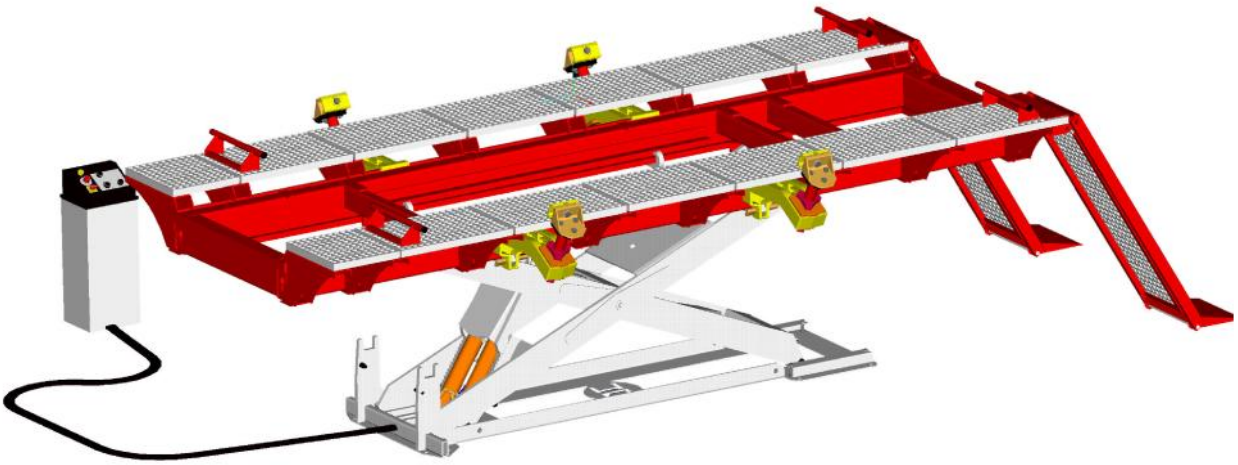
RHONE 2800 EVOLUTION



TECHNICAL MANUAL
ref. RH09.ML

Up dating:	**02**
Date :	**07/2015**

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CONTROL POWER UNIT: TECHNICAL FILE

APAVE AGREEMENT CERTIFICATE

Foreword :

This instruction leaflet is designed to answer most of the questions about **technical matters, utilitzation and safety instructions** concerning your lifting bench **RHONE 2800 EVOLUTION**.

Consequently, we recommend each user to **read this leaflet carefully** and to keep it nearby while using the device, to get the best and safest possible utilization.

In fact, **CELETTE FRANCE S.A.S. can not be held responsible** in following cases :

- **utilization** of the lifting bench **RHONE 2800 EVOLUTION** for any other purpose than the one it is designed for.
- **intervention** or **modification** carried out without the manufacturer's previous agreement.
- adaptation **of non homologated or non suitable accessories** to the bench

Instructions to be stricktly followed :

- The present installation and utilization instructions are intented for the installation staff and for the technical team, and should be accessible at any time
- The lifting unit is to be used by experienced and trained personal only.
- Before a first starting of the unit, the installation and state of the lifting device are to be checked by an authorized person.

Test type	Load	Duration
Static test	4200 Kg	1 hour
Dynamic test	3220 Kg	Complete operation : lifting/lowering

- The state of the unit has to be checked and maintained by a specialist at least once a year.

⚠ The installation and utilization are to be read carefully

⚠ Before each utilization, check the state of the unit. Possible defects have to be notified to CELETTE immediatly and the device has to be placed out of order

⚠ Make sure that nobody stands within the lifting unit function area. Should it be the case, stop all operations immediatly

⚠ Do not stand under the unit

⚠ Never lift people by means of the lifting unit

⚠ Make sure that the device cannot be blocked or collide

⚠ Respect the balance of weights : 3/5 2/5 (voir §23)

⚠ Respect the conditions of installation and the concrete load standards (Compressive strength : 450 kg/cm).

⚠ Respect the maximal load : **2800 Kg**

⚠ The handling of the load once lifted is stricktly prohibited

Introduction :

We duly thank you for granting us your confidence.

We are convinced that your lifting bench **RHONE 2800 EVOLUTION** will meet your needs, more especially thanks to its lifting capacity :

- **2800 KG** load until **1.33 m** high for easier and more comfortable work conditions

RHONE 2800 EVOLUTION will make the repair of light or important impacts easier, thanks to the MZ System, **but** will also enable the checking and straigntening by means of various adaptable CELETTE options and accessories.

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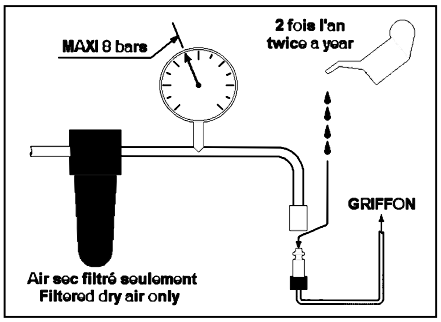
THE LIFTING BENCH RHONE 2800 EVOLUTION HAS TO BE FIXED TO THE GROUND BEFORE ANY INSTALLATION OF A VEHICLE.

This equipment is composed of :

- a BASE **9177.31**.
- a LIFTING UNIT **9177.01.50x** including one « X » system and an hydro pneumatic power unit .
- a COMPLETE RUNWAY DECKING PLATE SYSTEM including a runway decking plate **GR05.0128**.
- a SET OF ANCHORING CLAMPS.
- STANDARD OR SPECIFIC OPTIONS and ACCESSORIES.

Technical datas :

- **Hydraulic power unit**



  - Outlet pressure 280 bars
  - Compressed air supply , cleaned & no-oiled 6/8 bars
  - Electric motor, voltage & frequency according to the country of utilization :
    110V / 230V / 400V – 50Hz / 60Hz
  - Oil tank : 7 liters
  - Oil type : MOBIL DTE 13

- **Pneumatic unlocking of the safety elements :**
  - Compressed air, cleaned & not oiled 6/8 bars.

⚠ **COMPRESSED AIR HAS TO BE CLEANED**

- **Locking of the safety elements :**
  - Automatic by absence of air

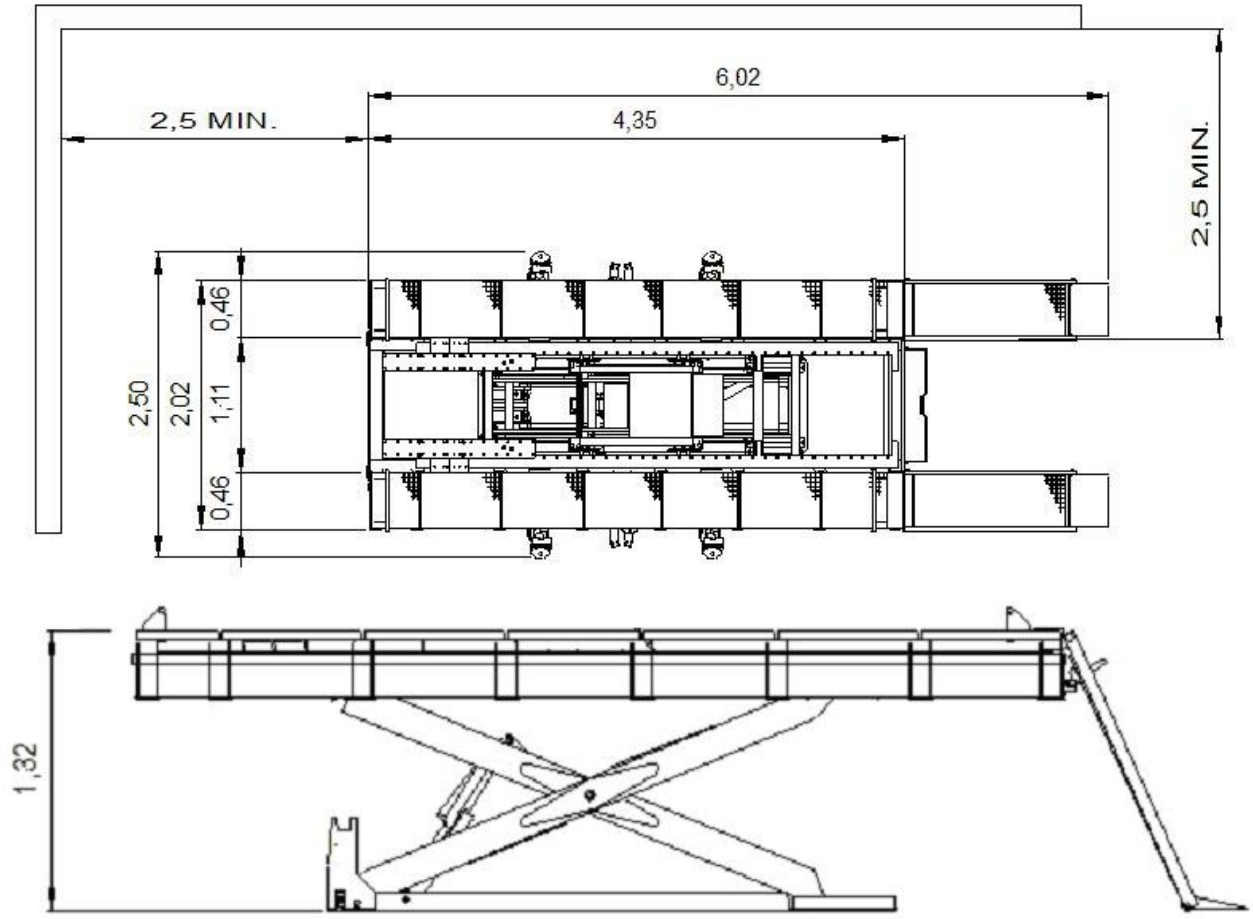
- **Weight of the equipment :**

9177.31	9177.01	Anchoring clamps	GR05.0128	TOTAL
678 kg	610 + 57 kg	200 kg	324 kg	1869 kg

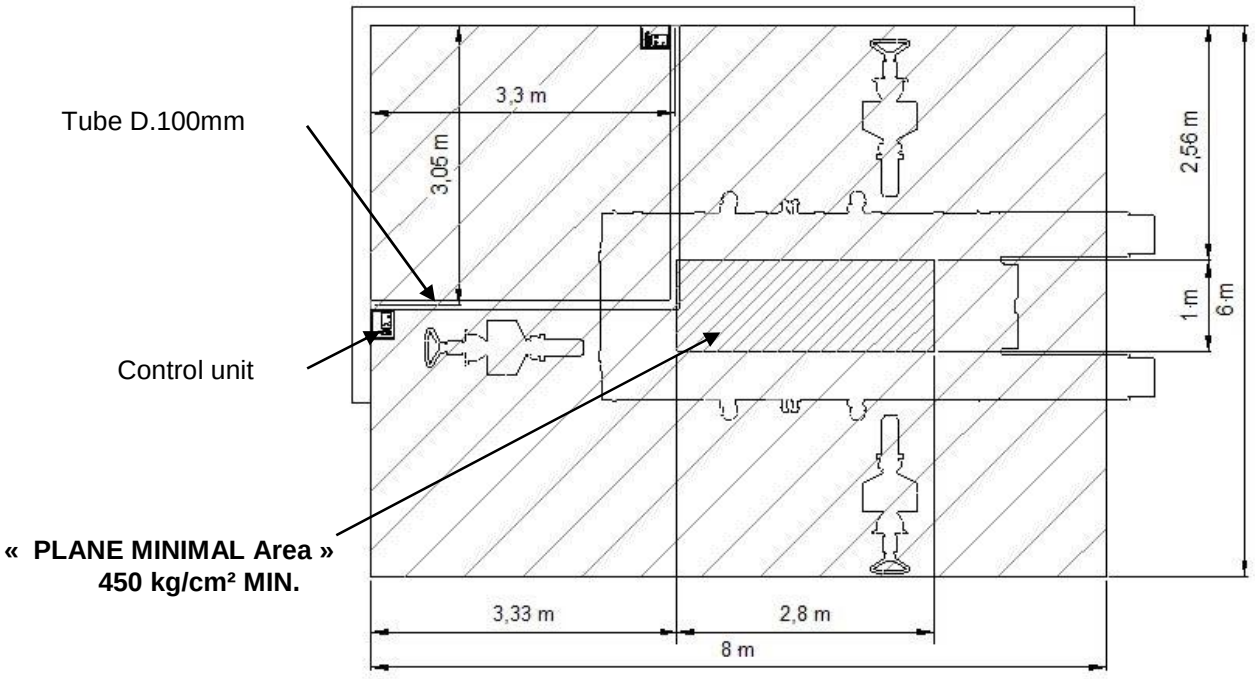
955A.9012	MZ450.010	SET	Pulling unit	TOTAL
83 kg	130 kg	100 kg	242 kg	555 kg

