

USE AND  
MAINTENANCE  
MANUAL

**RP 040**  
LIFT RAMP



REVIEW 00  
B12-057



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# **1. INTRODUCTION**

## **1.1. INTRODUCTION**

Thank you for purchasing a product from the line of pneumatic ramps. The machine has been manufactured in accordance with the very best quality principles. Follow the simple instructions provided in this manual to ensure the correct operation and long life of the machine. Read the entire manual thoroughly and make sure you understand it.

## **1.2. MANUAL KEEPING**

For a proper use of this manual, the following is recommended:

- Keep the manual near the lift, in an easily accessible place.
- Keep the manual in an area protected from the damp.
- Use this manual properly without damaging it.
- Any use of the machine made by operators who are not familiar with the instructions and procedures contained herein shall be forbidden.

This manual is an integral part of the manual: it shall be given to the new owner if and when the machine is resold.

### **TO THE READER**

Every effort has been made to ensure that the information contained in this manual is correct, complete and up-to date. The manufacturer is not liable for any mistakes made when drawing up this manual and reserves the right to make any changes due the development of the product, at any time.

## 2. GENERAL INFORMATION

### 2.1. MACHINE IDENTIFICATION

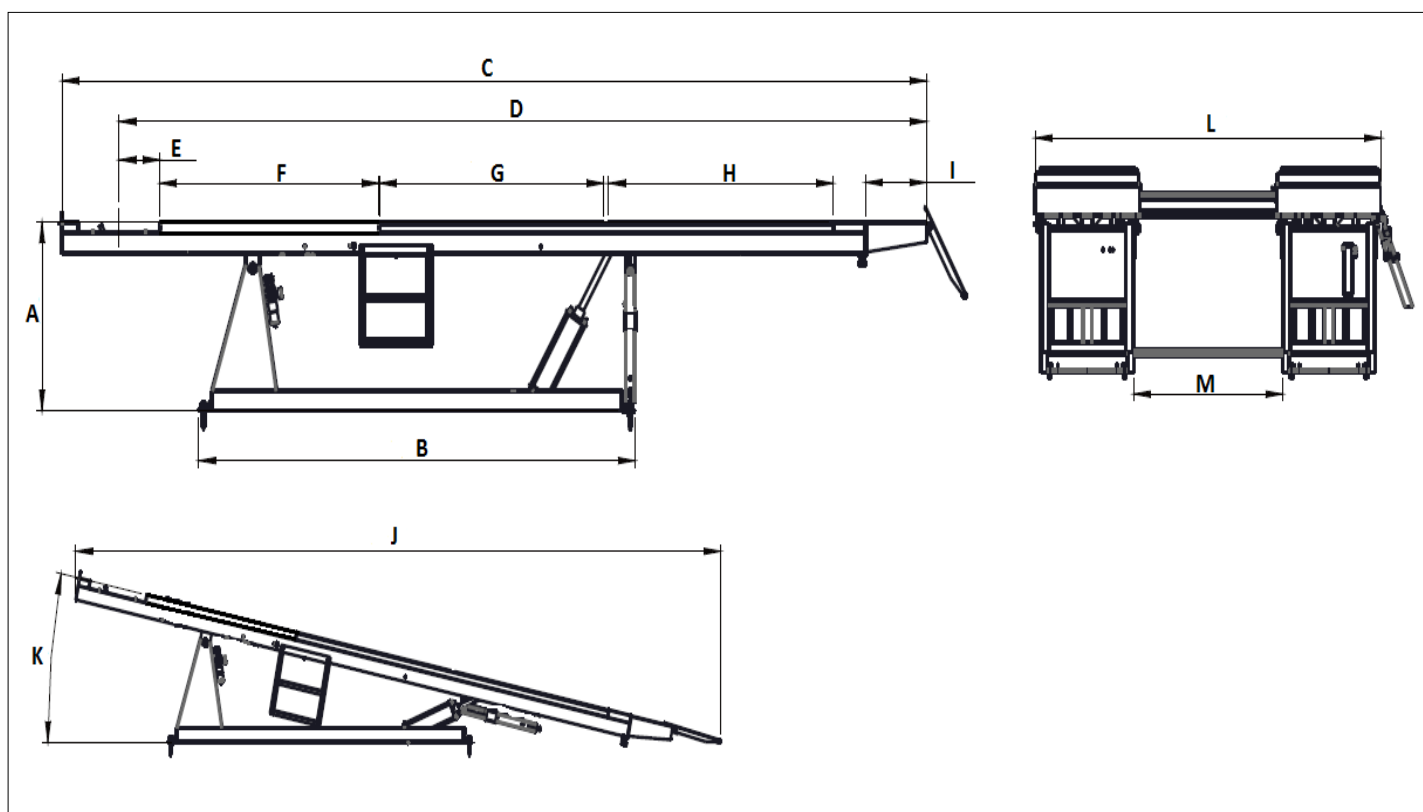
Serial number plate attached to the equipment must not be removed. It will facilitate the identification of it when technical assistance is required.

