

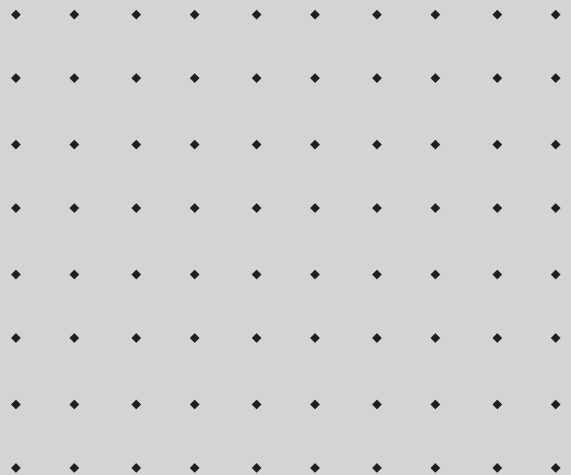


**CARBON  
ZAPP**

## **CZ Service Manuals**

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**RiD03648**

**UPL.11 Installation guide  
for GDU.2-4-##**





# RiD03648

## Installation Guide UPL.11

Version 1.0 09/2020

(For GDU.2/4-R ##/ units)



### Tools Needed:

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1. Philips Screwdriver.
2. Hex screwdriver 2.5mm.
3. Socket Driver 7mm
4. Socket Driver 14mm

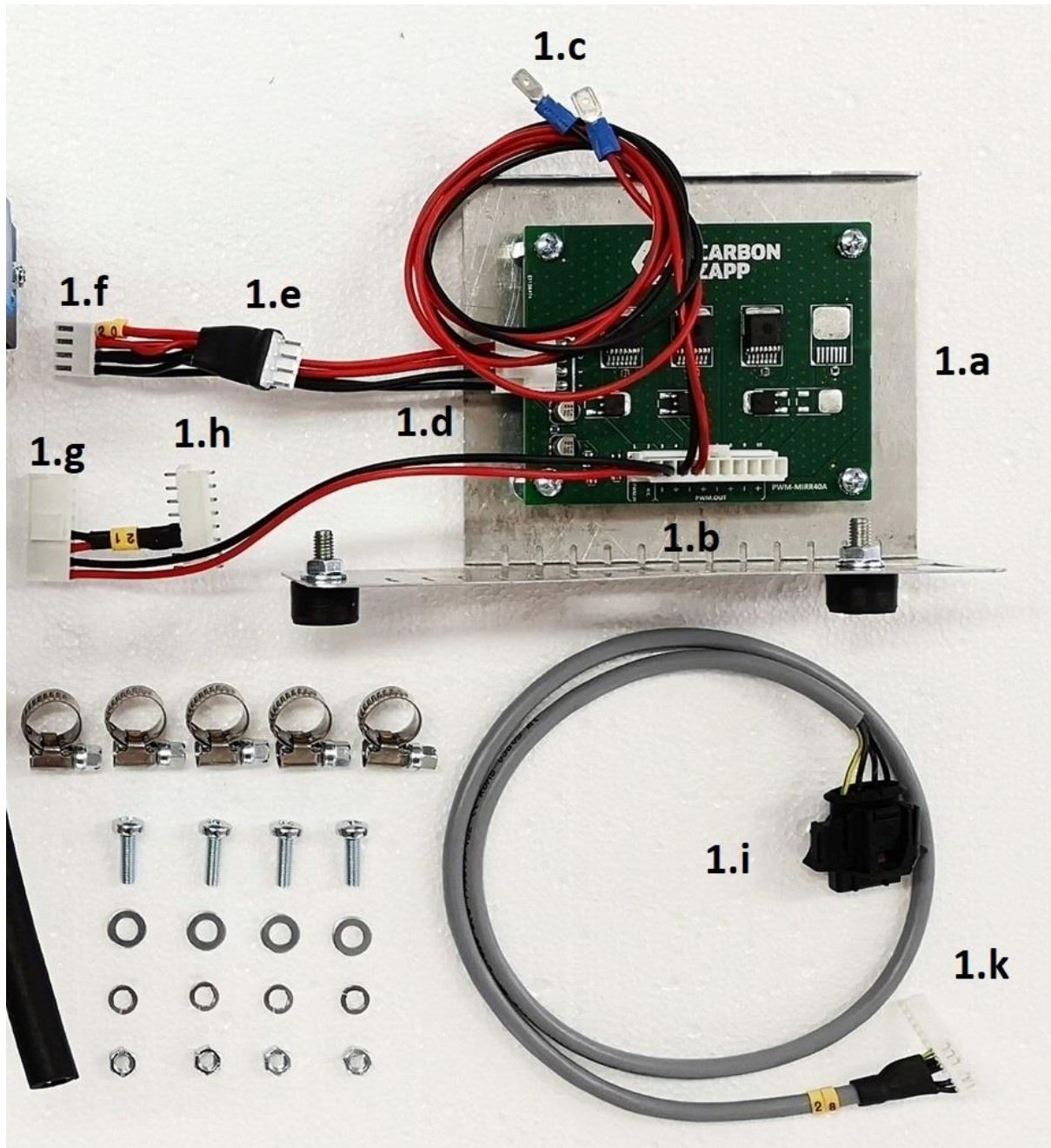
### Introduction

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Before upgrading the machine, please make sure that you have all the necessary tools and you have read this installation guide thoroughly.