- **Maximal load on the bench :** - 2800 KG
- **Noise level** - 65 dB (A)
- **Lifting time :** **unloaded :** 45''
  with a 1500 KG load : 47''
- **Lowering time :** **unloaded :** 35''
  with a 1500 KG load: 35''

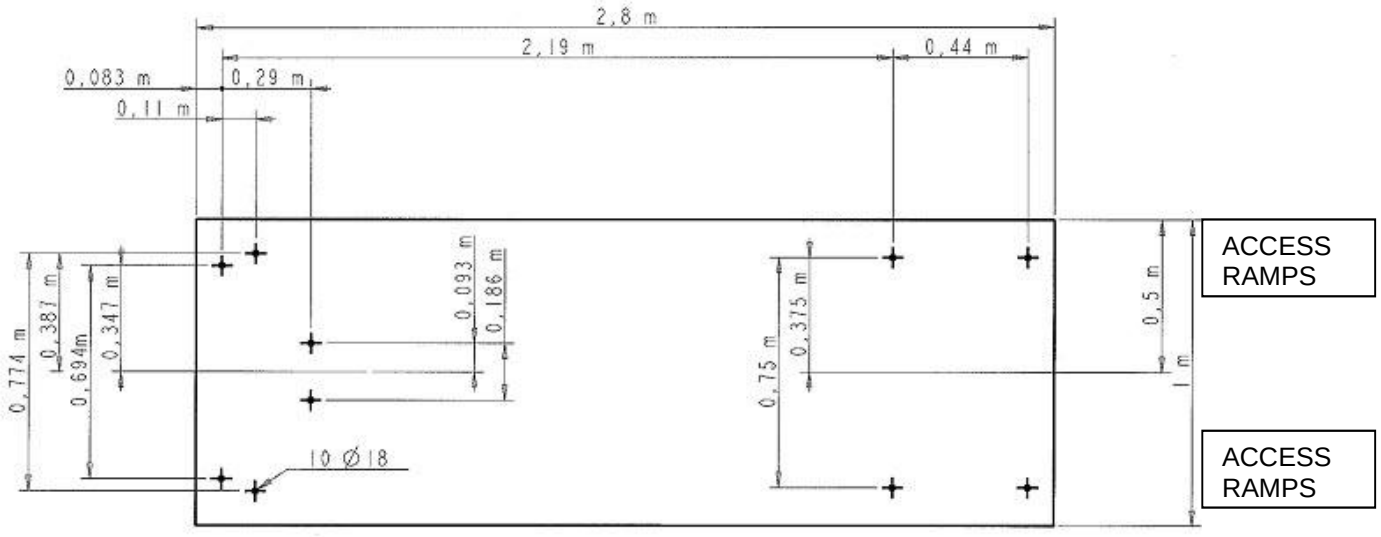
Dimensions and installation :



Selection of the location and conditions of installation :



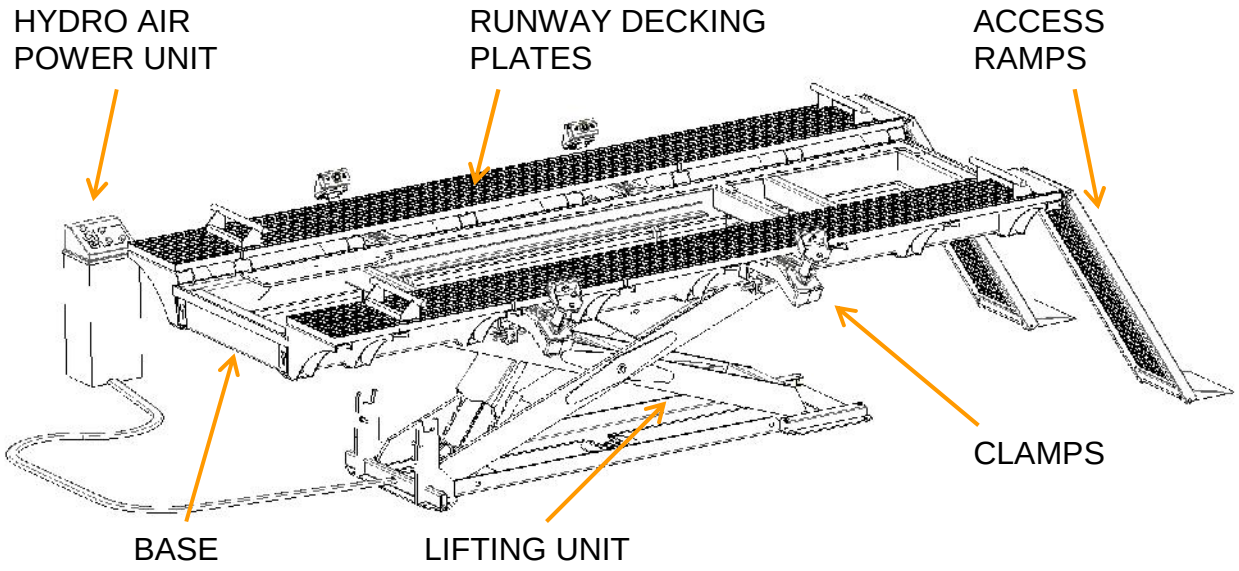
- The **perfectly flat** ground should be able to withstand a total load of 5300 KG and have a minimal compressive strength of 450 kg/cm² **under the whole surface** of the bench.
- CELETTE recommends a minimal thickness of **100 mm** for the pavement .
- The bench will **be fixed to the « minimal plan area » through the 10 expansion dowels (SPIT MEGA E12-18/45)**, length 140 mm, supplied with the equipment.



- No obstacle (Extension arm, energy box,…) should be placed lower than 3,70 m above the equipment (to lift a classic commercial vehicle with standard height).

- We advise to foresee a free area (Refer to the drawings on pages 7 and 8) around the base of the lifting unit to use the pulling unit SEVENNE.
  This represents a work bay (not including the storage of accessories and tools) of 6m wide x 8m deep.
  Caution : The access ramps are not included within the 8m.
  Caution : We also recommend to foresee a free area for the access of the vehicle to the RHONE .
- Following equipment is to be foreseen nearby the device :
  - A compressed air supply – cleaned, not oiled 6 to 8 bars.
  - A power supply – protected by a 30mA differential.
    Cable section 2,5mm² - 16A – 3P or 1P – N + E (according to the country).
- The connection to an IT power supply is not allowed.
- The control keyboard should not be exposed to fluid projection. Do not use a water spray to clean the control keyboard. Place it in a easily accessible area. Use option 9171.01.7007 to guide the sheath on the ground to prevent it from being damaged.

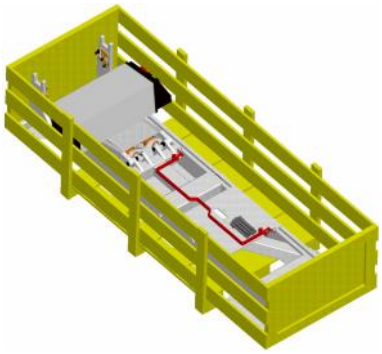
Description of the bench :



Starting of the bench in the workshop :

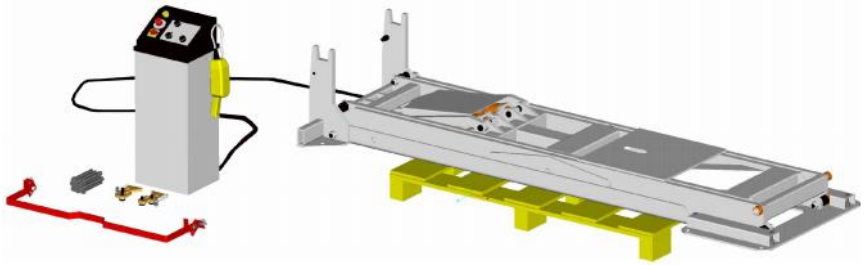
1. Place the box containing the main lifting unit in the final location of the bench while respecting :
   - distances to the walls and obstacles (Pages 7 and 8).
   - the direction (front / rear)

FRONT

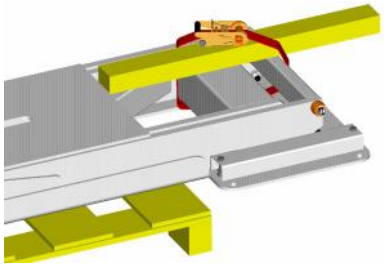


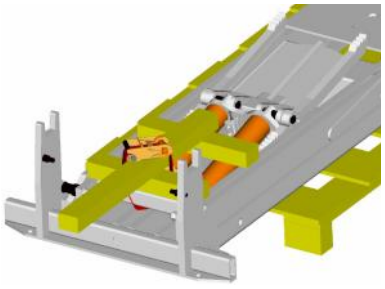
REAR

2. Remove the 4 sides of the box, unpack the power unit and non assembled accessories

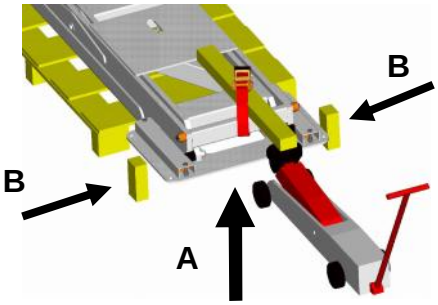


3. Keep the locking rafters and place them as shown herunder. Fix with straps :

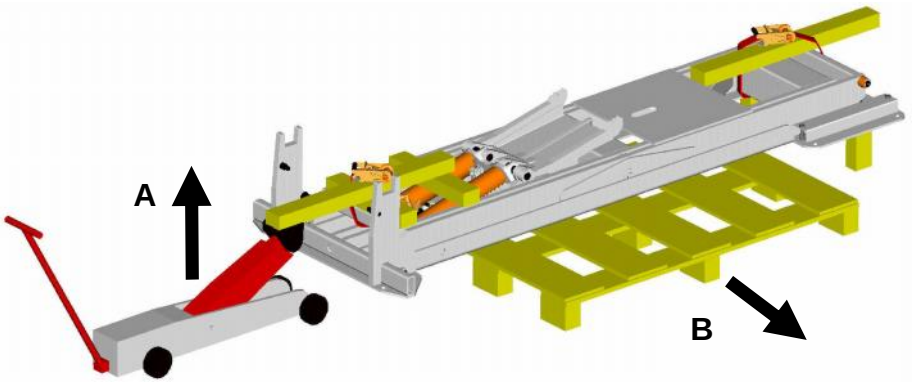




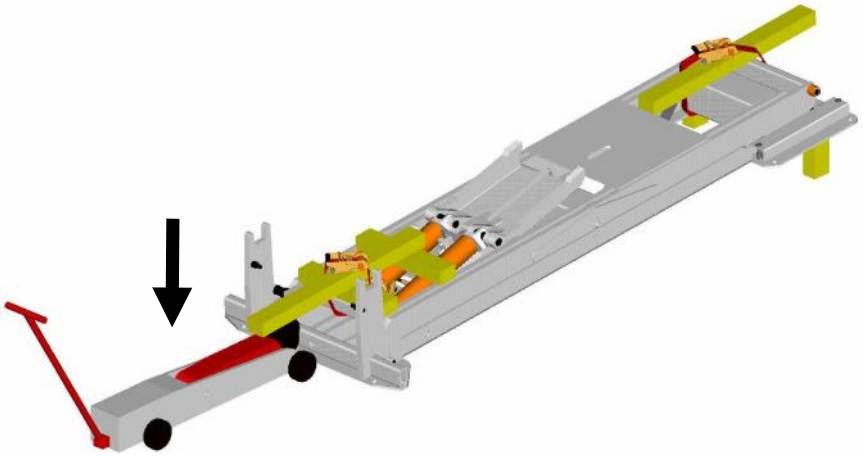
4. With a rolling jack, lift the rear end of the lifting unit , (**A**) and insert 180 mm high plates (**B**), lower again :



