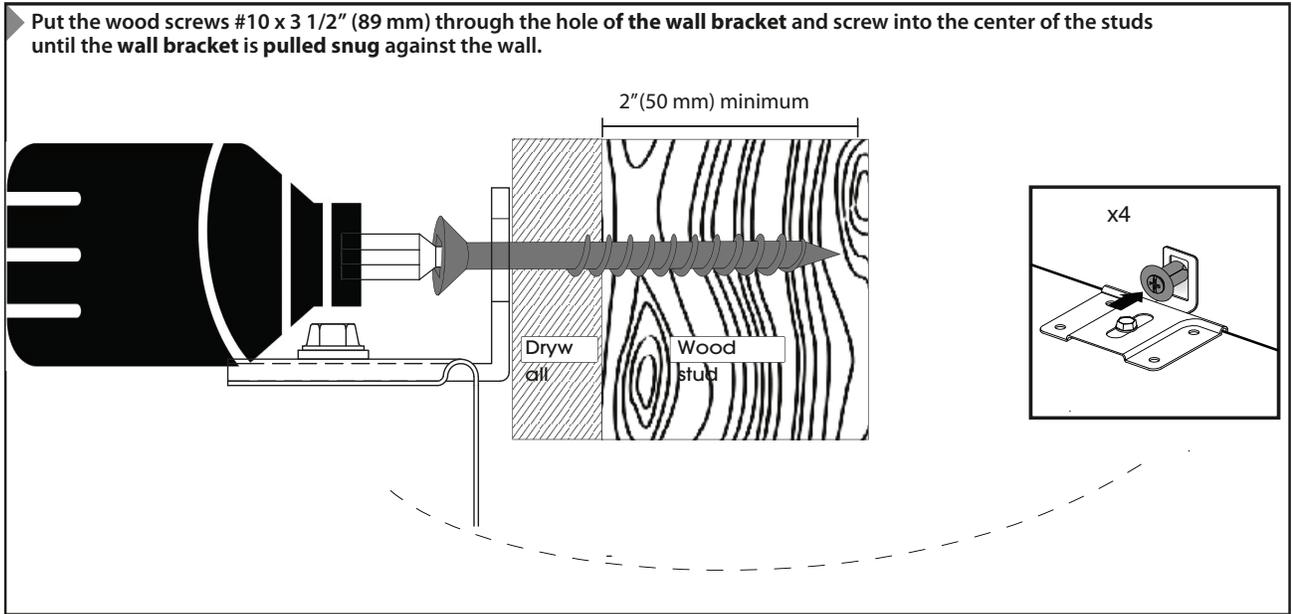
WALL ANCHORING INSTRUCTIONS

METAL STUDS : OPTIONAL



WALL ANCHORING INSTRUCTIONS

WOOD STUDS



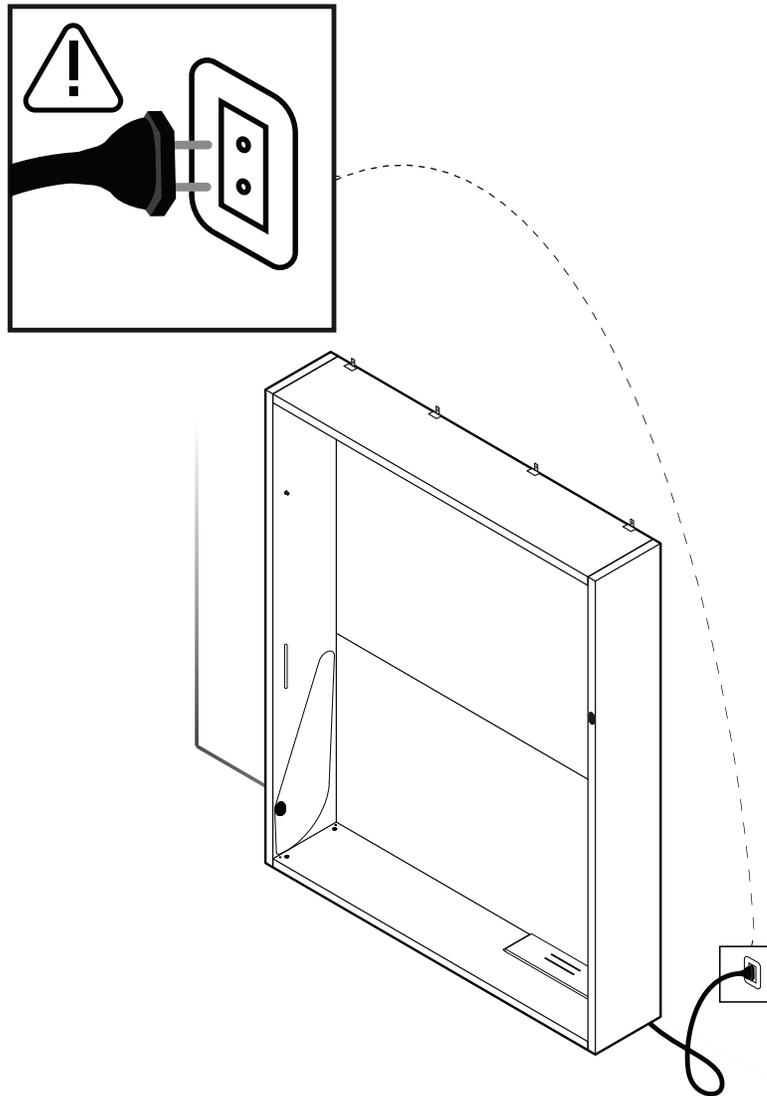
For any other wall materials please reach out to Resource Furniture.

ELECTRICAL COMPONENTS



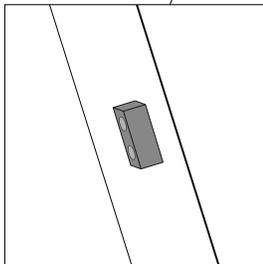
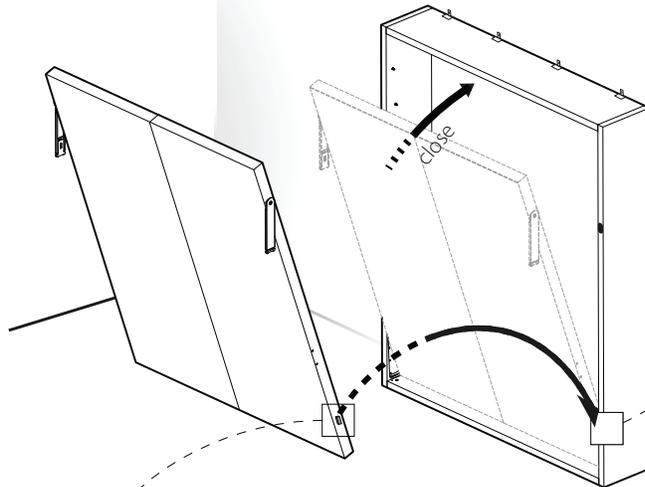
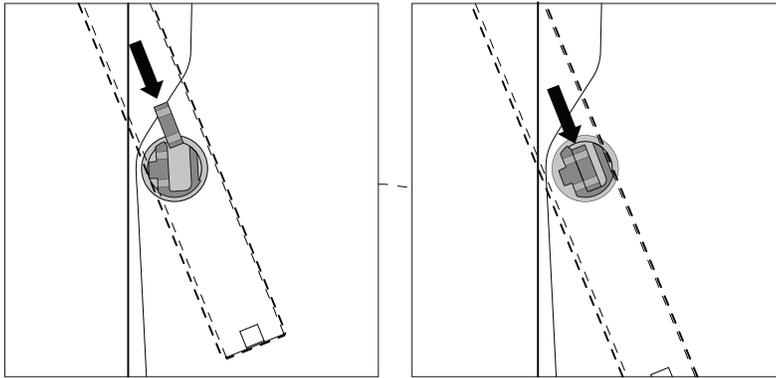
At this stage of the installation the bed structure must be securely attached to the wall as described on pages 23-26.

17 Connect the power supply cable before installing and opening the bed!



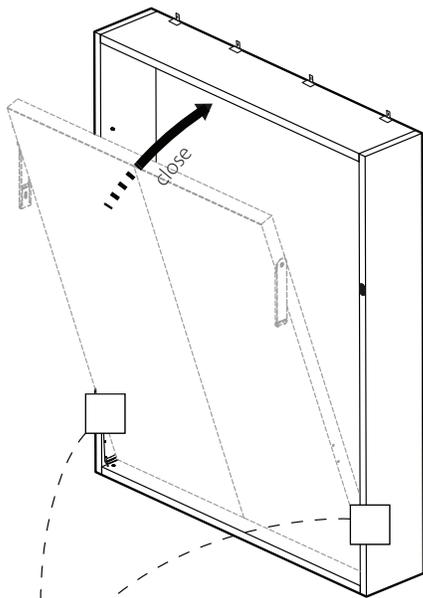
ELECTRICAL COMPONENTS

18



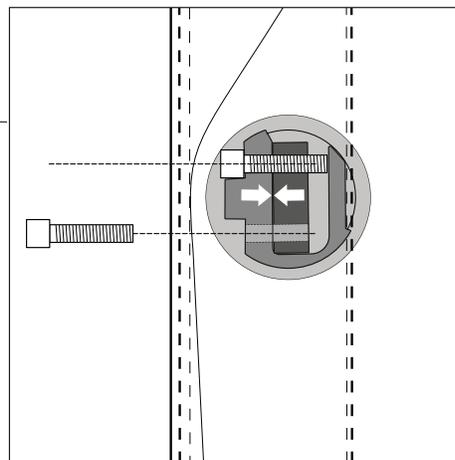
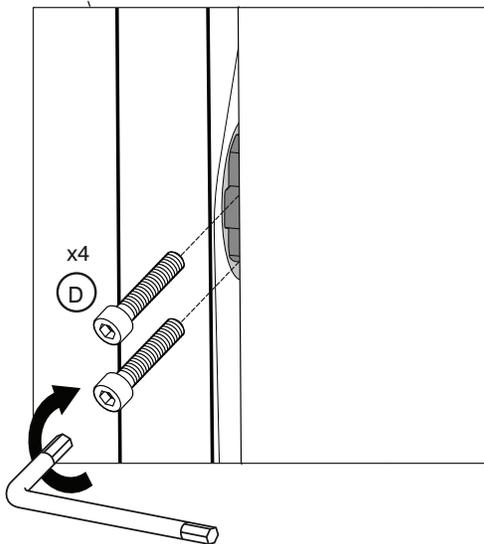
2 PEOPLE REQUIRED

BED BASE COMPONENTS



The 4 machine bolts (D) must be fully tightened **manually**. If not tightened properly the bed base will drop too fast during the opening procedure and the system will enter safety mode and stop working. Install the upper bolt before installing the lower bolt as shown in image 19.