**Notice:** All the images below are for simulation purposes only and do not necessarily represent the exact conditions of the machine / spare parts pending upgrade.

## STEP.1 Electrical Installation (PCB KIT)



## 1.1 Power OFF and open panels

- **Power off** the machine and **Disconnect** it from the power supply.
- Open the back and the rear panels by using a hex screwdriver 2.5mm.



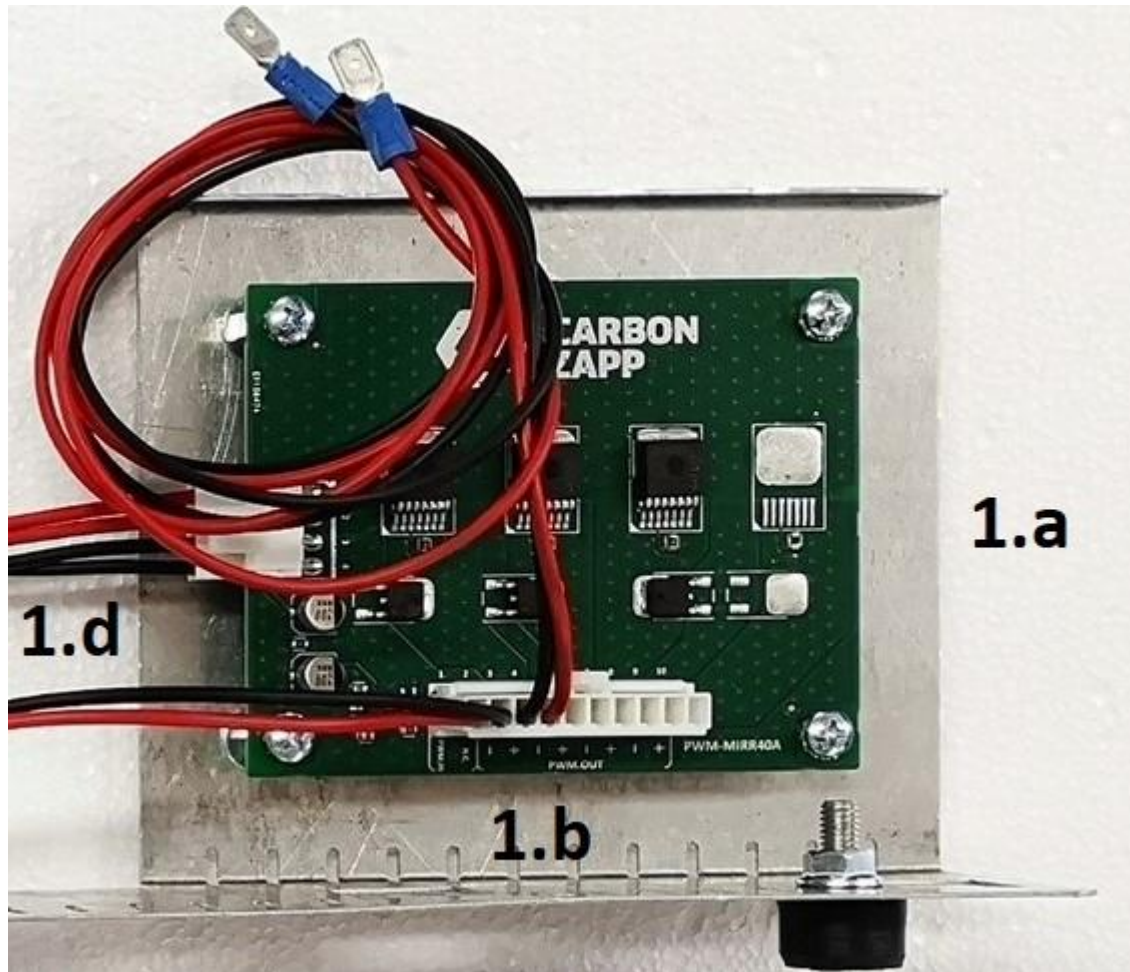
## 1.a Install the PCB

- Install the PCB board (**1.a**) as shown below.



