LABA7 Manual Vacuum Bleed Pump
User Manual

Lithuania 2025

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1. Introduction

Dear Customer,

Thank you for purchasing this product.

To ensure this condition and ensure safe operation, you must observe these operating instructions!

Read the entire operating instructions before using the machine for the first time. Observe all operating instructions and safety instructions!

UAB LABA7
Giluzio st. 15
Vilnius
Lithuania

2. Safety Information

- This manual is designed to be used in conjunction with the service manual and documentation provided by the shock absorber's manufacturer.
- Make sure to read and understand the whole user manual before using the Manual Vacuum Bleed Pump (further – device).
- The device works under pressure/vacuum, therefore wear protective eye-wear and take all cautions required to work under a safe environment.
- Wear protective gloves to avoid skin contact with the fluids that might leak during the operation.
- Connect the Manual Vacuum Bleed Pump to a grounded power socket.
- Only use the electric cord provided with the Manual Vacuum Bleed Pump.
- Do not use the power cord if it is pinched, sheared or cut.
- Do not use any power adapters if the plug doesn't fit your wall socket.
- Do not use an extension cord.
- The power socket to which you are connecting the Manual Vacuum Bleed Pump needs to be easily accessible in order to be able to easily unplug it in an emergency situation.
- Do not operate nearby an open flame or heat source.
- Place on a flat and level surface.
- Make sure the table or workbench where you are placing the Manual Vacuum Bleed Pump is rated to sustain its weight.
- Do not place in a highly corrosive or humid environment.
- To avoid overheating, place the device in a well-ventilated room and do not obstruct the sides of the Manual Vacuum Bleed Pump during operation.
- Do not use the device or any of its components if they have been damaged.
- Do not perform any maintenance while the device is plugged in to the mains.
- The device might have a residual high pressure after the operation is interrupted. Improper use of the device might cause an injury.
- 2000 micron vacuum can damage the shock absorber if it is not suited for such deep vacuum.

3. Highlights

Congratulations on your purchase of the LABA7 Manual Vacuum Bleed Pump!

- Fill two shocks simultaneously:
  - It is possible to fill 2 shocks with LABA7 Manual Vacuum Bleed Pump at a time. To do so, connect two shocks and start filling.
- Two 2 liter tanks:
  - Two built in 2 liter tanks with visual oil level monitoring.
- Single stage vacuum pump:
  - The Manual Vacuum Bleed Pump comes with a single stage 60L/min vacuum pump.
- High accuracy vacuum and pressure sensors:
  - Visual gauge of vacuum and pressure values during the bleed process to easily identify seal problems.

4. Technical Specifications

- Maximum vacuum: -0.99 Bar.
- Maximum pressure: 3 Bar.
- Vacuum pump: single stage 230V AC, 50Hz, 300W, 60L/min.
- Voltage availability: 230V AC (110V available on request).
- Required compressed air quality: ISO 8573.1.

5. Overview

The overview of the LABA7 Manual Vacuum Bleed Pump is presented in the image below:

1. Compressed air connector.
2. Power switch.
3. Fuse.
4. Power cable connector.
5. Tank 2 connector.
6. Tank 1 connector.
7. Pressure control knob.
8. Vacuum control knob.
9. Vacuum pump switch.
10. Vacuum / pressure gauge.
11. Tank 1 oil level indicator.
12. Tank 2 oil level indicator

6. Accessories

6.1. Filling Adapters

LABA7 Manual Vacuum Bleed Pump can be equipped with various filling adapters for the most common shock absorbers used in the market. We offer the following adapter kits that are already assembled for a specific type of shock absorbers:

- MTB adapter kit.
- Motorcycle adapter kit.
- Gas tank adapter kit.
- Car adapter kit.

Find the examples of adapter kits below:

For a complete list and details of all filling adapters please contact the LABA7 team directly.

7. First Launch

Follow the steps below to launch the Manual Vacuum Bleed Pump for the first time:

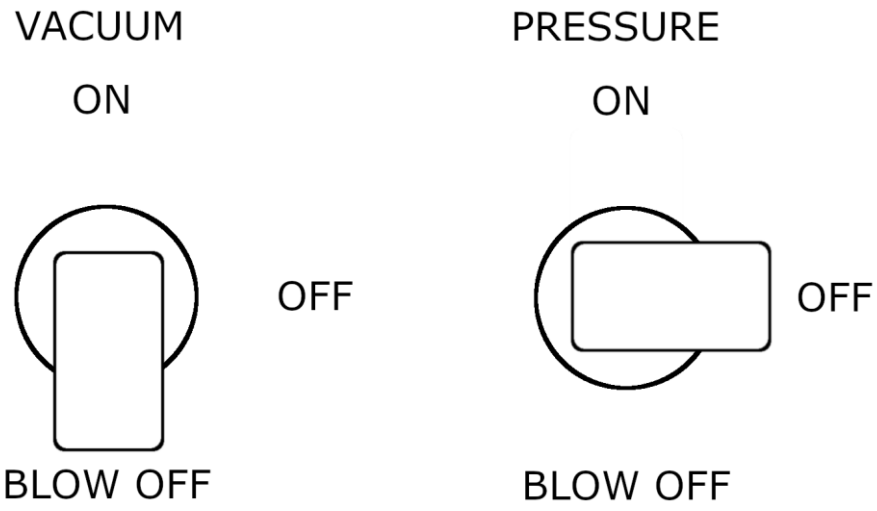
1. Place the Manual Vacuum Bleed Pump on a flat, stable surface, ensuring the shock absorber is positioned directly beneath it.
2. Connect an air compressor air hose, using air quality according to ISO 8573 into the compressed air connector.
3. Plug the power cable provided with the device into the power connector and plug into mains.
4. Turn the Manual Vacuum Bleed Pump power switch on. The green light on the switch will light up.

