



USER GUIDE

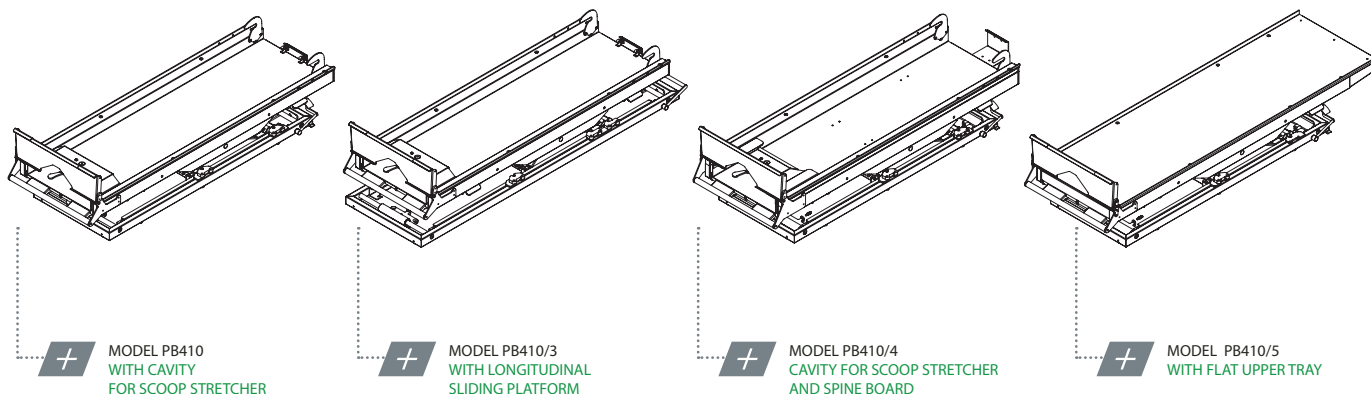
BENCH // PB-410 SERIES

Review 01/15



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01 INTRODUCTION

01.1 Using this manual

This manual provides using and maintenance instructions of the product, as well as the way of fixing minor faults that could appear.

It is recommended before the operation of the product to read carefully this manual in order to avoid damages caused by a misuse.

Do not lose this document, it should be accessible to any doubt that could appear by medical personnel.

Remember that a good use and maintenance are necessary for the proper operation of the product.

Each product incorporates an identification sticker with the serial number and the model. Keep these numbers so that they can be indicated to the dealer if necessary.

01 INTRODUCTION

01.2 Technical data sheet

MEASURES AND FEATURES // PB 410

LENGTH 1800 mm

WIDTH 595 mm

HEIGHT 315 mm

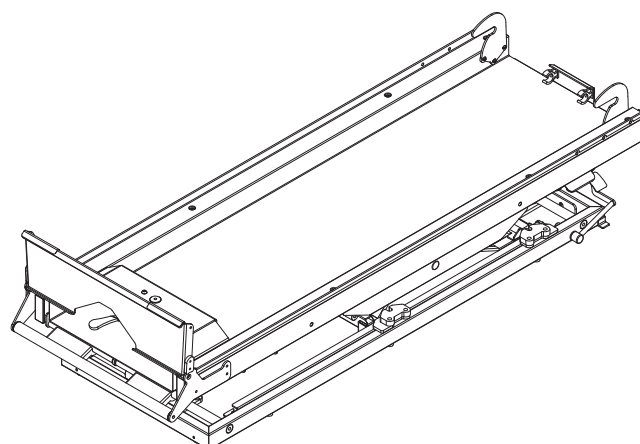
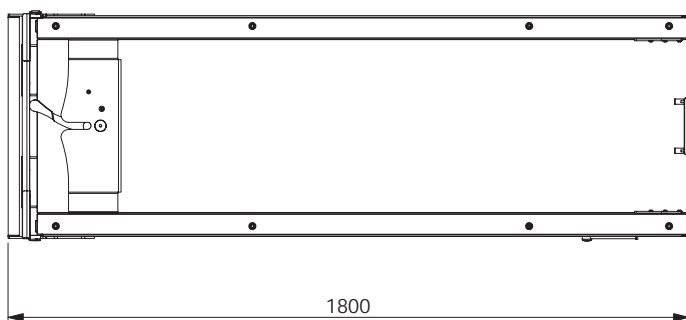
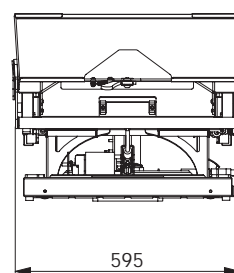
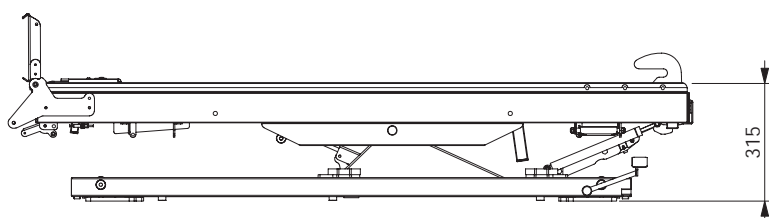
WEIGHT 83 Kg

TRENDELEMBURG $-10^{\circ} / +10^{\circ}$

HEIGHT LOADING ± 100 mm

SIDE MOVEMENT 300 mm

MAX. LOAD 220 Kg



01 INTRODUCTION

MEASURES AND FEATURES // PB 410/3

LENGTH 1925 mm

WIDTH 595 mm

HEIGHT 315 mm

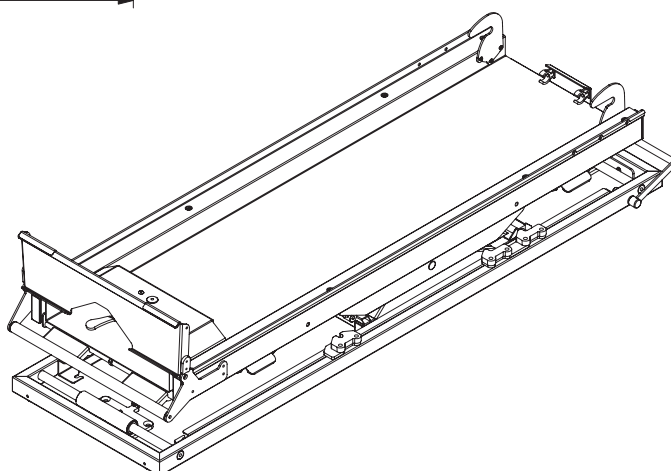
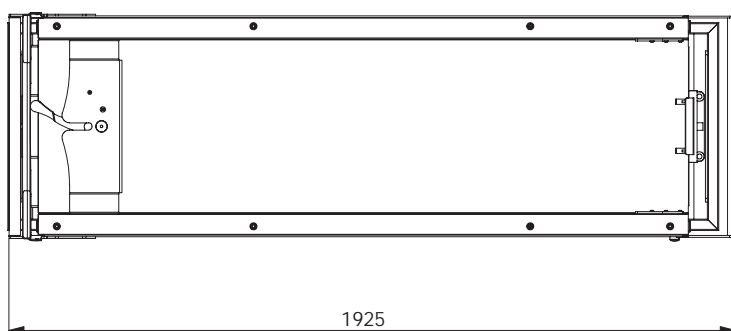
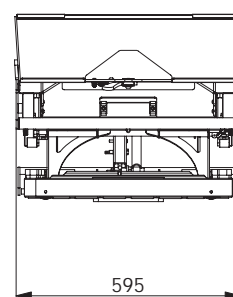
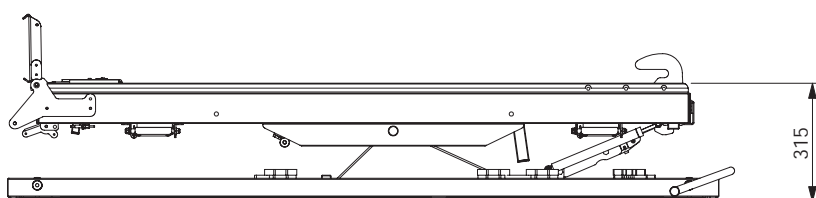
WEIGHT 85 Kg