19

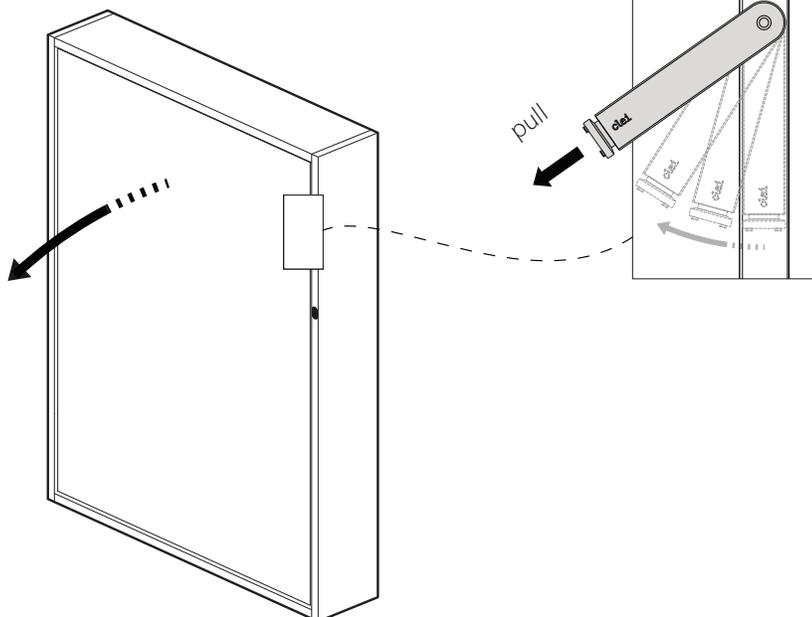


BED BASE COMPONENTS

20



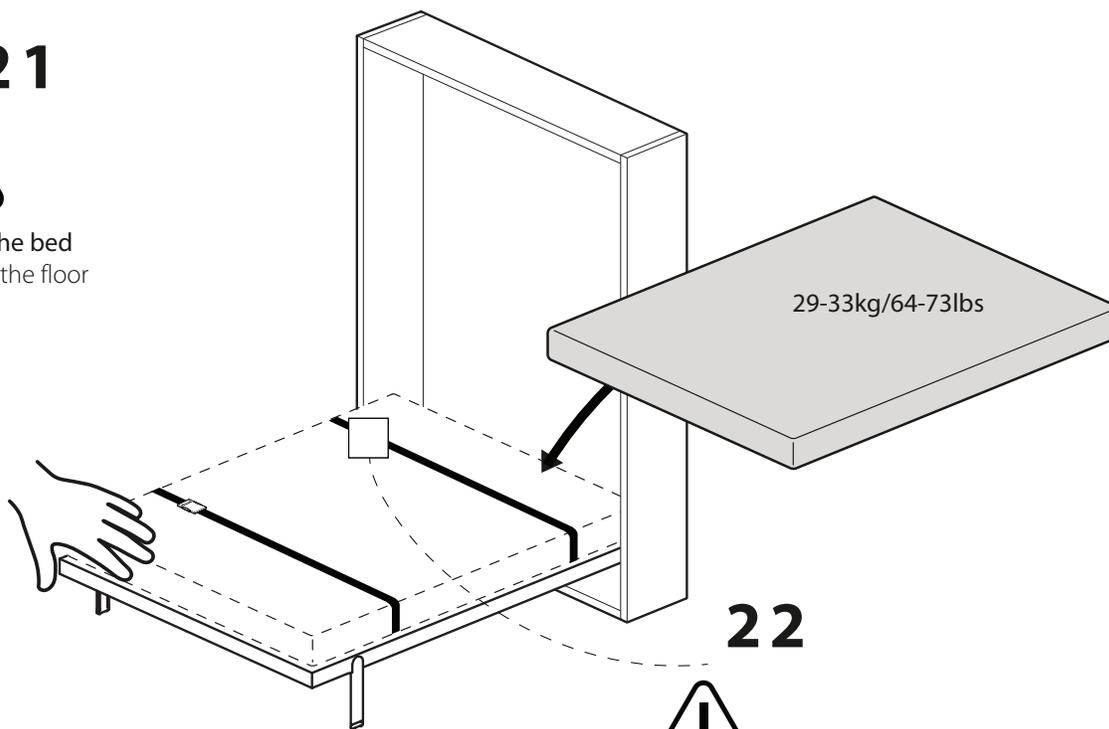
open manually slowly



21



Lower the bed base to the floor



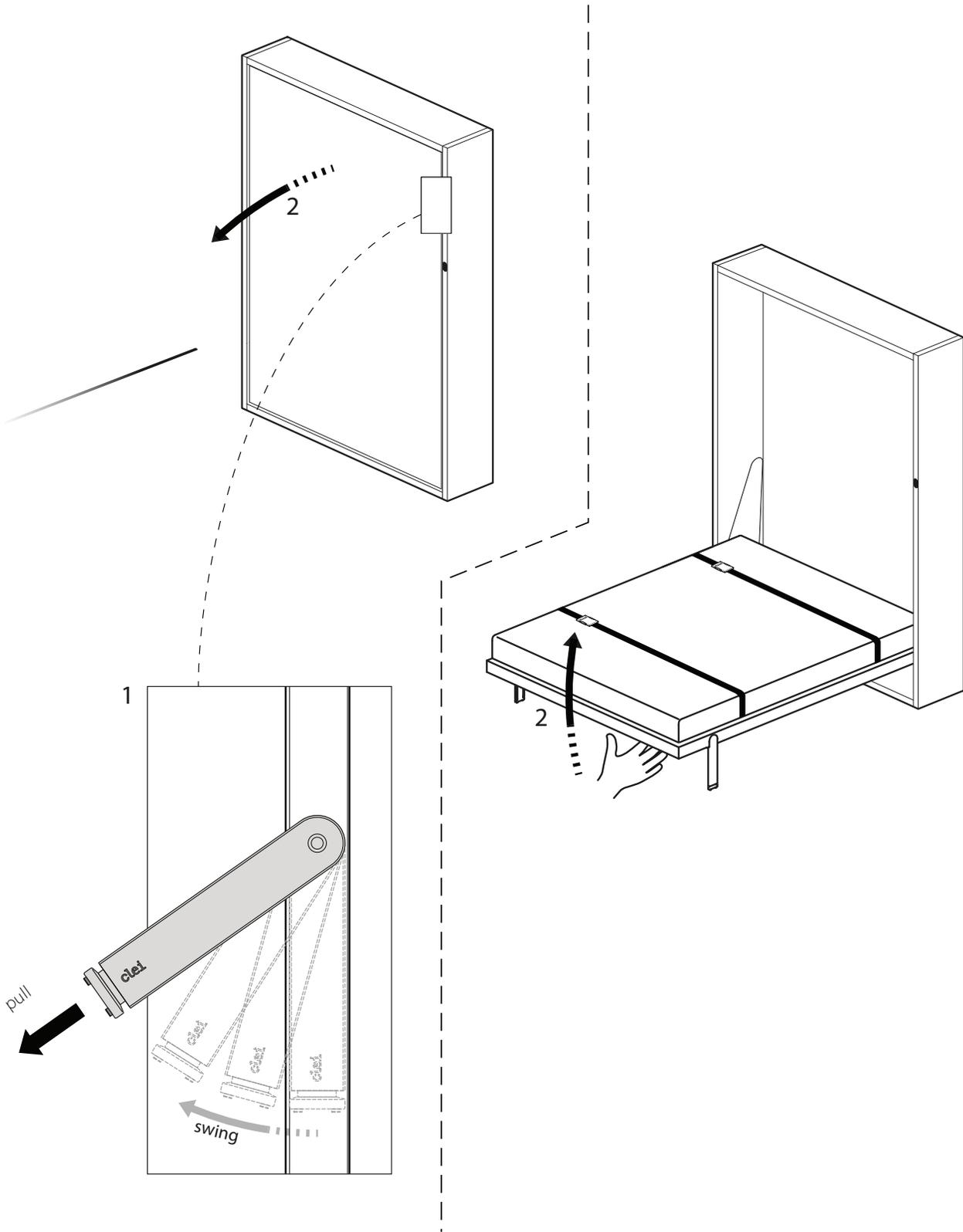
22



Place the mattress and fix it with the straps

Do not attempt to use the power buttons to open or close the bed unless the mattress is installed.