Figure 1



### 2.2. DIMENSIONS

Figure 2



A	B	C	D	E	F	G	H	I	J	K	L	M
960	2770	5490	5130	260	1390	1430	1430	390	5850	11°	2200	950

Values in millimeters.

## 2.3. TECHNICAL SPECIFICATION

Work pressure .....	120 - 150 psi (8,2-10 bar)
Air consumption.....	13 ft <sup>3</sup> /min
Lifting capacity.....	4000 Kg (150 psi)
Weight machine.....	about 900 Kg
Between vehicle axle.....	1600 - 4500mm
Vehicle gauges.....	1000 - 2100mm
Area for installation .....	32m <sup>2</sup> (8x4m)

Lifting by 4 pneumatic pistons.  
It has air control unit (LUBRIFIL).

**OBS.** The lifting capacity of the ramp RP-40 is directly related to the load distribution on it. Vehicles with less distance between axle have ease in their elevation, since vehicles with larger axles have resistance in their elevation, since it is linked to the weight distribution in the platform of the ramp.

## 2.4. PACKING

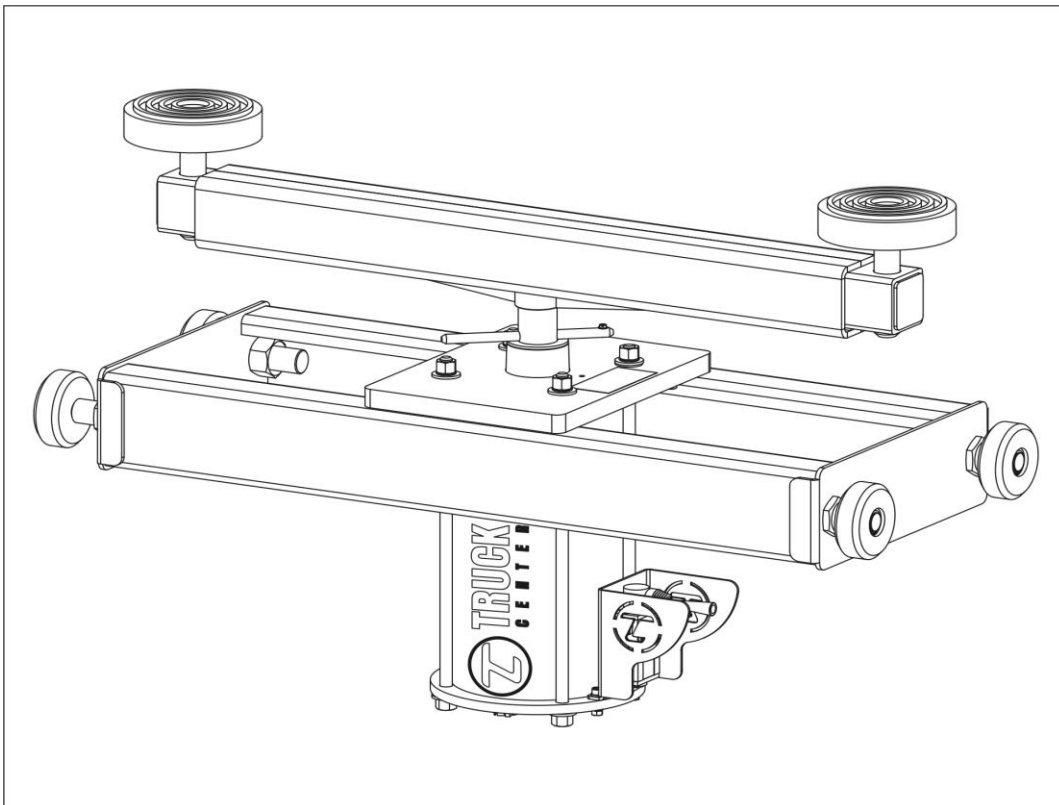
- The equipment must be transported in its original packaging and kept in the position shown on the package itself.