TRENDELEMBURG $-10^{\circ} / +10^{\circ}$

HEIGHT LOADING ± 40 mm

FRONT / SIDE MOVEMENT 300 mm / 360 mm

MAX. LOAD 220 Kg



01 INTRODUCTION

MEASURES AND FEATURES // PB 410/4

LENGTH 1930 mm

WIDTH 600 mm

HEIGHT 345 mm

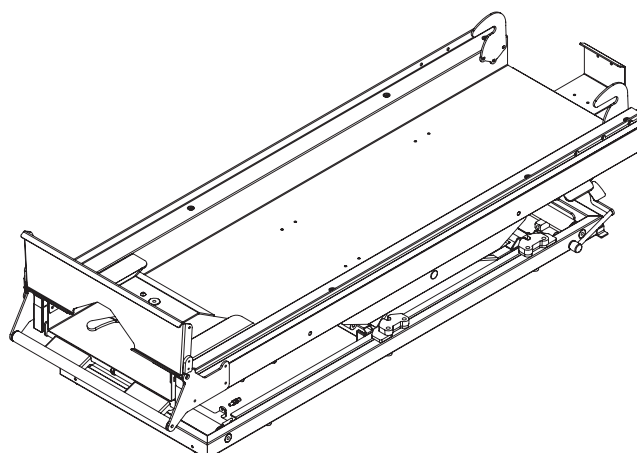
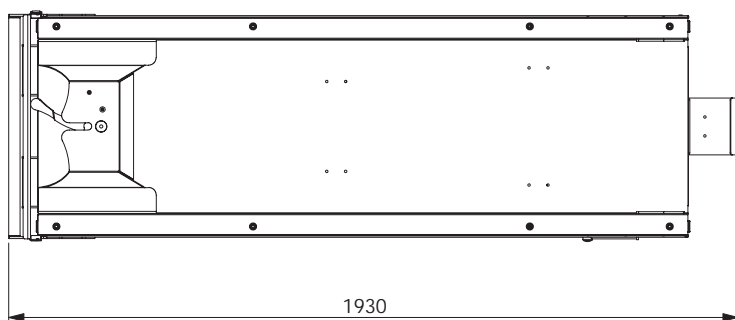
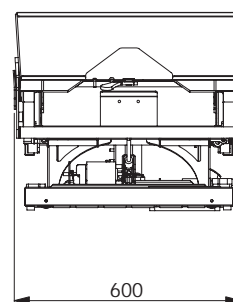
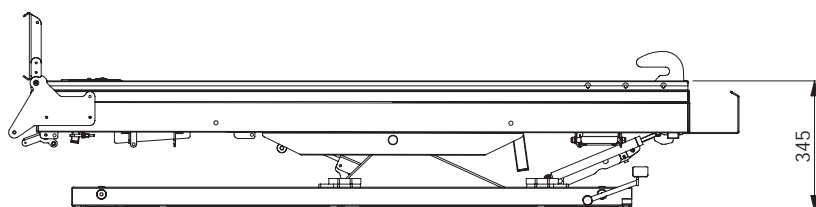
WEIGHT 83 Kg

TRENDELEMBURG $-10^{\circ} / +10^{\circ}$

HEIGHT LOADING ± 40 mm

SIDE MOVEMENT 300 mm

MAX. LOAD 240 Kg



01 INTRODUCTION

MEASURES AND FEATURES // PB 410/5

LENGTH 2000 mm

WIDTH 595 mm

HEIGHT 315 mm

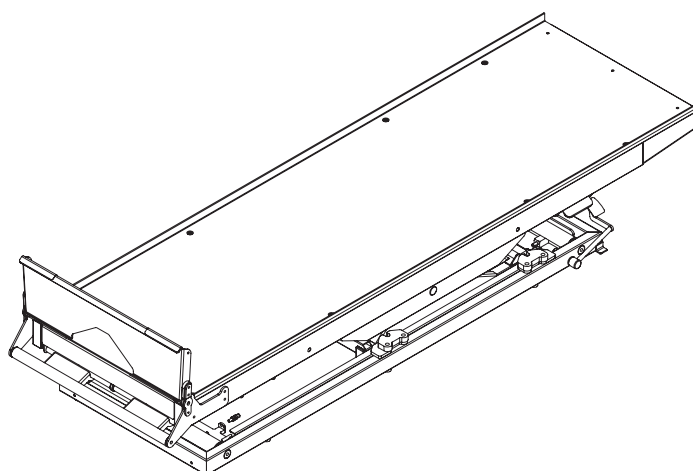
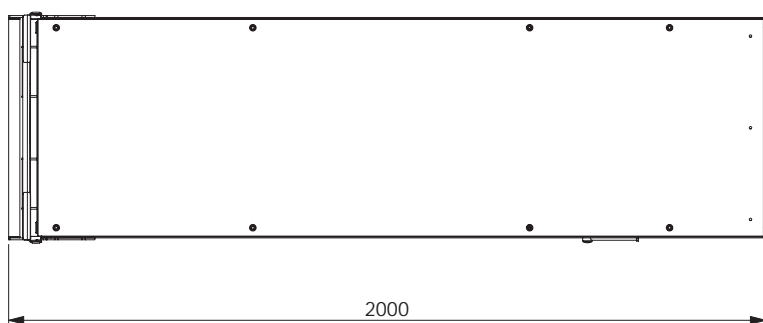
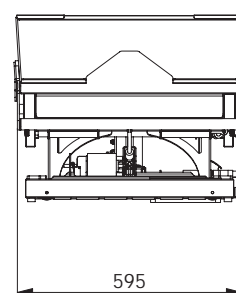
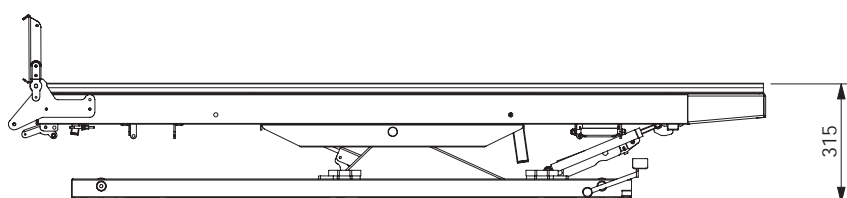
WEIGHT 88 Kg

TRENDELEMBURG $-10^{\circ} / +10^{\circ}$

HEIGHT LOADING ± 40 mm

SIDE MOVEMENT 300 mm

MAX. LOAD 220 Kg





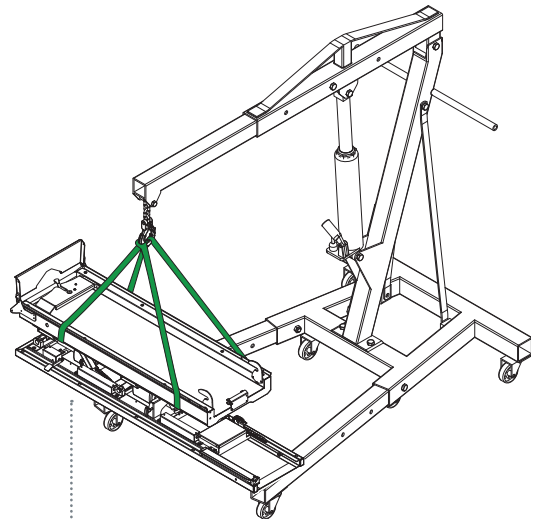
02 INSTALLATION

02.1 Transport and unpacking

First carefully remove the packaging to prevent the damage of the outside of the stretcher support.

1. Transport with a crane (high load)

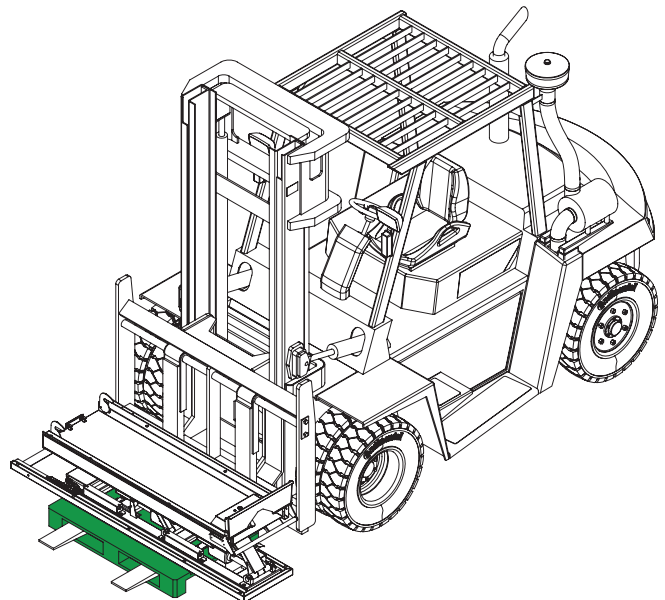
- Thread tapes through the upper platform for its transport (as shown in graphs)
- Transport the load level following all the precepts and regulations for the transport of suspended loads.



TRANSPORT WITH A CRANE
FIX THE TAPES TO LEVEL THE LOAD WEIGHT

2. Transport with a forklift

- Place a pallet or a flat surface under the bench and transport it transversely.
- Do not load the bench directly on the forklift without a pallet or a flat support surface.
- Do not load the bench longitudinally on the forklift if a sufficiently long base is not available.
- Every bench has been thoroughly inspected leaving the factory. To ensure that it hasn't been damaged during the transport, it is requested to carefully examine the interior and exterior, and in case of finding any damage, communicate immediately to the installer.
- The bench should be levelled for an optimum performance.