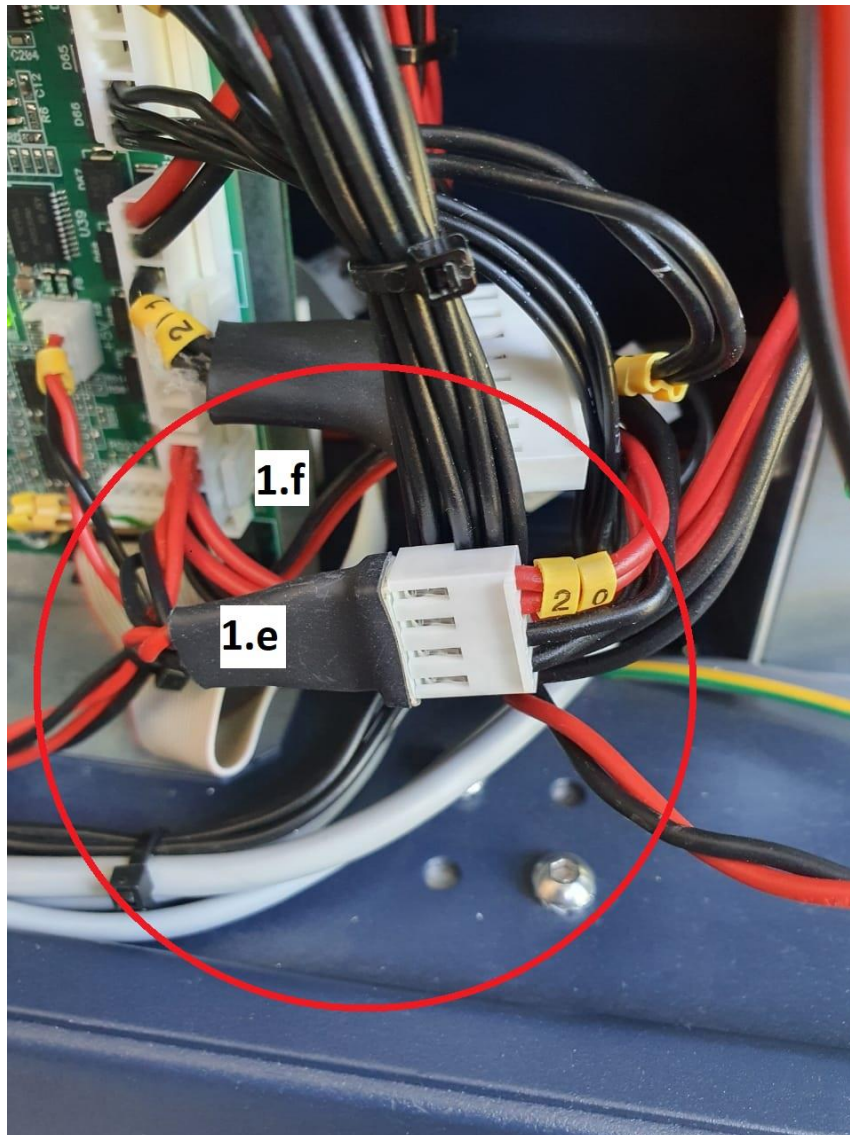
## 1.b / 1.d Plug Connectors on the PCB (1.a)

- Plug the connector **1.b** and **1.d** on the PCB as shown below:



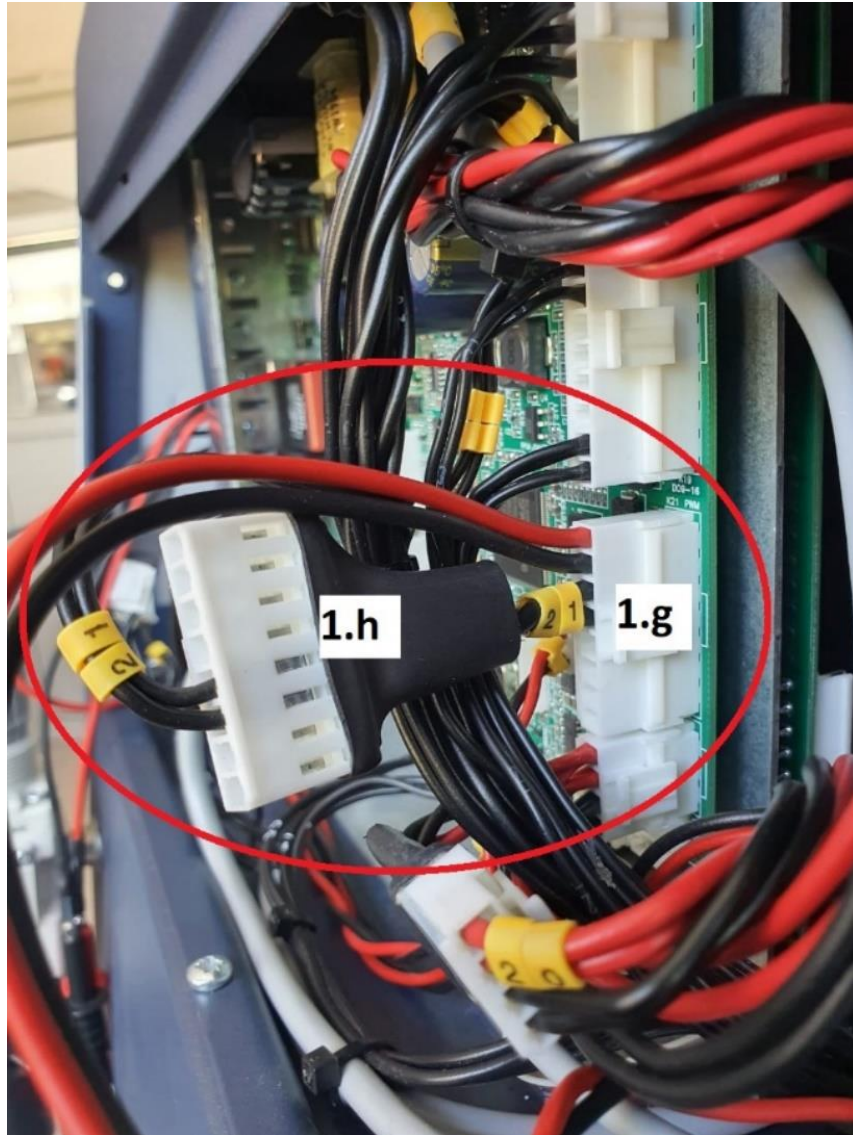
## 1.f / 1.e Install 12V Adapter

- Disconnect the **K20** 12V connector from the Main Board.
- Connect cable adapter **1.e** to **K20** and **1.f** on the Main Board (K20 old position).



## 1.g / 1.h Install PWM Adapter

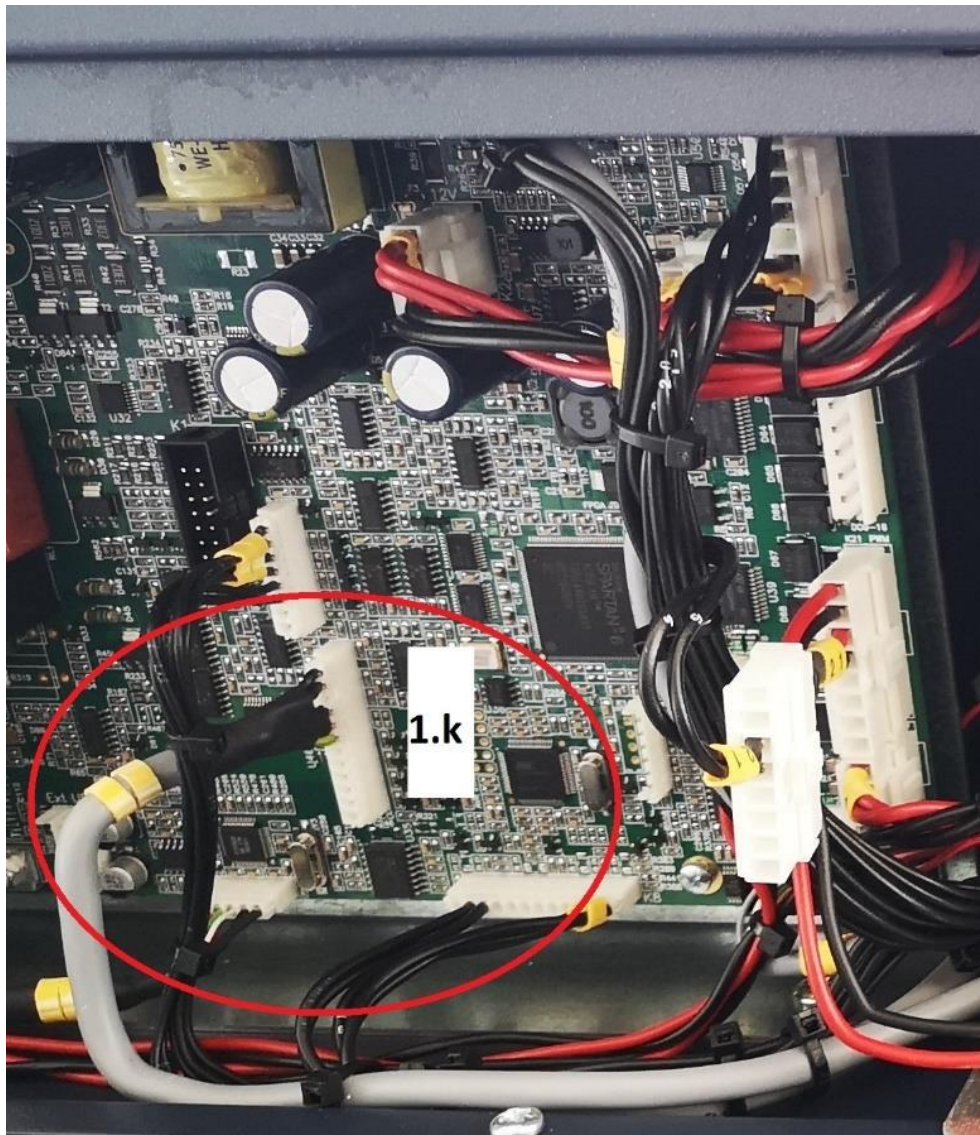
- Disconnect the **K21** PWM connector from the Main Board.
- Connect cable adapter **1.h** to **K21** and **1.g** on the Main Board (K21 old position).