ATTENTION: Check the power supply rating before plugging in the device. The pump might not be suitable for use in your country. Use external voltage transformer if provided with the device (230V / 115V).

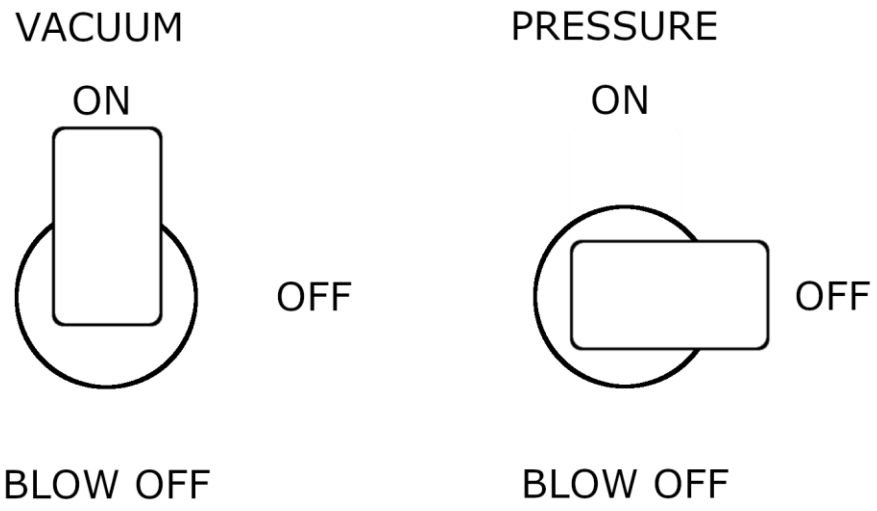
8. Filling And Draining Oil

8.1. Oil Tank Fill

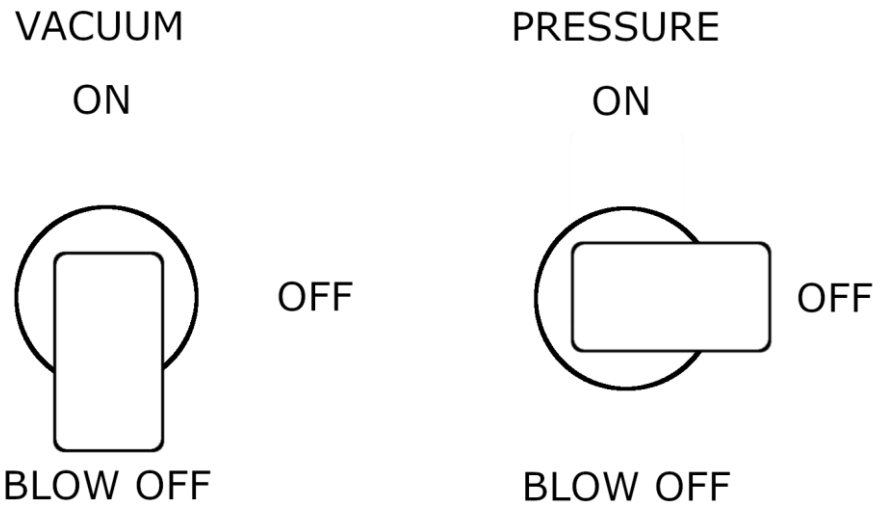
Turn the vacuum control knob to the “BLOW OFF” position until vacuum reaches 0.