Description
LEFT BRIDGE
RIGHT BRIDGE
LEFT BASE
RIGHT BASE
STABILIZER BEAM
SUPPORT FOOT OF THE BRIDGES
STAIRS
SEAT TO GEOMETRY
PNEUMATIC ELEVATOR - OPTIONAL
LOCK FRONT TIRE

## 2.5. OPTIONAL

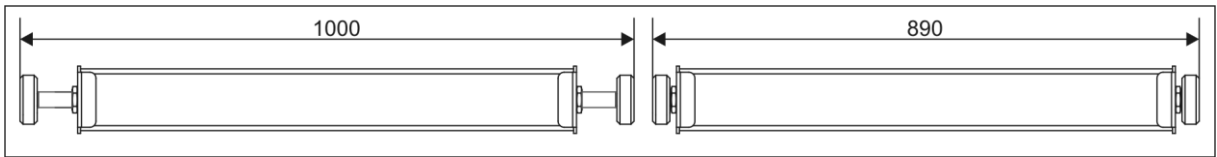
### 2.5.1. PNEUMATIC ELEVATOR

Figure 2



Air consumption.....	45 ft <sup>3</sup> /min
Lifting capacity.....	2500 Kg
Minimum opening of base (fig. 6).....	890 mm
Maximum base opening (fig. 6).....	1000mm
Lifting piston.....	270mm
Point of support course.....	50mm

Figure 4



## 2.5.2. INSTALLATION PNEUMATIC ELEVATOR

Support the wheels on one side of the base of the Pneumatic Lift in the inner channels of the Pneumatic Ramp (fig 5).

Also adjust the distance of the wheel bolts according to the internal clearance of the Pneumatic Ramp, until the wheels on the other side of the base are in the groove (fig.6).

Figure 5

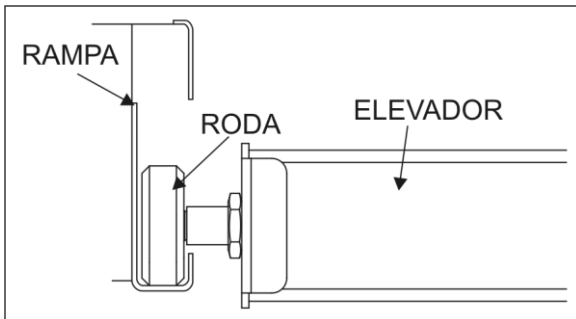
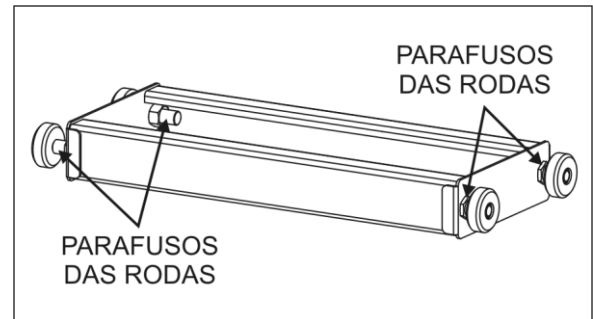
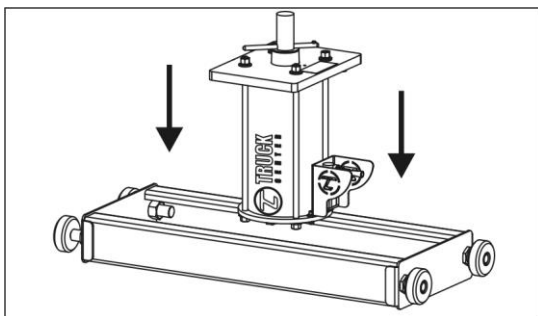


Figure 6



Install the pneumatic piston by placing it upside down on the base (fig.7).

Figure 7



**ATTENTION:** Observe the correct positioning of the piston to prevent possible fall.

Install the accessory with a support (Figure 8) or two supports (Figure 9) on the piston rod as required.

Figure 8

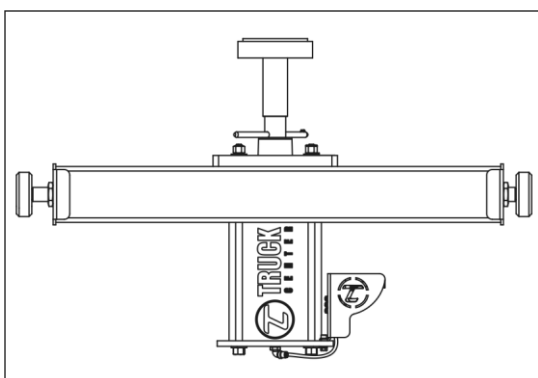
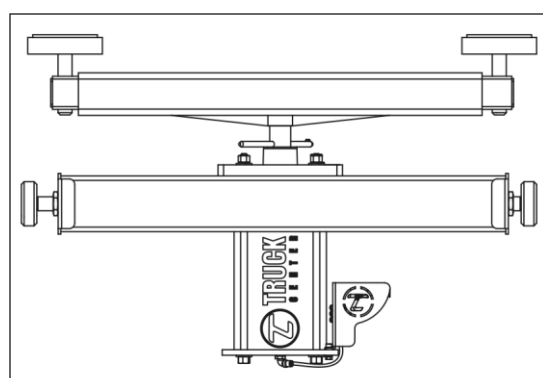