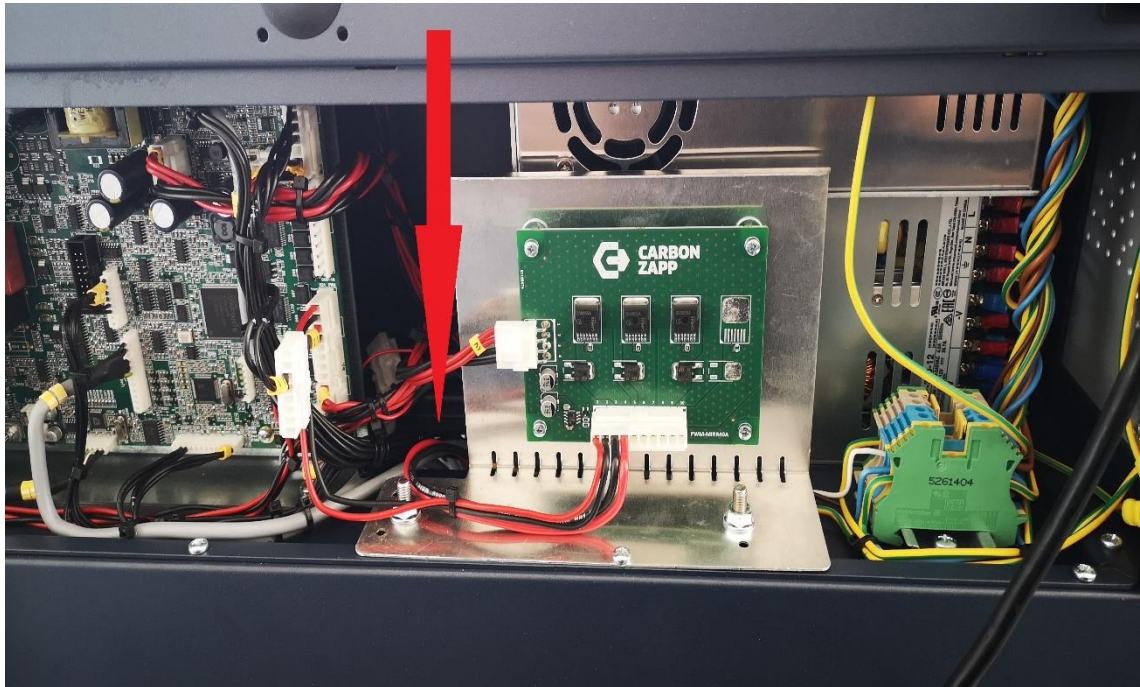
## 1.k Low Pressure Sensor cable

- Connect the cable 1.k to the K28 position on the Main Board.



## 1.i / 1.c Pump and sensor connectors

- Pass the connectors **1.i** / **1.c** through the hole as shown by the arrow in the photo below.
- Then manage the cables as shown below.



## STEP.2 Hydraulic system and pump



### Introduction

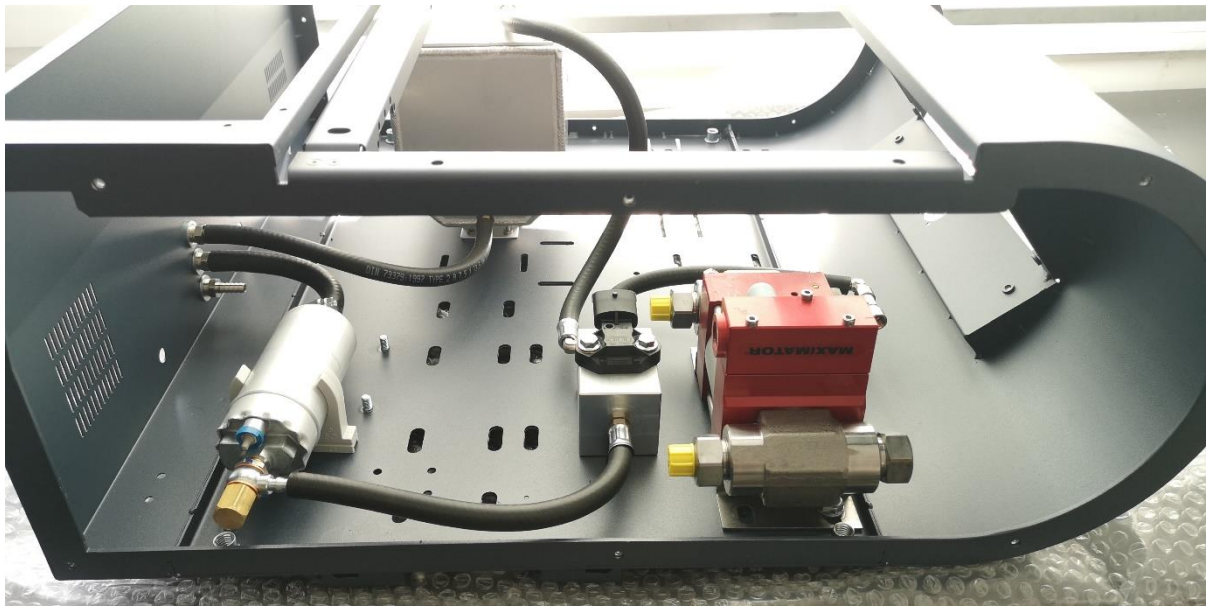
Before installing the hydraulic system, empty the tanks and remove the old supply pump.

