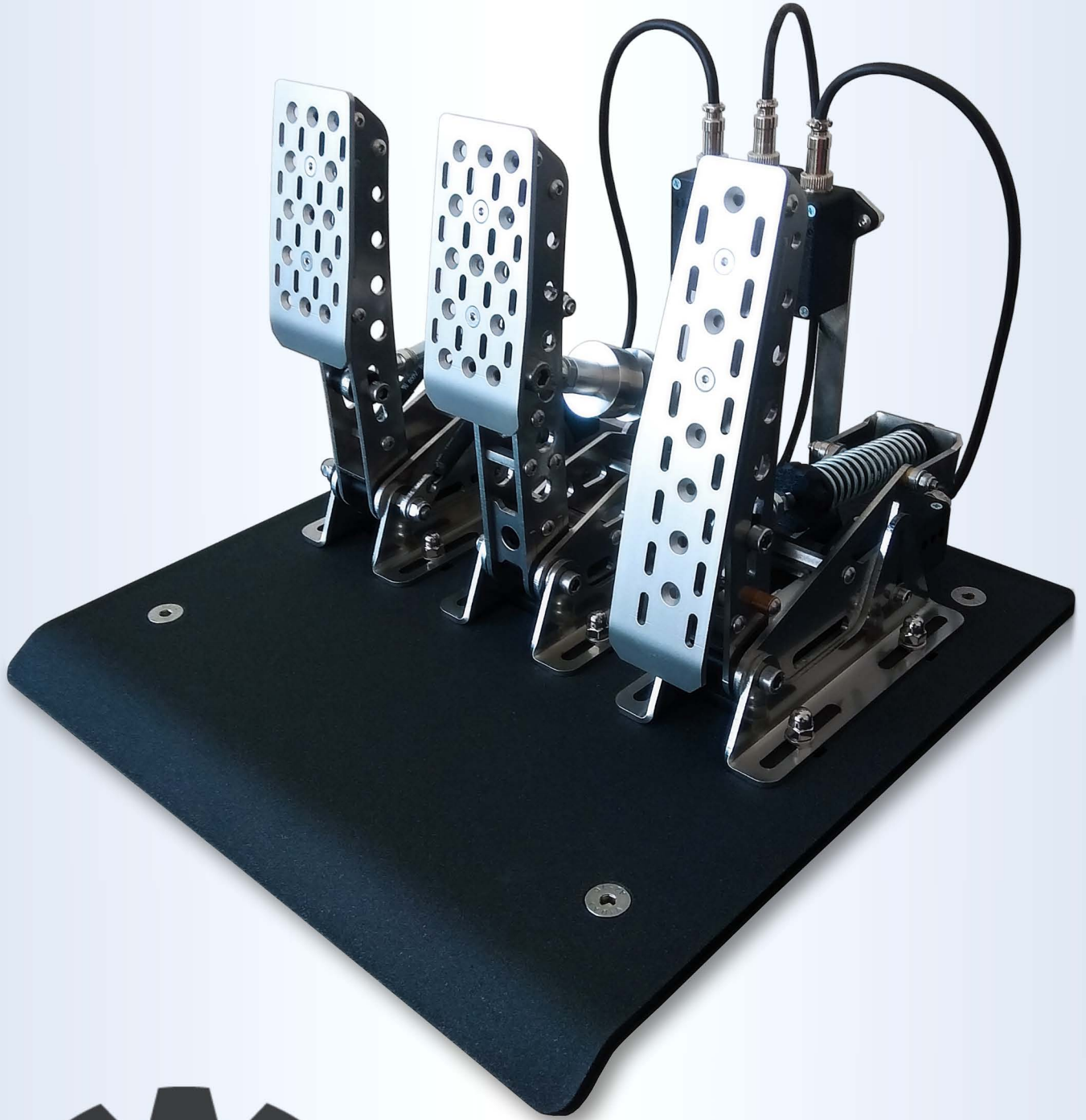


## Pedals Setup Guide



***CUP1***

# INTRODUCTION

Dear customer,  
thank you for purchasing our MECA CUP1 Pedal Set. Our pedal set is designed to ensure an increasingly realistic driving experience.

The pedal set contains the standard adjustable base for installation on simulation platforms. Before you install or use the product, please read the manual which will provide the basic information required for the first installation, the possible configurations of the pedal set.

For any further information please visit the Support section on our website.