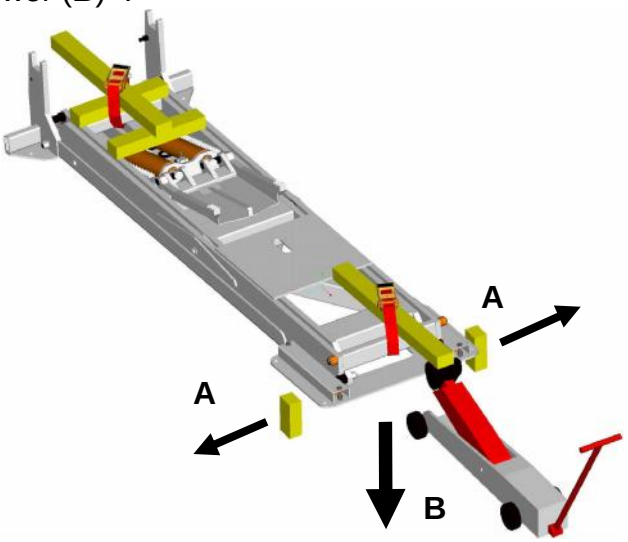
5. With the rolling jack, lift the front end of the lifting unit to release the pallet (**A**) and take it out (**B**) :



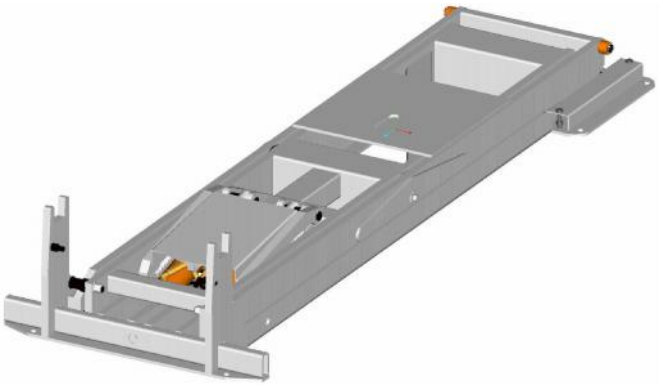
6. Lower the front end



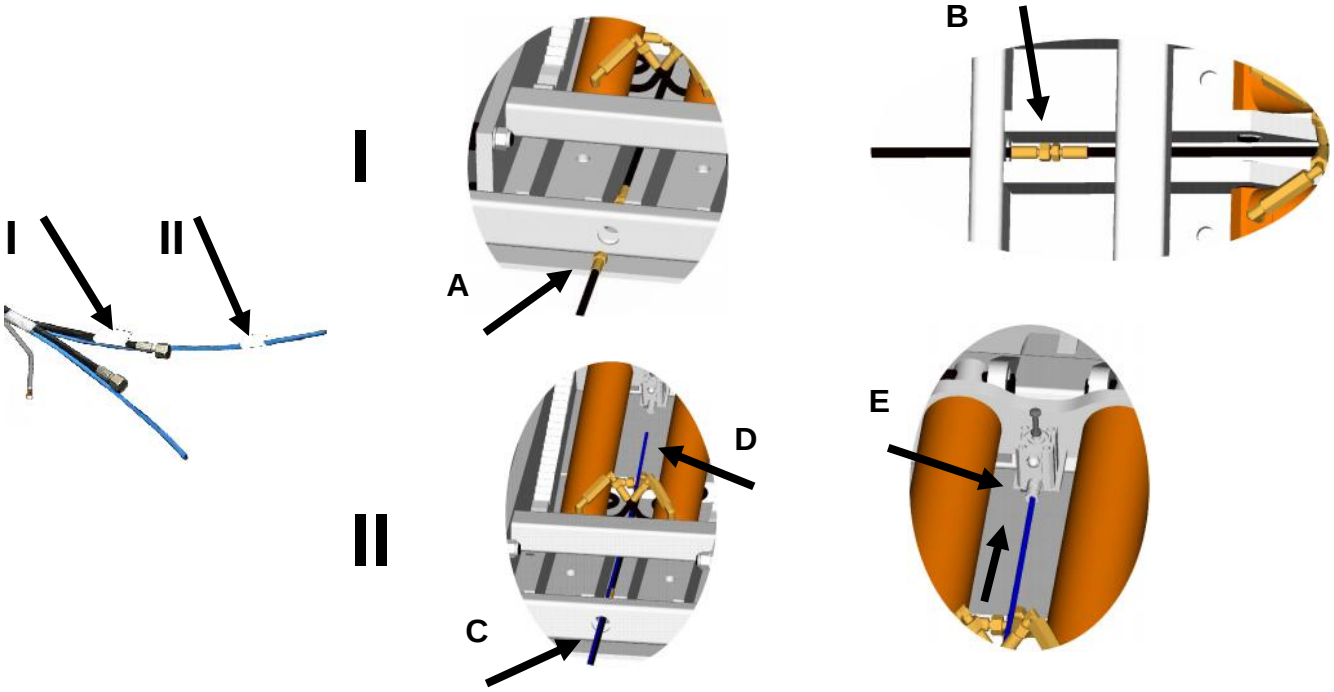
7. Remove the plates (**A**) and lower (**B**) :



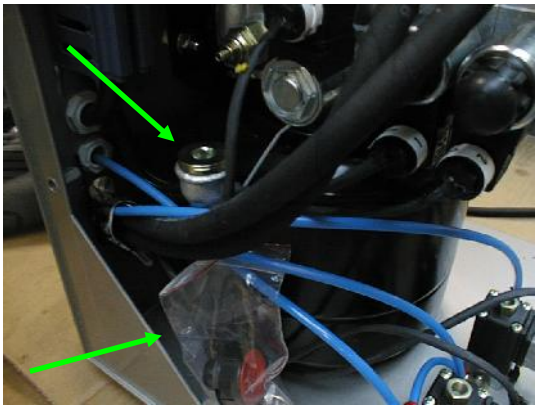
8. Take of the rafters :



9. Effect the pneumatic and hydraulic connections from the power unit to the lifting unit.



10. Open the power unit and fill up the oil tank with the small supplied can (1L). Replace the transport cap with the ventilation cap (packed in a bag fixed to the tank).



11. Equip the power supply cable with corresponding socket (according to the motor type) and connect it to the appropriate network socket.

SHOULD THE LIFTING BE IMPOSSIBLE IN SPITE OF A CORRECT WORKING OF THE PUMP INVERT 2 PHASES TO MODYFY THE ROTATION DIRECTION OF THE MOTOR .

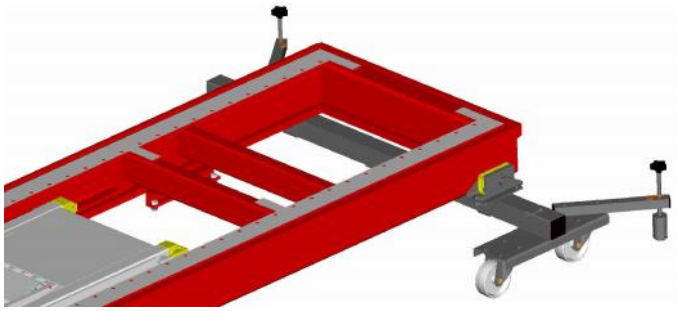
12. Connect the compressed air hose of the power unit to the air network. The air has to be cleaned, not oiled, and compressed from 6 to 8 bars:

An uncleaned network may lead to the filling-in of the electrovalves included in the power unit .

13. Check the correct working of the lifting unit (Page 18 § Control and handling of the main lifting unit).

14. By means of the rolling jack, lift the rear end of the base to slide wheels 9121.513 or the vehicle transport trolley GR11.0074.

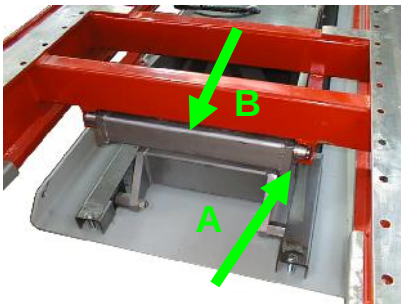
or

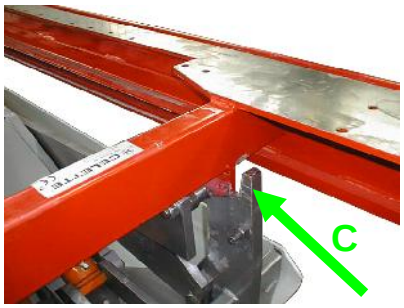


15. Place the jack at the front of the base, which has to be installed in horizontal position :

16. Roll the base above the lifting unit, which has to be lowered completely (see photos). To avoid the upper part of the lifting unit, adjust the base height by means of the jack :

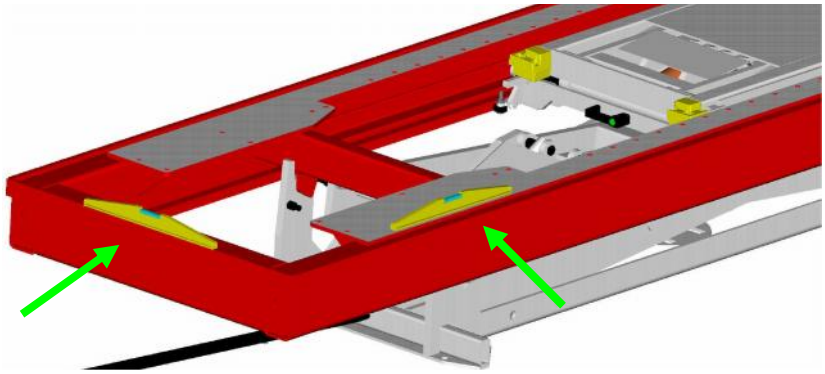
17. Lift the lifting unit to align its rollers with the U parts of the base (**A**) and insert them inside (**B**) until the front crossmember is in front of its location (**C**).



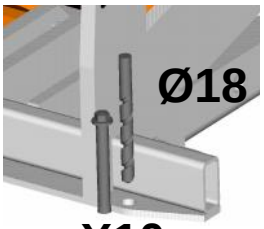


18. Lift the base with the lifting unit to release the jack and the wheels. Take them off.

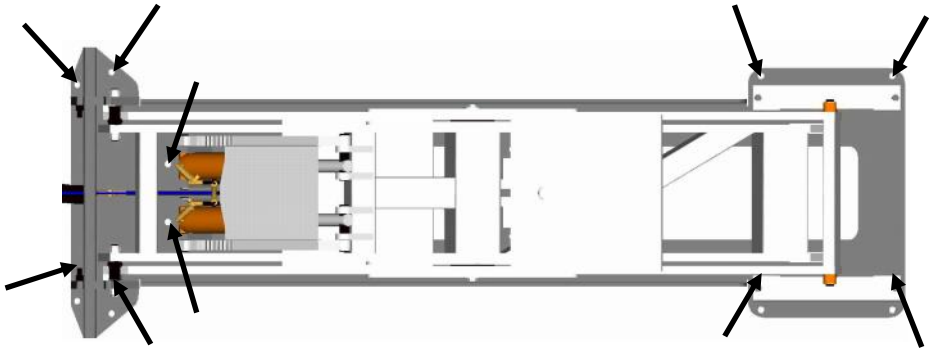
19. Confirm distances to the walls and obstacles (Pages 7 and 8) and check the levelness of the bench within both directions. Use wedges if necessary :



20. Fix the lifting unit to the ground with 10 expansion dowels (delivered), using :
    - either the ground plate of the lifting unit as drilling gauge.
    - or the drilling plan on page 8 (procedure to be effected before installing the bench).

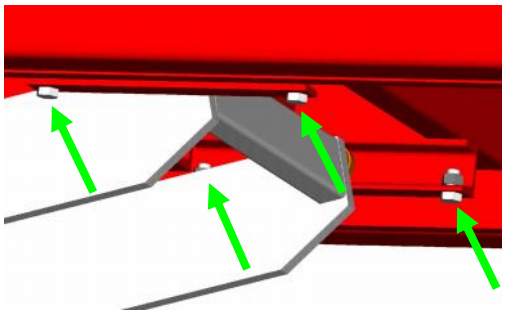


X10



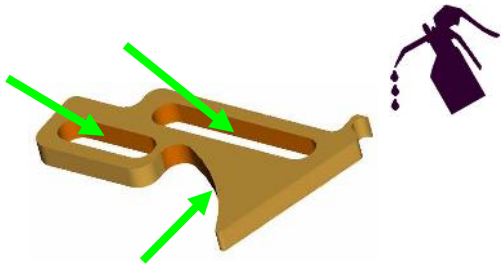
THE RHONE BENCH HAS TO BE FIXED TO THE GROUND BEFORE ANY UTILIZATION .

