

# quest<sup>®</sup>



*Model Shown 2080-50*



**Cardiology couch**  
2080-10 / 2080-15 / 2080-20  
2080-30 / 2080-50

# Product Identification

*Model Number :*

*Serial Number :*

*Date of Purchase :*

*Name of Owner / Facility :*

*Name of Dealer :*

*Dealer's Phone Number :*

*Promotal Authorized Service Company :*

## Legal Notice

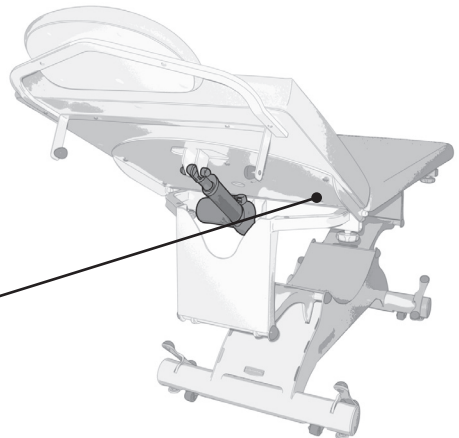
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The descriptions and specifications contained in this Operating Manual are deemed correct at the time of printing.

**Promotal**, however, reserves the right to modify its models and its procedures or render them obsolete without notice.

Before any order, we recommend that our customers consult a local sales manager.

## Type plate



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# Important Information

## Safety symbols



### Warning sign

The information marked with this symbol must be read and strictly followed !

### Note

Procedure, practice, or condition.



Humidity limitation



Maximum number of stacked pallets



Correct orientation for transportation



Atmospheric pressure limitation



Temperature limitation



Fragile



Keep in a dry place



Not to use sharp objects



Manufacturer



Type B applied part



Double isolated



To be disposed off separately from household waste



Dangerous voltage / risk of electrocution



Life cycle (motor cycle)  
1 minute working / 9 minutes stopped



General safety sign



Refer to the instruction manual / brochure



CE marking



Housing protection classification



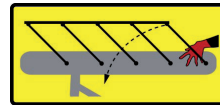
Do not sit on the back rest



Do not sit on the armrests



Do not use the couch for transportation



Warning :  
Pinching risk between the sides and the seat of the couch



Be careful to avoid trapping fingers or limbs during use



### Warning

The warning pictograms and signs installed by the manufacturer must not be removed ! The manufacturer's responsibility is cancelled if these signals are removed.

## **Power supply**



*Class 2 type products are without earth protection due to the use of double isolated electric housing powered by a bipolar cable.*

## **Electromagnetic interfere**

This Promotal examination equipment was designed and built in order to minimize electromagnetic interferences with other devices. If interferences are noted, it is necessary to withdraw the parts causing the interference and/or to connect the equipment on isolated circuits.

# Precautions when unpacking

## **Material delivered in cardboard packaging**

*Small, lightweight, easy to handle material*

In this case, the products can be easily handled without any lifting gear, taking care to position the product according to the directional arrows on the packaging.

In the absence of arrows indicating the top and bottom, use the position of the various product identity labels which are always placed at the top.

*Heavy or cumbersome material requiring the use of lifting gear*

In this case, it is possible to use a fork lift truck, provided it is used correctly.

Before moving, ensure the material is properly positioned, and that the load is evenly balanced.

## **Dismounted material**

These products are delivered unassembled.

The various elements are protected by the following types of packaging :

- plastic (vinyl) packaging
- bubble film packaging / foam or polystyrene
- cardboard packaging.

## **Products delivered on wooden palettes**

Products placed on a wooden palette may easily be moved using a forklift truck, provided this is used correctly. Before moving, ensure the truck is correctly positioned in relation to the palette, and that the whole is stable. Take additional caution when handling very tall or high articles (eg. cupboards).

## **Storage condition**

Ambient Temperature Range :

Relative Humidity :

Atmospheric Pressure :

The following conditions must be observed when storing any material :

- The area must be clean, well ventilated and be of a normal temperature.
- Store products away from the elements, and away from direct sunlight.
- The area must not be damp.

-15 °C to +60 °C (+5 °F to 140 °F)

10 % à 90 % (non-condensing)

0.5 bar to 1.05 bar (500 hPa to 1050 hPa)

- The products must not be subject to bumps or jolts.
- Do not store in an area where people are likely to pass.
- Articles must not be stacked on top of each other.
- Articles must remain in their original packaging until final delivery.

## **Conditions of use**

- Dry and temperate area.
- Maximum altitude : 2000 m

- Temperature 10 to 40° C
- Relative humidity 75% maxi.

## **Unpacking / Installation**

When installing, remove all staple clips and carefully remove the cardboard packaging. Fragile parts of the product (upholstery coverings, plastic casings, etc.) may be just below the packaging. Care must be taken with cutting instruments.

Once the packaging has been removed, remove any remaining protective covering.

In the case of packaging on a wooden palette, remove the packaging as above. Depending on the model, the product is fixed either by screwed flanges, or by nailed wooden stakes. Use a spanner (for metal flanges). Use a claw hammer (for wooden stakes). Lift the article off the palette, and remove the remaining protective covering. The product is now ready for use.



## *Verification*

After unpacking the device, follow the steps below :

Check the delivery documents to make sure that the consignment is complete.

Check the external components and look for possible transport damage.

Check that the package contains the device, the accessories and options, the power cord (*if electric DM*) and the Operating guide.

### **Note :**

#### ***Authorized CE representative***

Countries in the EEC should direct all questions, incidents, and complaints to Promotal's Authorized CE representative listed below :

Promotal  
22, rue de Saint-Denis de Gastines  
53500 Ernée,  
FRANCE  
Téléphone : + 33 (0)2 430 517 76  
Fax : + 33 (0)2 430 572 00

# Cleaning protocol

## Warning

It is vital to read the user's manual thoroughly before manipulating this Medical Device. The equipment should only be used for its intended purpose as described in our documentation. Installation and connection must only be carried out by qualified personnel. The electrical components (cylinder, box,

control handle, battery, adapter, etc.) must not be opened under any circumstances. PROMOTAL shall not be held liable for any damage resulting from non-compliance with these instructions.



**Any modification to the medical device without written authorization from the manufacturer is forbidden.**



**Caution**  
**Only accessories designed and provided by Promotal for this medical device are authorised for use.**



**Caution**  
**This medical device is not intended to be cleaned in a washing tunnel.**

## Cleaning/Disinfecting

This medical device must be regularly cleaned using the appropriate detergent products and disinfected using bactericidal, virucidal and fungicidal disinfectants.

A mild detergent such as soapy water can be used for routine cleaning of upholstery, stainless steel, aluminium or painted surfaces, plastic parts and control components, followed by effective rinsing and thorough drying. Detergents and disinfectants designed for use with medical appliances, such as those containing quaternary ammonium compounds, hydrogen peroxide, ethanol, chlorine compounds, etc. can be used on our medical devices provided that:

- The concentration prescribed by the suppliers of such products are complied with;
- The application conditions (contact time, quantity used, temperature, rinsing, etc.) are complied with;
- The supplier's instructions state that the detergent-disinfectant used is suitable for use with:
  - PVC, ABS, Polyamide, Polyurethane, Polypropylene
  - Epoxy-coated metal surfaces
  - Stainless steel or aluminium metallic surfaces.

## Warning :

- Solvents are strictly prohibited.
- The use of abrasive powders or any other abrasive product should be avoided.
- High-pressure cleaning is forbidden.