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## PACKAGE CONTENTS

1x pedals plate  
1x electronics box  
1x throttle pedal  
1x brake pedal  
1x clutch pedal  
1x USB cable  
3x Black polyuretan bushing (mounted on the brake pedal)  
3x Blue polyuretan bushing  
3x Orange polyuretan bushing  
Stainless steel bolt packs with nuts and washers

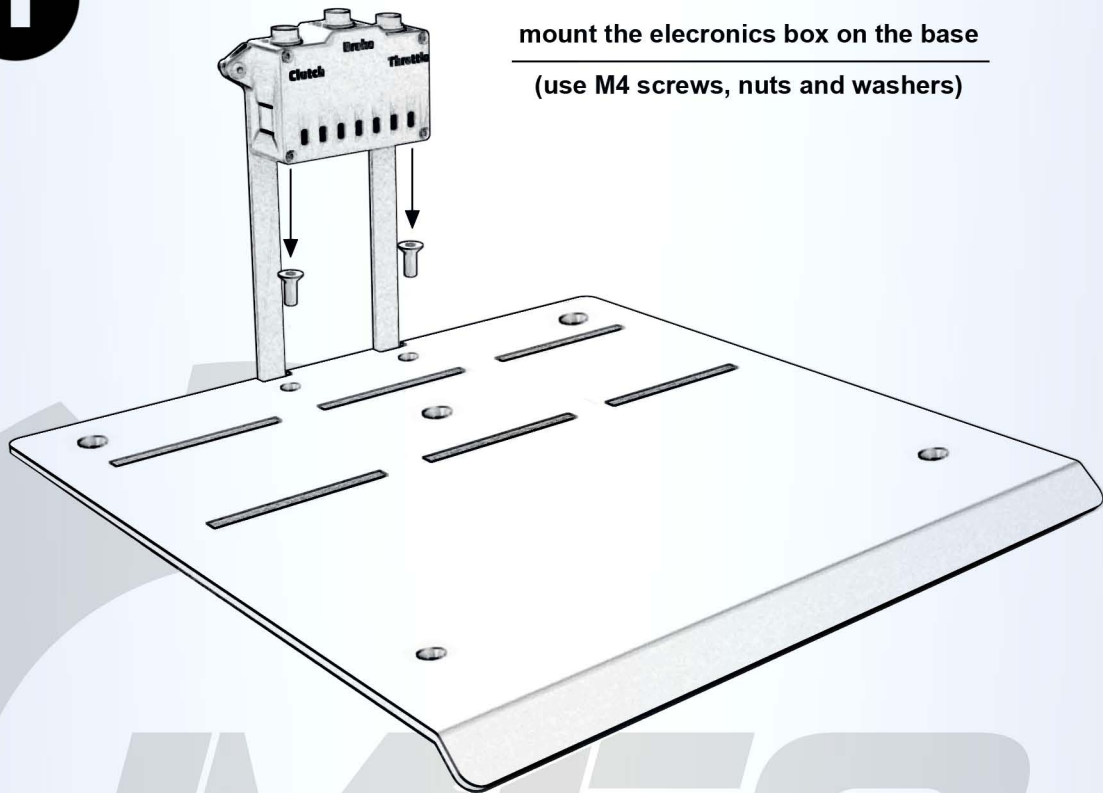
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Tools required for installation (not included)