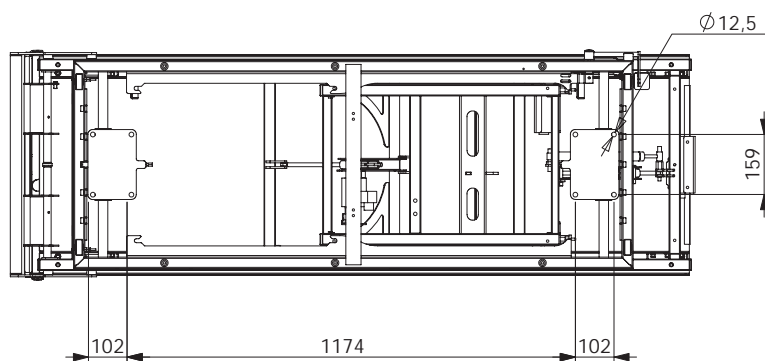
TRANSPORT WITH A FORKLIFT
USE ALWAYS A FLAT SUPPORT SURFACE

02 INSTALLATION

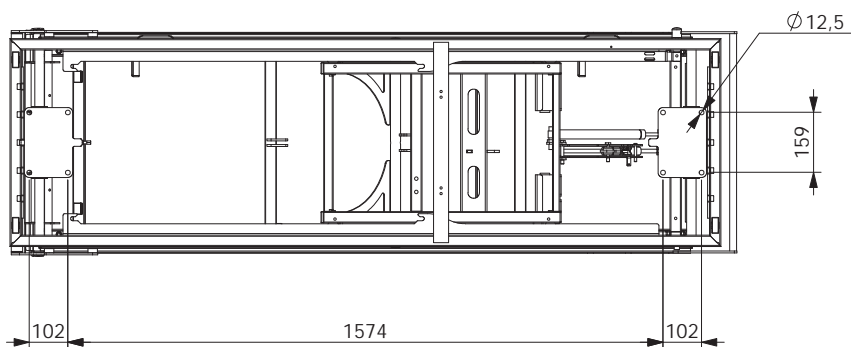
02.2 Anchore points

Before putting the bench into operation, ensure that each and every anchorage points are placed and clasped.

ANCHORE FOR BENCH PB410 (8 anchorage points)

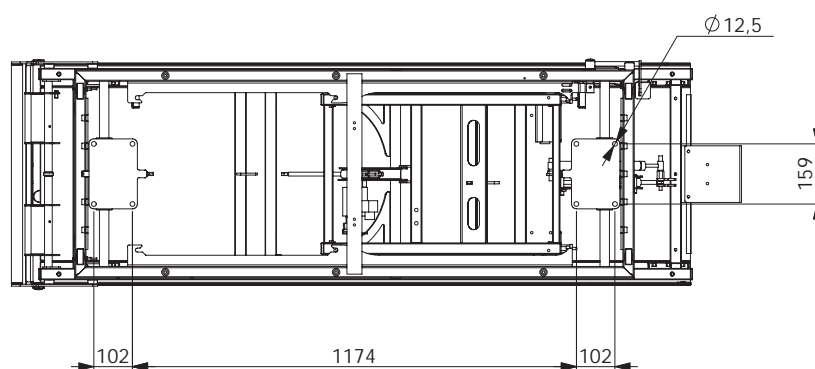


ANCHORE FOR BENCH PB410/3 (8 anchorage points)

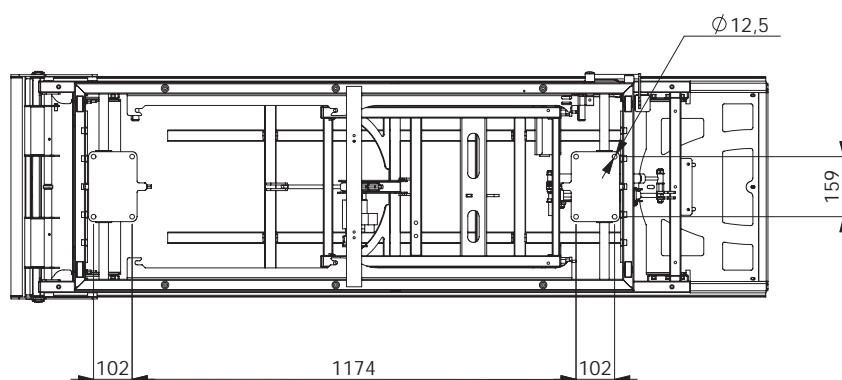


02 INSTALLATION

ANCHORE FOR BENCH PB410/4 (8 anchorage points)



ANCHORE FOR BENCH PB410/5 (8 anchorage points)





03 OPERATION

03.1 Commands PB-410

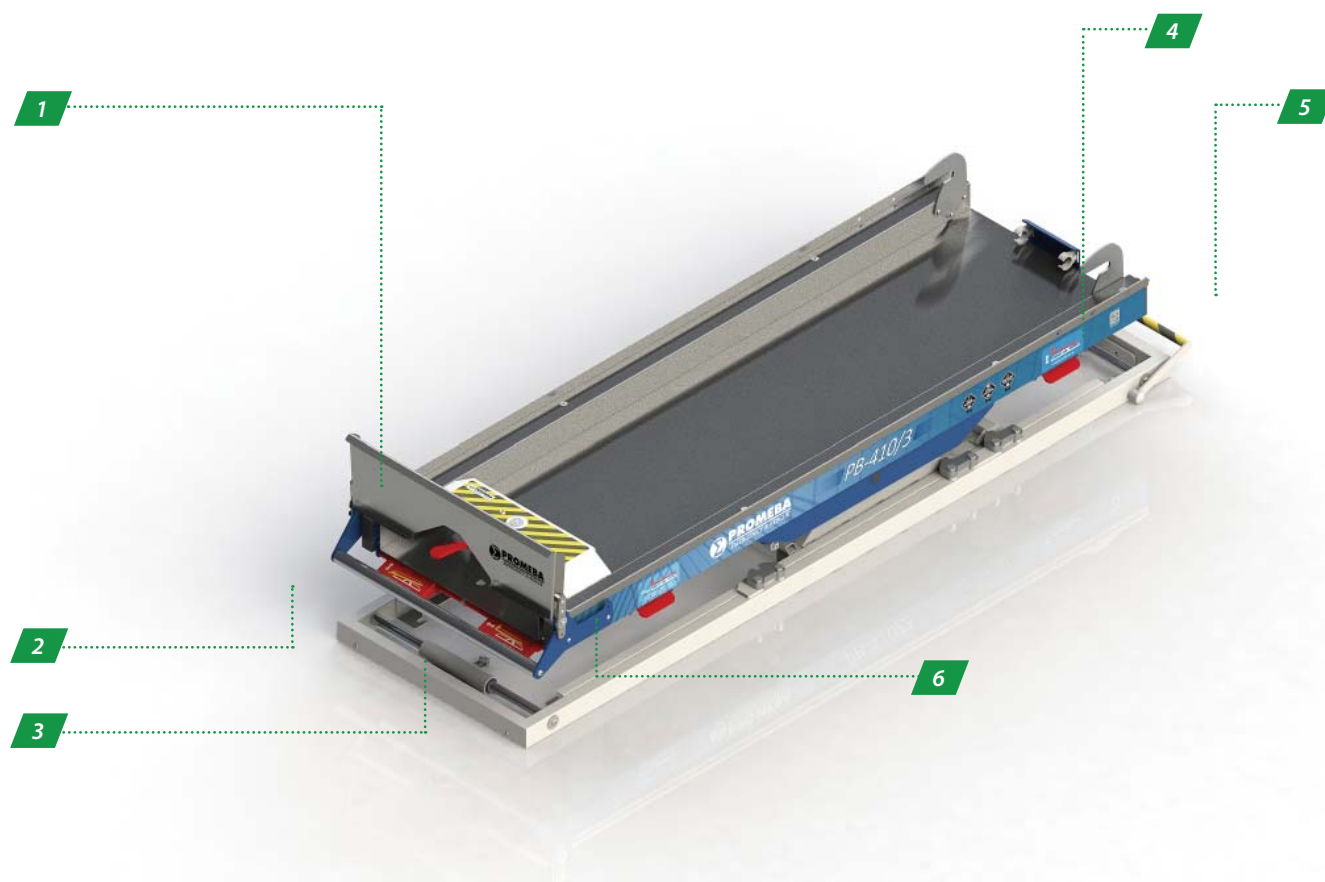
1. Stretcher rear anchor closure
2. Extraction lever
3. Load lever
4. Lateral shift lever
5. Trendelenburg movement lever



03 OPERATION

03.1 Commands PB-410/3

1. Stretcher rear anchor closure
2. Extraction lever
3. Load lever
4. Trendelemburg movement lever
5. Lateral shift lever
6. Longitudinal shift lever