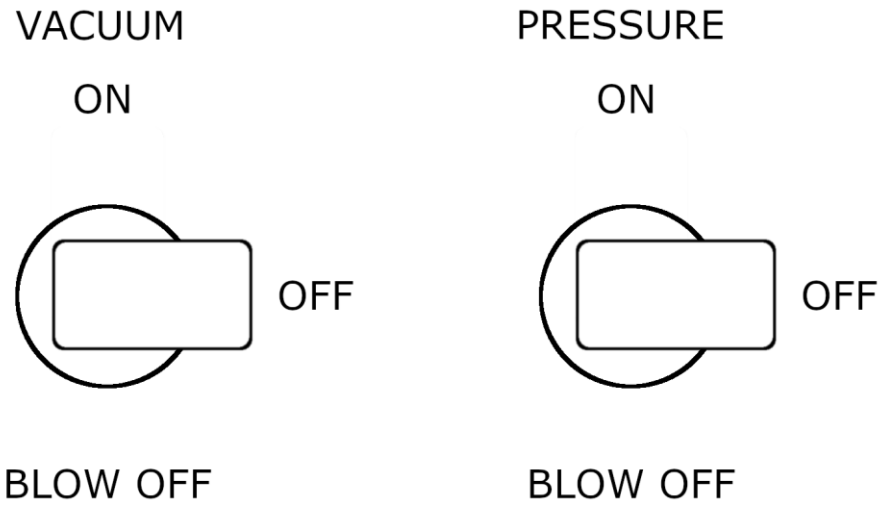
To fill the tanks with oil, turn the vacuum control knob to the “ON” position, connect one side of the hose to the pump according to the tank to be filled. Place the other end of the hose with connected free flow adapter into the oil container, then turn the vacuum switch on.



When the tank is full and filling needs to be stopped, turn the vacuum control knob to the “BLOW OFF” position, turn off the vacuum pump switch and wait until vacuum reaches 0.



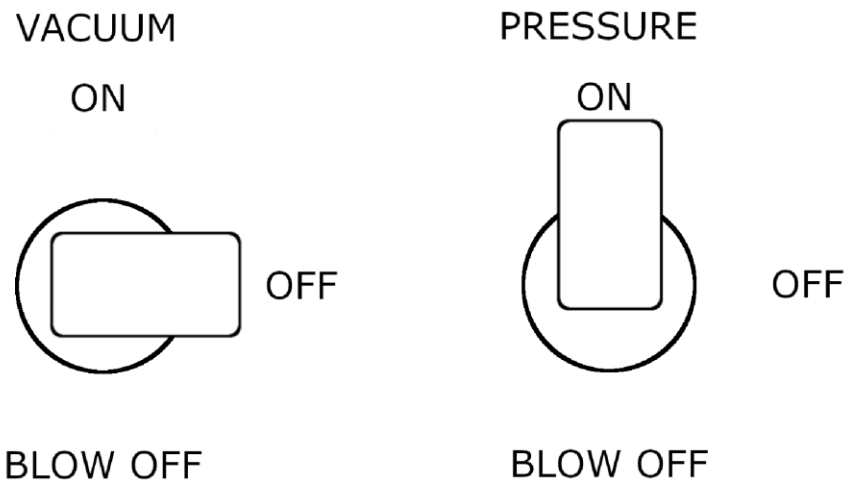
Turn the vacuum control knob to “OFF” position and remove the hose.



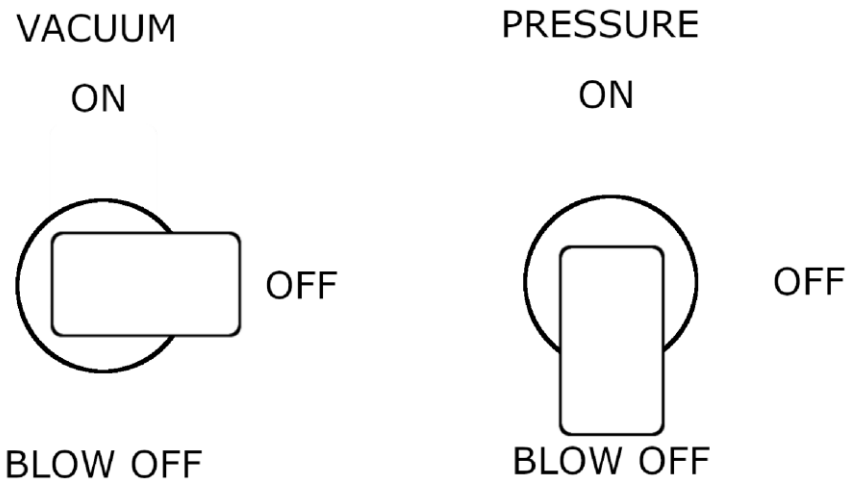
ATTENTION: Overflow danger! We suggest filling tanks up to 70-80% of its volume for the best performance. When filled to 100% there is a risk of overflow when draining oil from the shock absorber.