1x 3mm Hex Key  
1x 5mm Hex Key  
1x 10mm Flat Key or 10mm Socket Wrench

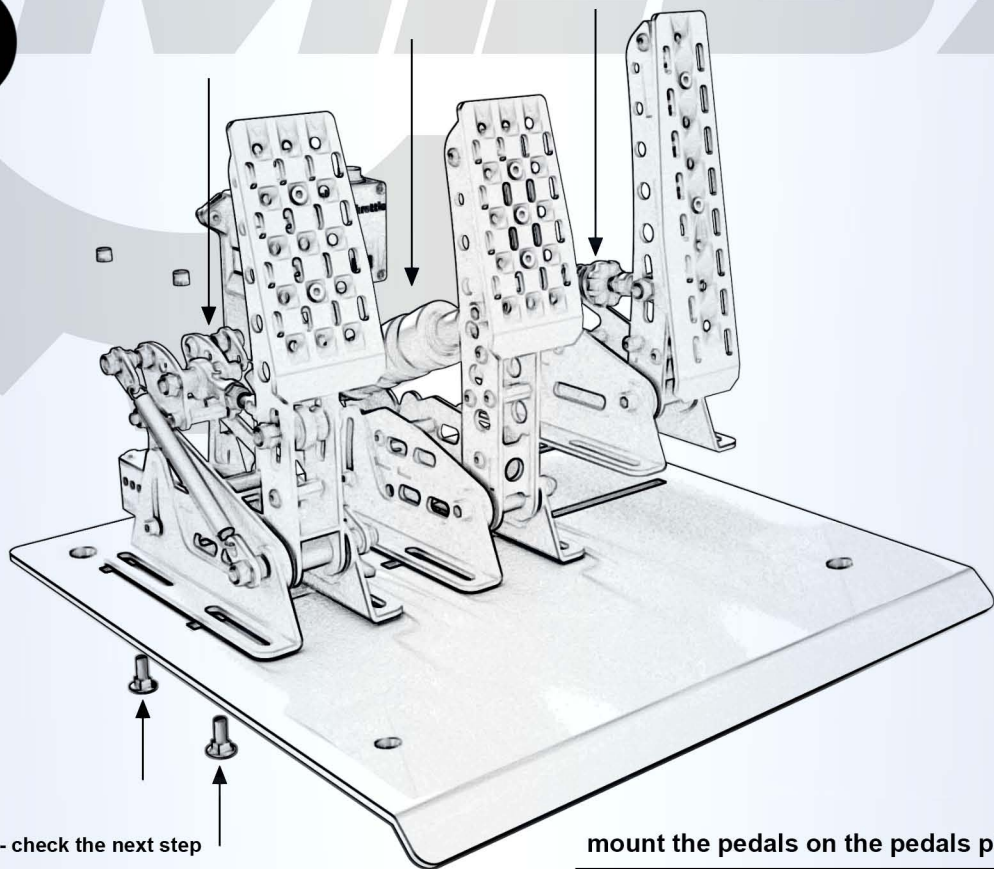
# Schematic Mounting Guide

1



mount the electronics box on the base  
(use M4 screws, nuts and washers)

2

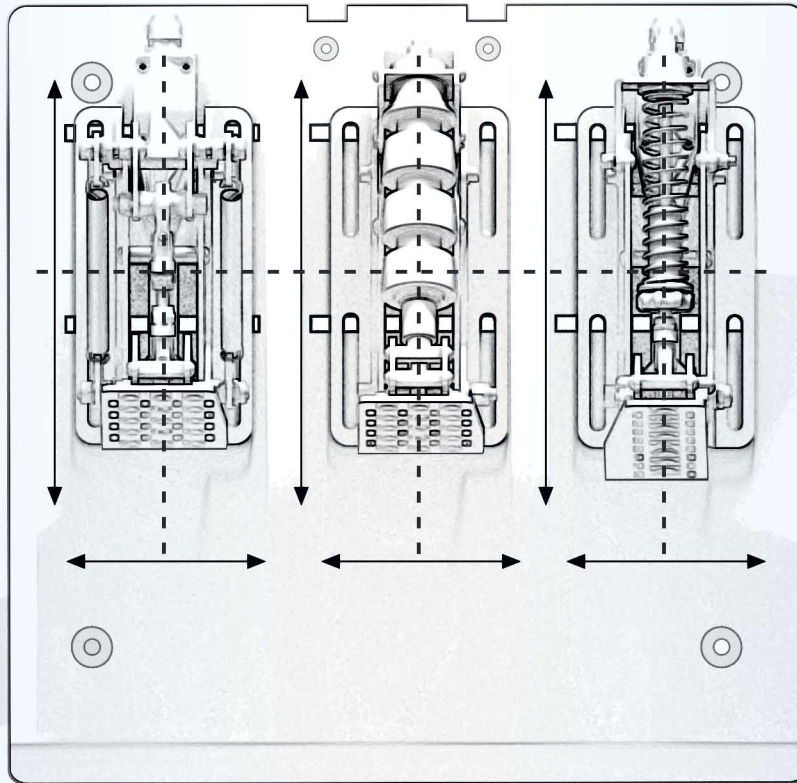


Note - check the next step  
before final screws tightening...

mount the pedals on the pedals plate  
(use M6 screws, nuts and washers)



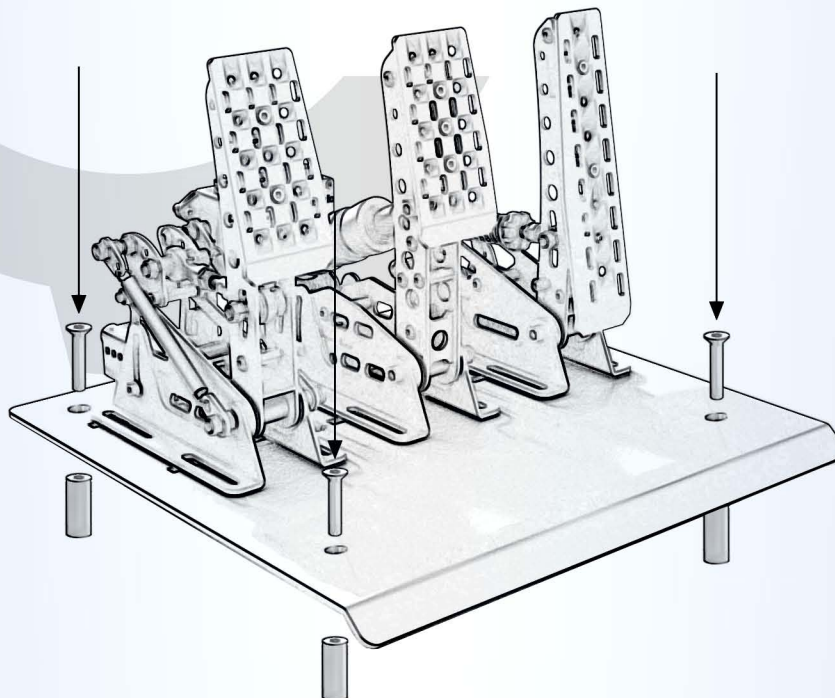
3



pedals can be adjusted laterally and lengthwise  
select your preferred location before final screws tightening...