21. Secure the whole unit while screwing the 4 safety bolts supplied with the base. The nuts have to be placed inside the U parts.



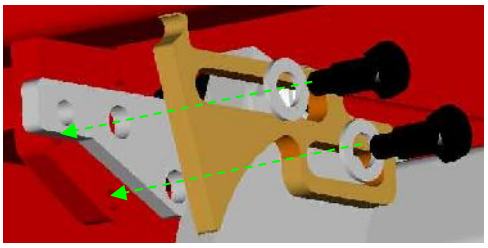
22. It is **IMPERATIVE** to assemble the anti rotating elements at the front end of the base, the lifting unit being on the 2nd safety notch (minimum).

I

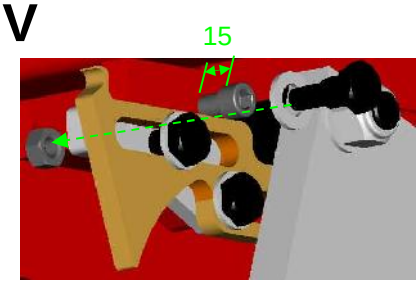


II

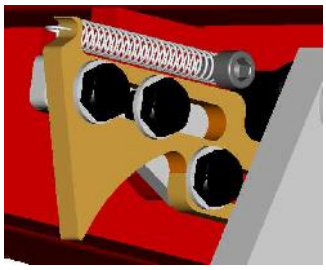
III



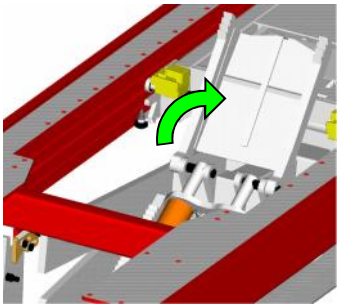
IV



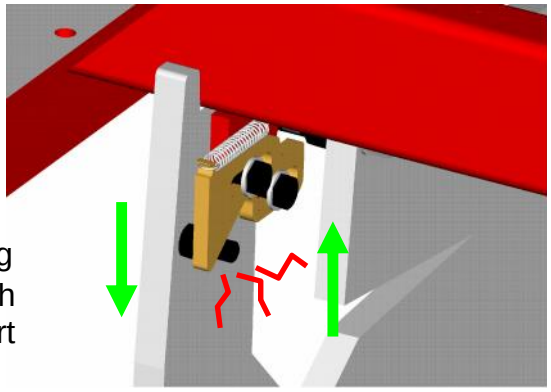
V



23. The assembly being effected, check the correct running of anti rotating parts, while activating them several times (without any load) for them to come in their correctt position without damaging the equipment. To effect this operation :



I Lift up the safety element of the lifting unit



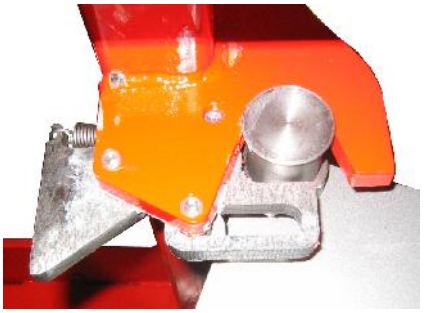
II Slowly lower the bench. In case the anti rotating part is jaming, slightly lift and slowly lower the bench again. Effect this operation until the anti rotating part is blocked at the rear end. **If necessary, proceed manually.**

24. Activate the lifting unit several times (without any load) to lubricate the contact surfaces, and for a smooth operation of the anti rotating parts. The running-in being effected, do not forget to lower the safety element down again.

ANTI-ROTATING PART

LOCKED
Position of the pulling unit => maximal height →

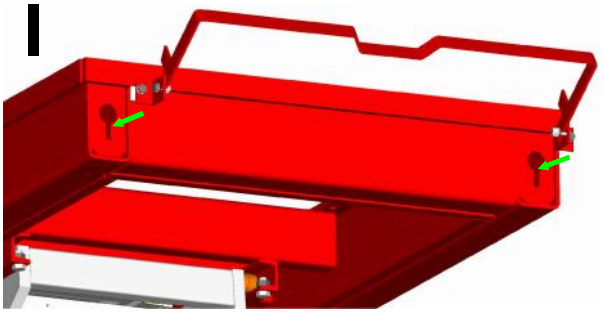
← **UNLOCKED**
The base is tilted



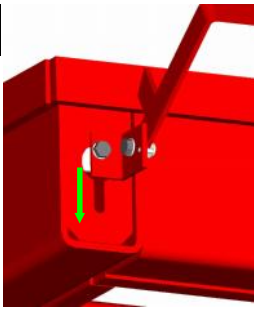
THE RUNNING-IN OF ANTI ROTATING PARTS IS MANDATORY .

25. At the rear end of the base, fix the foot protection bar :

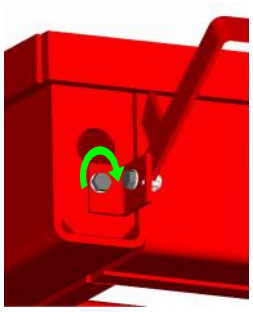
I



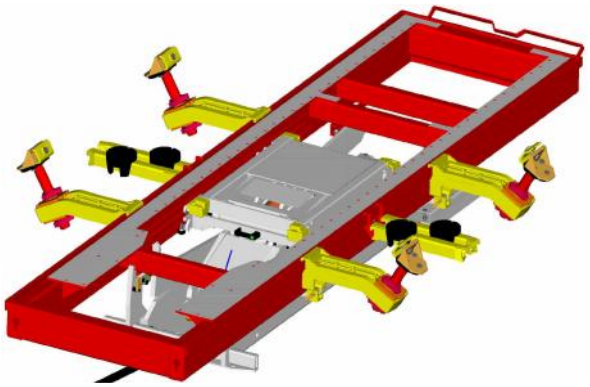
II



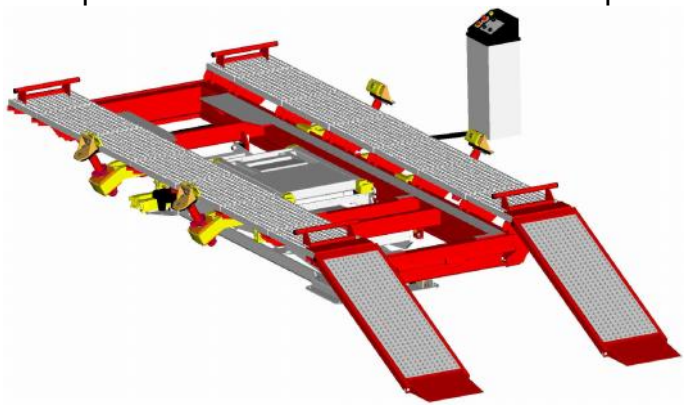
III



26. Install the set of clamps on the base. The anchoring clamp arms being fixed to the peripheral frame, the clamps will be inserted on the outer bended part of the arms.



27. Install the runway decking plates, the extension and the access ramps on the base.
Refer to page 48 to place these elements in their correct position : p.7 of the annexe



The equipement being installed as described above, the bench RHONE 2,8 T EVOLUTION is ready to be equipped with any adaptable checking, measuring, repair system, and with corresponding accessories of the CELETTE range.

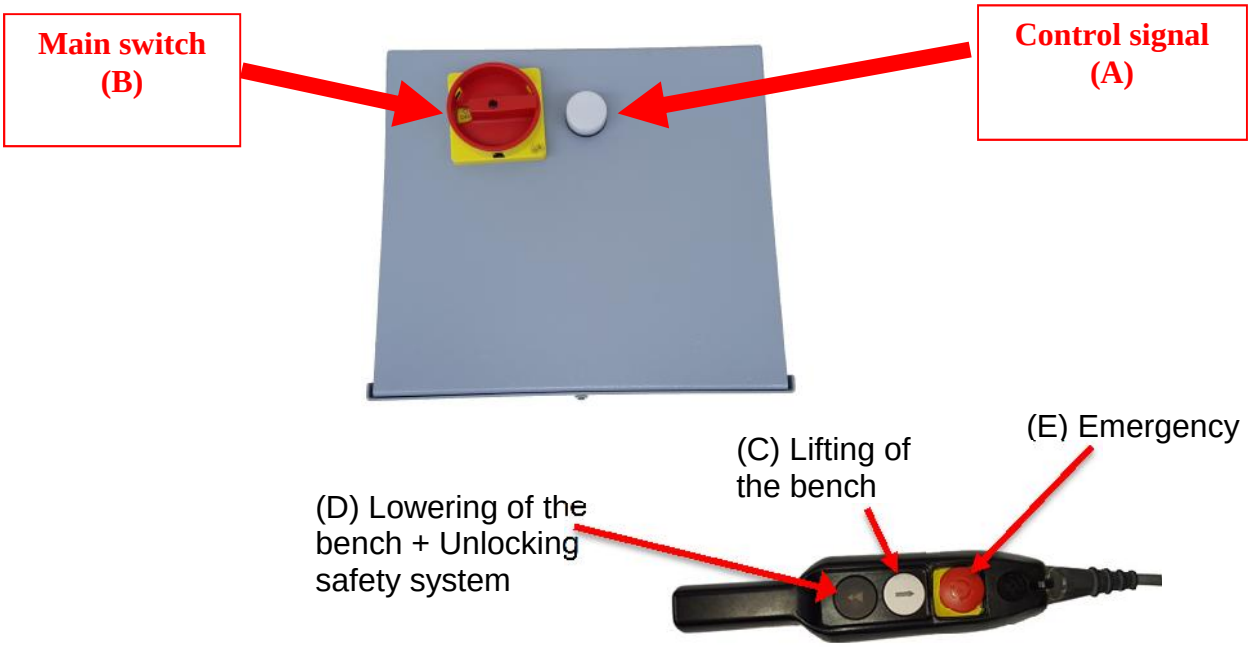
AFTER THE FIRST UTILIZATION, WE STRONGLY RECOMMEND TO CHECK THE TIGHTENING OF THE 10 EXPANSION DOWELS FIXING THE BENCH TO THE GROUND. AN UNCORRECT FIXING COULD GENERATE IRREVERSIBLE DAMAGES

NB : A load test has to confirm the correct installation of the equipement.
The chart hereunder states the tests to be effected.
The results of the load test have to be signed at the end of the installation.
Should the customer not be in a position to effect this test, he will have to commit himself to have this load test effected as soon as possible, while signing the report enclosed page 34.

Type of test	Load	Duration
Static test	4200 Kg	1 hour
Dynamic test	3220 Kg	Complete lifting/lowering cycle

Control and handling of the main lifting unit :

1. CONTROL :



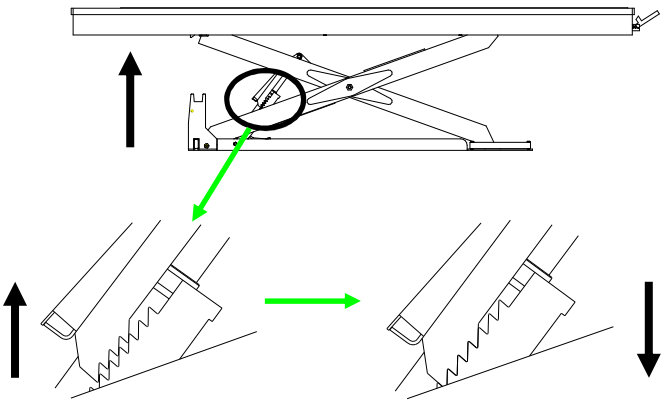
2. HANDLING :

Follow the safety instructions on the rear panel of the hydraulic power unit.
Before each operation, check that the power unit is under pressure (**A**).

- **LIFTING :**

I Activate drive **(D)** while pressing the key until selected height.

II Press the lowering control key **(D)** - Light pressure- to place the safety unit on its safety racks.