8.2. Oil Tank Drain

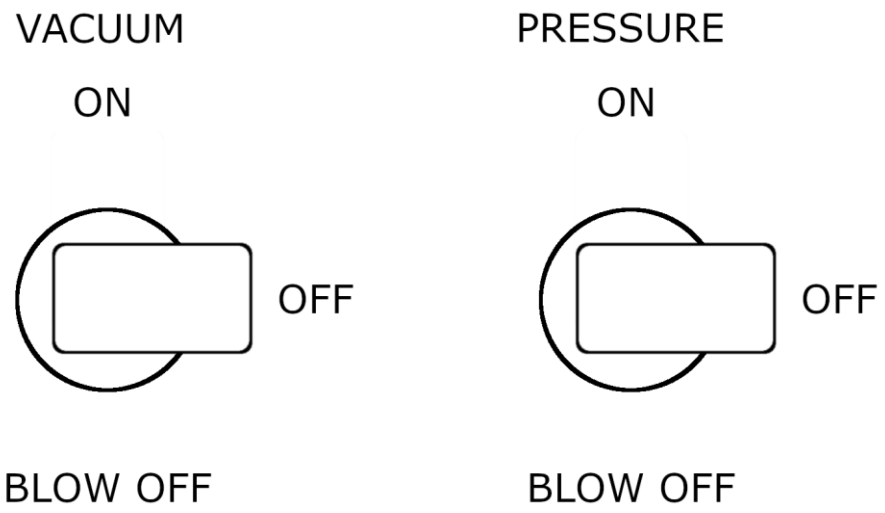
To drain oil from the tanks, make sure that compressed air is connected to the pump. Connect one side of the hose to the pump according to the tank to be drained. Place the other end of the hose with connected free flow adapter into a container designated for collecting the oil. Turn the pressure control knob to the “ON” position.



When the tank is empty and draining needs to be stopped turn the pressure control knob to the “BLOW OFF” position. Wait until the pressure reaches 0. turn pressure control knob to “OFF” position and remove the hose.



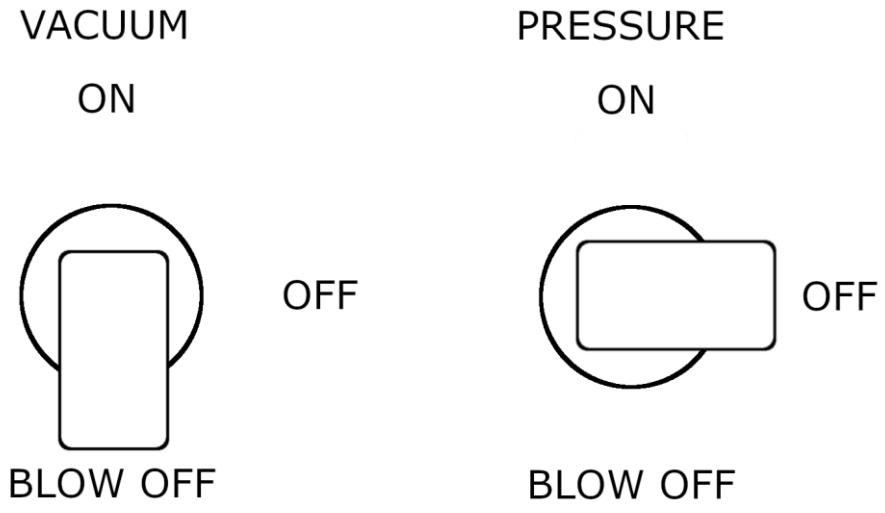
Turn pressure control knob to “OFF” position and remove the hose.



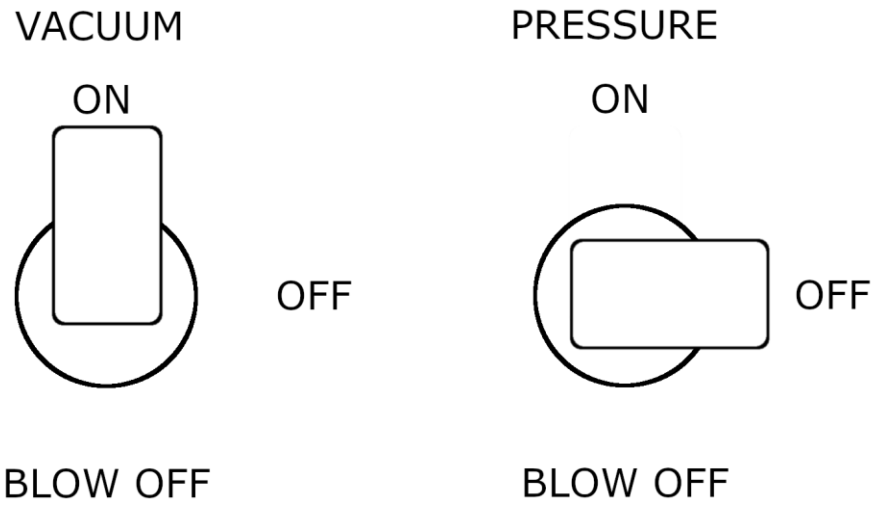
ATTENTION: Reduce the pressure at the end of the draining process because air might bubble in the oil reservoir.