\* If your machine chassis does not have holes already for the parts (solenoid / pump / sensor block), you must drill them.

**Notice:** All the images below are for simulation purposes only and do not necessarily represent the exact conditions of the machine / spare parts pending upgrade.

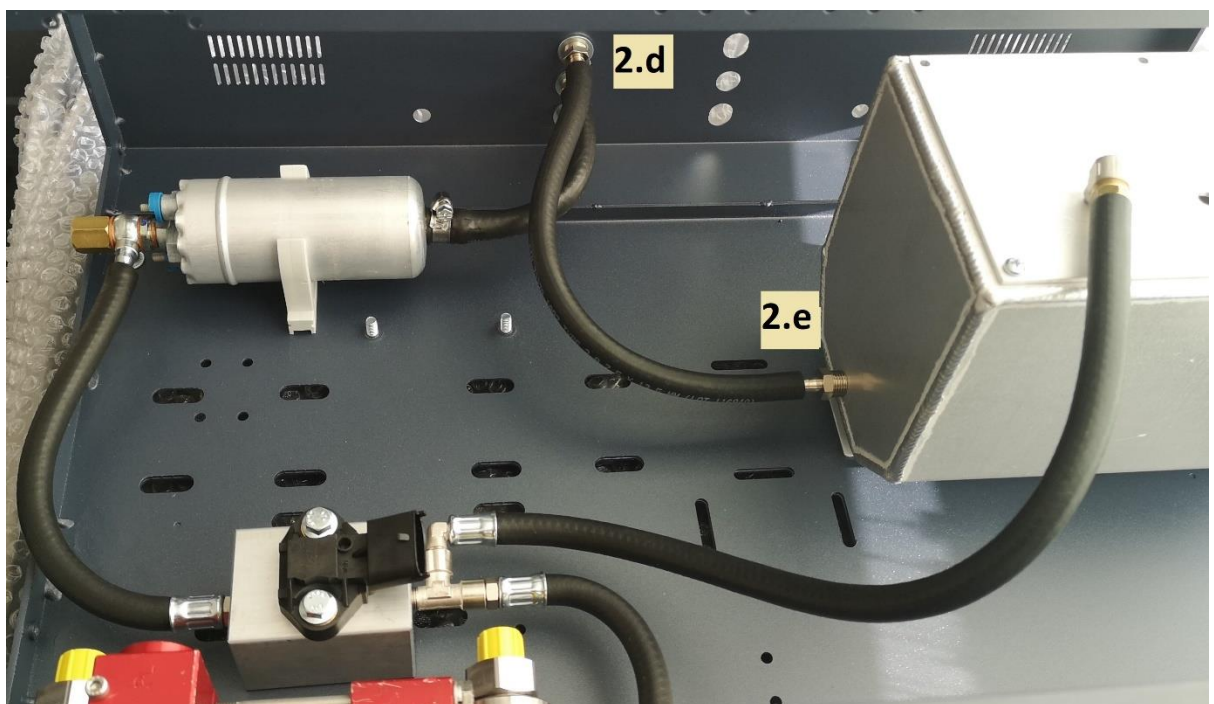
## 2.1 Parts position

- Install solenoid / pump and sensor block in the position shown below. \*



## 2.e / 2.d Tank to Filter

- Install **2.e** hose to the tank and **2.d** on the top adapter of the filter.