MANUAL OPENING AND CLOSING

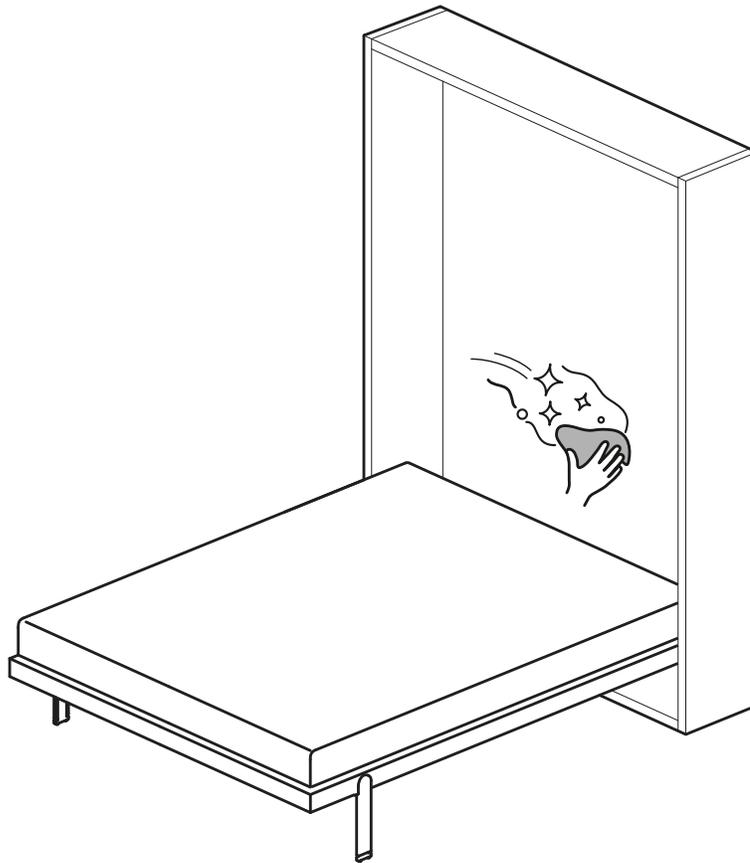


INSTALLING THE OPTIONAL TIGHT HEADBOARD

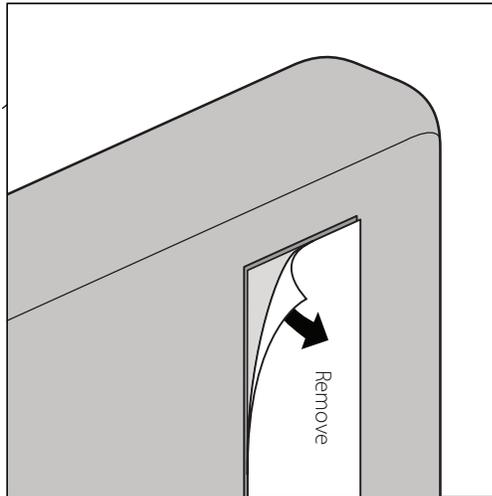
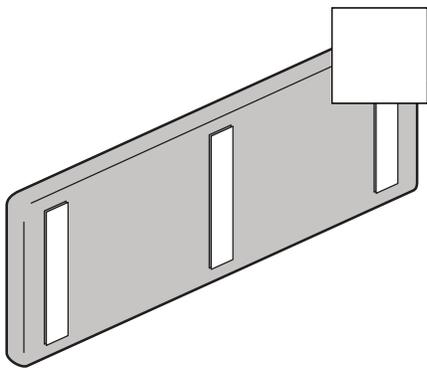
23



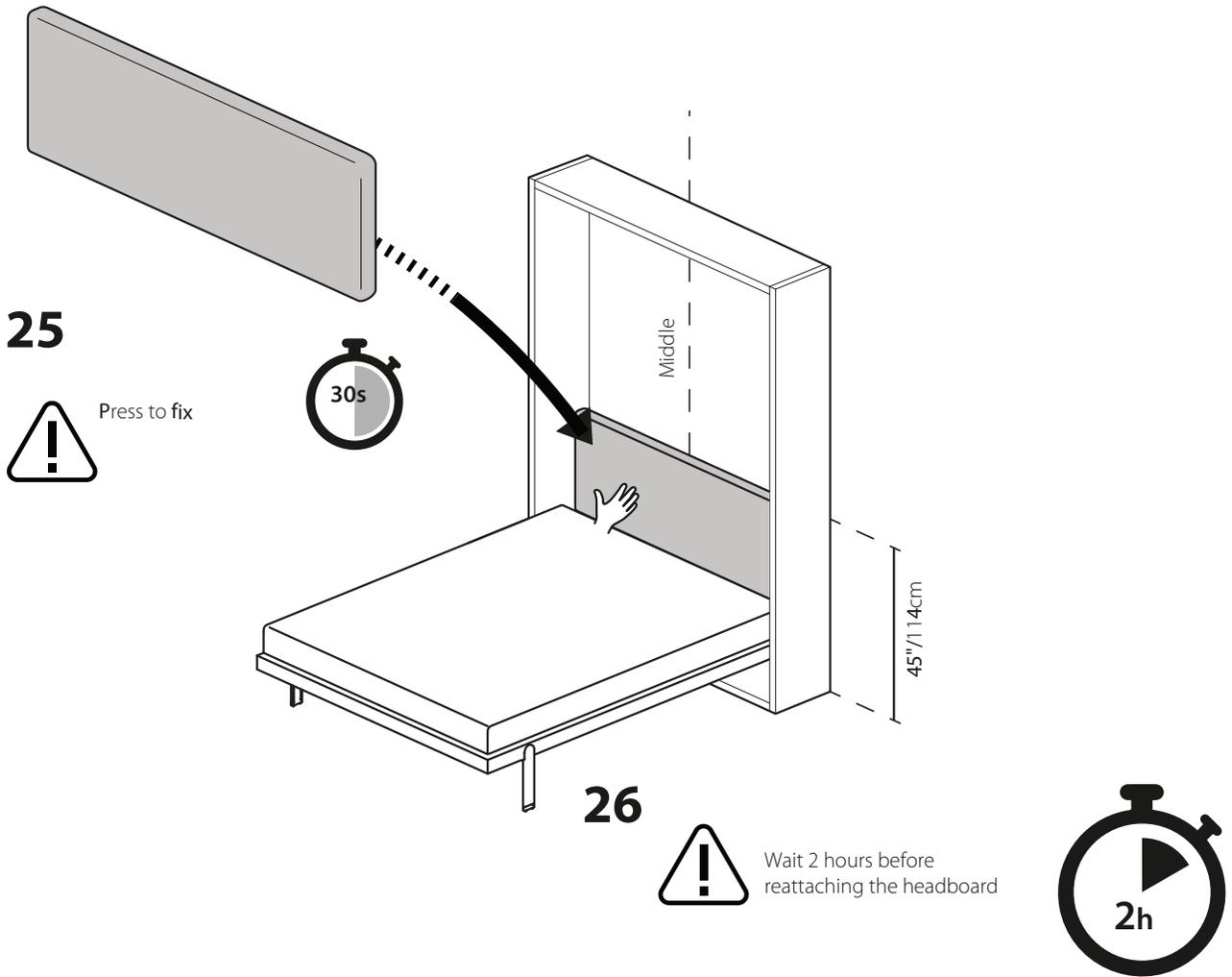
Clean and dry



24

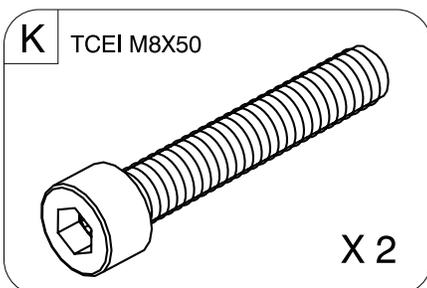
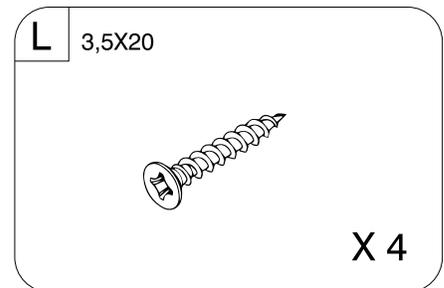
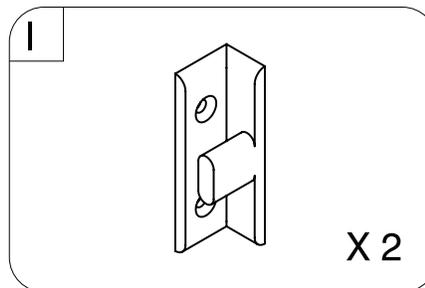
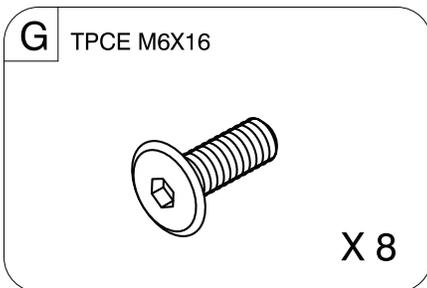
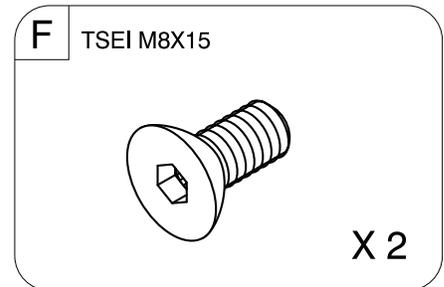
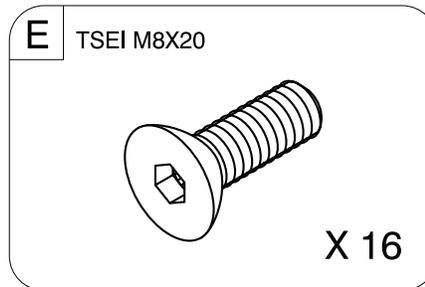
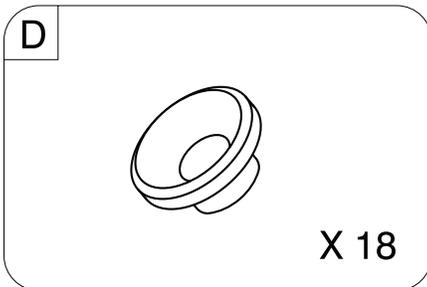
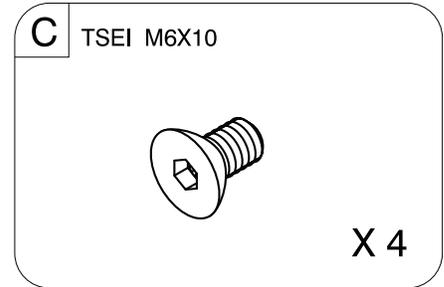
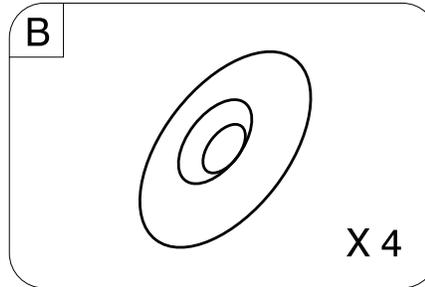
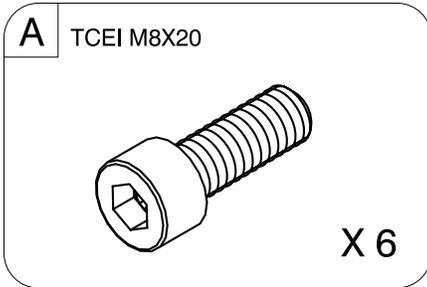