9. Shock Bleeding and Filling

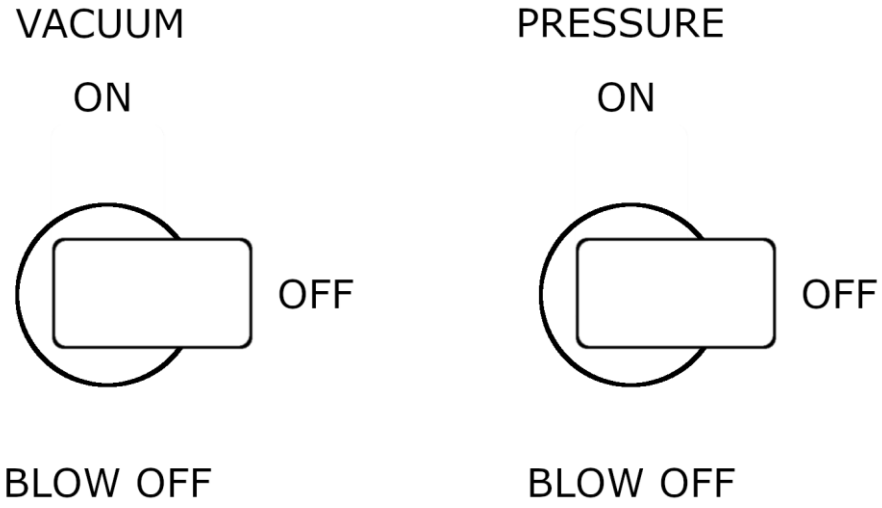
Turn the vacuum control knob to the “BLOW OFF” position until vacuum reaches 0.



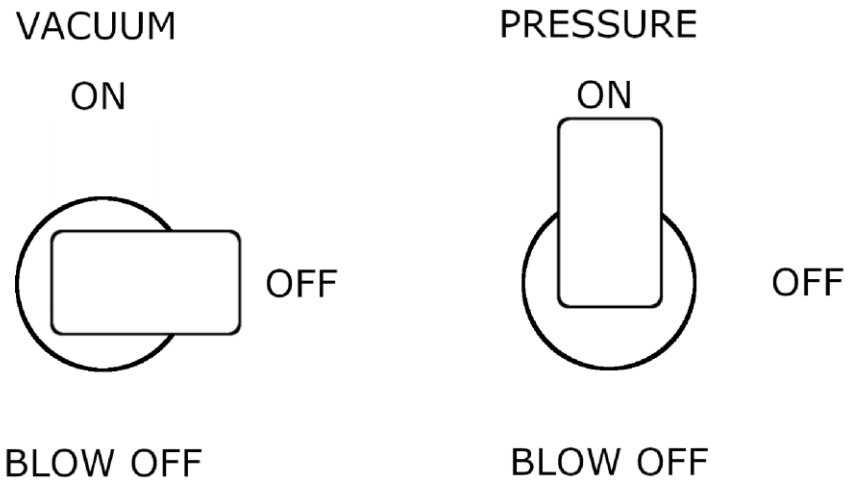
Connect one side of the hose to the pump and other side of the hose with adapter to shock absorber (make sure it is connected properly). To start vacuuming the shock absorber turn vacuum control knob to “ON” position, then turn on the vacuum pump switch.



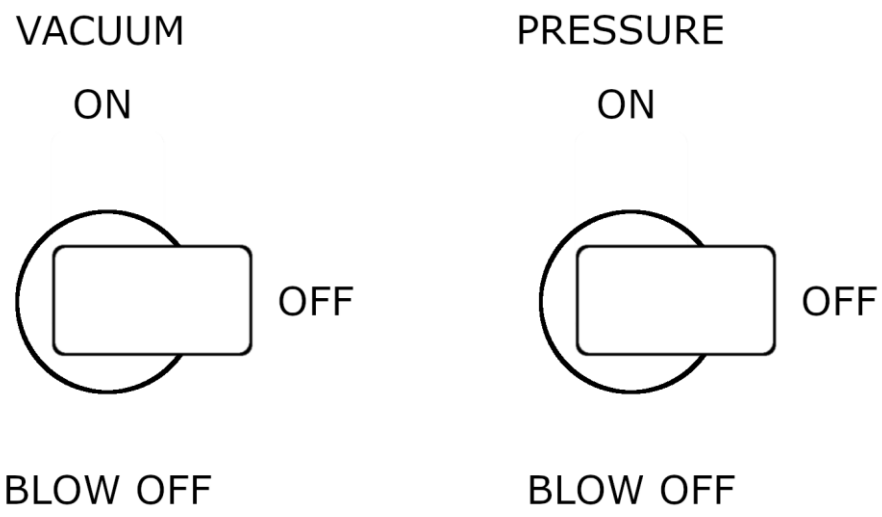
When desired vacuum level is reached in the shock absorber turn the vacuum control knob on “OFF” position, then turn off the vacuum pump switch.