03 OPERATION

03.1 Commands PB-410/4

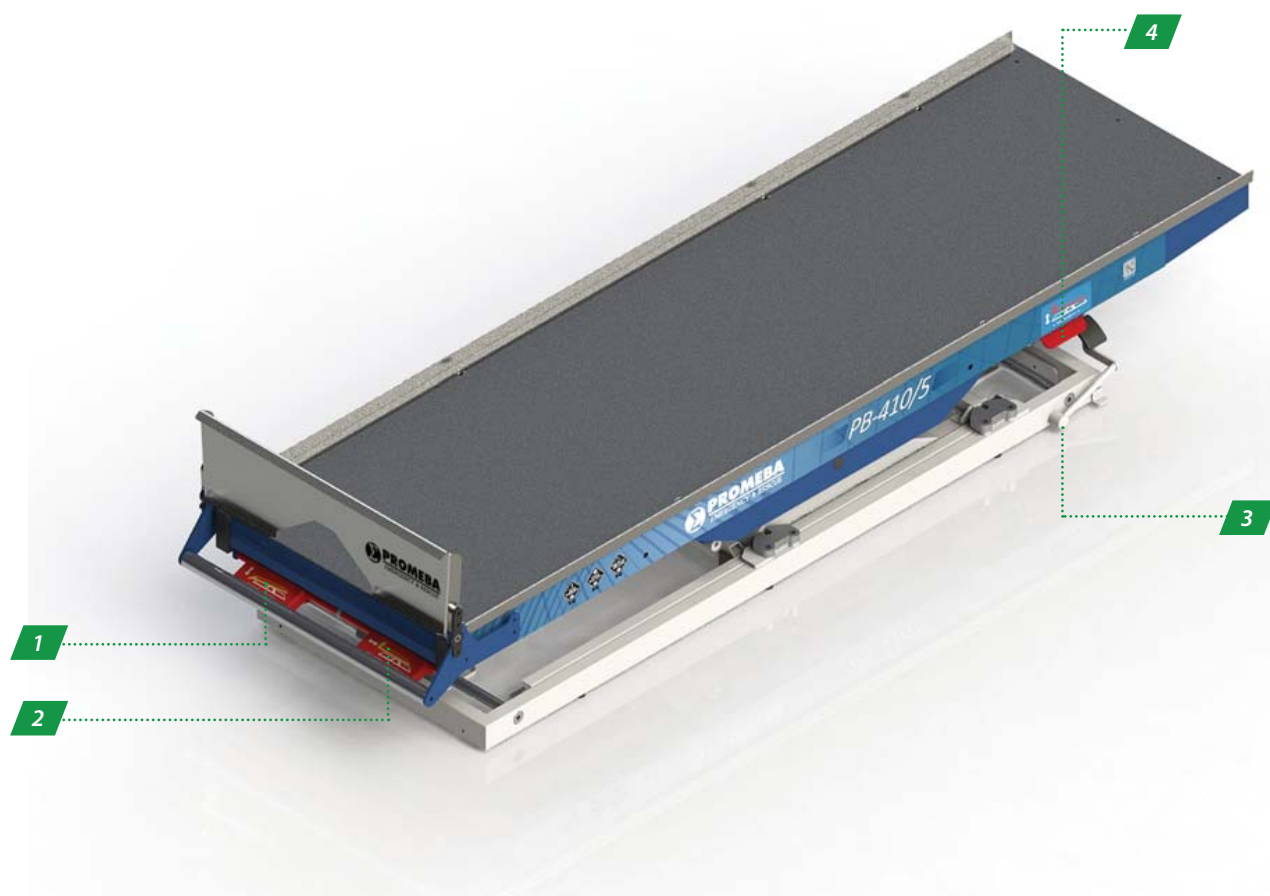
1. Stretcher rear anchor closure
2. Extraction lever
3. Load lever
4. Lateral shift lever
5. Trendelenburg movement lever



03 OPERATION

03.1 Commands PB-410/5

1. Extraction lever
2. Load lever
3. Lateral shift lever
4. Trendelemburg movement lever



03 OPERATION

03.2 Manual system elements

LATERAL SHIFT

Operate the lever located on the rear right side of the bench, exerting a little effort on it with the foot accompanying this movement with its slide with the hands.

The total lateral displacement is **300 mm**.



LONGITUDINAL DISPLACEMENT PB-410/3 MODEL

Operate the lever located on the front right side of the bench, exerting a little effort on it with the foot accompanying this movement with its slide with the hand.

The total longitudinal displacement is **360 mm**.



03 OPERATION

03.2 Manual system elements

TRENDELEMBURG (Procline / Declive)

The movement is produced while pressing the side lever, when released it will lock the position.



· *Trendelemburg procline* position (1):

In this position the bench lifts from the position in which the patient's head is located.



· *Trendelemburg declive* position (2):

In this position the bench lifts from the position in which the patient's feet are located.



ZERO POSITION OR REST POSITION

Zero position, also known as rest position is that the bench is completely horizontal and folded upon itself.



03 OPERATION

03.3 Loading and unloading

From the position in which the bench has remained after unloading (A):

LOADING

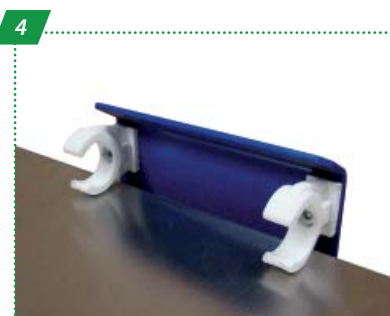
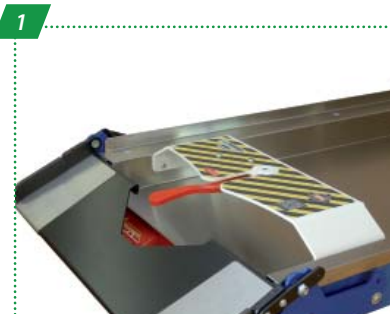
- Load the stretcher until it is locked by the closure (1)
- Fold the loading ramp (2)
- Pull the load lever (3)
- Pull the bench to zero position or rest position (B)
- Slide the tray until hearing 'clack', locking position completed (C)
- The scoop stretcher can be saved by fixing it to the front hooks (4)

UNLOADING

- Extract the tray with the extraction lever (5)
- The tray will automatically tilt to load position (A)
- Open the loading ramp (2)
- Release the stretcher closure by operating the lever (1)
- The stretcher will slide outward, hold it with the hands (A)
- Extract the stretcher

EFFORT LOAD POSITION TO HORIZONTAL POSITION

	KG
• VACUUM BENCH	16
• BENCH + STRETCHER PC650 EMPTY	25
• BENCH + STRETCHER PC650 + DUMMY 80KG	21



03 OPERATION

03.4 Scoop stretcher fastening

FOR MODELS PB-410 • PB-410/3

FIXING

To place PC 335 and PC 337 scoop stretchers, slide the scoop stretcher face down, between the stretcher anchor sheet and the tray until it butts with clamp grippers. Once contact is made, securely tighten it until it affixed.



EXTRACTING

To extract the scoop stretcher, pull it hard until it is unlatched from the clamp grippers.

For your convenience, we recommend to take the stretcher by the roller to use more force.



FOR MODELS PB-410/4

FIXING

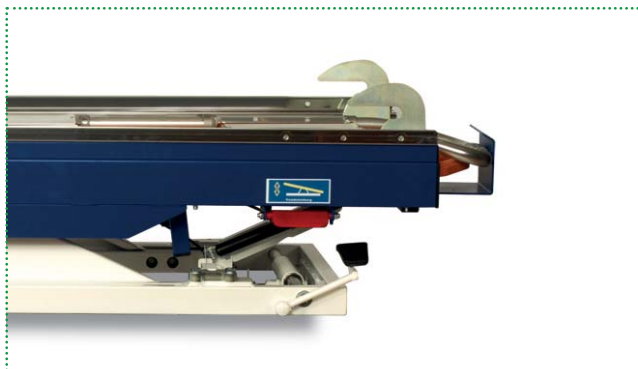
To place PC 335 and PC 337 scoop stretchers, slide the scoop stretcher face down, between the stretcher anchor sheet and the tray until it butts with clamp grippers. Once contact is made, securely tighten it until it affixed.



EXTRACTING

To extract the scoop stretcher, pull it hard until it is unlatched from the clamp grippers.

For your convenience, we recommend to take the stretcher by the roller to use more force.



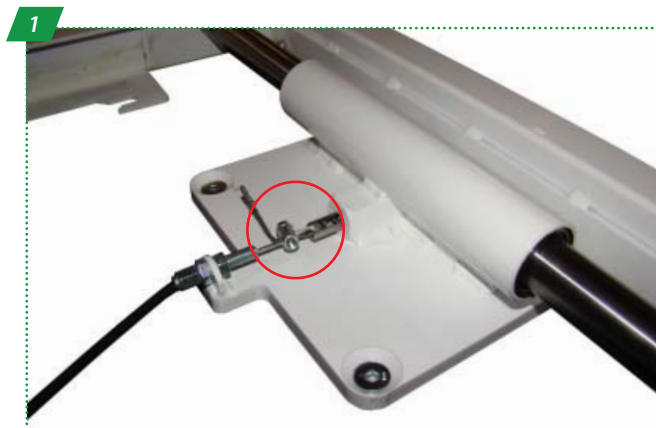
03 OPERATION

03.5 Tensors

To adjust tension in the drive cables, the bench has four sets of tensors for its regulation (depending on model):

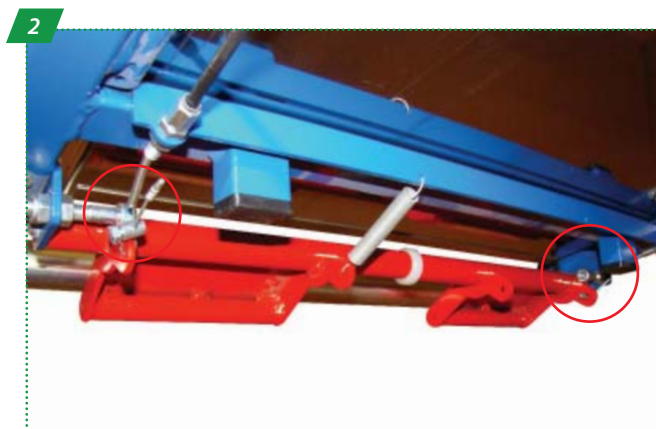
1. LATERAL SHIFT LEVER

Double set of tensors located on each of the attachment plates on the floor.