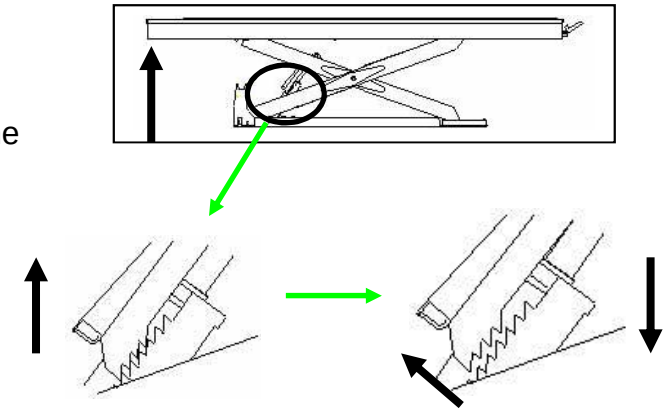


While in use, always place the safety system of the lifting unit on its safety racks.

- **LOWERING :**

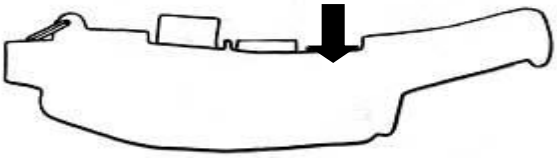
I Activate drive using **(C)** to unlock the safety system

II Activate the lowering control key **(D)** - Important pressure- until selected height.



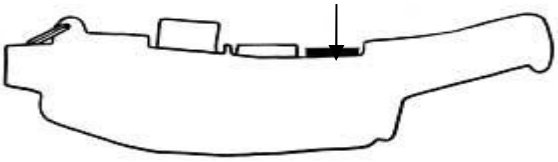
Unlocking of safety units and Lowering

Important pressure



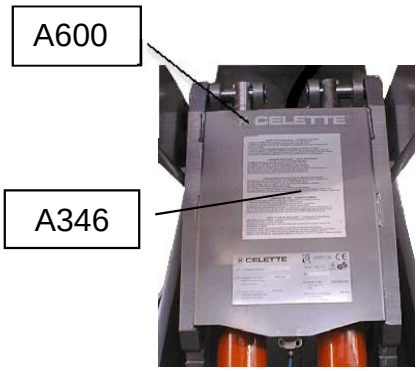
Lowering for Locking of safety units

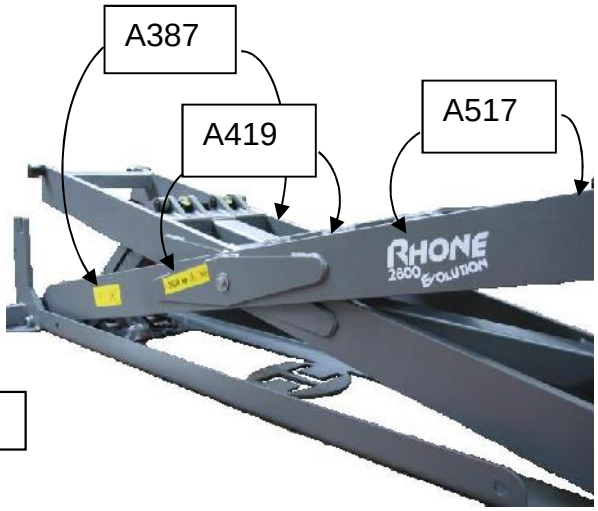
Light pressure



Stickers :

Sticker	Qty
A603	2
A606	2
A346	1
A387	2
A611	1
A517	5
A600	1
A419	2





Should stickers **A346**, **A.387** or **A419** be damaged, it it imperative to replace them upon request to CELETTE.
Should the other stickers be damaged, it is possible to replace them in the same way.

A346

INSTRUCTIONS D'UTILISATION - CONSIGNES DE SECURITE

Cet élévateur doit être utilisé uniquement lorsqu'il est relié et verrouillé au marbre.
L'utilisation de l'élévateur n'est autorisée qu'aux personnes de plus de 18 ans.
La présence de personnes sous ou dans le véhicule lors des opérations de levage et de descente est strictement interdite.
Le levage de charges dont le poids est supérieur à celui indiqué sur l'élévateur est interdit.
Le personnel utilisant le matériel doit constamment surveiller le véhicule lors des montées et descentes.
Avant la descente, tous les accessoires se trouvant dans la zone de travail du marbre doivent être éloignés.
Les instructions d'utilisation de l'élévateur et les contrôles réguliers sont à suivre soigneusement.

****

OPERATING INSTRUCTIONS - SAFETY PRECAUTIONS

The lifting unil will be used only after connection and locking to the bench.
The utilization of the lifting unit is not allowed to people under 18 years old.
It is prohibiled to stay under or in the car during lifting or lowering operations.
The lifting of weight exceeding the one stated on the lifting unit is not allowed.
The staff using the device must continuously check the vehicle during lifting or lowering operations.
Before placing the unit down, remove all accessories withing the bench area.
Operating instructions and regular checkings have to be carefully followed.

****

VERWENDUNGSANLEITUNGEN UND SICHERHEITSVORSCHRIFTEN

Die Hebehühne darf nur in Verbindung und nach Verriegelung mit der Richtbank verwendet werden.
Das Hebesystem darf nicht von Personnen unter 18 Jahren bedien werden.
Es ist strikt verboten, sich unter oder auf der Hebebühne beim Heben oder Ablassen zu befinden.
Die zulässige Nutzlast darf nicht überschritten werden.
Beim Anheben oder Ablassen soll das Fahzeug ständich überwacht werden.
Vor jedem Ablassen müssen alle Störteile, die sich in der Nähe der Richtbank befinden, entfernt werden.
Die Betriebsanleitungen des Hebesystems und die regelmäβigen Überwachungen müβen sorgfältig beachtet werden.

****

ISTRUZIONI PER L'USO - NORME DI SICUREZZA

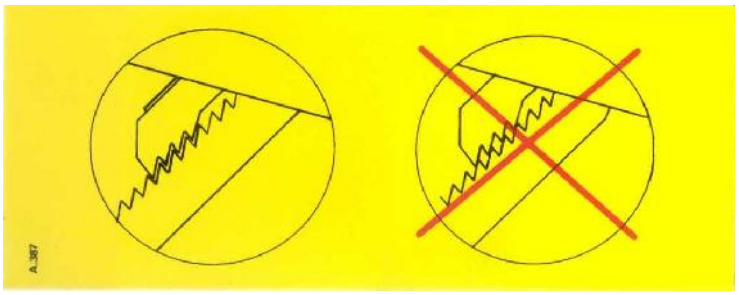
Il sollevatore deve essere utilizzato soltanto dopo collegamento e bloccaggio sul banco.
L'utilizzazione del sollevatore non é autorizzata ai minori di 18 anni.
E vietato restare sotto o dentro al veicolo durante le operazioni di sollevamento e di discesa.
Il sollevamento di carichi superiori al peso indicato sul sollevatore ó proibito.
Gli utilizzatori del sollevatore devono sorvegliare costantemente il veicolo durante il sollevamento o la discesa.
Prima della discesa, tutti gli accessori presenti nella zona di lavoro del banco devono venire rimossi.
Le istruzioni per l'uso e i controlli regolari del sollevatore devono essere seguiti accuratamente.

****

INSTRUCCIONES DE UTILIZACION - CONSIGNAS DE SEGURIDAD

Este elevador deber ser utilizado solamente cuando esta conectado y sujeto al banco.
Unicamente puede ser utilizado por mayores de 18 años.
La presencia de personas debajo o dentro del vehículo en el momento de la subida y bajada esta estrictamemnte prohibida.
La subida de cargas cuyo peso sea superior a lo indicado en el elevador esta prohibida.
Los operarios deben vigilar continuamente el vehículo durante las subidas y bajadas.
Antes de la bajada, todos los accesorios que se hallen en la zona de trabajo cerca del banco deben ser retirados.
Seguir con suma atención las instrucciones de utilización del elevador asi como los controles periodicos del mismo.

A.387



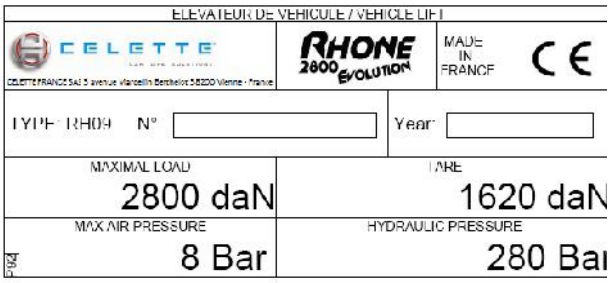
A419

Identifications plates :

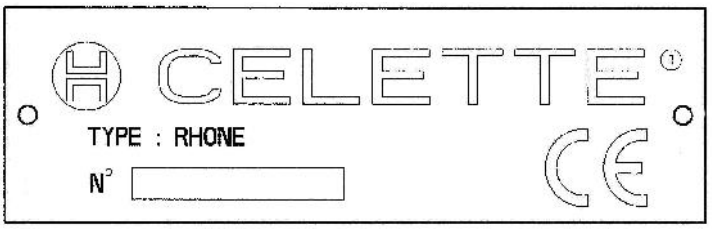
1. he identification plate of the power unit is fixed on the rear panel

NB : In case of trouble, the information stated on this plate will be requested by the After Sales Dept. (SAV).

2. On the lifting unit, the identification plate is located on the safety element of the main lifting unit :

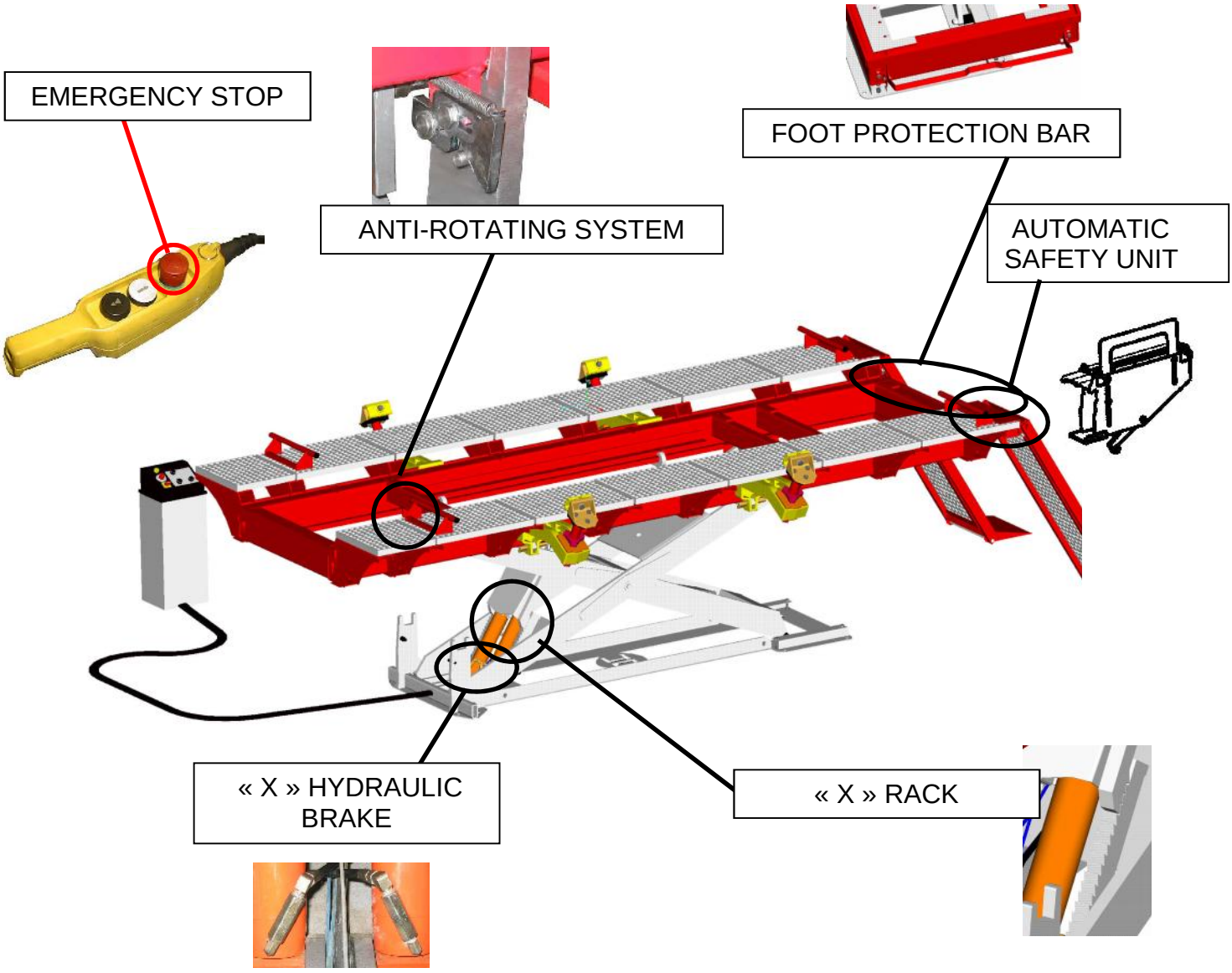


3. On the base, the identification plate is on the front crossmember :



NB : Should one of these plates be damaged, it is imperative to replace it upon request to CELETTE.