INSTALLING THE OPTIONAL TIGHT HEADBOARD

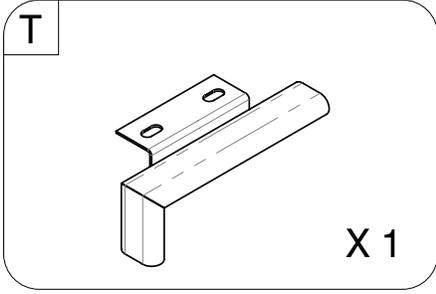
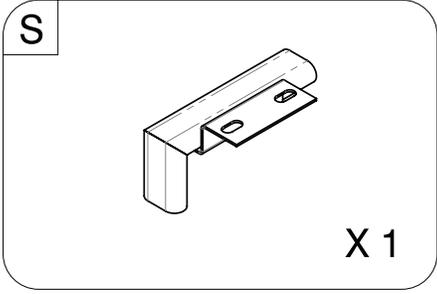
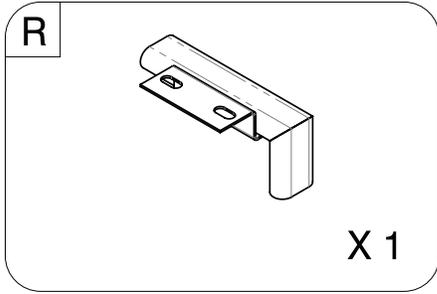
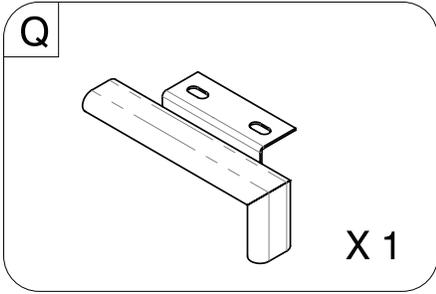
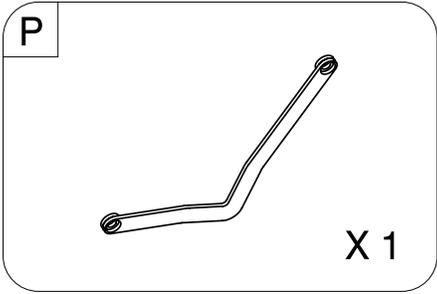
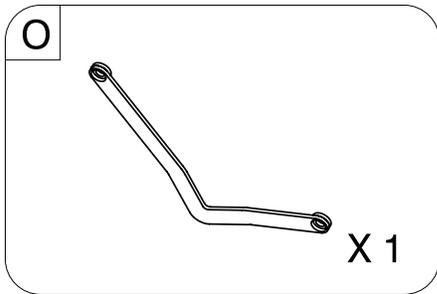
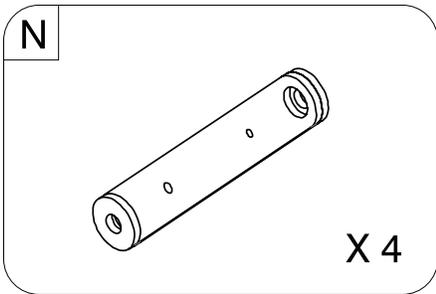
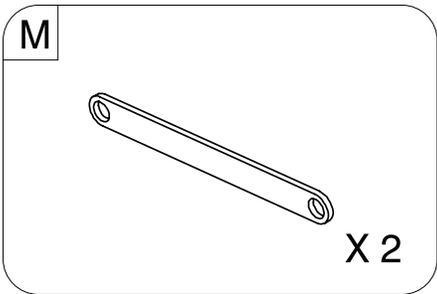


TONALE SOFA ASSEMBLY

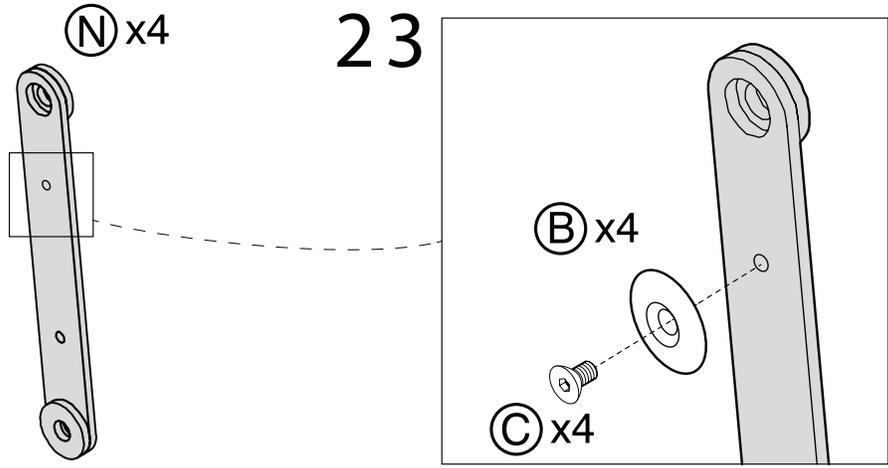
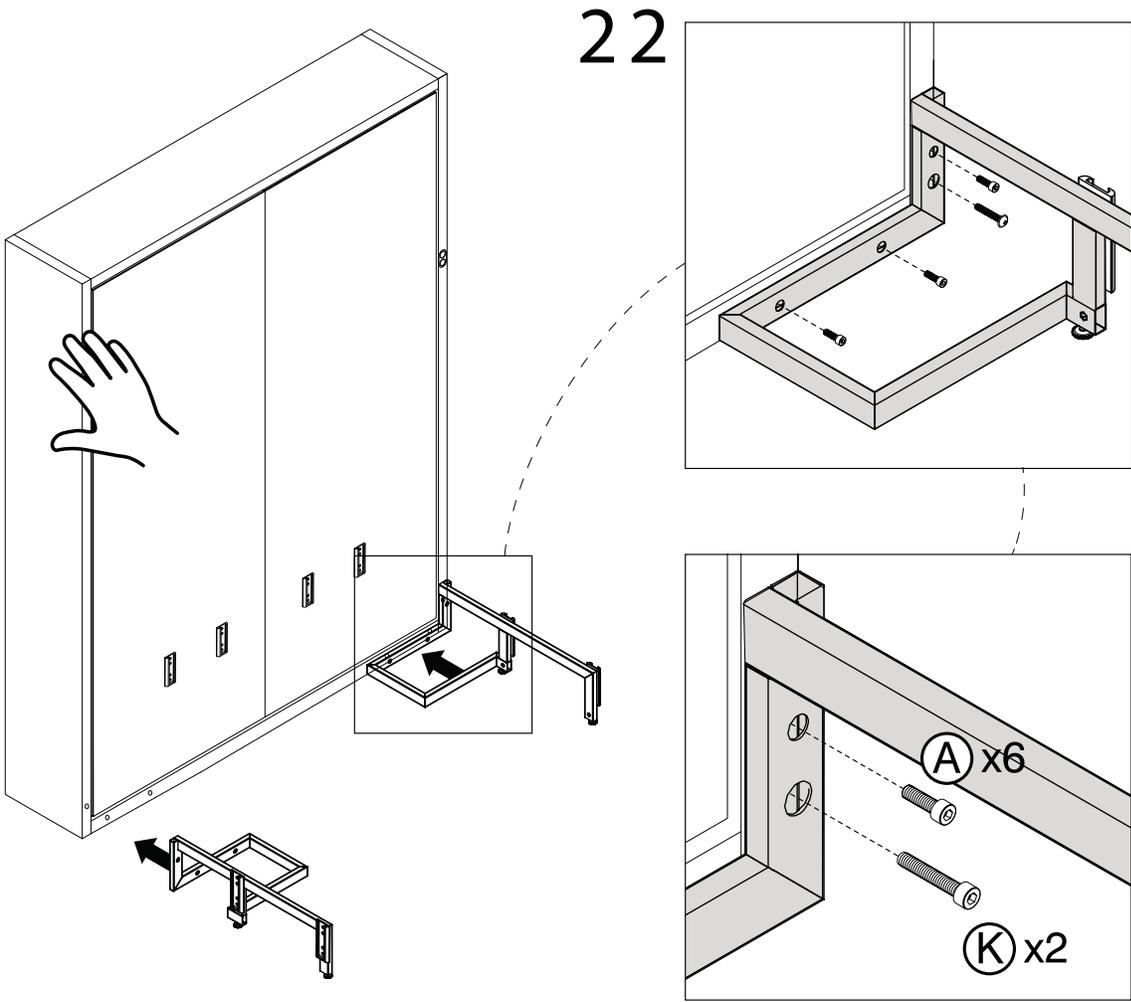
HARDWARE