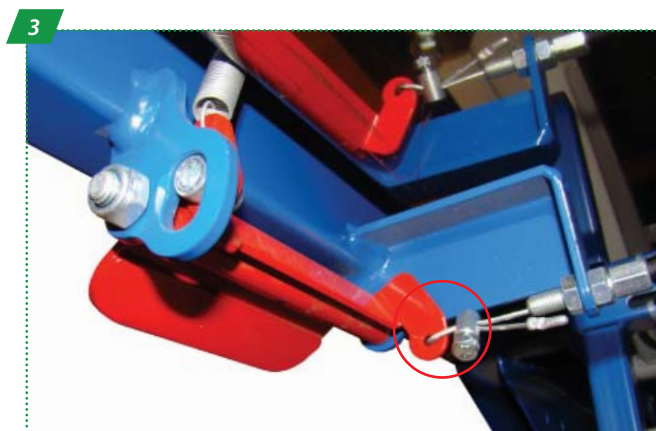
2. FRONT LEVERS

Double set of tensors located on the front area of the platform.



3. SIDE LEVERS

Simple tensor located on the right area of the upper platform.



03 OPERATION

03.6 Loading angle setting

For having loading and downloading of the stretcher with optimal conditions, it is very important to put the stretcher support the most horizontal possible.

LOADING THE STRETCHER

Once you have installed definitely the support stretcher into the ambulance, put the ramp open and adjust the inclination of the stretcher support with the front right handle (CARGAR/LOADING).

The optimal position may be that the stretcher front wheels attack rest on the roller ramp, that's when the loading process will be more soft and easy (see photo 1).

ADJUST THE LOADING ANGLE

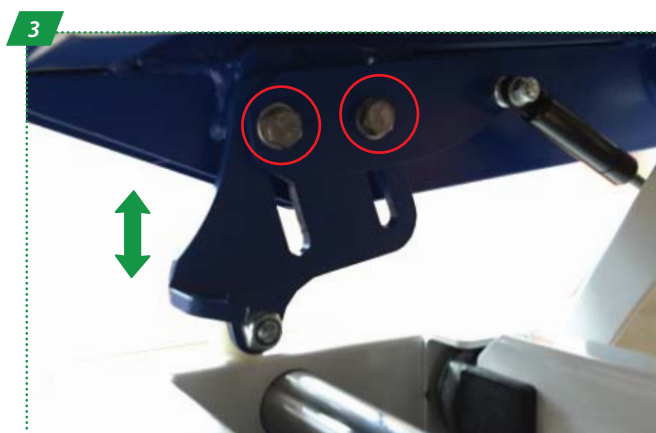
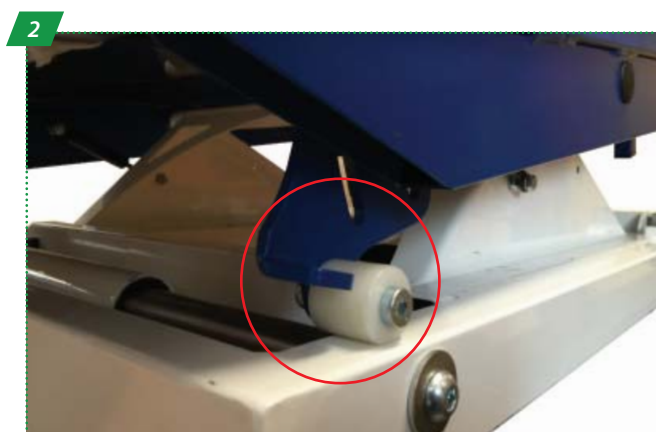
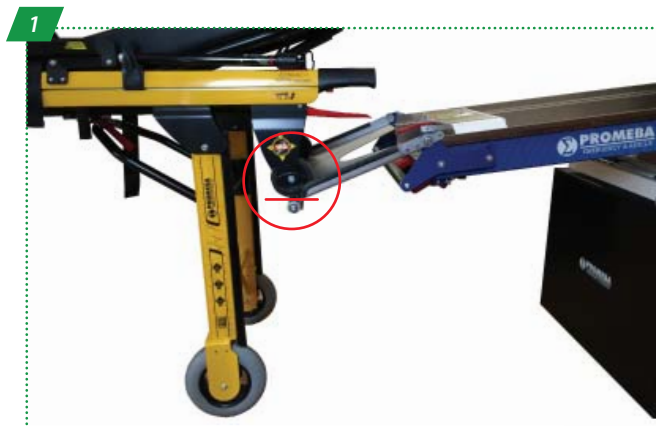
After the first step, you have to set the top tray as the photo 2 shown.

These parts keep the angle fixed for the next operations.

You have to loosen the screws, put the white roller over the support stretcher base (see photo 2) and tighten the screws back (see photo 3).

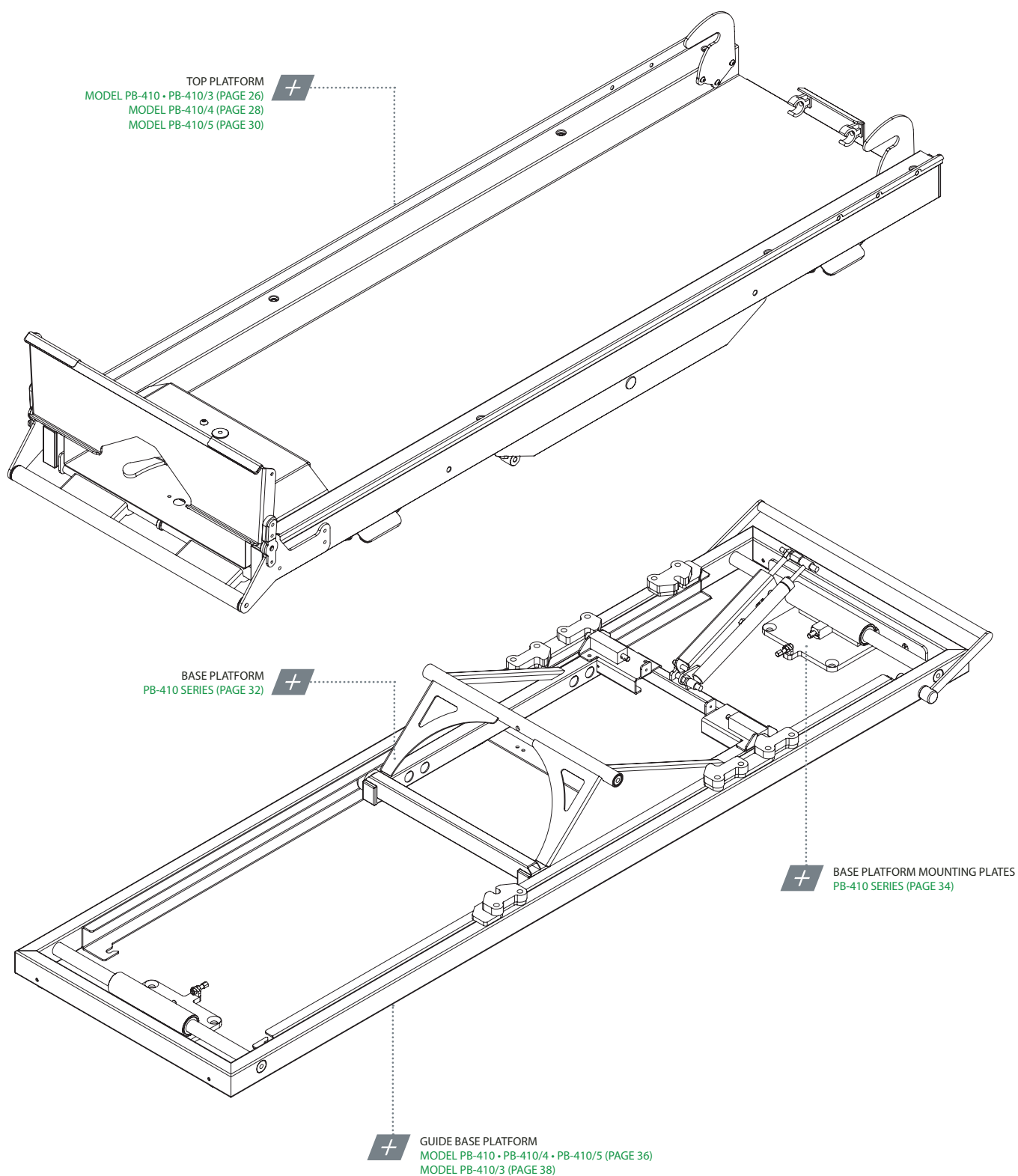
You have to do this operation as many times as you need according to the stretcher and/or the ambulance use.