**Under no circumstances shall Promotal be held liable under warranty for any damage caused by non-compliance with the use instructions for a detergent/disinfectant.**



## **Intended use**

This appliance is designed for use in professional premises only :

- Medical practices
- Care establishments

This appliance must not be installed in domestic premises.

This table is designed to be used only by healthcare staff. This examining table is used to perform interventions under the best possible safety conditions.



This table is not designed to be used as a stretcher.

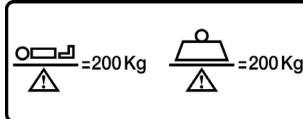
## **Authorisation to use**

Only health professionals (doctors, caregivers) and/or qualified members of the technical staff can handle or use the couch.

Patients and companions must not intervene directly on the couch. They must not have access to the couch controls.

**This medical device must not be used in the presence of anaesthetics that are flammable in air or comburant gases such as oxygen or nitrous oxide in order to prevent all risks of explosion.**

## **Patient weight capacity**



## **Features**

Height electrically adjustable between 54 and 94 cm

Steel frame with grey epoxy finish

Adjustable backrest with gas or electric cylinder

Cut-away side panel for cardiology examinations

Upholstery width 65 cm

Manual control

Block'n Roll® - System of retractable rollers integrated semi-centralised (depending on the model)

Adjustment pads under base

Paper roll holder

(maximum length 50 cm – ø 20 cm)

12 cm of floor clearance compatible with patient hoist

Connection of 3 controls possible

(pedal, remote control)



# User's Guide – Examination Couch

## Electrical connections

This table must be connected to the main electricity supply.

Connection to the supply :	120 V or 230 V (depending on country)
Frequency :	50/60 Hz
Protection Classification / Degree of electric shock protection :	Class 2 / B
Power input :	200 W
Intermittent function mode :	1 min / 9 min
Maximum operating altitude :	2000 m

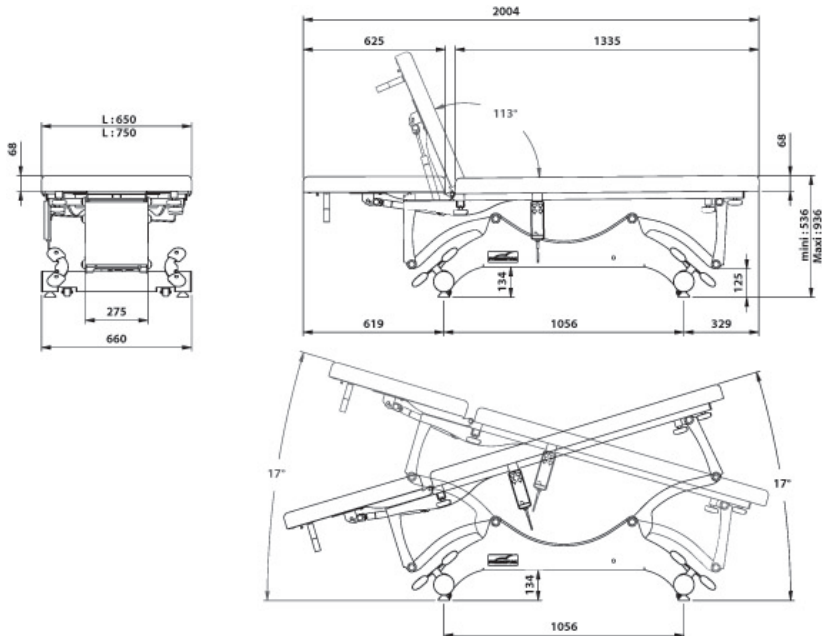


### Caution

A power failure may prevent the patient support from being lowered. In such an event, the patient must be lowered under the best possible safety conditions.

If the chair is not to be used for a prolonged period of time, it should be switched off and disconnected from the mains.

## Dimensions

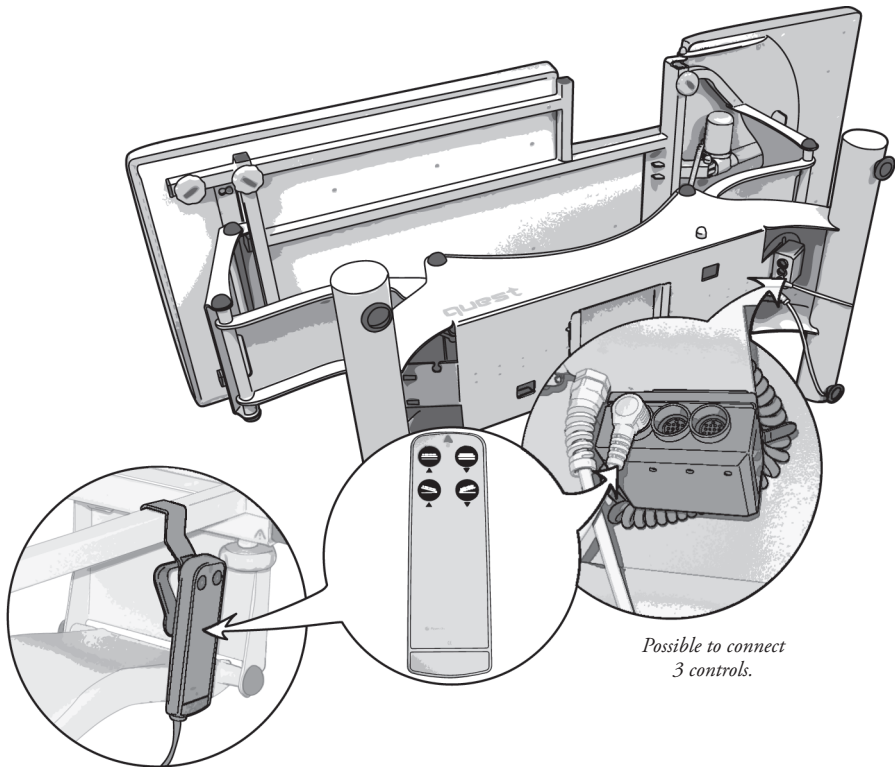


# Using the Couch

**Safety :**

For safety reasons, and in order to avoid malfunctioning, no objects should be placed under the seat cushion or between the moving parts of the couch.

## Connecting the hand control



## Using the hand control

To achieve the desired position, simply apply and maintain pressure on the hand control. As soon as this pressure is released, the movement will stop.

The couch is fitted with an internal device to limit the high and low positions.

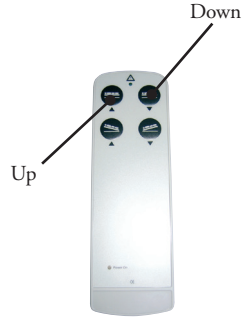
# Using the Couch

## Adjusting the height

Press on the hand control.



Be careful to avoid trapping fingers or limbs during use

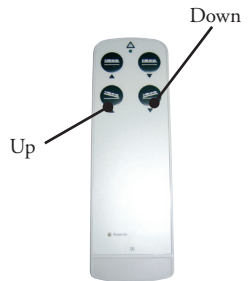


**Note :** After a lot of use, a gap may appear when in the horizontal position. Placing the table in the low (or high) position will reinitialize the motors.

## Adjusting the trendelenburg position

*(for models 2080-20, 2080-30 and 2080-50)*

Press on the hand control.