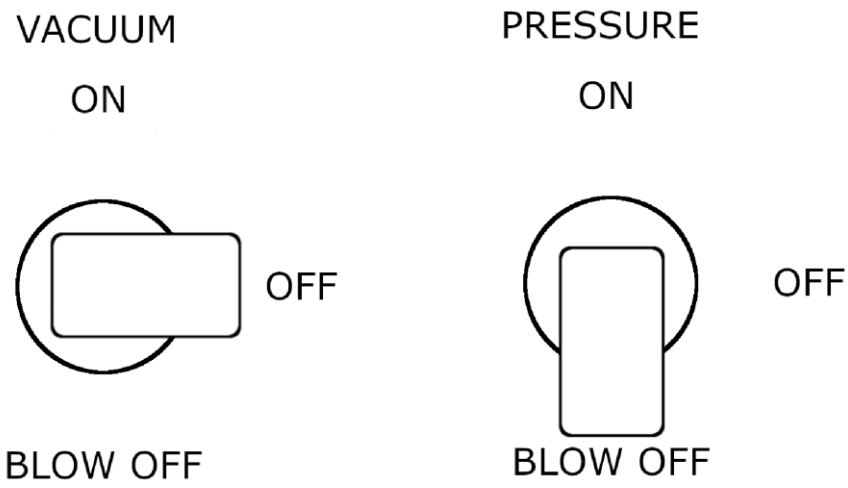
To fill the shock with oil turn the pressure control knob to “ON” position.



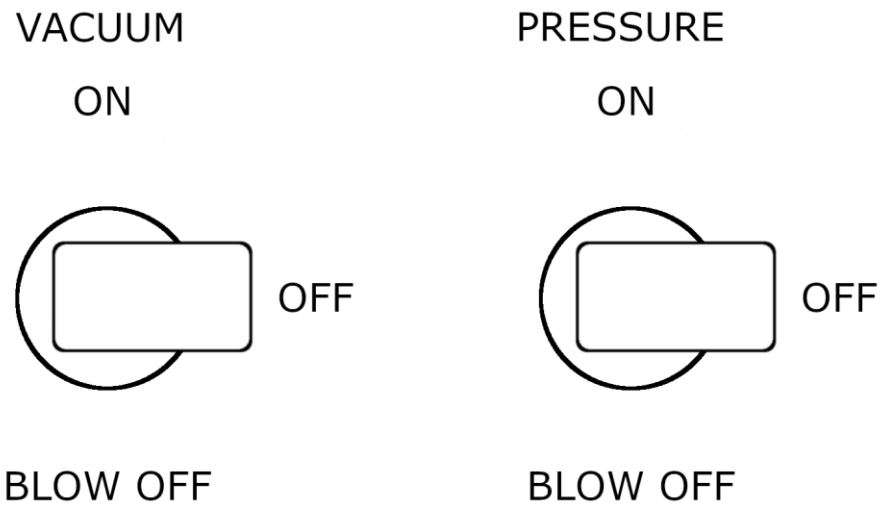
When the shock absorber is filled turn the pressure control knob to “OFF” position.



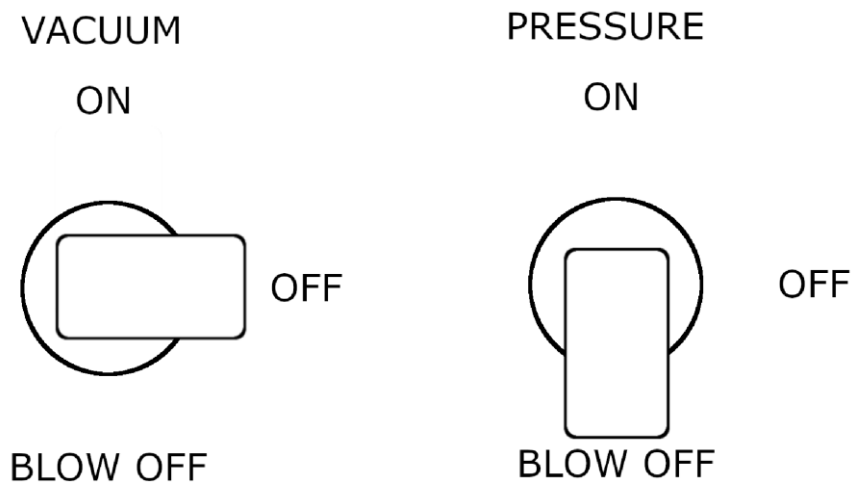
Turn the pressure control knob to “BLOW OFF” position to release the remaining air in the pump.



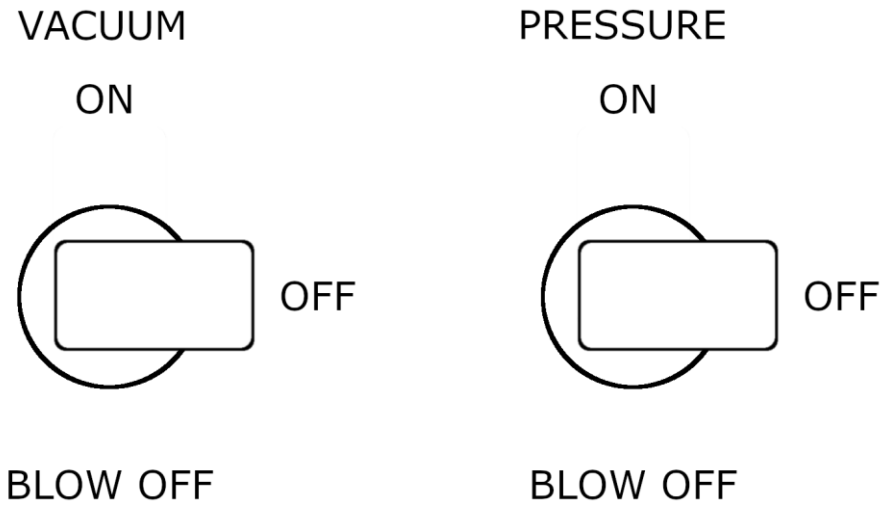
When the remaining air in the pump is released turn the pressure control knob to “OFF” position.