OPTIMAL SETTINGS ARE ESSENTIALS FOR A SOFT AND EASY LOADING



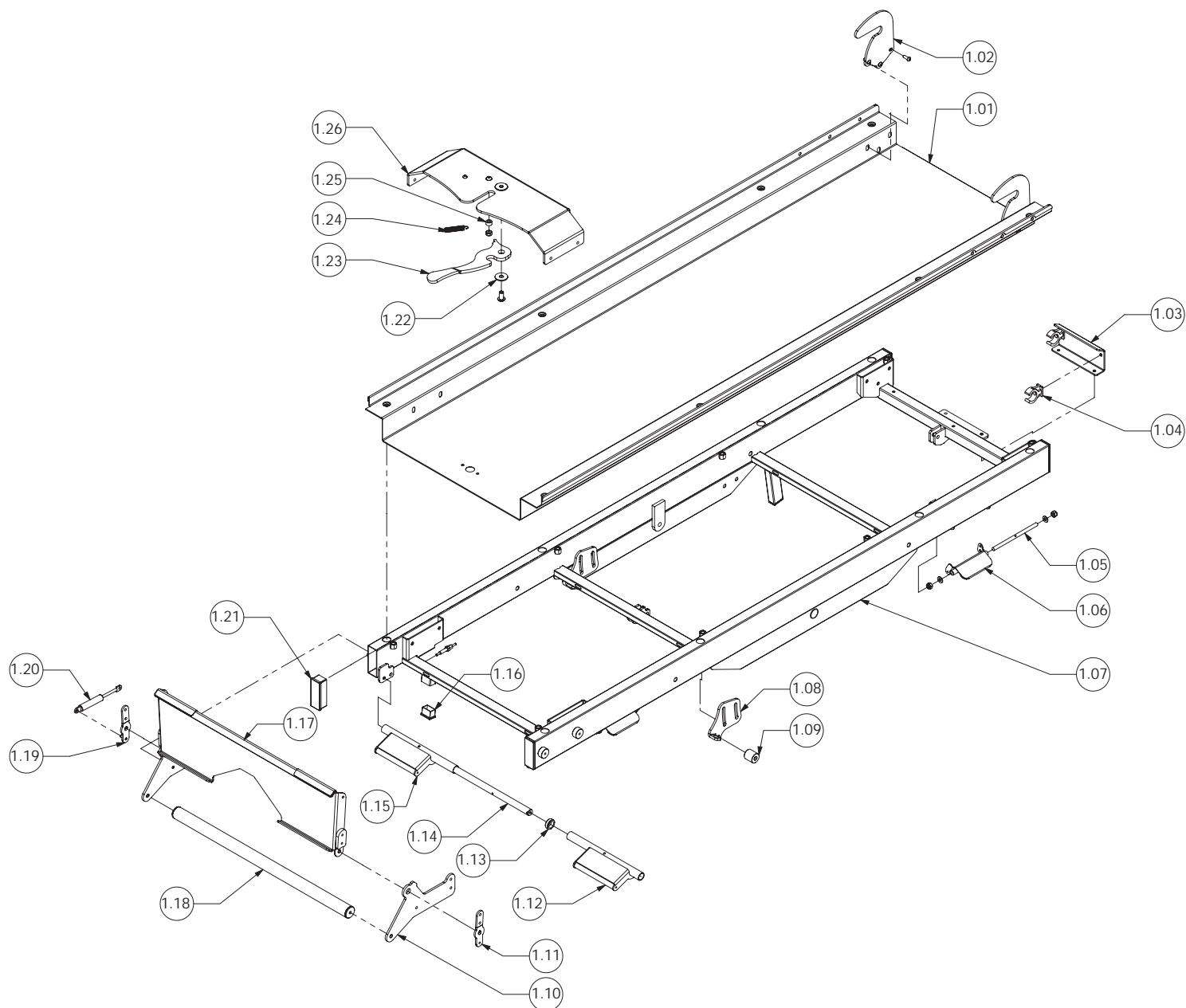
04 MOUNTING AND COMPONENTS

04.1 Main exploded views PB-410 SERIES



04 MOUNTING AND COMPONENTS

04.2 Top platform exploded view PB-410 • PB-410/3

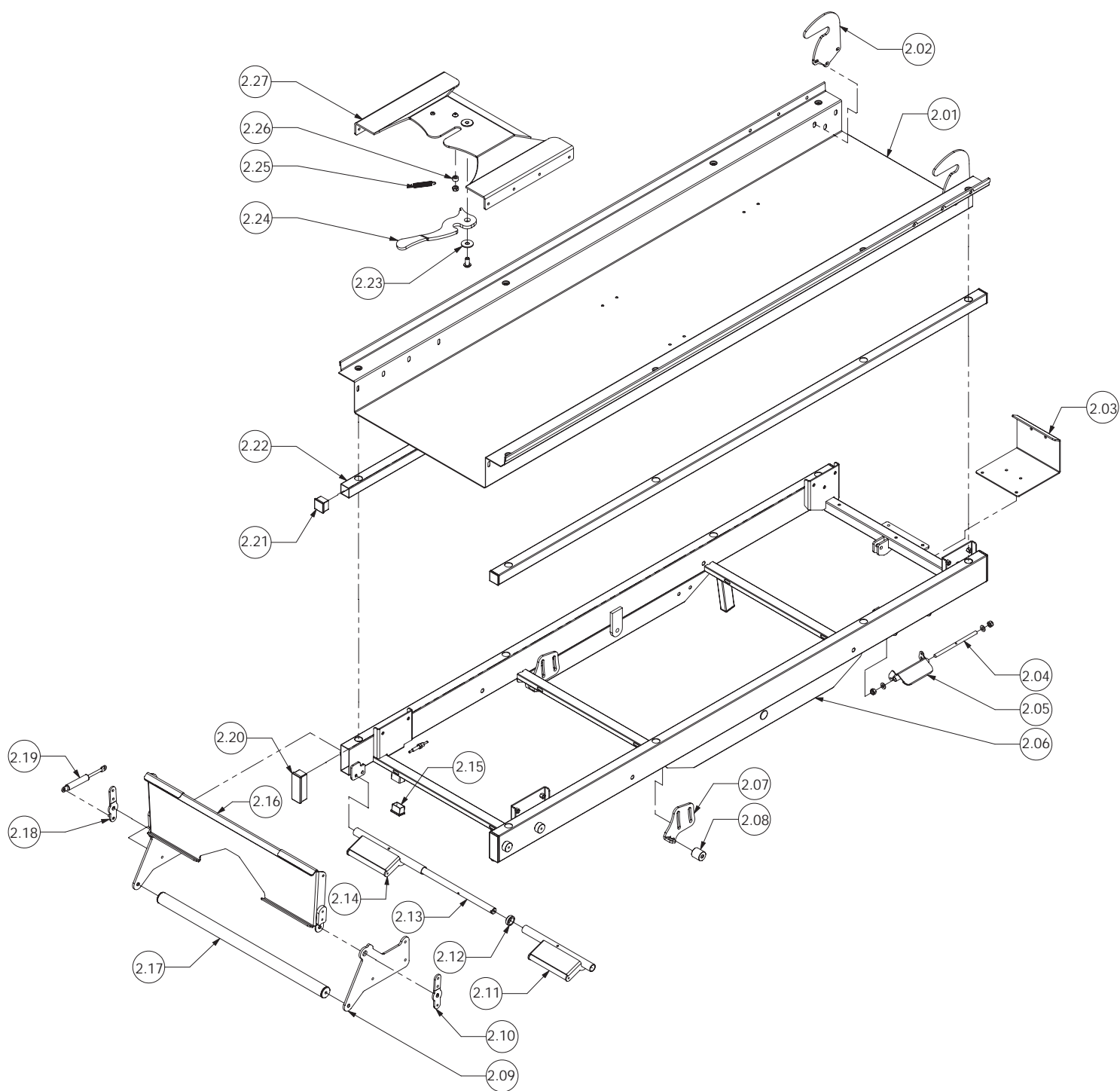


04.3 Bill of materials: TOP PLATFORM

[illegible]