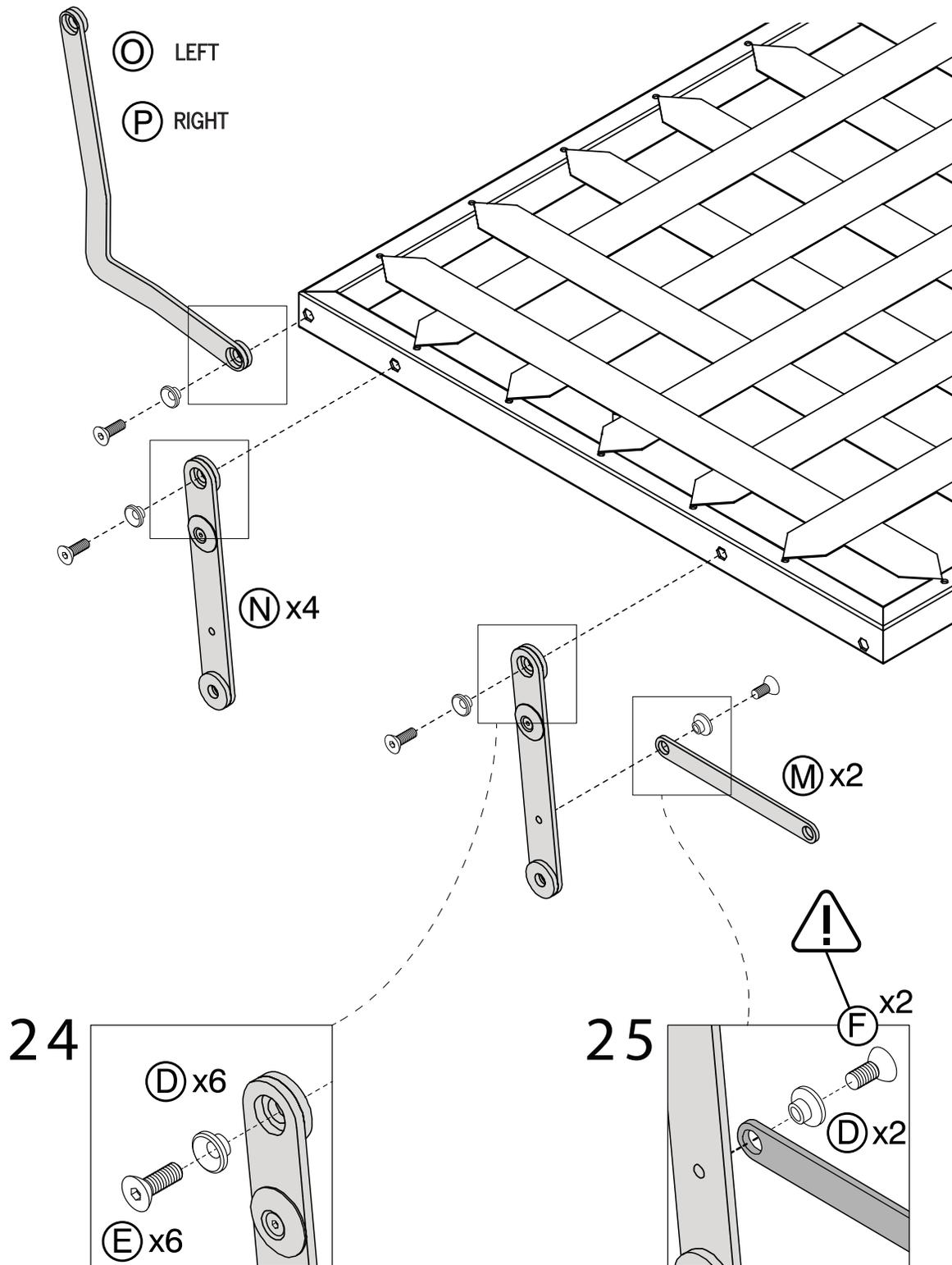
TONALE SOFA ASSEMBLY



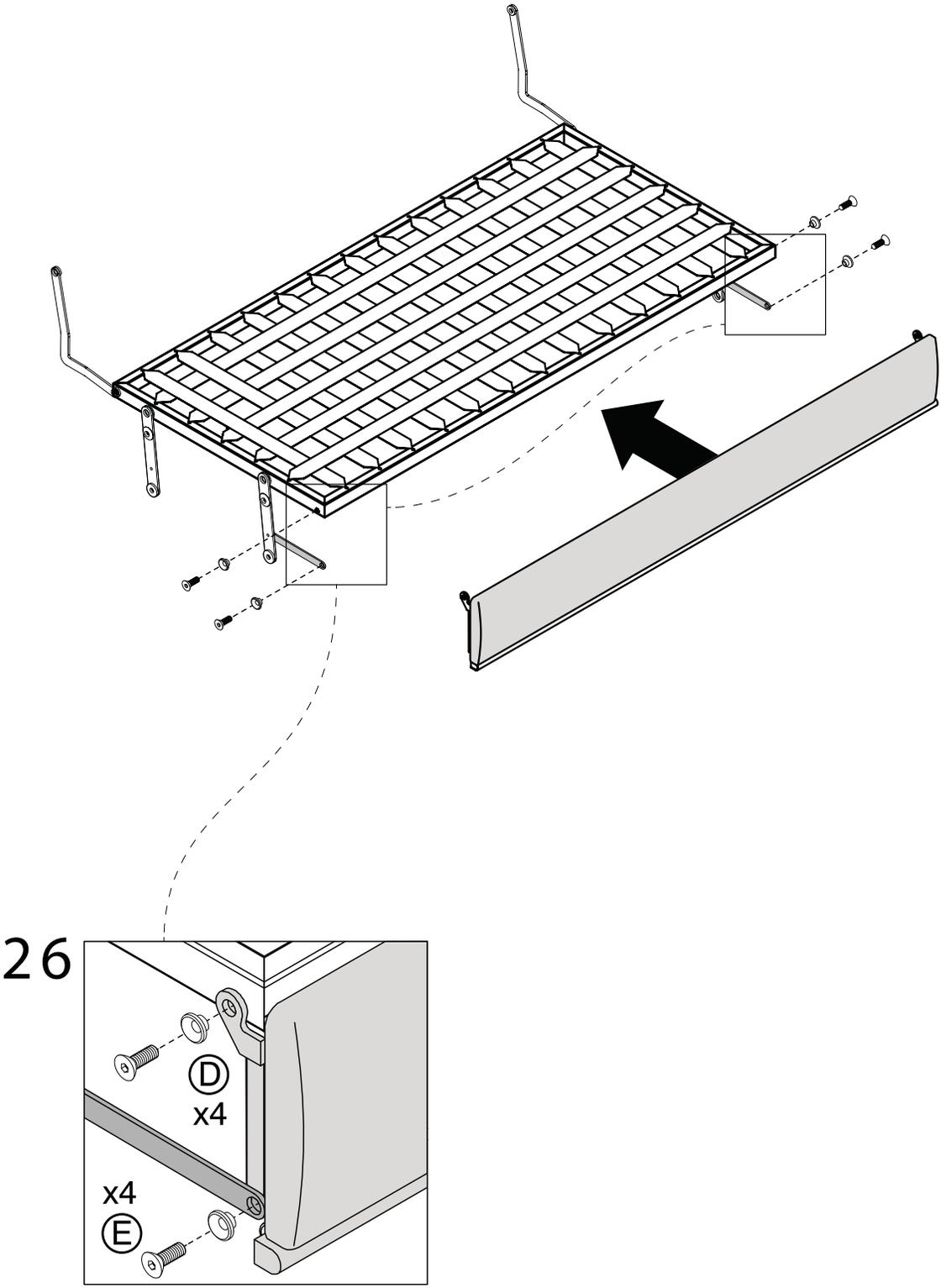
TONALE SOFA ASSEMBLY



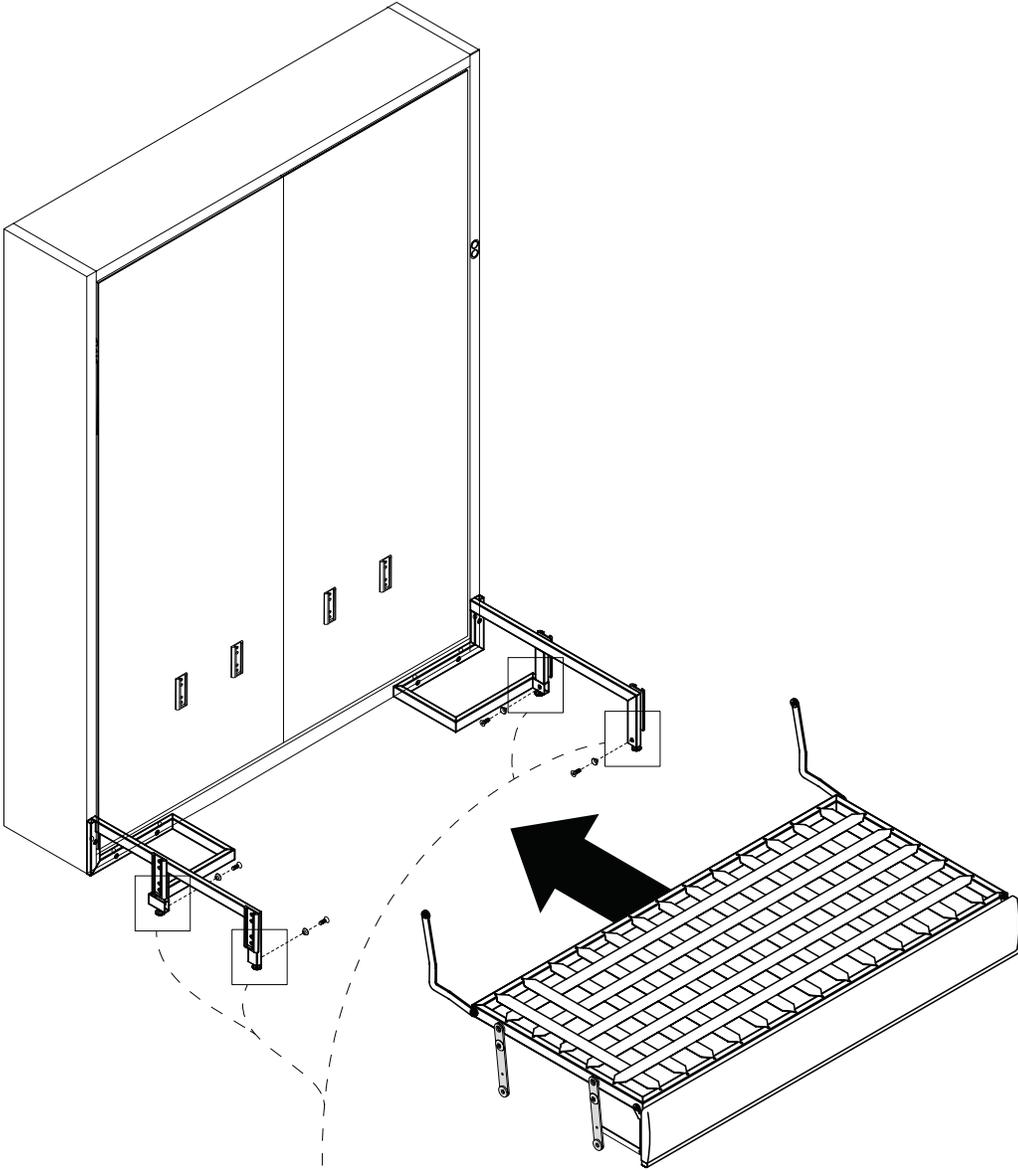
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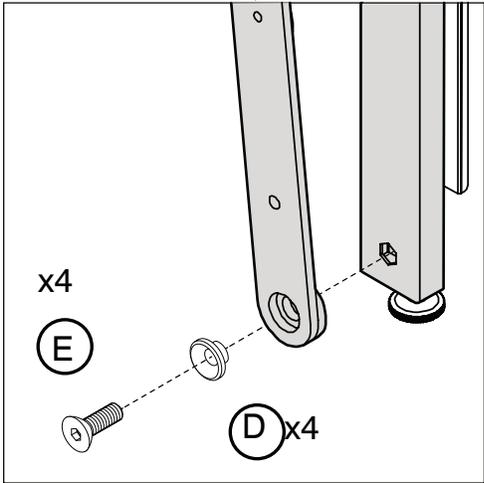
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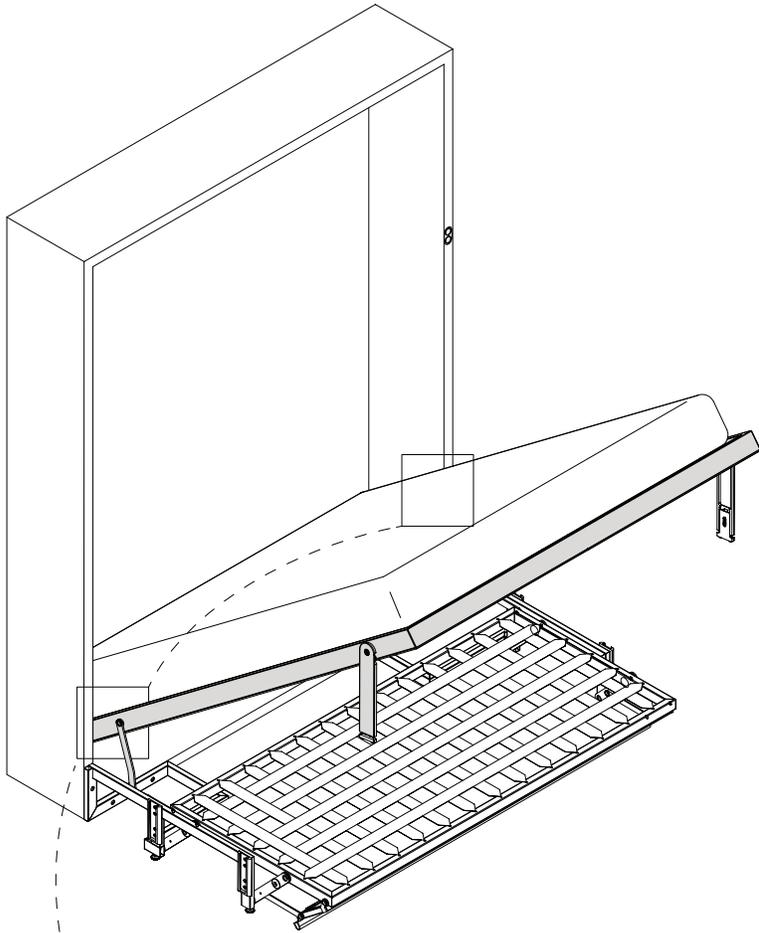
TONALE SOFA ASSEMBLY