Figure 9



### 3. INSTALLATION

#### 3.1. SPACE REQUIRED

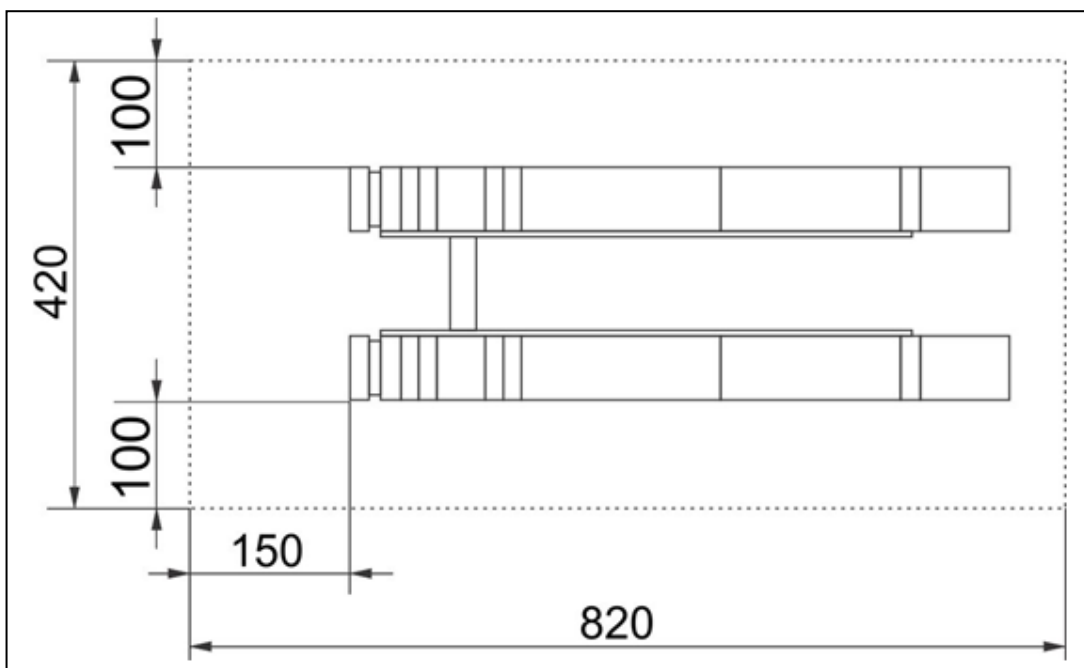
- The ramp must be located on a flat floor of solid construction, preferably concrete. The kit should be fixed to the ground by ½ "bolts at all eight drilling points.
- It must be installed in a covered place (protected from "weather"), on a level floor with 10 cm of reinforced concrete at least.
- There should be a free space for work (4.2 m x 8.2 m) as shown in figure 10

#### 3.2. PNEUMATIC INSTALLATION

- Pneumatic installations must be performed by qualified personnel.
- The equipment should be as close as possible to the air compressor.
- Use a pipe of at least 3/4 ".
- The hose connecting the pipe to the Ramp should be Ø 3/4 "and a maximum of 5 meters.
- The pneumatic line must be properly primed (moisture-drained and non-lubricated) at 120 to 150 psi (8.2 to 10 bar) maximum.

#### 3.3. WORKSPACE

Figure 10





**Attention:** if RP-40 is used with 3D, the dimension of 150cm passes to 200cm

## **4. SAFETY**

### **4.1. GENERAL SAFETY**

- The lift ramp should only be used by duly authorized and trained personnel.
- The lift ramp should not be used for purposes other than those described in the instruction manual.
- Under no way should lift ramp be modified except for those modifications made explicitly by THE MANUFACTURER.
- Never remove the safety devices. Any work on the machine should only be carried out by specialist personnel.
- Avoid using strong jets of compressed air for cleaning.
- The machine operator should avoid wearing clothes with flapping edges. Make sure that unauthorized personnel do not approach the machine during the work.
- Improve the presence of people inside the vehicle during operations.
- Do not leave the vehicle on the platform if it is not level.
- Do not leave the vehicle for a long period of time with the pressurized pneumatic system and the feet already positioned for descent.