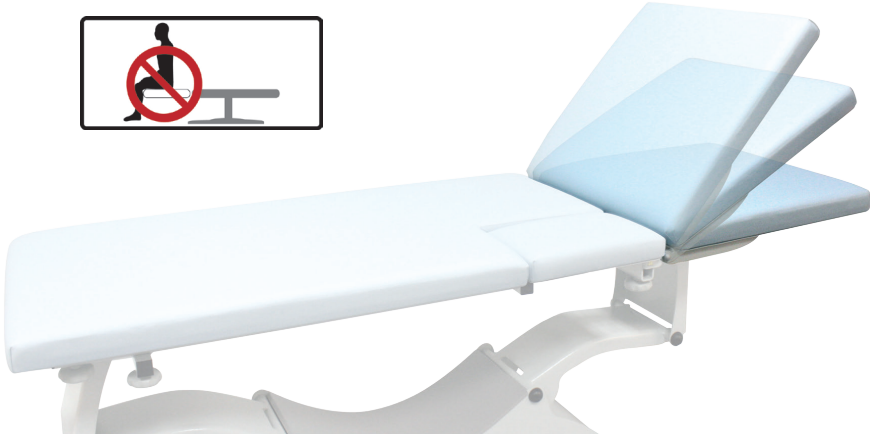
## Adjusting the backrest tilt

(for models 2080-10, 2080-15, 2080-20 and 2080-30)

With one hand, move the lever (L1) either up or down, with the other hand lower or raise the

backrest to the desired position.

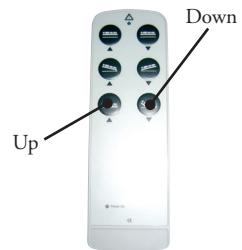
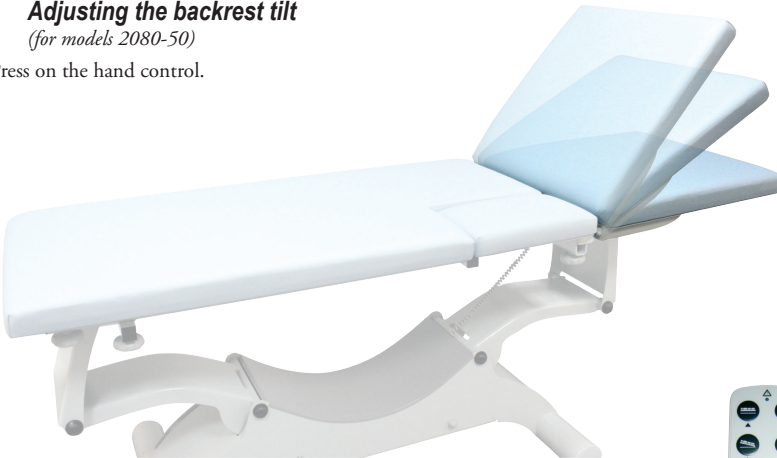
 The patient must not lean with his / her full weight on the backrest during this procedure.



## Adjusting the backrest tilt

(for models 2080-50)

Press on the hand control.

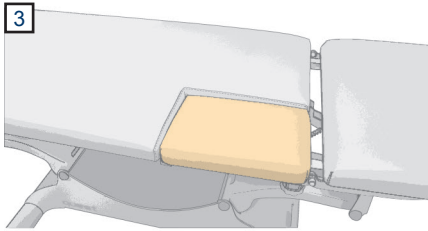
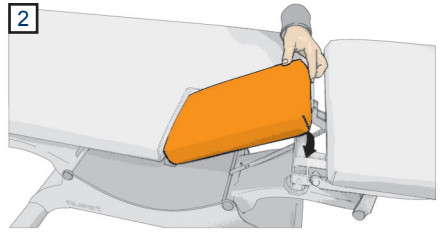
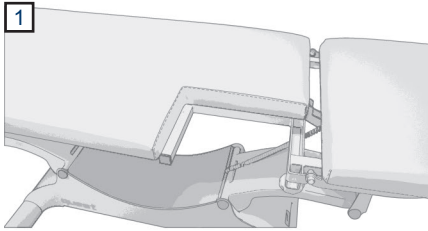
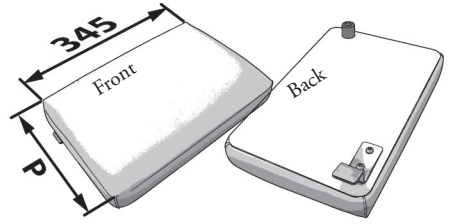



# Using the Couch

## Fill-in cushion

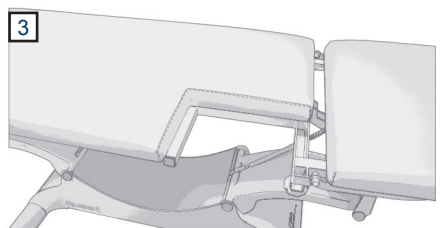
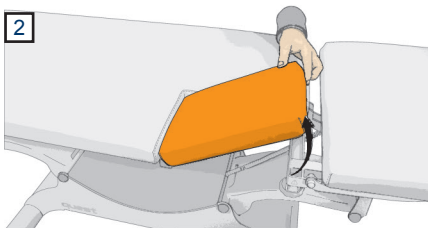
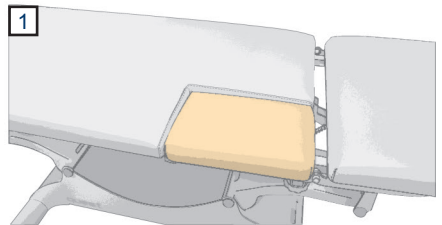
*Installing the cushion*

	P
Standard	230 mm
Option 2081-75	275 mm



 Ensure the cushion is in the correct position before using.

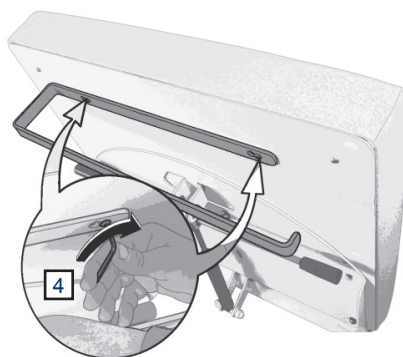
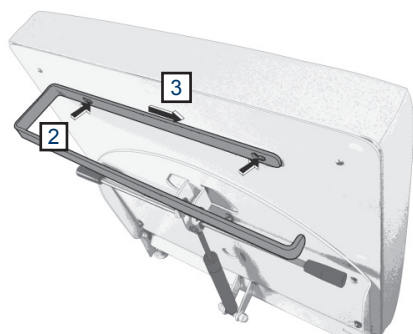
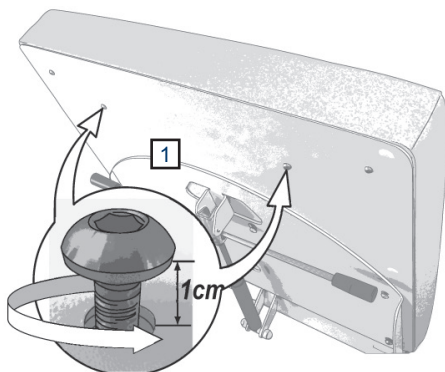
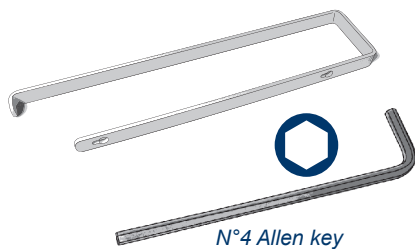
*Removing the cushion*





## Paper roll

### Installation of the paper roll holder

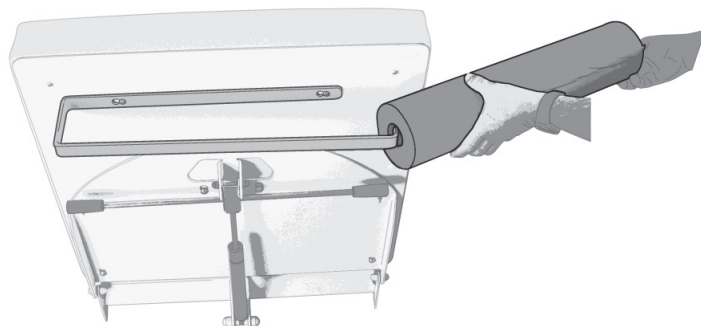


### Using the paper roll

Cover the upholstery with paper before use.