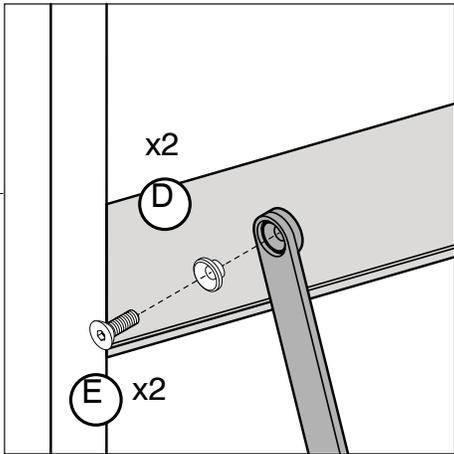
27



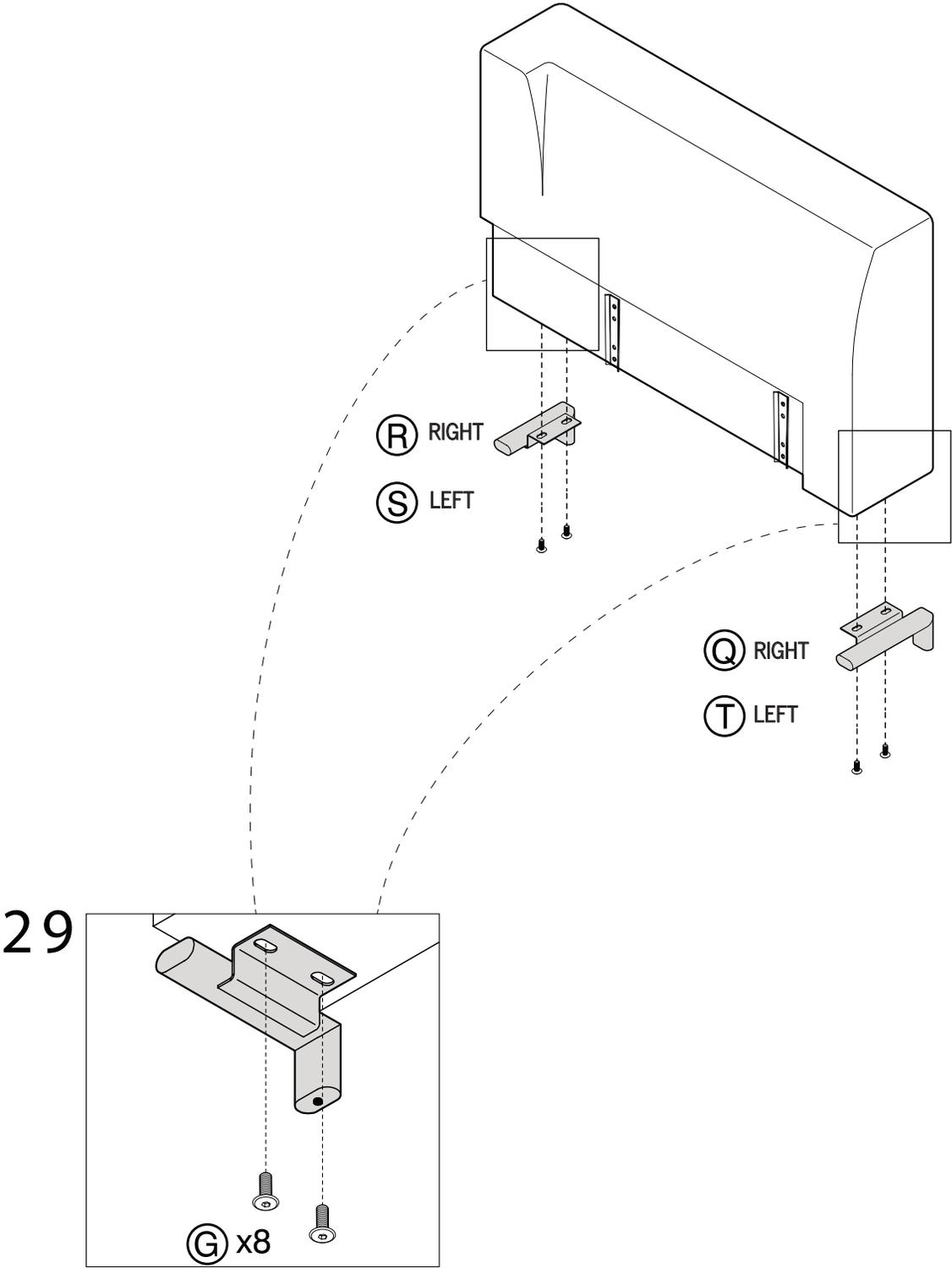
TONALE SOFA ASSEMBLY



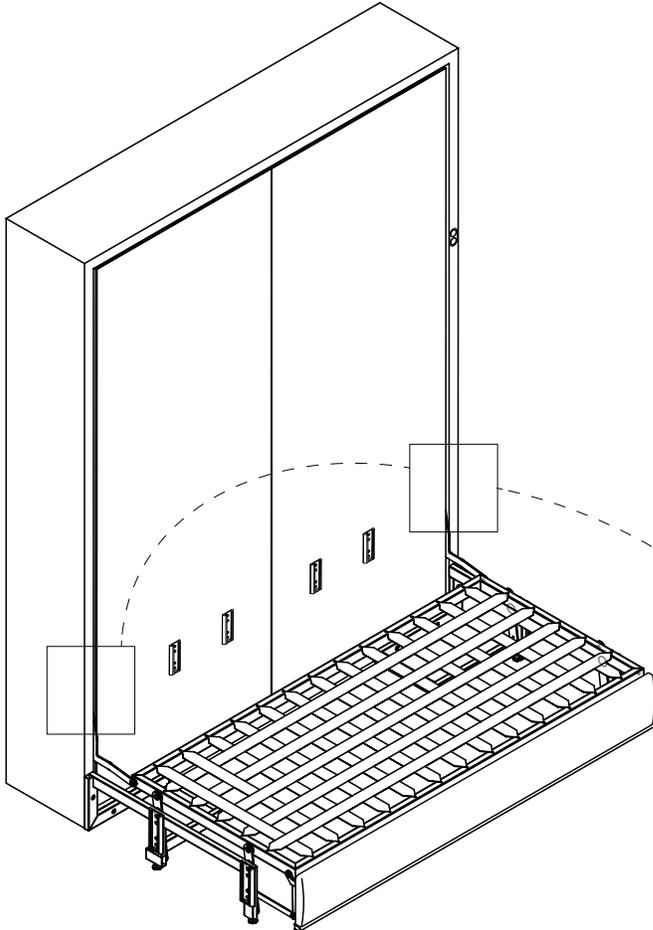
28



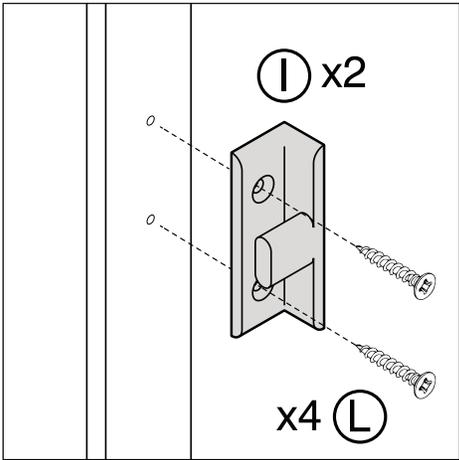
TONALE SOFA ASSEMBLY



TONALE SOFA ASSEMBLY

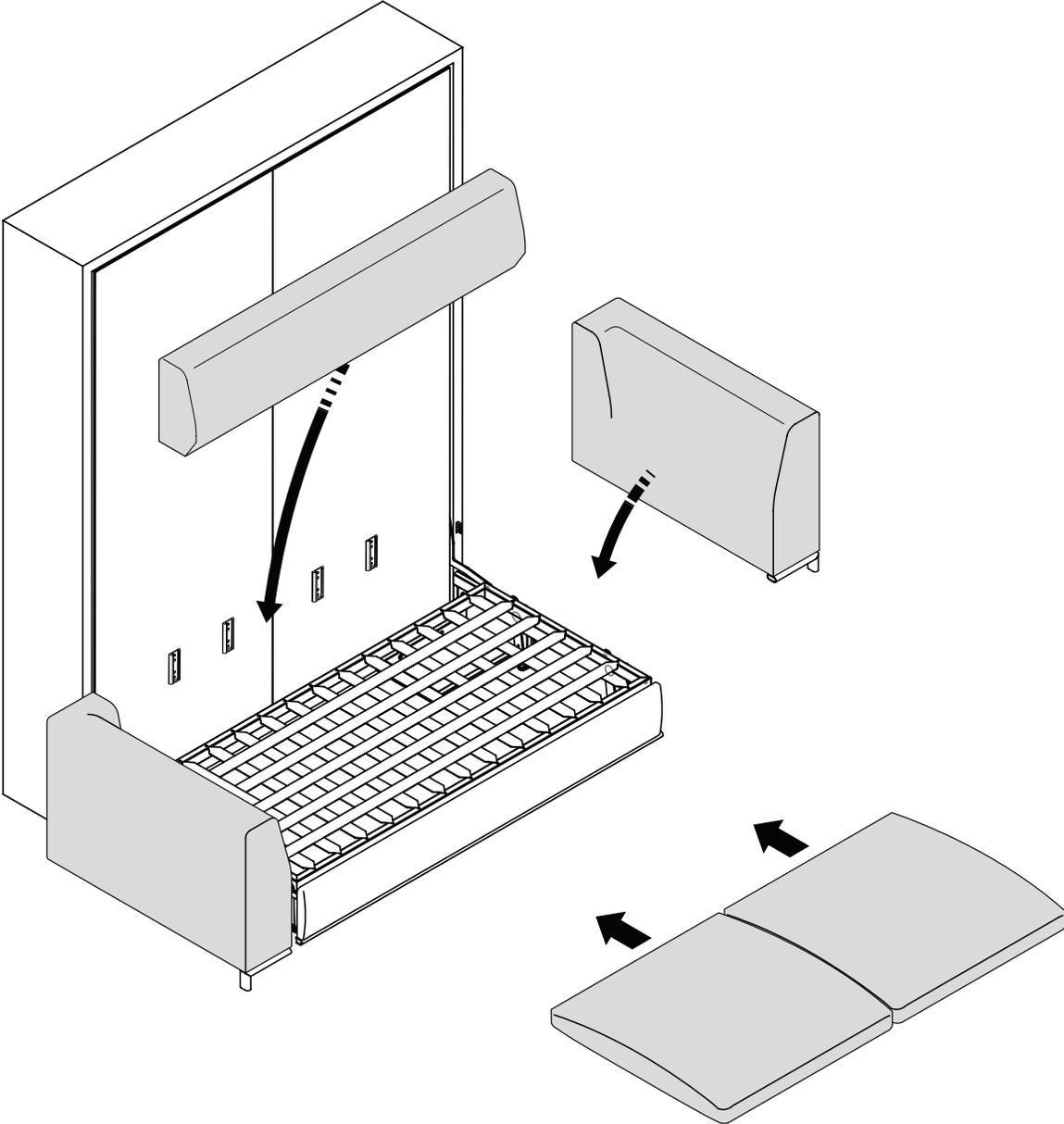


30



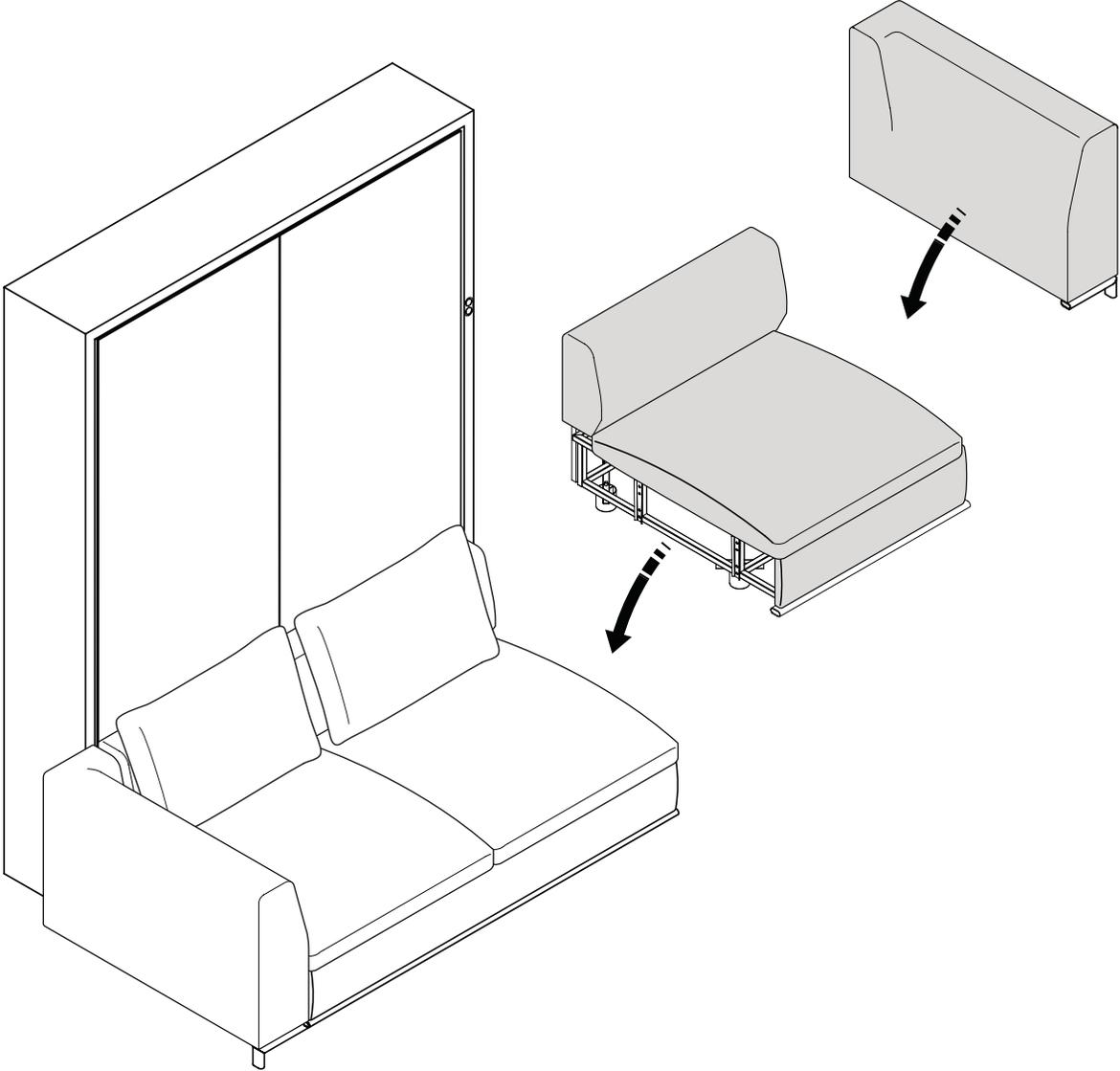
TONALE SOFA ASSEMBLY

TONALE L.201



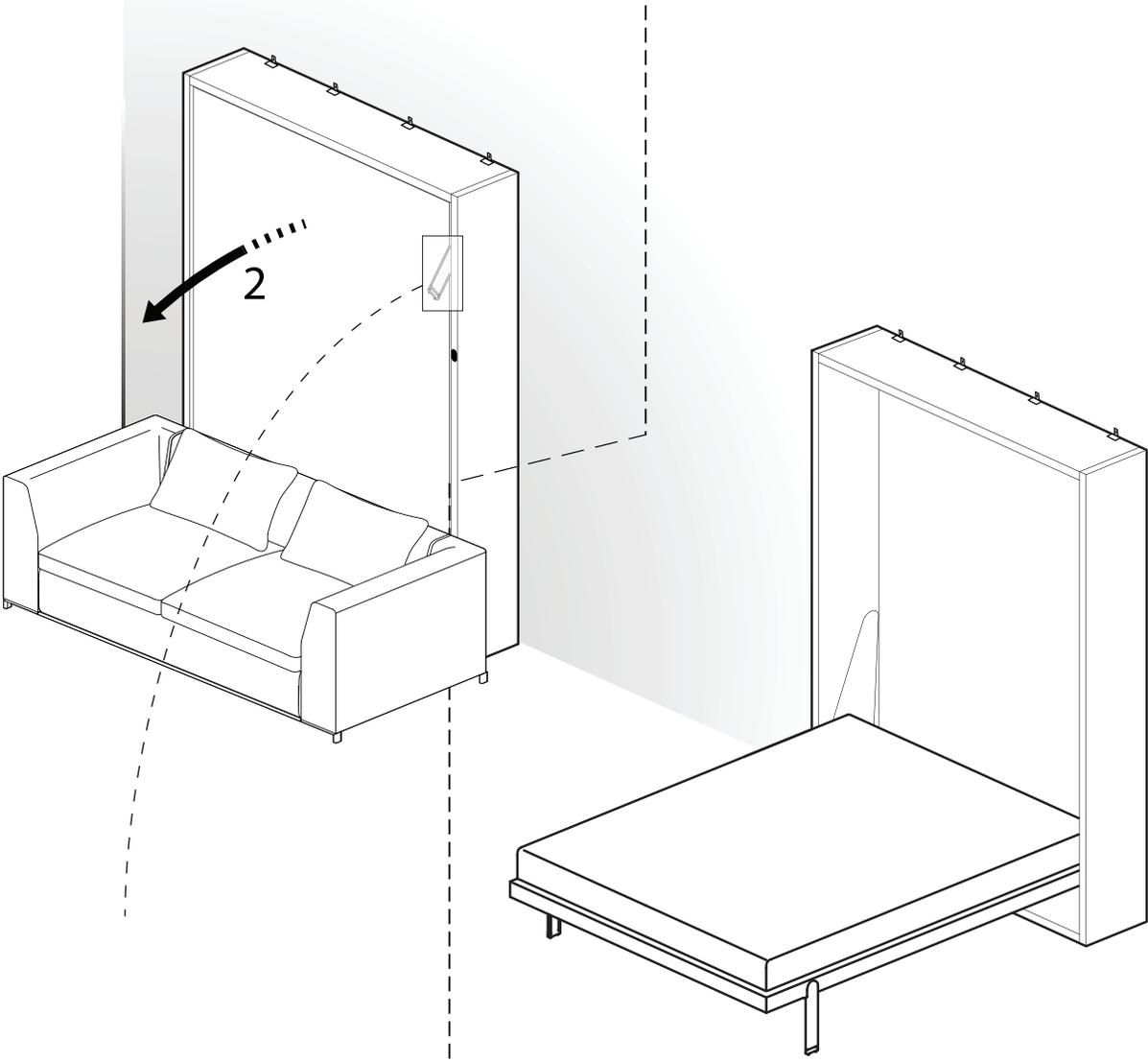
TONALE SOFA ASSEMBLY

TONALE L.281



TONALE SOFA POWER

MANUAL OPENING and CLOSING



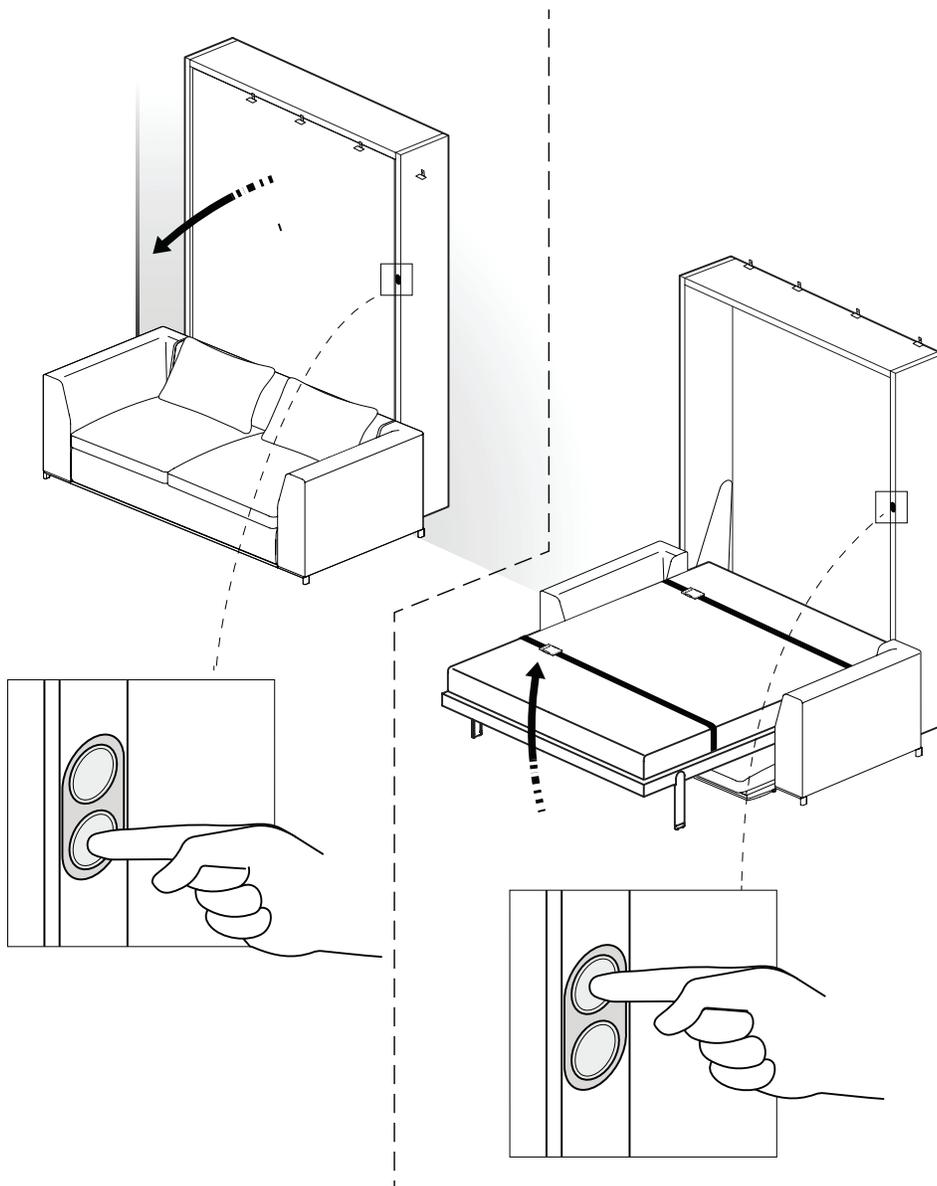
AUTOMATIC OPENING AND CLOSING



With the mattress placed on the bed as shown in steps 21-22.
Complete initial calibration set up before using the buttons to open and close the bed.

1. Lift up the bed base into the vertical/closed position
2. Push both buttons **simultaneously** for few seconds until **you** hear the acoustic alarm. (1 beep)
3. Release the buttons.
4. Using one of the legs, start to open the bed manually, stop opening when the feet are approximately 2" above the floor
5. Push both buttons **again** for few seconds until another acoustic alarm is heard. (1 beep)
6. Release the buttons and manually lift the bed bed base into the closed/ vertical position. The bed is now calibrated and the push buttons can be used to electronically open and close the bed.

AUTOMATIC OPENING and CLOSING



WARNING PAGE PROVIDED BY MANUFACTURER

TRANSFORMING SYSTEM ASSEMBLY AND SAFETY CAREFULLY READ BEFORE PROCEEDING!

-  Follow with care all points of the assembly procedure, as per technical sheets and their sequence showed in the following pages, and all the safety rules indicated.
-  It is compulsory to fasten the product to intact and strong walls, by not less than 4 fixing points, and place it on perfectly levelled floors.
-  A hardware kit for assembly is supplied, but it does not include plugs for anchoring product to wall, because, to guarantee safety, they must be provided by the installer according to the kind of wall where the product is fixed to, and that manufacturer unknowns.