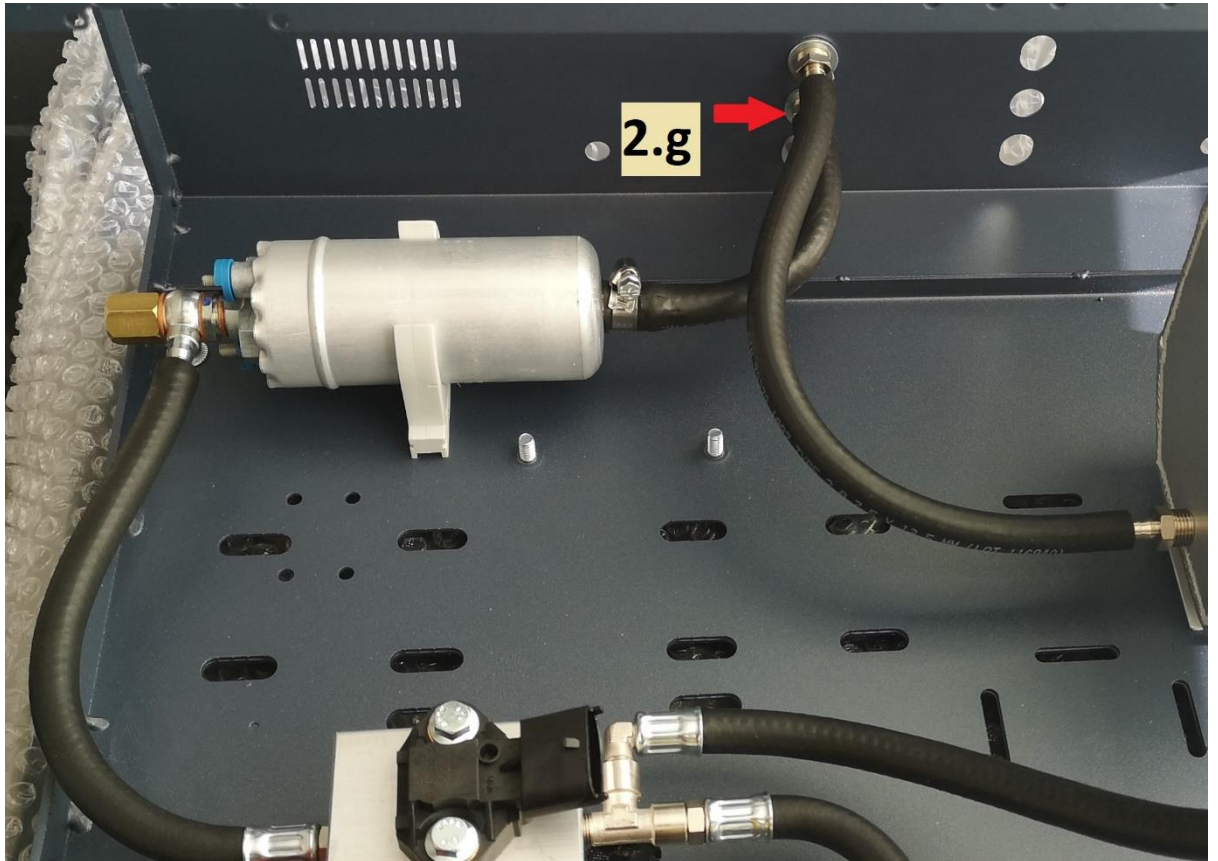
## 2.k Big Filter Output

- Change central filter adapter with **2.k**.



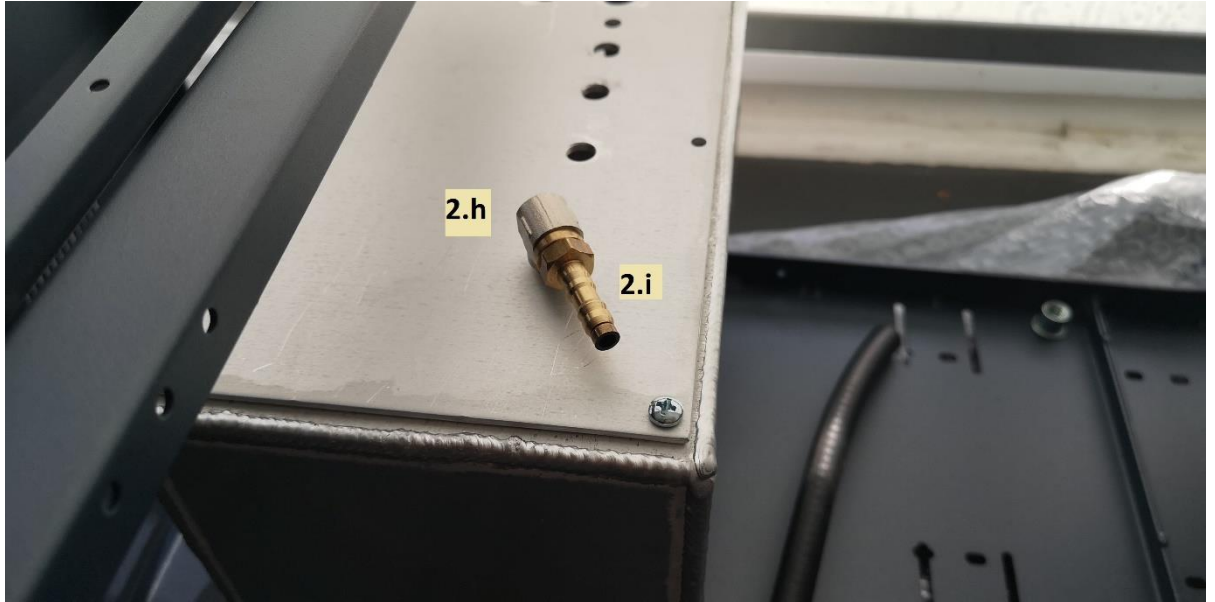
## 2.1 Install the Low Pressure Pump.