04 MOUNTING AND COMPONENTS

04.4 Top platform exploded view PB-410/4

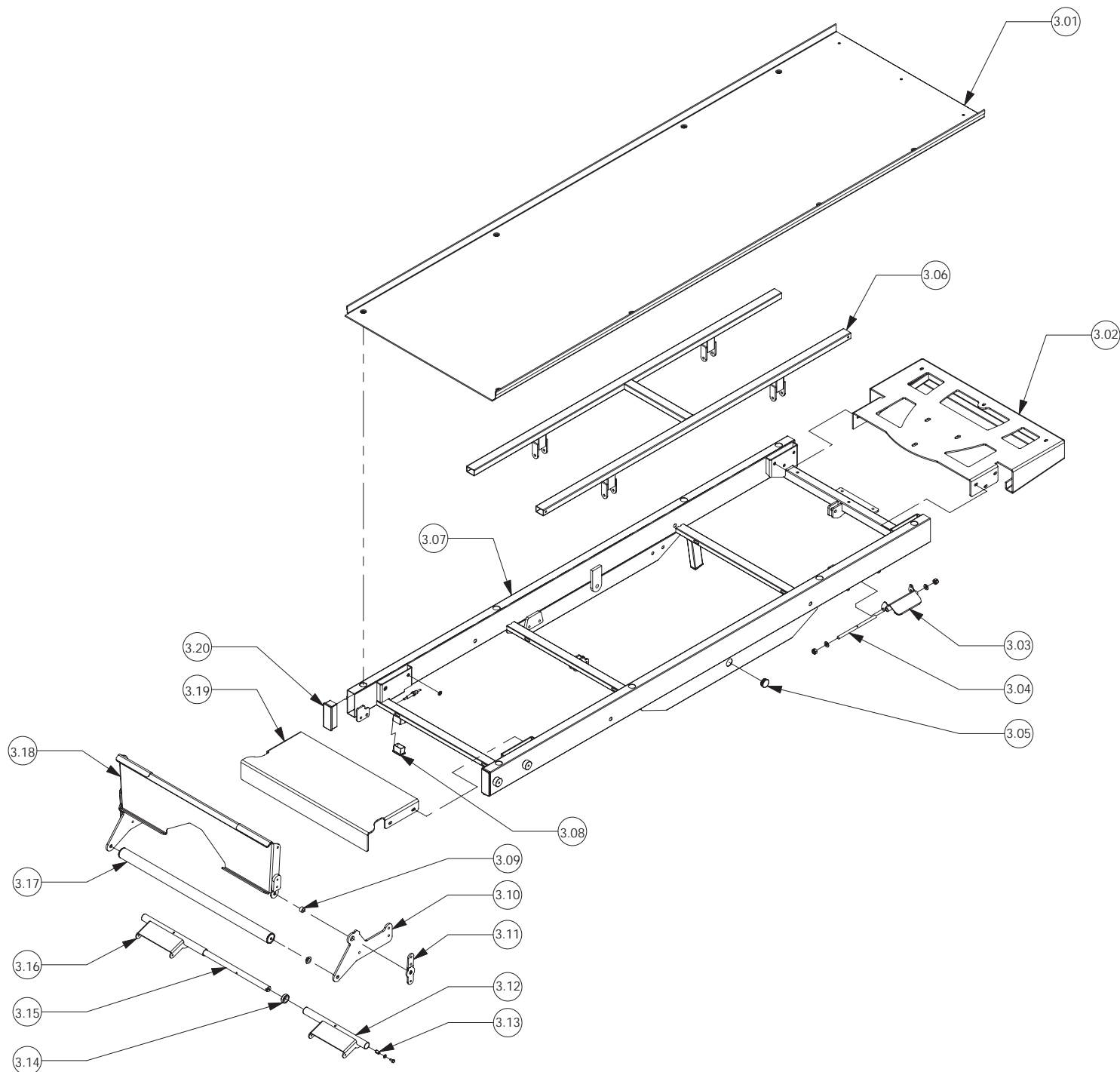


04.5 Bill of materials: TOP PLATFORM PB-410/4

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04 MOUNTING AND COMPONENTS

04.6 Top platform exploded view PB-410/5

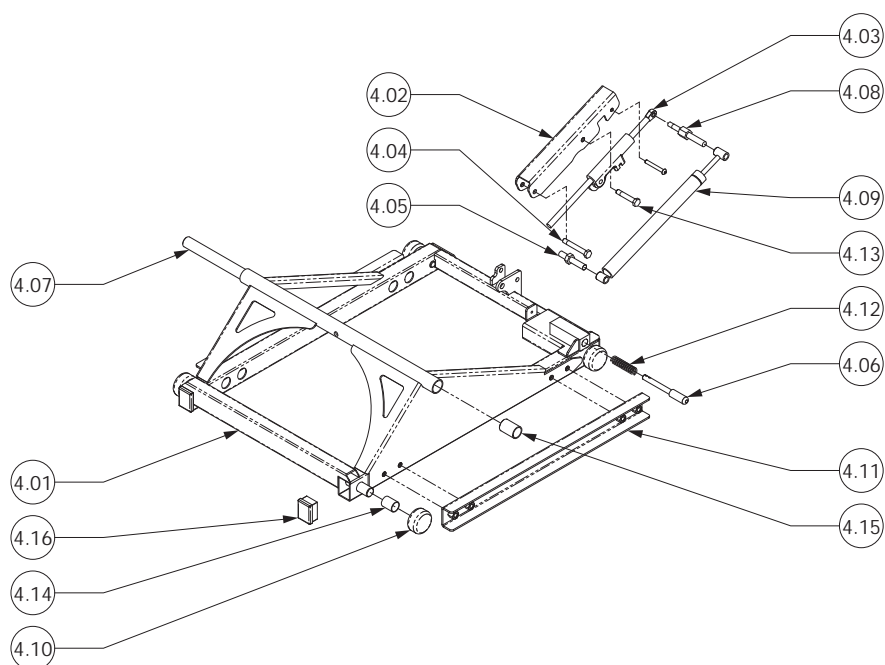


04.7 Bill of materials: TOP PLATFORM PB-410/5

31

04 MOUNTING AND COMPONENTS

04.8 Base platform exploded view **SERIE PB-410**



04 MOUNTING AND COMPONENTS

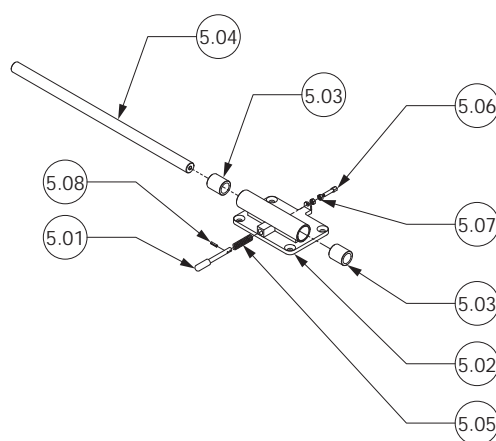
04.9 Bill of materials: BASE PLATFORM

SERIE PB-410

[illegible]

04 MOUNTING AND COMPONENTS

04.10 Base platform mounting plates exploded view **SERIE PB-410**



(2 SETS FOR BENCH)