## **5. INTENDED USE**

- The RP-40 Pneumatic Ramp is intended for use exclusively for vehicle lifting of a maximum of 4,000 kg.
- With the Ramp-RP-40, it will enable operations that involve steering alignment, as well as easy access to all parts of the vehicle's suspension.
- It should be used only within the intended use; any other use is considered improper.

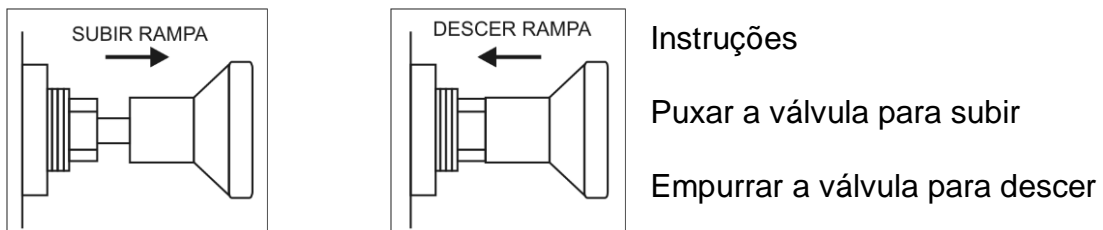
- Prohibited loaded vehicles (trucks and vans) whose gross weight exceeds the suspension capacity of the ramp.
- For any questions regarding use, installation or maintenance, consult this manual and / or our technical department.
- CAUTION: Do not use the ramp when the vehicle is loaded
- In particular **THE MANUFACTURER** cannot be held responsible for any damage caused through the use of ramp for purposes other than those specified in this manual, and therefore inappropriate, incorrect and unreasonable.

## 6. OPERATION

### 6.1. CONTROL

Button valve located on the side of the ramp near the access ladder, manual actuation according to figure 11 below.

Figure 11



### 6.2. VEHICLE RISE

- Adjust the rear movable platforms according to the gauge of the vehicle.
- Position the vehicle in an aligned and centralized way with the Ramp.
- Raise carefully with the vehicle, leaving the front wheel as close as possible to the orbital platform.
- Request that another operator activate the valve to climb the ramp and adjust the distance of the orbital platform freeing the pins locking it.
- After the ramp finish the elevation. Move the vehicle until the front wheels are on the Orbital Platforms.
- Turn the vehicle's stationary brake and turn it off.

- Install lock brake and flywheel lock if necessary.
- Get down the vehicle and check that the support feet are positioned correctly.
- Turn valve to lower Ramp under support feet.
- Position the shims on the left rear tire.
- Initiate the maintenance / alignment of the vehicle.

ATTENTION: Position a shim in the front and a rear left rear tire.

### **6.3. VEHICLE DOWN**

- Remove the rear tire chocks with the vehicle brake still engaged.
- Pull the valve knob (fig.11) to raise the Ramp and release the feet.
- To learn the Ramp's support feet with the chain.
- Log in the vehicle, remove brake latch and flywheel lock if engine has been installed.
- Request another operator to actuate the valve to descend the Ramp.
- Remove the vehicle carefully from the Pneumatic Ramp.

## **7. MAINTENANCE**

Some preventive maintenance services can be performed by the owner:

Regularly clean the ramp to avoid accumulation of solid and liquid residues that contribute to the wear and corrosion of parts.

Keep the air line with correct pressure. "Excess pressure causes rupture of seals, valve breakage or wear".

Keep compressed air free from moisture. Humidity in the air causes oil deterioration and internal corrosion, leading to the creation of solid waste that depletes the seals, causes clogging, and engages valves.

Purge the filter daily.

Constant air lubrication. Maintain pneumatic oil (S10 or SIMILAR) in the grease cup, adjusting for 6 to 8 drops at each lift of the Pneumatic Ramp. The lack of FLOW (circulation) of the oil in the lubrication system will cause serious damage to the pneumatic systems. Never use oil for hydraulic systems or it is not recommended.

Raise the entire piston rod and pneumatic lift and complete with S10 oil or similar, once a week.

Periodically check all welding points observing possible cracks or deformities in the structure.

Retighten all securing bolts, taking care not to overtighten the piston locking nuts and mechanical locks.

Periodically lubricate the hinge axes with standard oil.

Inquiries regarding the use, installation or maintenance, consult this manual and / or our technical department.

#### ATTENTION

Any other servicing needs must be performed by authorized Truck Center® technical personnel.

The equipment will lose its warranty if it is modified, repaired or intervened by unauthorized persons.

Access to [www.truckcenter.com.br](http://www.truckcenter.com.br) to see which technician is available for your region.