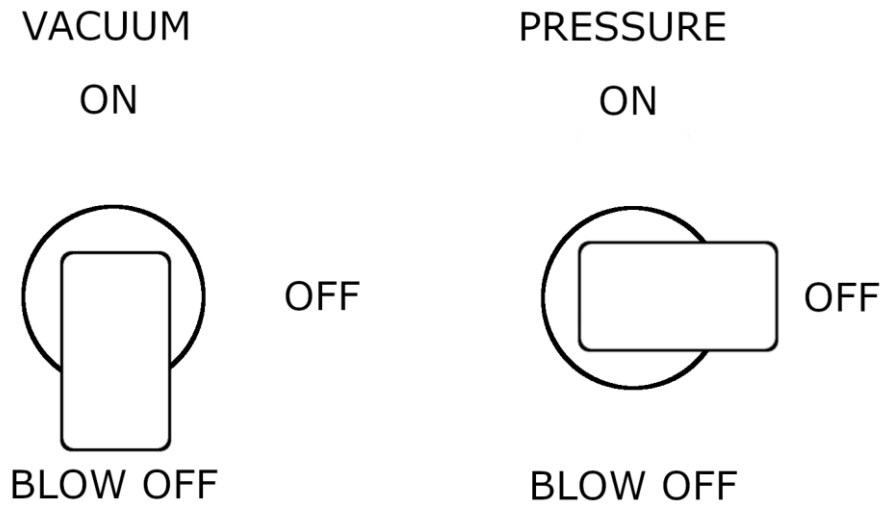
Repeat previous bleeding steps until the shock absorber is filled properly and then turn the pressure control knob to “BLOW OFF” position. Wait for pressure to be 0.



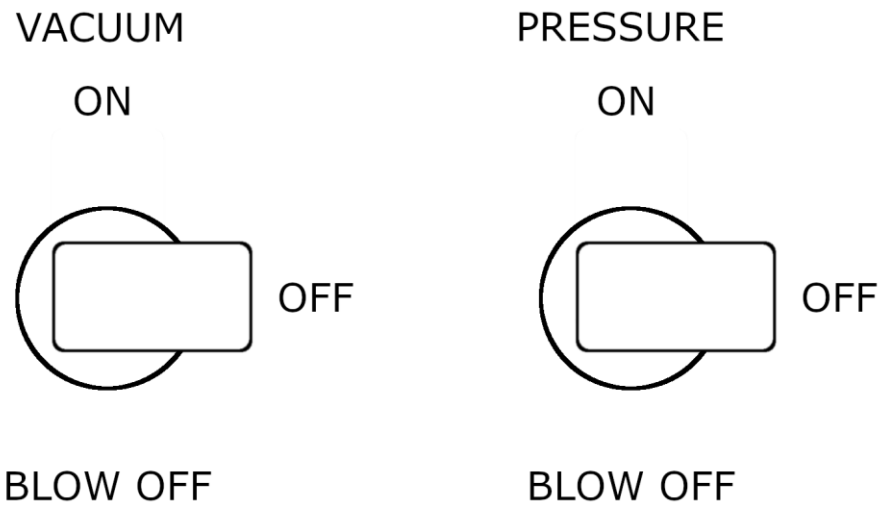
then turn the pressure control knob to “OFF” position and disconnect shock absorber.



Turn the vacuum control knob to the “BLOW OFF” position until vacuum reaches 0.



then turn the vacuum control knob to “OFF” position.



ATTENTION: For the best filling performance and to prevent filling tube clogging, make sure the shock absorber is positioned lower than the Manual Vacuum Bleed Pump and that the bleed port is oriented upwards

ATTENTION: Fully open all external adjusters on the shock absorber. Push the separating piston to the bottom. Install the circlip (fastener) to prevent the free piston from shooting out when filling.