Safety systems :



ANTI-ROTATING SYSTEM : Automatic system locking the base on the main lifting unit as soon as the base separates front the leg

FOOT PROTECTION BAR : Safety bar to prevent the feet from going under the base being tilted

EMERGENCY STOP : Safety button to stop the bench instantaneously

SAFETY RACK : Mechanical safety system blocking the lowering operation by means of steel notches in case of hydraulic trouble

HYDRAULIC BRAKE : System limiting the oil leaking in the jacks area and enabling a slow and smooth lowering, whatever the load may be

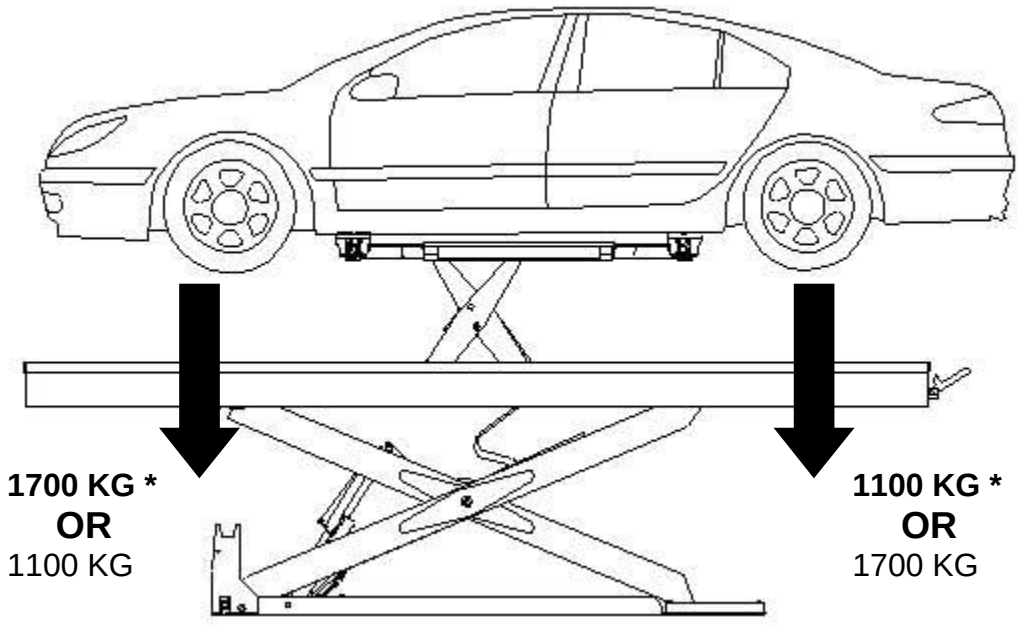
AUTOMATIC SAFETY SYSTEM : System designed to fix the vehicle on the runway decking plates

POSSIBLE RISKS

RISKS	SOLUTIONS
Crushing – Pinching out	Foot protection bar
Cutting	Control unit with continuous activation system
Hydraulic leakage	Automatic locking of safety systems (mechanical rack)
Hose breaking	Lowering control system with valve
High pressure fluid projection	Overpressure preventer
Activation of the lifting unit during a repair or maintenant operation	Main switch with padlock system
The vehicle is moving around on the lifting unit	Automatic anchor post / Removable support
Fluid projection	IP54 Power unit

Balance of weights :

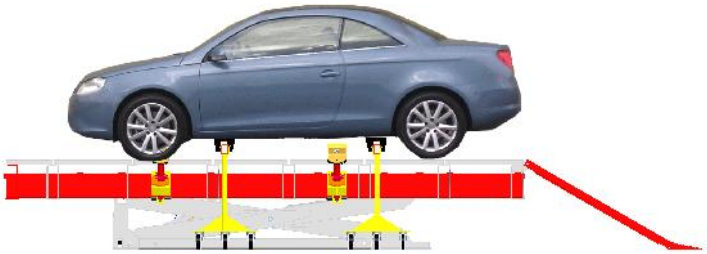
MAXIMAL LOAD CAPACITY : **2800 KG** divided in 3/5, 2/5 on each axle :



Utilization :

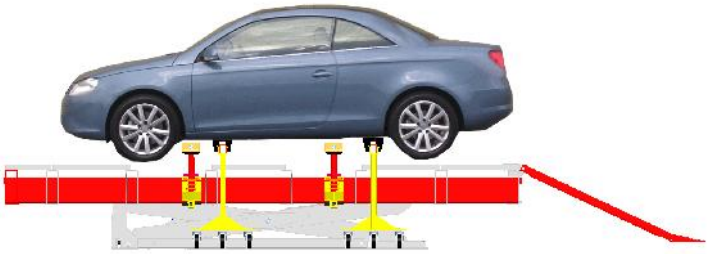
1. Installation of a running vehicle on the base :

I Slowly and smoothly lift up the vehicle



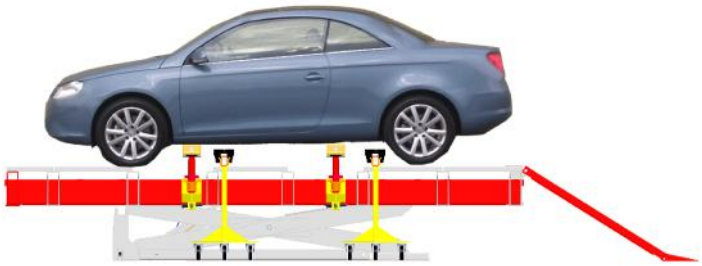
II Place the bench horizontally on the safety element
Install the 4 locking wedges nearby the wheels

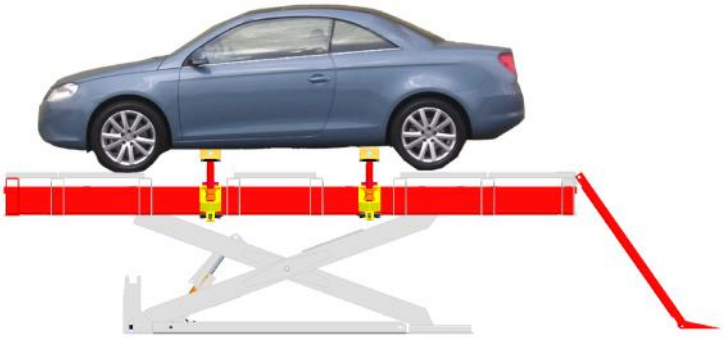
III Lower the base to place the vehicle on the 4 axle stands.



IV Remove the runway decking plates to install the clamps .

V Lift the base to anchor the vehicle. Remove the axle stands.





VI Vehicle ready to be repair

2. Installation of a vehicle with one non rolling axle on the base :

Use the option **GR11.0074** including the installation trolley and the manual winch.

I The vehicle will be towed with the winch, which cable will be fixed directly :

- to the trolley in case this trolley replaces the front axle or
- to the vehicle, should it replaces the rear awls

II Place the bench horizontally on the safety system

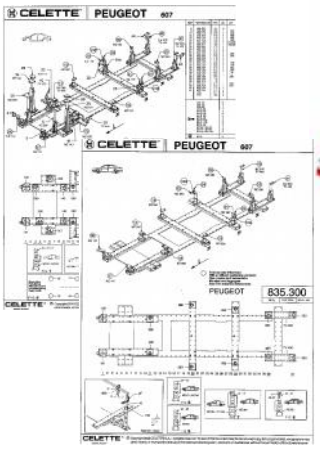
The fixing of the trolley on the vehicle must be efficient

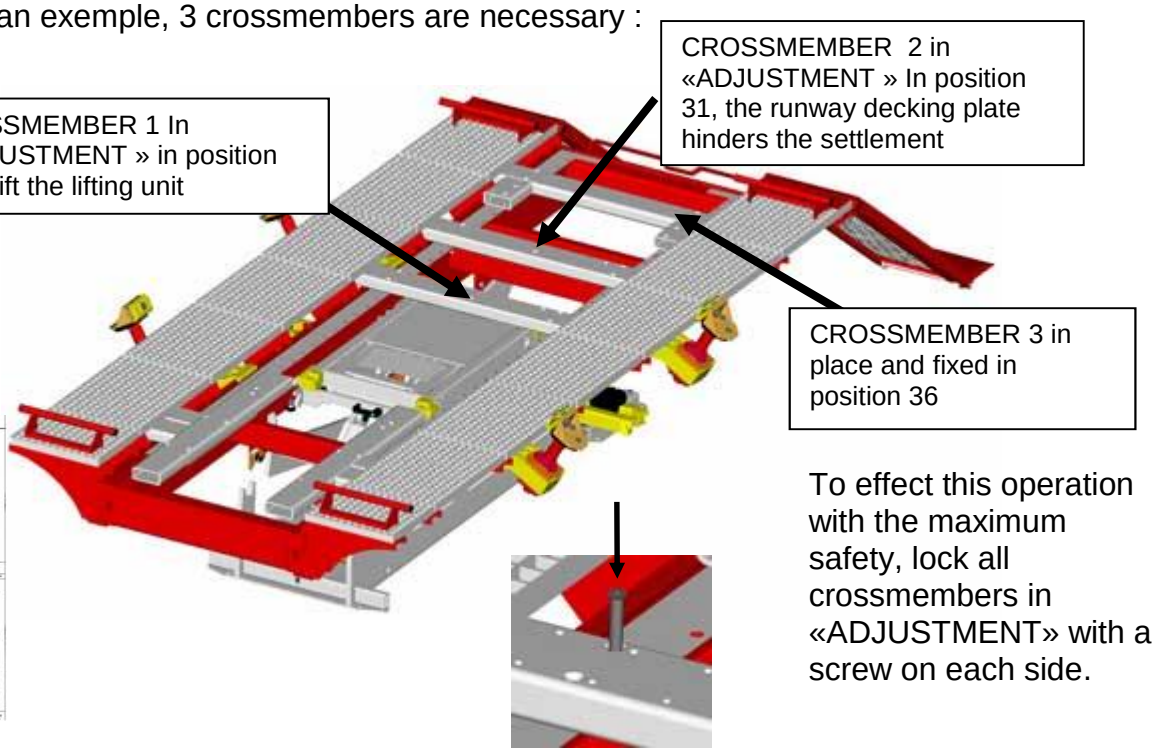
Options :

1. The « MZ System » :

- Install the bench by means of the « MZ » data sheets, while effecting a previous adjustment of the crossmembers (it is easier to place them before placing the vehicle on the bench) :

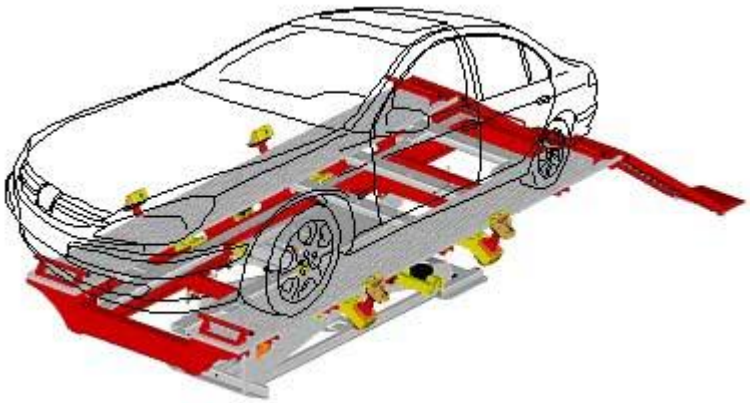
- As an exemple, 3 crossmembers are necessary :



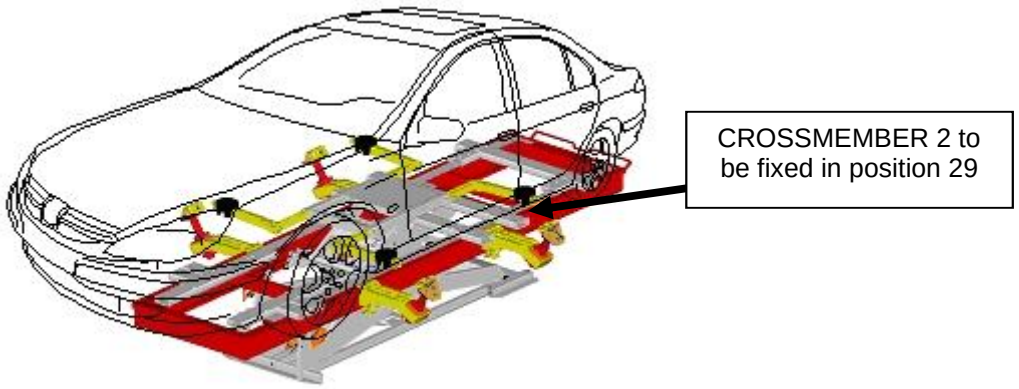


To effect this operation with the maximum safety, lock all crossmembers in «ADJUSTMENT» with a screw on each side.