Caution follow the indications provided well obtain a greater longevity of the material.

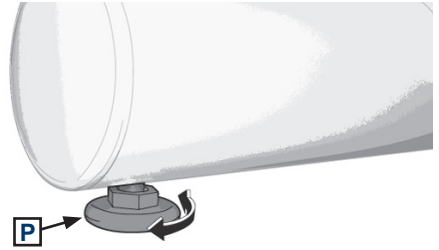


# Using the Couch

## The levellers

### *Adjusting the levellers*

Screw or unscrew the leveller to the desired height.



## **Block'n Roll**

*(for models 2080-15, 2080-30 and 2080-50)*

### *Using the Block'n Roll*



**Caution :** **Must not be use with the patient, This system is only to be used to move the table for cleaning purposes.**

Working position



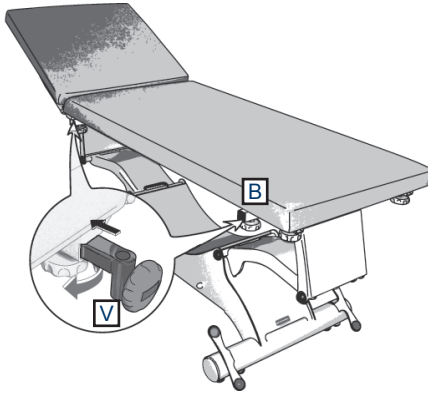
Moving position



**Caution** Ensure the table is in a working position before placing a patient on the table.

## Pair of Clamps

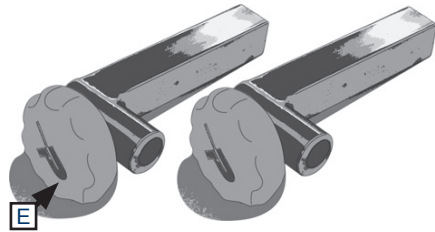
(reference 166)



### *Installing the Clamps*

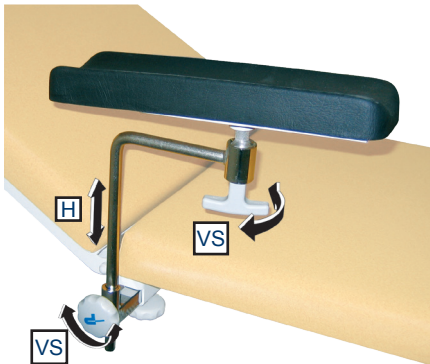
Take the stopper (B) out of the square tube if necessary. Loosen the nuts (V), and put the pair of clamps ref.166 (E) into position in the square tubes. Tighten the nuts.

The clamps accept accessories with a diameter of 16 mm.



## Arm rest

(reference 2536)



### *Adjusting the arm rest*

The standard arm rests can be adjusted in height (H) and can be positioned in all directions due to the ball and socket joint underneath the armrest. To adjust the armrests, loosen the screws (VS) and position as desired.



**Caution**  
Re-tighten the screws before use.



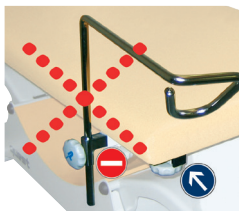
**Caution**  
Clamps are necessary to install these accessories.  
(réf. : 166)


# Accessories

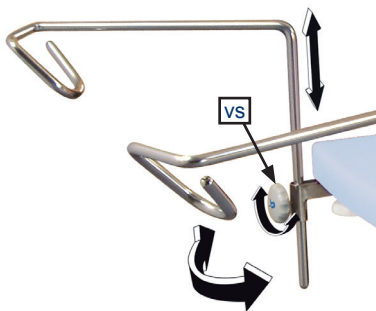
## Pair of stirrups


(reference 850)

*Installing the stirrups*



 Tighten screws before use.

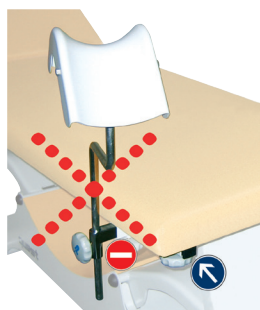



**Caution**  
 Clamps are necessary to install these accessories.  
(réf. : 166)

## Pair of legrests


(reference 840)

*Installing the legrests*



 Tighten screws before use.



**Caution**  
 Clamps are necessary to install these accessories.  
(réf. : 166)

## Pair of covers for legrests

(reference 861)



## 2 hook IV pole

(reference 985-01)

*Installing the IV pole*



Tighten screws before use.



### Caution

Clamps are necessary to install these accessories.  
(réf. : 166)



## Auto-blocking I.V. pole

(reference 2985-01)



*Adjusting the height of the IV pole*

The IV pole has 1 sliding stem.  
Use the screw to adjust the height of the lower stem  
and the bolt to adjust the upper stem.

*Installing the IV pole*

Unscrew the screw handle.

Insert the I.V. pole and rescrew.



### Caution

Clamps are necessary to install these accessories.  
(réf. : 166)



Tighten screws before use.



## The pair of barriers (reference 85114-01)

### Installing the pair of barriers

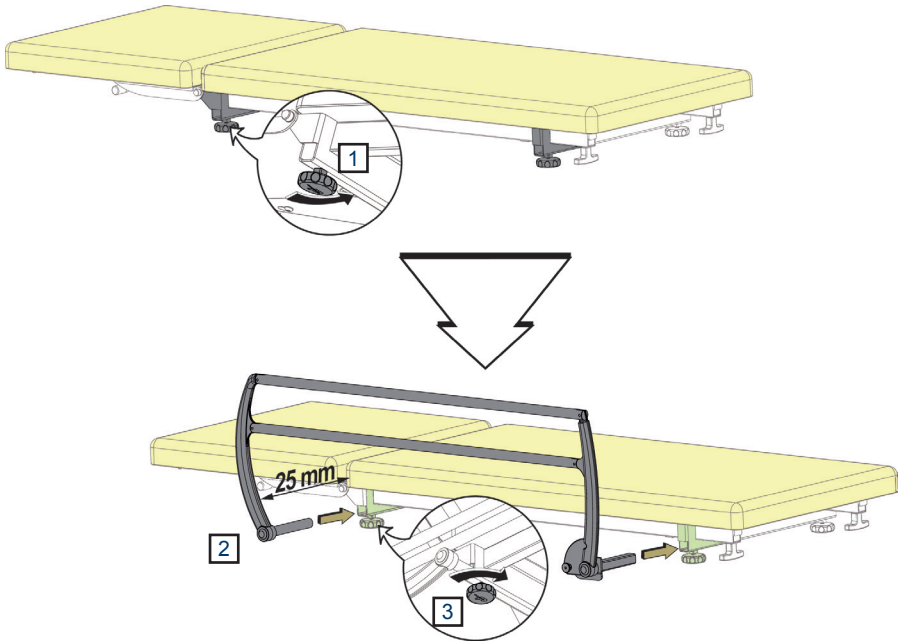
1. Unscrew the screw.
2. Insert the pair of barriers. *Approach the barriers to obtain a spacing of 25 mm between the barriers and the upholstery.*

3. Tighten the screw.



#### Caution

25 mm (acceptable spacing indicated by ISO 13852 : 1996 norm).