10. Troubleshooting

Malfunction	Cause	Solution
Manual Vacuum Bleed Pump is not filling a tank during fill oil operation.	The free flow adapter is not connected.	Connect one of the shock bleed adapters.
Manual Vacuum Bleed Pump is not draining a tank during drain oil operation.	The free flow adapter is not connected.	Connect one of the shock bleed adapters.
The shock absorber piston rod is not moving on the vacuuming cycle.	Friction of the piston is too high to overcome vacuum force. The lock lever for MTB shock is in the locked position.	Check if the shock absorber is assembled correctly. Check that the lock lever is in the open position for MTB shocks.
The shock absorber piston rod is not moving on the oil filling cycle.	Friction of the piston is too high to overcome the vacuum force.	Check if the shock absorber is assembled correctly.
Vacuuming or oil filling is very slow.	Closed rebound/compression port.	Open rebound/compression port/push back rebound needle.
The Manual Vacuum Bleed Pump power switch does not light and the device does not start.	The fuse is blown.	Unplug the power cable and change the fuse near the power switch. Fuse parameters: 5x20/10A.
The oil is leaking from under the pump.	Oil catch can is full of oil.	Check maintenance section to drain the oil

11. Maintenance

Proper maintenance is required to ensure maximum efficiency and reliability of the Manual Vacuum Bleed Pump. Regularly inspect the oil level of the vacuum pump inside device from the oil level inspection window.

1. Oil level inspection window

We strongly suggest not to postpone device maintenance as it can lead to improper operation
Follow the steps below to perform a maintenance:

1. Power off the device.
2. Disconnect compressed air supply.
3. Disconnect the mains cable.
4. Inspect the oil level of the vacuum pump inside device from the oil level inspection window (see a diagram below).
5. The oil level should be between the Low and High positions.
6. Unscrew the bolts holding the side door and remove the door.
7. Add or remove excessive oil depending on the oil level until the oil level is between the Low and High markings.

Below is an overview diagram of a vacuum pump:

1. Oil cap
2. Oil level indicator
3. Oil drain bolt

ATTENTION: Use only dedicated deep vacuum pump oil to refill the oil to the right level. After the refill put back the cap and tighten it.

8. Inspect the oil catcher which is attached to the side of the pump.
9. If the oil catcher is more than 1/3 full of oil, remove it, and by pressing the pin in the bottom-clean the catcher. To clean the bottle, unscrew it, spill the oil and screw it back again.

1. Oil level

10. Assemble everything back in the same order.

Below is an overview diagram of a Manual Vacuum Bleed Pump:

1. Screws holding the side door.

12. Warranty Information

LABA7 vacuum bleed pump is covered for 1 year of manufacturer warranty starting from the date of purchase and, it covers any manufacturer-related failures during that period.

WHAT IS NOT COVERED

ALTERATION, MISUSE, OR ACCIDENT DAMAGE

Examples are:

- Failure to operate the device in accordance with the Owner's manual.
- Collision, fire, theft, freezing, vandalism, riot, explosion, or objects striking your Pump.
- Alteration of your Pump.
- Damage caused by improper maintenance or failure to follow the recommended maintenance schedule.

The repair of damages that are caused because parts or services used were not those prescribed in this manual's recommended maintenance schedule is not covered under warranty. It is the owner's responsibility to maintain the Manual Vacuum Bleed Pump as more fully set forth in, and in accordance with, the maintenance schedules outlined in this manual.

MODIFICATIONS

Damage or performance problems resulting from modifications to your Manual Vacuum Bleed Pump are not covered under warranty.

Examples of modifications:

- Running the pressure above the maximum setting described in the Owner's manual.
- Using other fluids instead of fork oil in the tanks.
- Altering any mechanical parts or software programming.

The manufacturer is not responsible for any damages to the device during the transportation. During accepting the shipment, please inspect the package for any visual damage. If the package is damaged, do not accept it.

13. Contact

If you have further questions about the product or need help with the installation, our technical staff will be happy to help you. Contact information can be found on our website www.laba7.com.

- UAB LABA7

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- +37062199469

EU Declaration of Conformity

Date of Issue 1st July 2025 Vilnius, Declaration Number 2025-07-01/01

Name of the manufacturer:	LTD “LABA7”
Address of the manufacturer:	Gilužio str. 15, LT-06239, Vilnius, Lithuania
Contacts of the manufacturer:	info@laba7.com
Object of the declaration:	MANUAL Vacuum Bleed Pump
Identification code of the object:	LSP2-00026
Description of the object:	MANUAL Vacuum Bleed Pump works without electronics or software, relying instead on precision valves and gauges to deliver reliable vacuum bleeding in a compact, workshop-friendly format. Main specifications: two 2-liter internal tanks; manually adjustable pressure 0.5 – 3 BAR; dimensions are 390 x 360 x 400 mm.
Object of the declaration described above is in conformity with the relevant Union harmonisation legislation:	– Machinery (MD) Directive 2006/42/EC – Pressure Equipment (PED) Directive 2014/68/EU
Additional information:	This declaration certifies compliance with the above-mentioned directives. This declaration of conformity is issued under the sole responsibility of the manufacturer. The technical documentation for the object of declaration is available from the manufacturer at the address above.
Name and title of the manufacturers' representative:	Andrius Liškus CEO
Signature of the manufacturers' representative:	

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UAB LABA7 LTD
REPUBLIC OF LITHUANIA