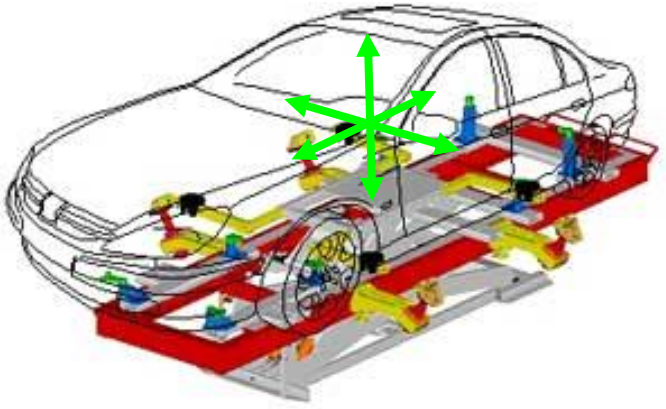
- Roll the vehicle on the bench, as shown on page 24 :



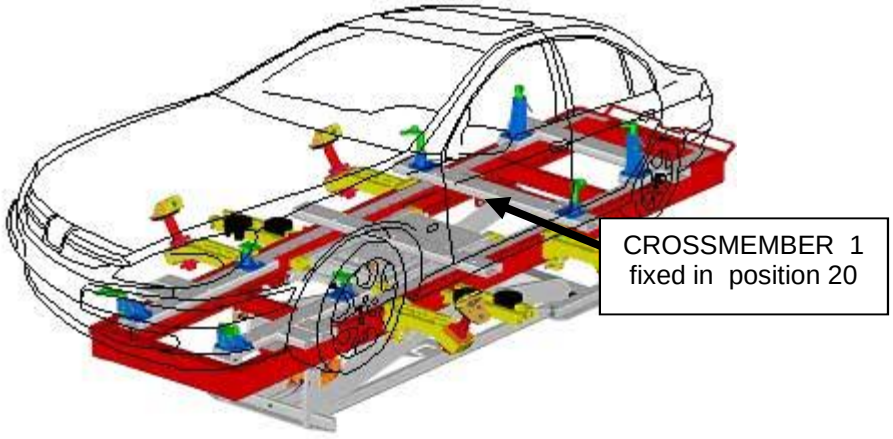
- If not effected, remove the elements of the runway decking plates which may hinder the fixing of the crossmembers.



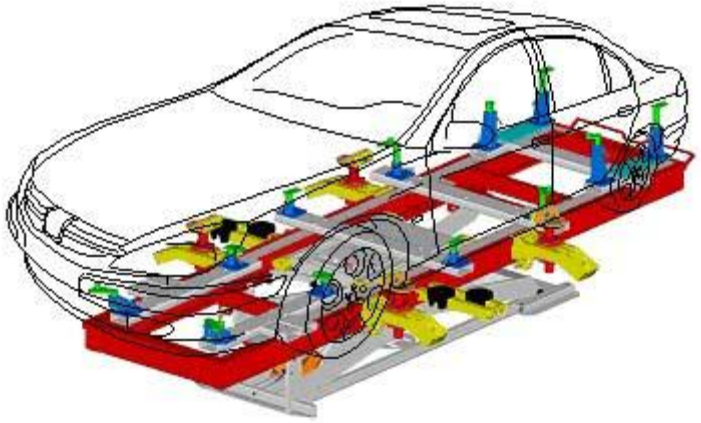
- Install the necessary and sufficient quantity of MZ Towers to install the vehicle on the bench. Adjust its position on the brackets while shifting the vehicle by means of the axle stands :



CAUTION : The technician, such as everyone on the work bay, should stay **1,50m** away from the load during each lifting or lowering operation.



- Complete the installation of towers and bracket sets, lock the underframe of the vehicle by means of the anchoring clamps.



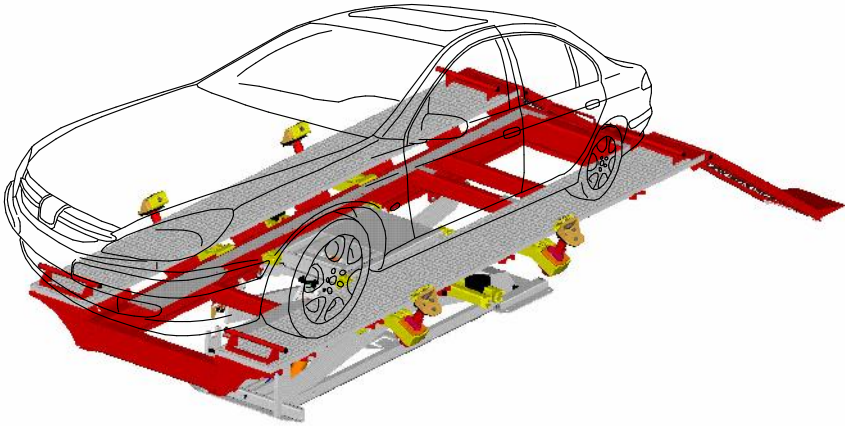
The vehicle is ready to be repaired.

- The repair being over, proceed in the reverse way to release the vehicle.

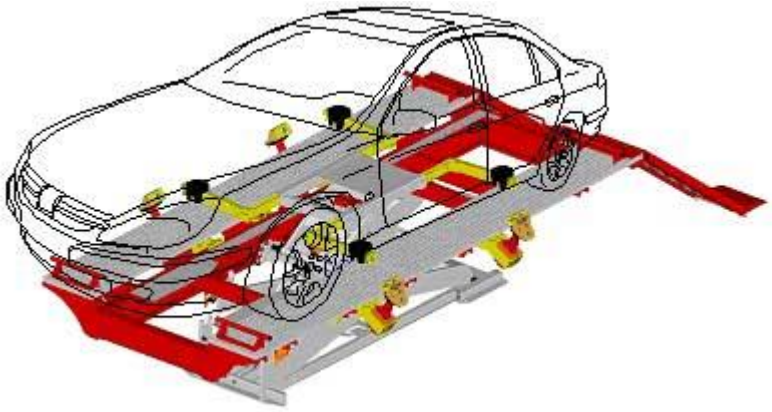
CAUTION :
Place the duck boards and the access ramps in correct position again (refer to p.7 in annexe)

2. « METRO 2000 » measuring system :

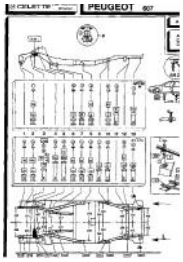
- Install the vehicle on the bench as shown on page 24 :

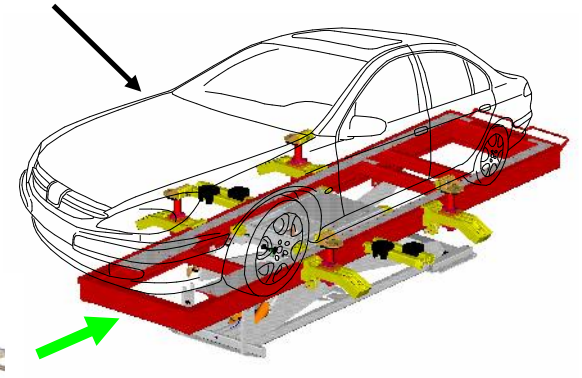


- Lift the vehicle with the axle stands, as shown on page 24 :



- Remove the runway decking plates, adjust the clamp height according to the value stated on the « METRO » data sheet corresponding to the vehicle, and tie the clamps.





- Slide the METRO 2000 frame between the base and the vehicle, and fix it. Mount the sliders according to the data sheet. Repair.

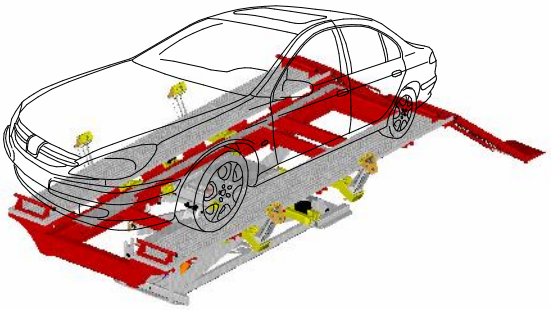
- The repair being over, proceed in the reverse way to release the vehicle .

CAUTION :

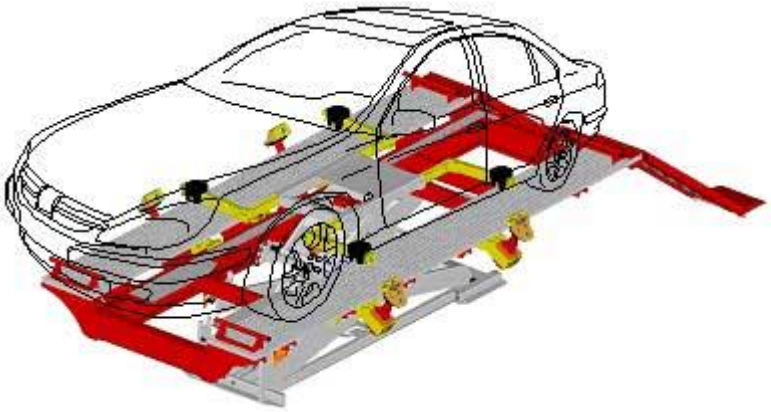
Replace the duckboard plates and the access ramps in a correct way (page 48)

2. « NAJA » electronic measuring system :

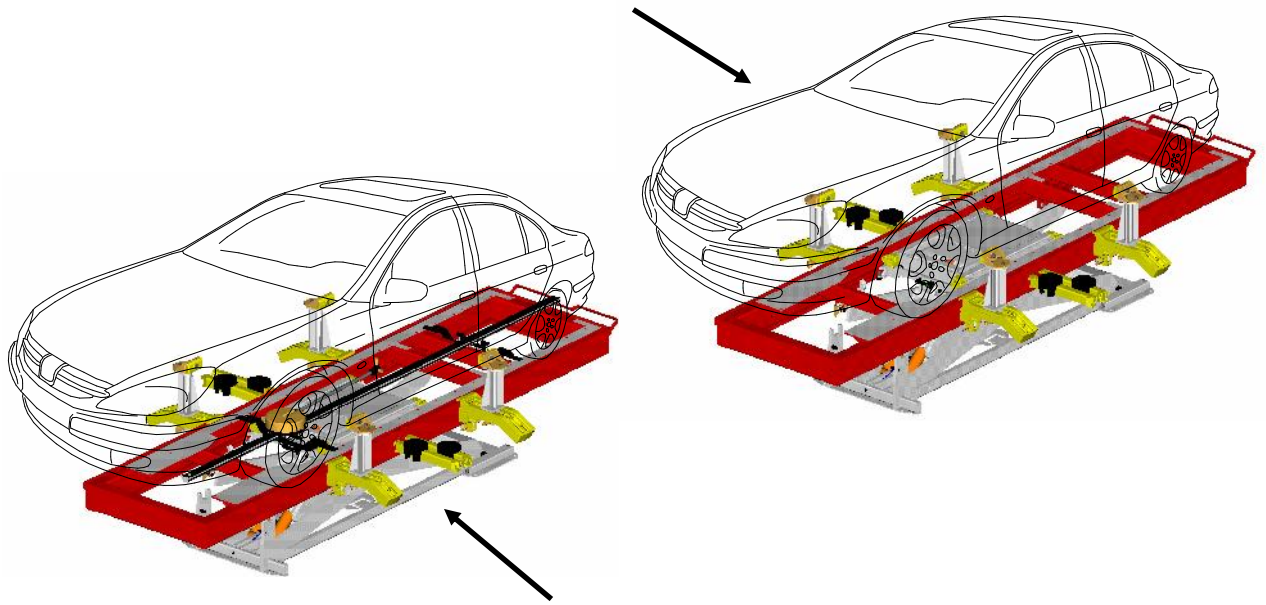
- We recommend to use the static clamp. Install the vehicle on the bench as shown on page 24:



- Lift the vehicle with the axle stands, as shown on page 24 :



- Remove the runway decking plates. Anchor the vehicle on the clamps.