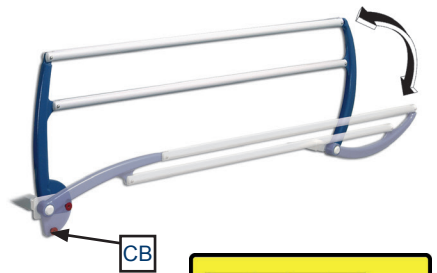
### Using the pair of barriers

#### To raise the pair of barriers

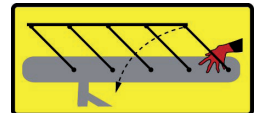
Take hold of the upper part, and lift it to its maximum height until it clicks into place.

#### To lower the pair of barriers

Hold the rail with one hand, and activate the lever (CB) to unlock the system with the other hand, then guide it down to its lowest position.



Ensure the side rails are correctly locked in position before use.



## Headrest

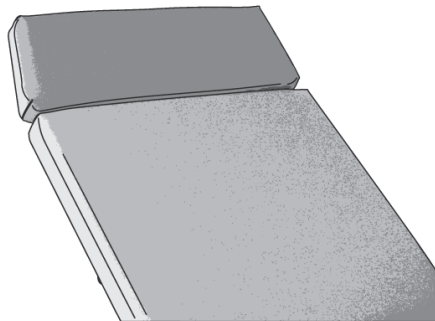
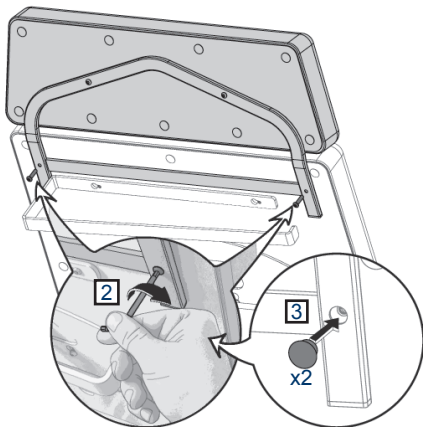
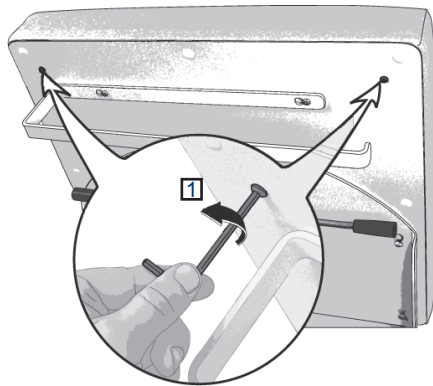
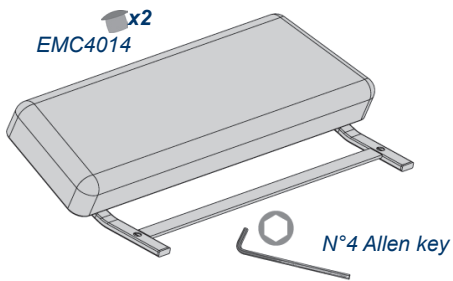
(reference 1102-10)



## Backrest extension

(reference 2055-01)

*Installing the Backrest extension*

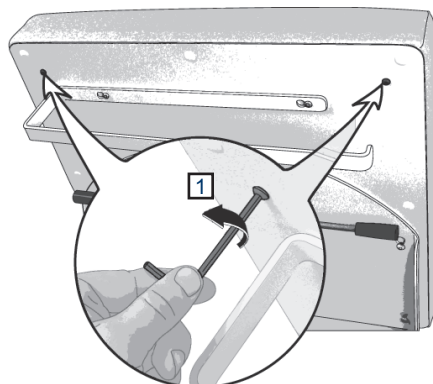
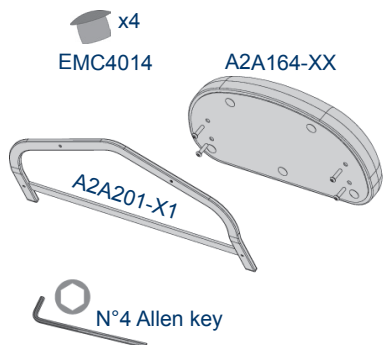


# Accessories

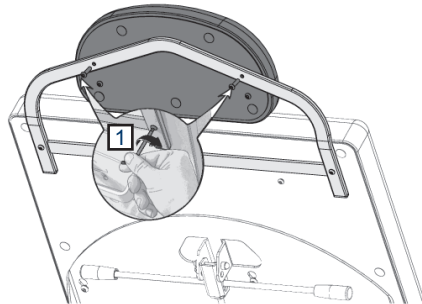
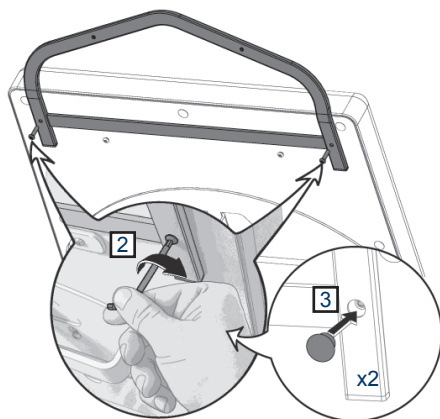
## Headrest

(reference 2054-01)

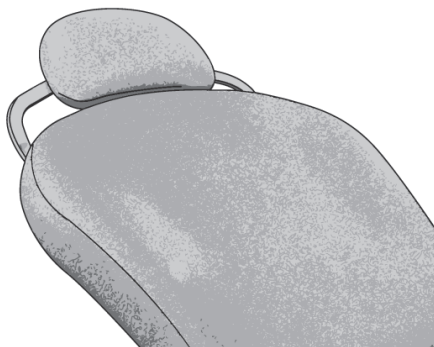
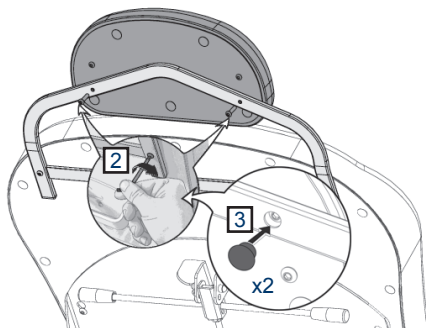
*Installing the Headrest*



Installation of the headrest on the upholstery  
600150-65 et 600150-75



Installation of the headrest on the upholstery 600150-70

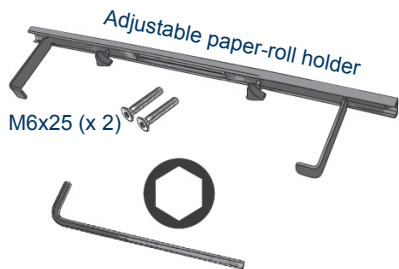




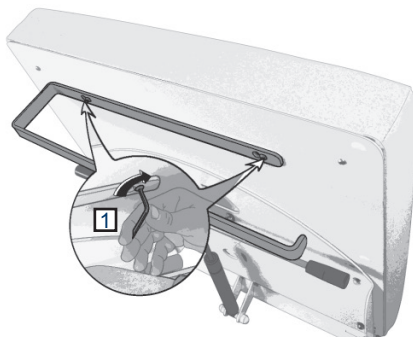
## Adjustable paper-roll holder

(reference 2056-02)