-  Installer is responsible for workmanlike assembly and test of the product.
-  Installation must be fulfilled by professional and skilled workers; we suggest installer to previously inspect the status of the wall where the product will be fixed to.
-  An incorrect installation may cause incidents and injuries to the final user. Clei is not responsible for any possible alterations, tempering and changes on the transforming system by third parties. Clei refuses any kind of responsibility for improper use of this transforming system like incorrect handling, as well as for any kind of incompetence and negligence by installer and final user.
-  When the transforming system is combined in a composition with cabinets, wardrobes, storage units or bookcases, these elements must be anchored to wall by an independent fastening respect to the one of the transforming system.
-  In case of re-assembly of the product, it is not possible to use the same holes drilled for the original installation. As a result, it is compulsory to place the plates and the plugs selected and used by the installer in a different position.

CLEI REFUSES ANY KIND OF RESPONSIBILITY FOR ASSEMBLIES NON-COMPLIANT TO THE INSTRUCTIONS AND PROCEDURES DESCRIBED IN THE PRESENT ASSEMBLY MANUAL.

CLEI SYSTEM MATERIAL REQUIREMENTS

Attention to environmental issues and therefore our commitment to green design are our organization's competitive advantages. We design and make our products choosing materials that have a low impact on the environment and bearing in mind methods for reducing consumption of materials and waste as well as energy savings. All the products in our collections, therefore, provide for use of CARB2 certified eco-panels, with laser welded edges that are thus without glue, and water-based paints that reduce emissions of harmful substances by 95% compared to solvent-based paints. Ecology and safety guide our choices. All our suppliers are also involved in this policy, with a view to extending the useful life of our products, reducing consumption and increasing environmental quality.