04 MOUNTING AND COMPONENTS

04.11 Bill of materials:

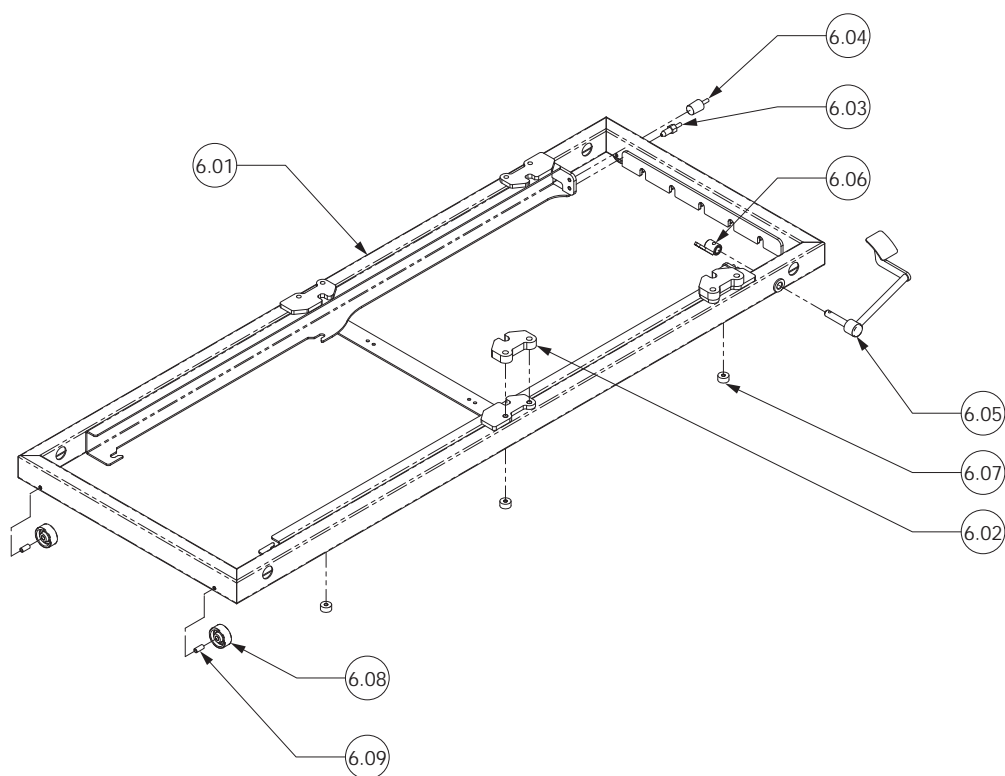
BASE PLATFORM MOUNTING PLATES

SERIE PB-410

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04 MOUNTING AND COMPONENTS

04.12 Base platform exploded view PB-410 • PB-410/4 • PB-410/5



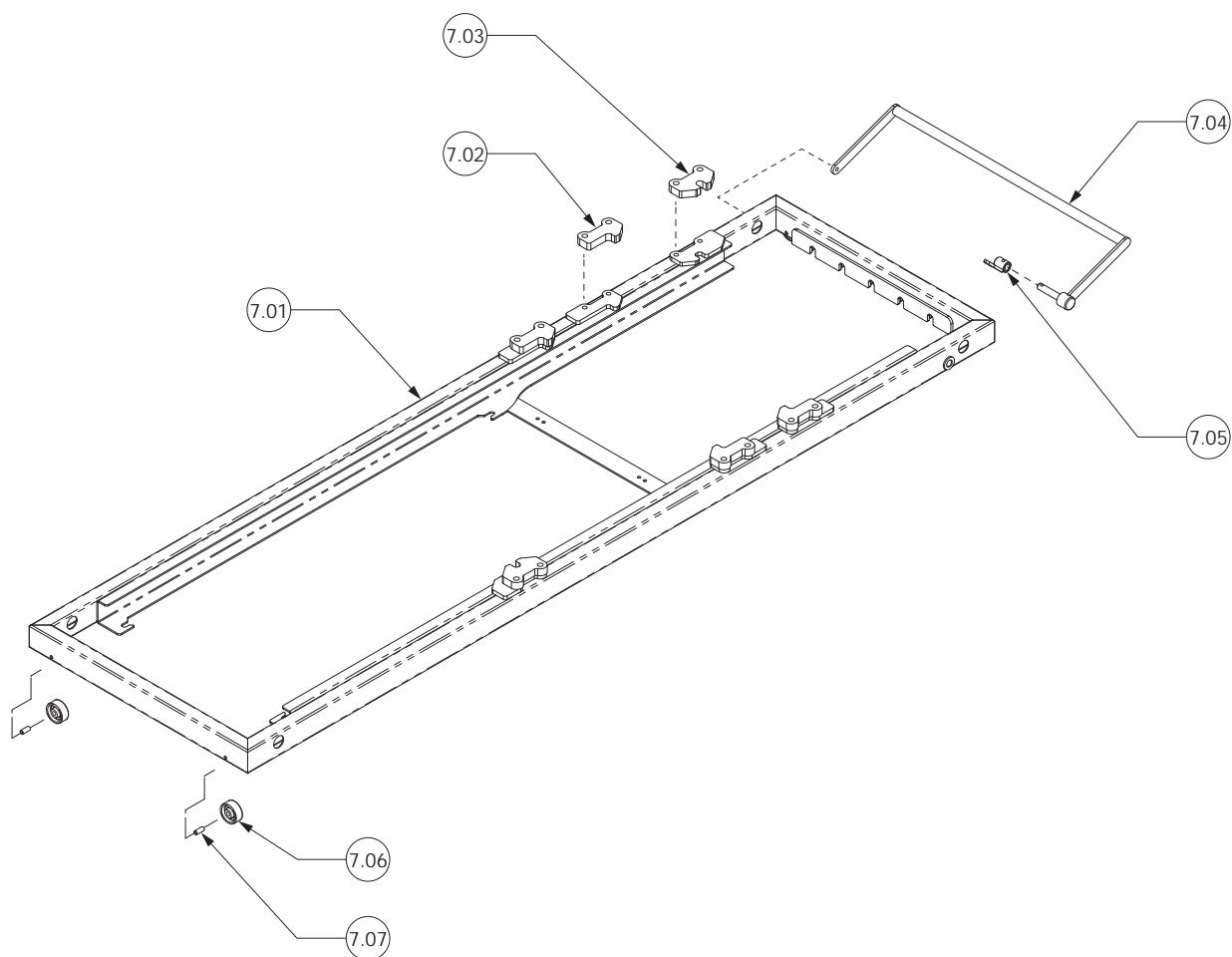
04 MOUNTING AND COMPONENTS

PB-410 • PB-410/4 • PB-410/5

[illegible]

04 MOUNTING AND COMPONENTS

04.14 Base platform exploded view PB-410/3



04 MOUNTING AND COMPONENTS

04.15 Bill of materials: GUIDE BASE PLATFORM PB-410/3

[illegible]

05 GENERAL MAINTENANCE

CLEANING

It is essential to keep the equipment clean to ensure a proper use and durability of the set. A thorough clean must be done periodically, especially in areas exposed to dirt that may be damaged such as gears, connectors, switches, etc.

Do not use high-pressure cleaning systems, they can damage the product.

CONTROLS AND SELECTORS

Due to the intense and continuous use of mobile elements such as commands and switches, periodically examine its proper operating.

There may be failures in micro-switches and wiring, inspect the attachments and the electrical or mechanical connections that may exist.

GREASE

Generally, every moving part should be greased. Our products leave the factory completely greased and lubricated. However, it is possible that the elements are degreased over time and the use of the product, either by lubrication loss or dirt. Clean and grease periodically the affected areas according to the manufacturer's specifications.

Check for loose, missing or worn parts. Periodically examine every moving element to make sure that components are tighten.

WEAR AREAS

Inspecting regularly on the system components for signs of wear is a preventive measure that can reduce breakdowns. Check possible lubricant leakages, grooves or bearing in poor condition.

MECHANICAL FIXING

We generally call mechanical fixing elements to the components used to fix the product as a whole, mainly screws and derivatives.

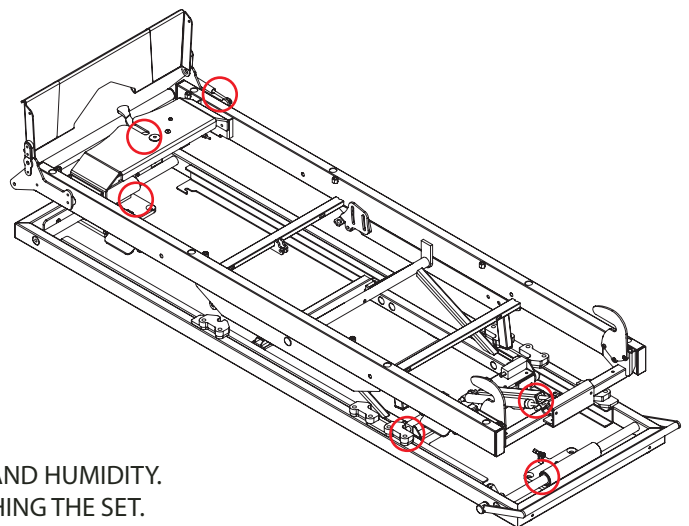
To some terms of use, due to vibrations or impacts certain elements may lose their tightening torque or fixing properties.

Periodically review that there are no loose elements, especially on moving parts of the set. Please note and always respect the recommended tightening torques.

REPLACEMENT OF COMPONENTS

This manual does not include procedures for all parts. Qualified service personnel should replace cables, switches and certain mechanical parts without step-by-step procedures.

The qualified service personnel should contact our commercial department for information about ordering spare parts and its installation.



MAKE SURE TO KEEP THESE AREAS FREE OF WATER AND HUMIDITY.
TAKE SPECIAL CARE NOT TO WET THEM WHILE WASHING THE SET.

06 LEGAL NOTICES

This document may contain technical inaccuracies or typographical errors.

Changes are periodically added to the information herein; these changes will be incorporated in new editions of the publication.

Promeba, S.L. reserves the right to make, if considered appropriate, any modification or improvement to the products described in this publication.

Promeba, S.L. may have patents or patent applications which address themes described in this document. The possession of this document does not entitle no license to these patents.

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All the information contained in this document has been obtained in specific environments and it is presented as an illustration. The results obtained in other operating environments may vary.

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07 PRODUCT WARRANTY

Promeba, S.L. warrants that their products have successfully passed all quality controls, both functional and material. The warranty period is 2 years from the date of purchase.

This warranty will only be granted when the original invoice or sales receipt (indicating the date of purchase, model and the distributor's name) is presented together with the defective product during the warranty period. **Promeba, S.L.** reserves the right to not offer the free warranty service if the indicated documents are not presented or if the information provided by the consumer is false, incomplete or illegible.

1. This warranty shall not apply if the model's name or the serial number has been altered, removed, disappeared or is illegible.

*2. This warranty does not cover transportation costs or risks associated with the transport of the product to and from **Promeba, S.L.***

3. This warranty does not cover any of the following cases:

A. Regular maintenance and repair or replacement of parts from the normal wear and use.

B. Consumables (components that may need periodic replacements during the product's life, such as non-rechargeable batteries, bulbs, etc.)

C. Damages or defects resulting from the use, operation or improper treatment of the product and not caused by a normal use of it.

D. Damages arising from:

i. Improper use, including:

- Treatment resulting in damages or physical changes, surface or appearance changes of the product.

*- Installation, use or storage of the product in a manner inconsistent with the instructions described by **Promeba, S.L.***

*- Product maintenance in a manner inconsistent with the instructions of **Promeba, S.L.** for a proper maintenance.*

- Installation or product use in a manner inconsistent with the technical or security standards of the country where it is used or installed.

ii. Use of components not supplied with the product or incorrect installation of accessory parts previously untested.

*iii. States or defects of the system in which the product is incorporated with the exception of other products of **Promeba, S.L.** designed for its use with the product.*

*iv. Product use with accessories, peripheral units and other products of a type, condition or standard not established by **Promeba, S.L.***

v. The manufacturer or distributor shall be solely responsible for determining the sending of parts for its repair or the replacement of the product in its entirety. In no circumstance shall operators be sent to such repair or product replacement.

Except in the cases mentioned above, **Promeba, S.L.** shall not give any guarantees in relation to the product, operation, accuracy, reliability or adaptability for an equipment logical purpose or any other type. If this exception is not lawful or established in the law, **Promeba, S.L.** shall limit or exclude their guarantees only to the extent that the applicable law permits it.

The only obligation of **Promeba, S.L.** regarding this warranty is to repair or replace the parts subjected to the terms and condition of this warranty.

Promeba, S.L. is not liable for loss or damages to products, this warranty or others, including economic loss or not assessable damage; the price paid for the product; loss of profits, incomes, information, usufruct or use of the product or associated products or indirect loss or damage, accidental or critical.

This clause refers to whether the loss or damage is due to a product deterioration or inoperability associated to defects or unavailability of **Promeba, S.L.** that caused a downtime, user's time loss or a business interruption.

In the cases in which the law prohibits or limits these responsibility exclusions, **Promeba, S.L.** shall exclude or limit their responsibility only to the extent that the law allows. For example, many countries forbid the exclusion or limitation of damages caused by negligence, gross negligence, wilful misconduct, fraud and similar acts. The responsibility of **Promeba, S.L.** in this warranty shall not exceed, in any case, the price paid for the product, but if the applicable law permits only responsibility limitations of major responsibilities, these shall be applied.



SCAN QR CODE



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