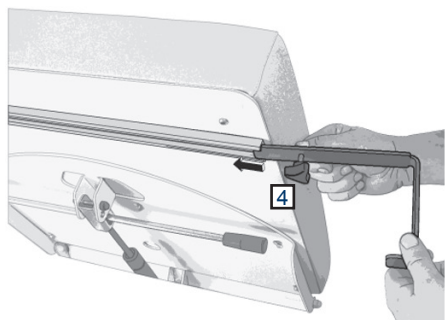
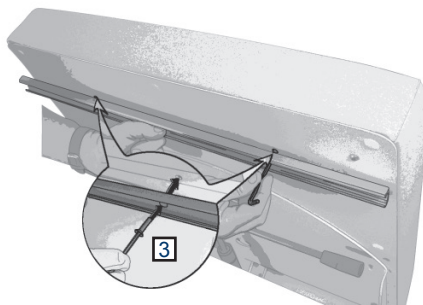
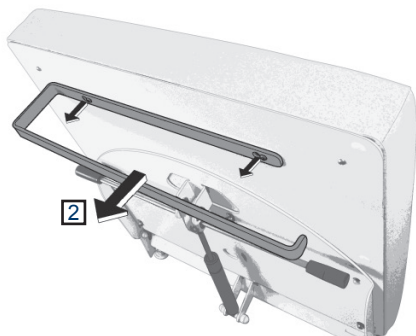
*Installing the paper roll holder*



1. Remove the standard paper roll holder.

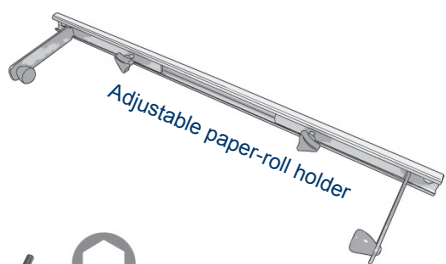


3. Replace the paper roll holder.



# Accessories

*Installing the paper roll holder  
[with the head-rest (ref. : 2054-01)]*



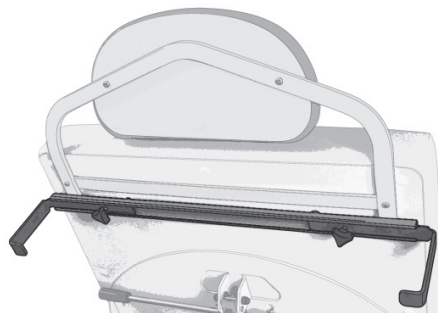
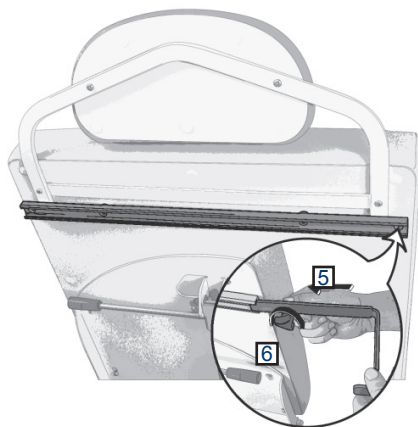
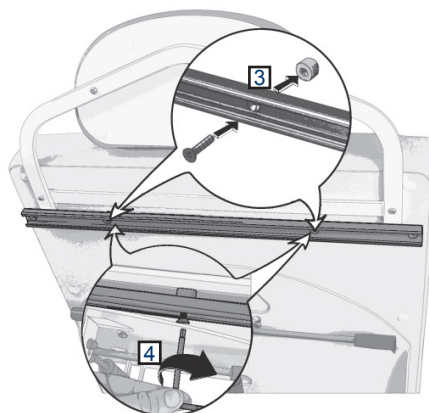
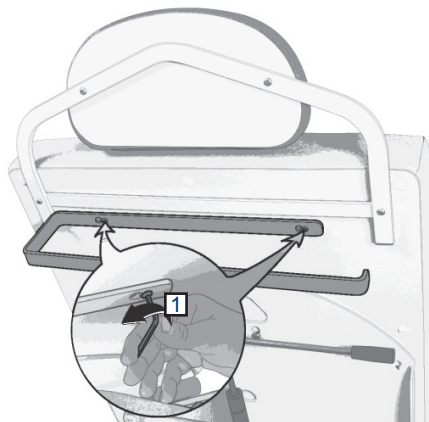
N°4 Allen key



M6x30 (x 2)



ENT0810 (x 2)

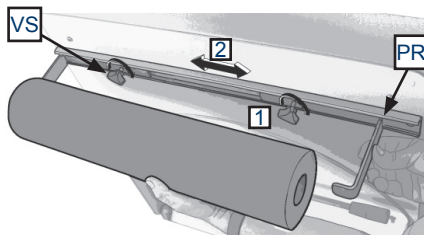


### Installation of the paper roll

The paper roll is positioned on a mobile axis with adjustable hooks at each end.

1. Unscrew the screw handle (VS).
2. To remove the paper roll holder  $\frac{1}{2}$  slightly (PR).
3. Insert the paper roll.

**Cover the upholstery with paper before use.**

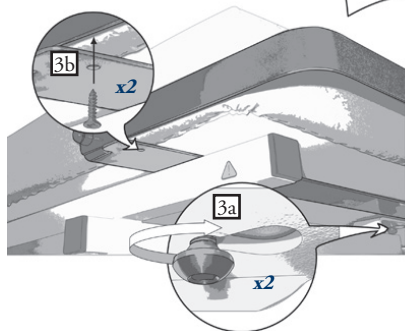
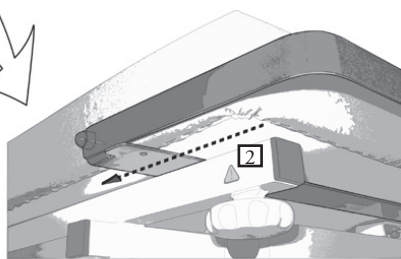
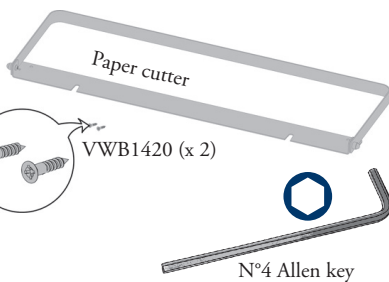
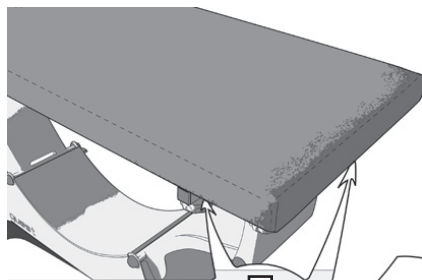


### Paper cutter


(reference 2052-65 and 2052-75)

(Reference relative to the upholstery chosen 65/75 cm)

#### Installation of the paper cutter



- 1) Slightly unscrew the 2 screw of the table.
- 2) Insert the paper cutter.
- 3) Tighten the screw of the table, the screw the VBA screws in the holes provided for these.