CARB2

Clei uses CARB2 certified panels with extremely low emissions of formaldehyde. The specific E-LE classification guarantees that the formaldehyde content is limited to the quantity naturally contained in wood.

WATER-BASED PAINTS

Clei uses only water-based paints that drastically cut emissions of VOCs (Volatile Organic Compounds) as compared to solvent-based paints. Additionally, water-based paints are odourless, non-flammable and have very low toxicity.

Water-based paints conform to the safety standards of furnishing articles and to the directives concerning toys EN 71.3, in other words materials that may occasionally come into contact with children's mouths.

CARBON FOOTPRINT

The "Carbon footprint" of a company is its ecological profile, that is the environmental impact that can be attributed to the products that it offers on the market. Environmental impact can be measured by assessing factors such as intelligent use of resources, how recyclable they are, and how long the finished products last.

Moreover, there is another factor that is set to become increasingly more important, and that is the reduction of living spaces.

While cities grow, apartments become smaller, and therefore both necessity and practical considerations make Clei transforming furniture ideal for making the most of small-sized housing structures.

It's a simple equation: smaller sizes mean lower consumption of materials, and therefore a lower impact on the environment.

100% MADE IN CLEI

It's very easy to say "Made in Italy". But we can go further, proudly stating that our products are totally made in Clei.

This means absolute safety with regard to materials and the quality of processing. But also social strength and support with a guarantee of employment.



100%
MADE IN CLEI