- Fix the « NAJA » rail supports on the base and place the Naja above. Install the measuring top, repair.

- The repair being over, proceed in the reverse way to release the vehicle.

CAUTION :
Replace the duckboard plates and the access ramps in a correct way (page 48)

Accessories :

To make your job easier, a large range of options and accessories can be used together with this equipment.
Contact your agent to get the complete list and availability.

Maintenance :

To insure the reliability and durability of your equipment, we recommend to effect following checkings regularly (at least once a year) :

- The oil level of the power unit tank. To effect this operation, the lifting unit has to be completely lowered.

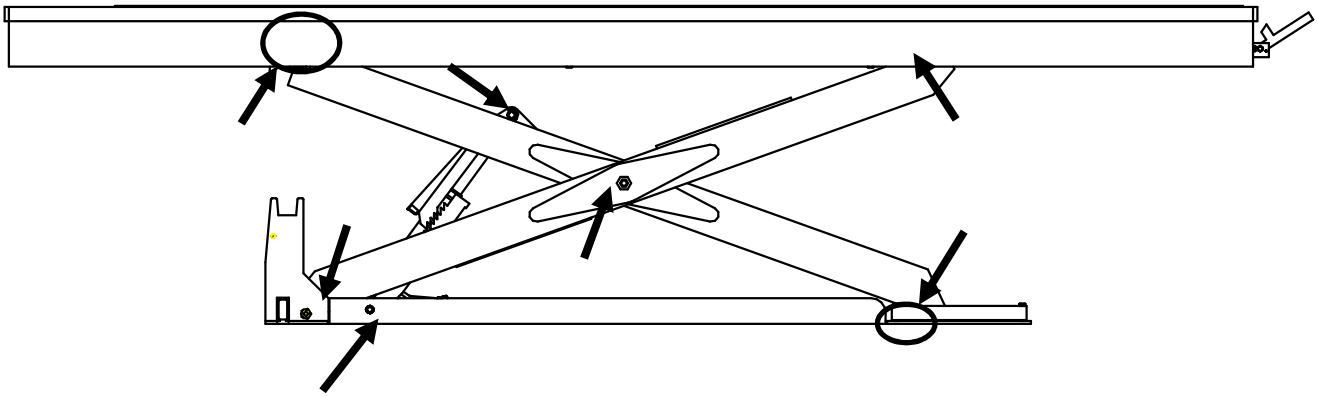
- The condition of hydraulic and pneumatic hoses (Possible leakages or scratchings).

- The condition of the electric wires .

- The waterproofness and look of the jacks.

- All connections of the bench, of the power unit, of the possible options and accessories (hydraulic, pneumatic, electric) .

- The look of the safety system notches of the lifting unit
- The condition of the ball bearings
- The condition of the safety stickers.
- The tightening of the fixing screws to the ground.
- The lubrication of mobile or orientable points:



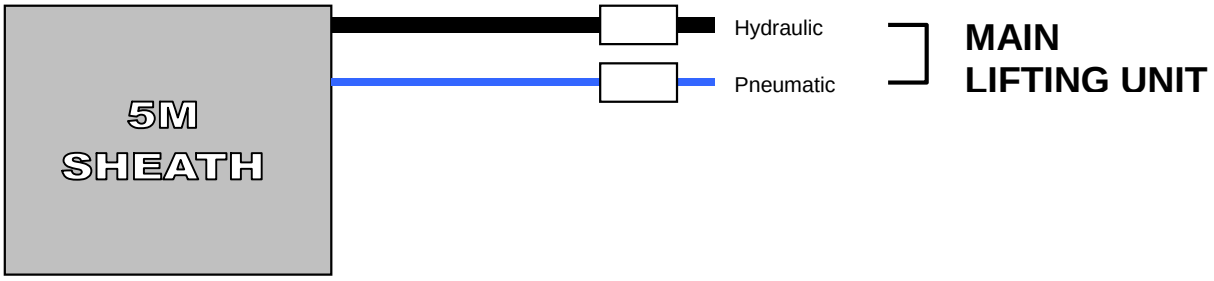
- The condition of the runway decking plates
- The levelness of the bench
- The general look of the bench

In case of trouble, it is imperative to effect level checkings or repairs to maintain the confirmity of the equipment utilization. The spare parts have to be homologated by the manufacturer

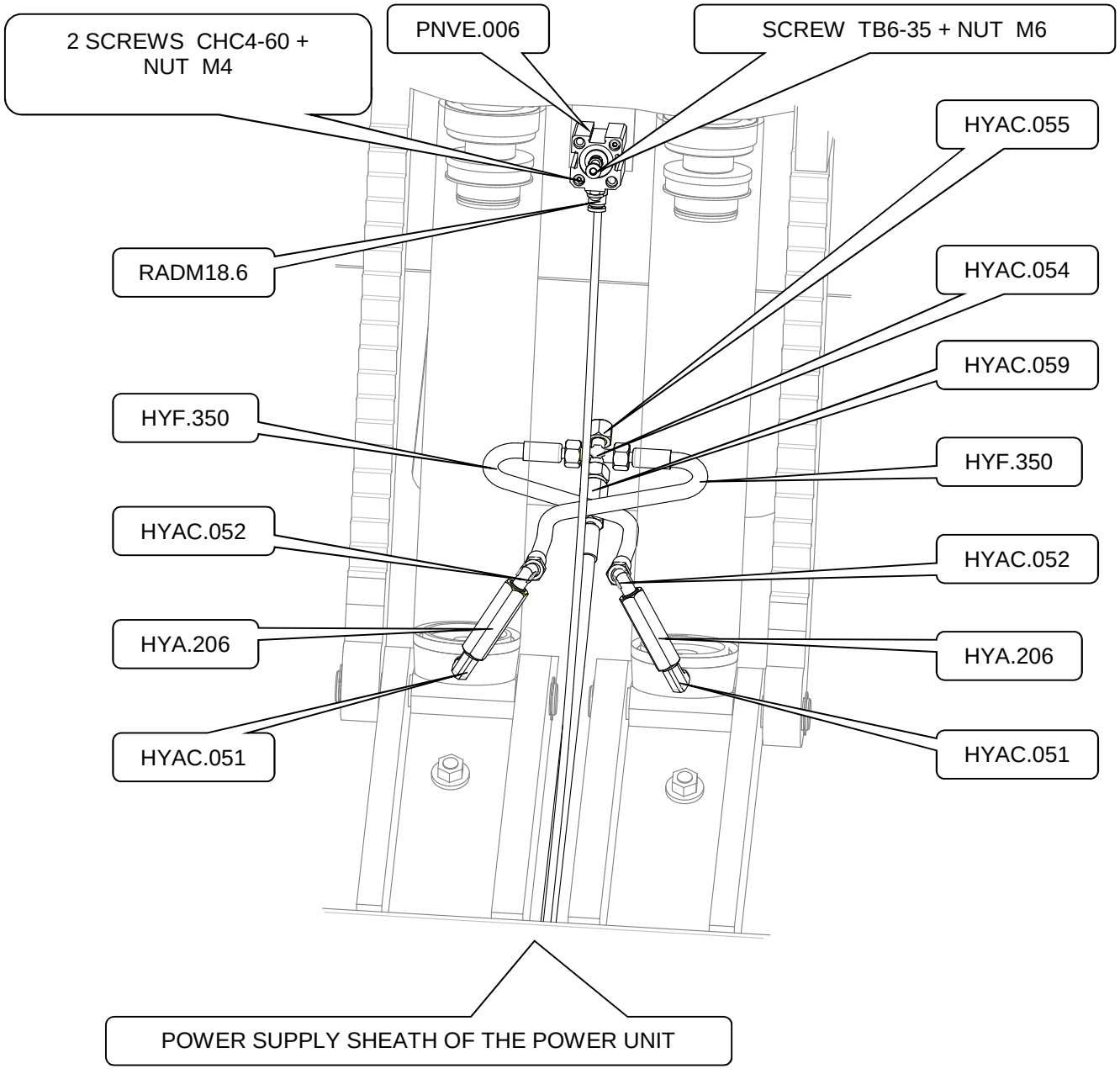
BEFORE ANY MAINTENANCE OPERATION, IT IS IMPERATIVE TO PLACE THE BENCH HORIZONTALLY AND TO FIX IT ON ITS MECHANICAL SAFETY UNIT.

Connection POWER UNIT / BENCH

- POWER UNIT SHEATH :



- POWER UNIT / MAIN LIFTING UNIT :



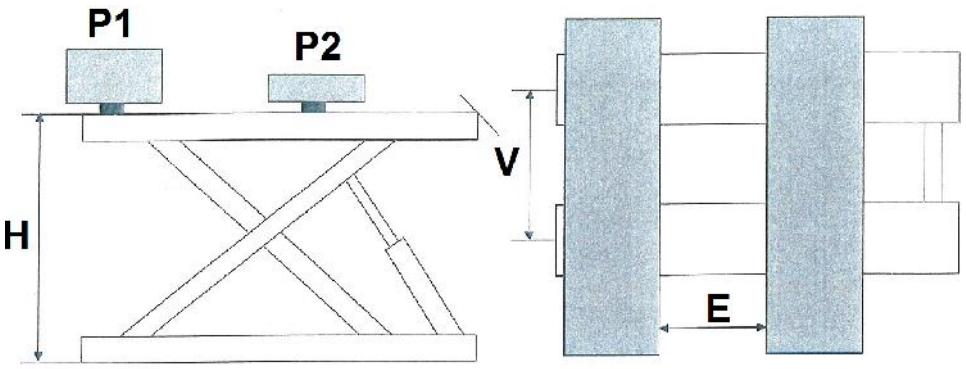
Dysfunctions

CAUSE OF THE DYSFUNCTION	CHECKING	SOLUTION
The control light does not light on No movement possible	• General energy supply • Main break switch (IG)	• Connect the energy supply to a receptacle • Place the main switch in ON position • Check the general energy supply of the control panel and of the workshop
The control light lights on No movement possible	• Motor thermal break switch (C1) • Motor contactor coil	• Contact the After Sales Service • Start C1 again.
No lowering possible	• Compressed air supply • Coil of the hydraulic discharge electrovalve	• Connect the device to a compressed air supply • Check the workshop pneumatic pressure • Contact the After Sales Service

TRIAL LOAD AT INSTALLATION

Customer Name :	
Adress :	

Designation :	RHONE 2800 Evolution	Serial number :	
Référence :	RH09x.x8xx.x	Re-seller :	

Type of load event set up during test	Specification
Test load according to standard EN1493	Mass (Kg) – dimensions (mm)
(Load description)  H = Height V = way E = footing P1 = 3/5 total load P1 = 2/5 total load	V = 1600 E = 3000 H = 700 STATIC TEST P = 4200 P1 = 2520 P2 = 1680 DYNAMIC TEST P = 3220 P1 = 1932 P2 = 1288

Test realized by (company name) :	
Represented by :	
Date of test :	
Representative signature :	

In case the test has not been performed at the time of installation, the customer is bound to get it done as soon as possible.

Person in charge		Date :		Signature :	