 **Tighten screws before use**

# Accessories

## *Using the paper cutter*

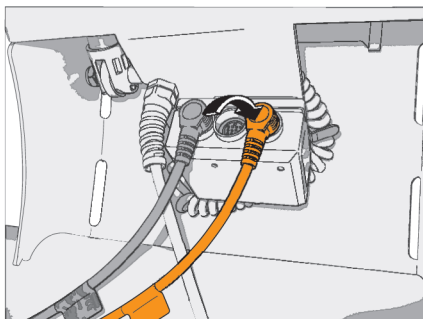
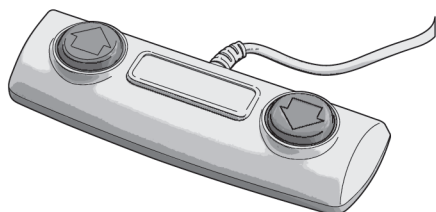
- 1) Slide the paper under the paper cutter.
- 2) Replace the paper cutter.



## **The pedal control**

*(reference 2051-10)  
(for model 2080-10 and 2080-15)*

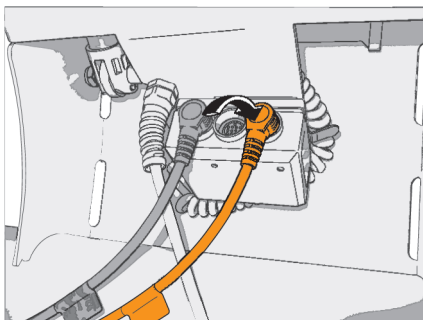
*Installation of the pedal control  
(Cf: page 16)*



## **The pedal control**

*(reference 2051-20)  
(for model 2080-20 and 2080-30)*

*Installation of the pedal control  
(Cf: page 16)*



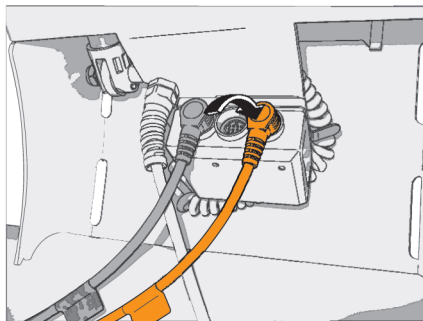
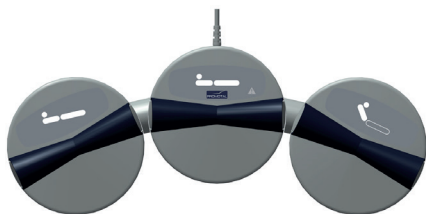
## **The pedal control**

*(reference 2051-30)*

*(for model 2080-50)*

*Installation of the pedal control*

*(Cf: page 16)*



# Options

## Castors with brakes

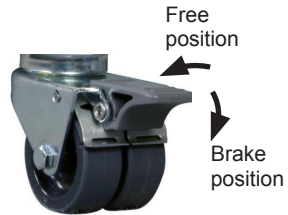
(reference 81036)

(pour modèle 2080-10 and 2080-20)

Using the castors



**Caution :** **Must not be use with the patient,** *This system is only to be used to move the table for cleaning purposes.*



### Caution

Ensure brakes are fully engaged before installing a patient.

## Face slit in head-cushion

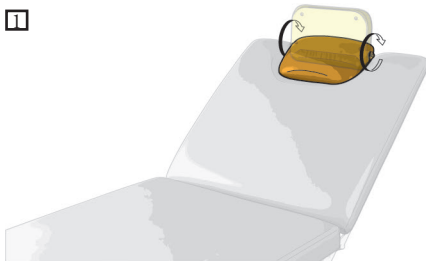
(reference 2231-65 and 2231-75)

This upholstery only corresponds to the following

reference : **600150-65**

**600150-75**

1



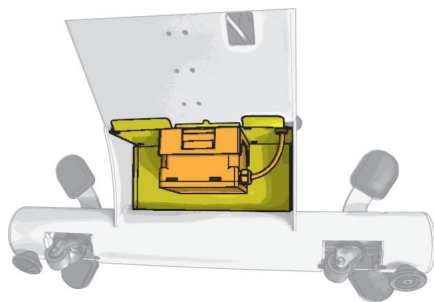
2



3



## Accumulator (references 2092)



### Technical characteristics of the accumulator

Voltage .....	24 V DC
capacity .....	1.2 Ah
Fuse.....	T 15 A
Protection index .....	IPX6
Type of accumulator.....	Gel plomb
Charge time .....	approx. 14 h (depending on the power unit)
Lifespan.....	approx. 1000 cycles (depending on conditions of use of the chair)
Discharge time.....	approximately 1 year (storage)

### Safety symbols for the accumulator



Conformity marks



Do not dispose of item  
in household waste

**IPX6**

Protection index  
against solids and  
liquids



Recycling



Use in dry rooms only

**Pb**

Pollutants contained :  
lead, among others



Fuse

**To guarantee product safety, a seal is attached to all products.**



**Opening the product damages the seal, thus indicating that the product has been modified or falsified.**

**This nullifies the guarantee in any case.**




#### Safety :

For safety reasons, and in order to avoid malfunctioning, no objects should be placed under the seat cushion or between the moving parts of the couch.

## Protection Classe 1 and equipotential terminal

(references 2059-01)

### Electrical connection : Class 1

Connection to the supply :	120 V or 230 V (depending on country)
Frequency :	50/60 Hz
Protection Classification / Degree of electric shock protection :	Class 1 / B
Power input :	200 W
Intermittent function mode :	1 min / 9 min 
Maximum operating altitude :	2000 m



*This medical device has electrical classification 1, it must only be connected to a power supply equipped with a protective earth.*

### Equipotential terminal

the equipotential terminal allows the connection of an equipotential conductor to bring all the different elements of an electro-medical system to the same potential.



*The equipotential terminal must not be used as a protective earth connection under any circumstances.*



#### Caution :

The 85114-01 barriers are not compatible with this DM in class 1.



# Lifespan of the Medical Device

This medical device was designed for a service life of 10 years, excluding wear parts in normal working conditions. This duration may change depending on the frequency of use.

## CHECK AT LEAST ONCE A YEAR THE GENERAL CONDITION OF THE DEVICE.

*The wear parts are :*

- The upholstery
- The knobs and screws

Do not hesitate to contact your dealer to replace or repair the wear parts at a maximum of 1 year of use.

For any intervention, please contact your local authorized dealer, indicating the serial number of the device.

## Obligatory/specific maintenance

*Once per year :*

- Check the screws and the rods.
- Check the articulated parts.
- Check the structure did not undergo any deformation.
- Control the various connections.
- Note this information and the date in the maintenance notebook.

## End of the device's useful life

Your dealer is responsible for reclaiming and processing this device at the end of its service life.

Do not hesitate to contact your dealer if necessary. We will suggest a solution to protect this equipment in the best conditions.



### Equipment warning

All mattresses with torn covers must be promptly replaced in order to guarantee optimum functionality of this DM.



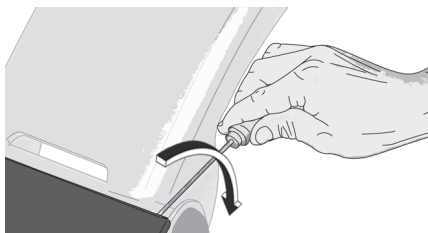
### Material warning Do not dismantle the equipment

If a defect is detected, immediately contact your retailer or the after-sales department of your retailer (cf Warranty Information) for a complete diagnosis. If a doubt remains, do not use the equipment.