- Fit the Low-pressure pump as shown in the photo below.
- Connect the **2.g** to the central adapter on the filter.



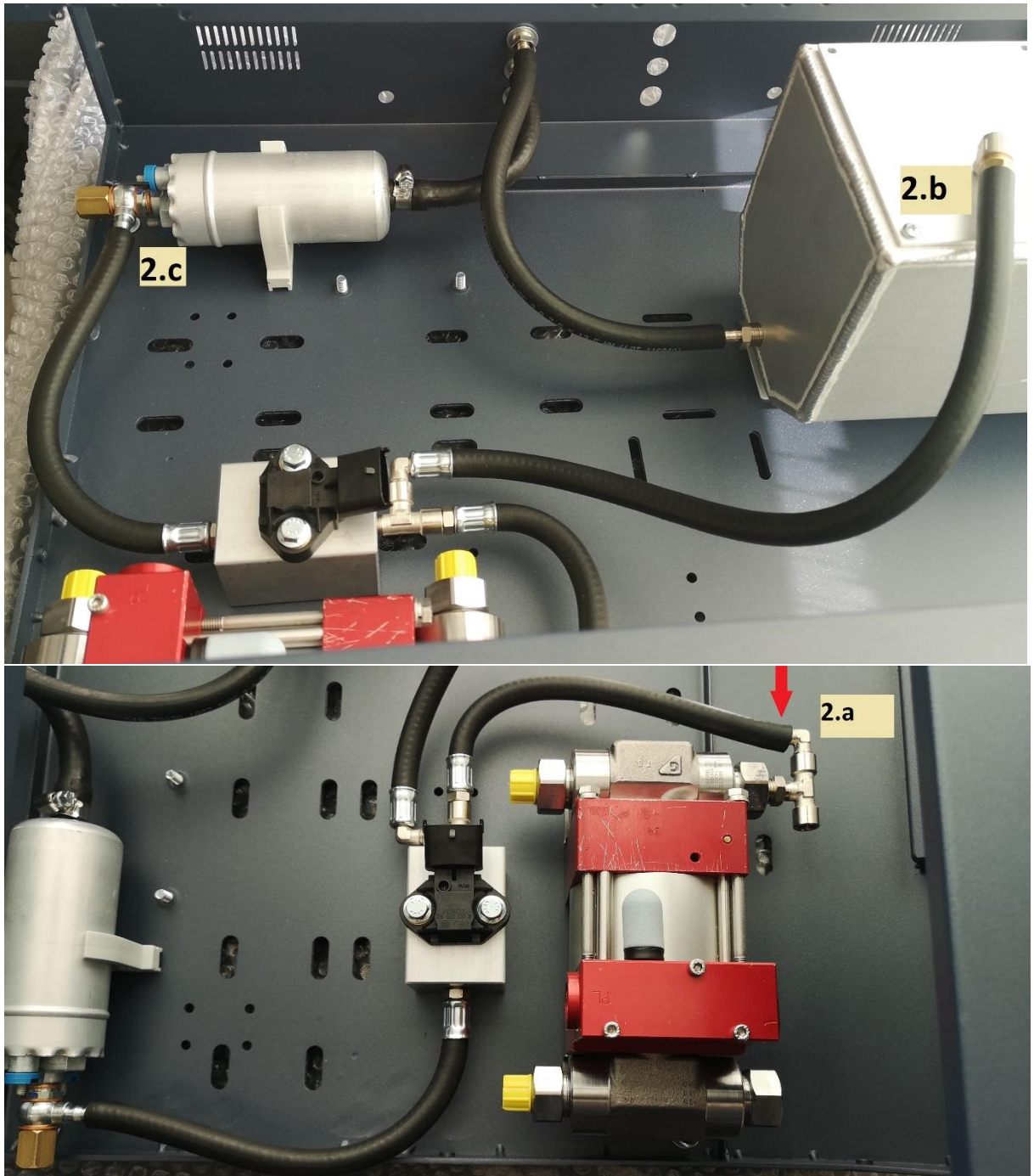
## 2.2 Install the relief valve on the tank.

- Connect the adapters **2.h** and **2.i** on the tank as it is the position on the photo below.



## 2.3 Connect the Low-Pressure Sensor Block.

- Connect the **2.c** hose on the output of the low-pressure pump.
- Connect the **2.b** hose on the relief valve on the tank.
- Connect the **2.a** hose on the input of the HP-Pump (Maximator).





### 3. Finalization process.

- Fill up the tanks with the correct fluid on each one (testing / cleaning).
- Perform Degas Procedure.
- Check all the connections for leakage.



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