## Access to electric components (only in the case of malfunctioning),

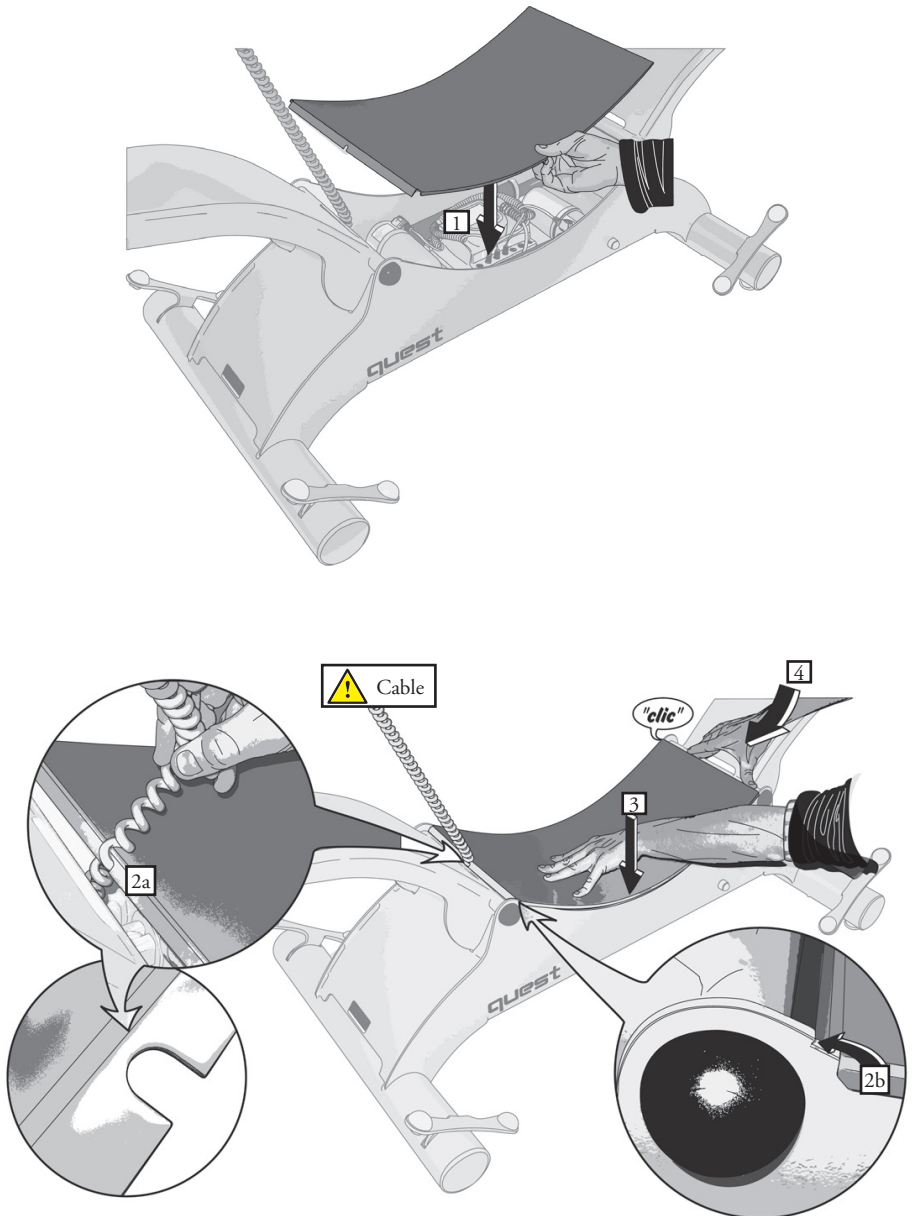
*Dismounting the color plate*

Use a flat screwdriver to remove the plate.



# Lifespan of the Medical Device

## *Re-fit the protection cover*



## MAINTENANCE NOTEBOOK

Product Reference :  
Serial number (cf. label) :  
Manufacturing date (start date of warranty) :

.....  
.../.../...

Date	Name of technician	Type of intervention - corrective action

If the product is returned to the retailer or manufacturer, please clean and disinfect the material.

# Note



# Warranty Information

## Warranty

Promotal warrants, to the original purchaser, products manufactured by Promotal and components to be free from defects in materials and workmanship for a period of two (2) years\* from the date of purchase.

### *Obligations*

Promotal will, at its discretion and expense, replace defective parts reported to Promotal within the applicable warranty period, and which, upon examination by Promotal, prove to be defective.

In accordance with CE regulation, Promotal's distributor is responsible for after sales service during and after the warranty period.

### *Exclusions*

- This warranty does not extend to :

- (1) Spare parts and consumables.
- (2) Travel and labour expenses.
- (3) Breakdowns due to improper use, manifest neglect, or to moving the device.
- (4) Equipment whose original characteristics have been changed by the user.
- (5) Control units, hydraulic and electric jacks if opened by the user (seals broken).
- (6) Damage, breakdowns, failures, or defects attributable to outside causes (lightning, electric surges, floods, natural catastrophes, impacts, etc.) or to the presence of foreign objects.
- (7) Damage caused by improper hook-up or by the power supply, damage caused by corrosion or by gradual deterioration of the product.
- (8) Indirect damage related to loss of use and penalties generated by poor performance.
- (9) Aesthetic damage incurred by the outside parts of the equipment, which does not hinder proper operation, such as scratches, chips, and scrapes.
- (10) Devices whose serial number has been rendered illegible or has been changed or removed

### *Exclusive Remedy*

Promotal's only obligation under this warranty is the replacement of defective parts. Promotal shall not be liable for any direct, indirect, special, incidental, exemplary, or consequential damages or delay, including, but not limited to, damages for loss of profits or loss of use.

### *No Authorization*

No person or firm is authorized to create for Promotal any other obligation or liability in connection with the products.

**THIS WARRANTY IS PROMOTAL'S ONLY WARRANTY AND IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED.**

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\* Upholstery sets are warranted 1 year from manufacturing defaults.

# EU Declaration of Conformity

We,

**Promotal**

22 rue de Saint Denis de Gastines

53500 Ernée – France

SRN: FR-MF-000001666

declare, under our sole responsibility, that the following electrical medical device:

Commercial name: Quest Cardio 2080-10 / 2080-15 / 2080-20  
2080-30 / 2080-50

Description: Electric Examination Couch

Basic UDI-DI: 37014094QUESTCARDIO58

is a Class I medical device,

complies with the requirements of **Regulation (EU) 2017/745** of the European Parliament and of the Council of 5 April 2017,

complies with the following European directives:

- **Directive 2011/65/EU (RoHS 2)** of the European Parliament and of the Council of 8 June 2011
- **Delegated Directive (EU) 2015/863** of the Commission of 31 March 2015
- **Directive (EU) 2017/2102** of the European Parliament and of the Council of 15 November 2017

meets the applicable European standards,

bears, as such, the CE marking.

Year that the CE (Medical Devices) marking was initially affixed: 2010

Signed in Ernée,

On 26 May 2021



Rudolf MOURADIAN

Chairman

Promotal

22 rue de Saint-Denis de Gastines, 53500 Ernée, France

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Fax : +33 (0)2 43 05 72 00 [www.promotal.com](http://www.promotal.com)

EN



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