4



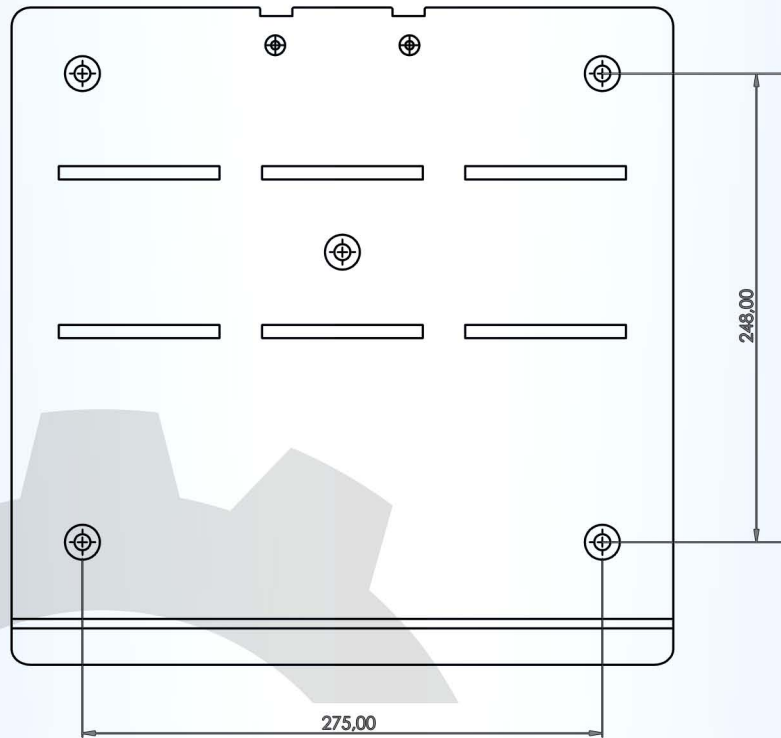
mount the pedals plate to to your rig  
(use M6 allen screws and the seamless steel spacers )



Note - check the drilling template bellow...

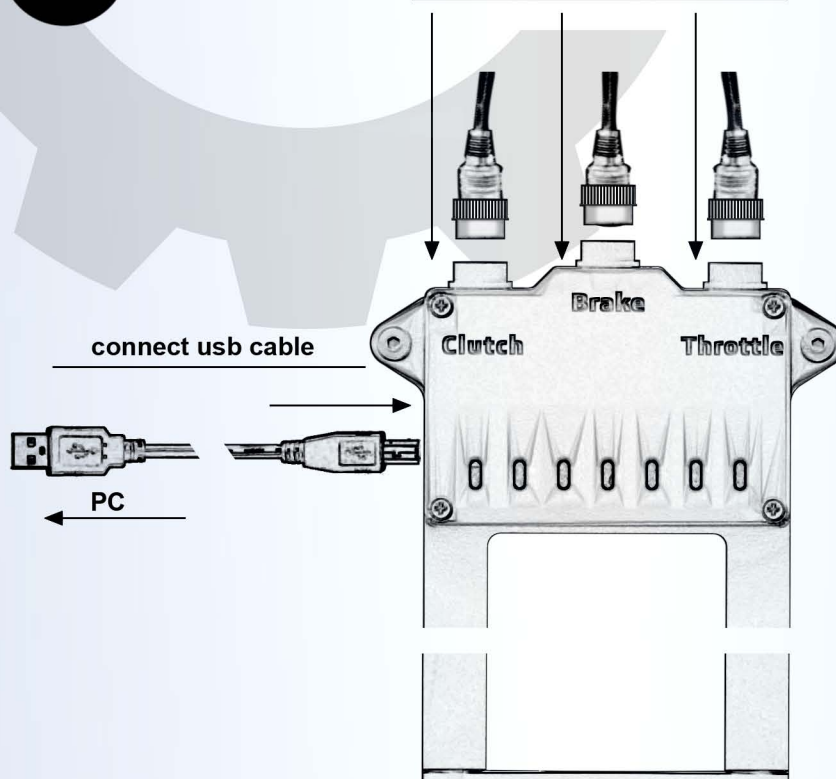


### Drilling Template



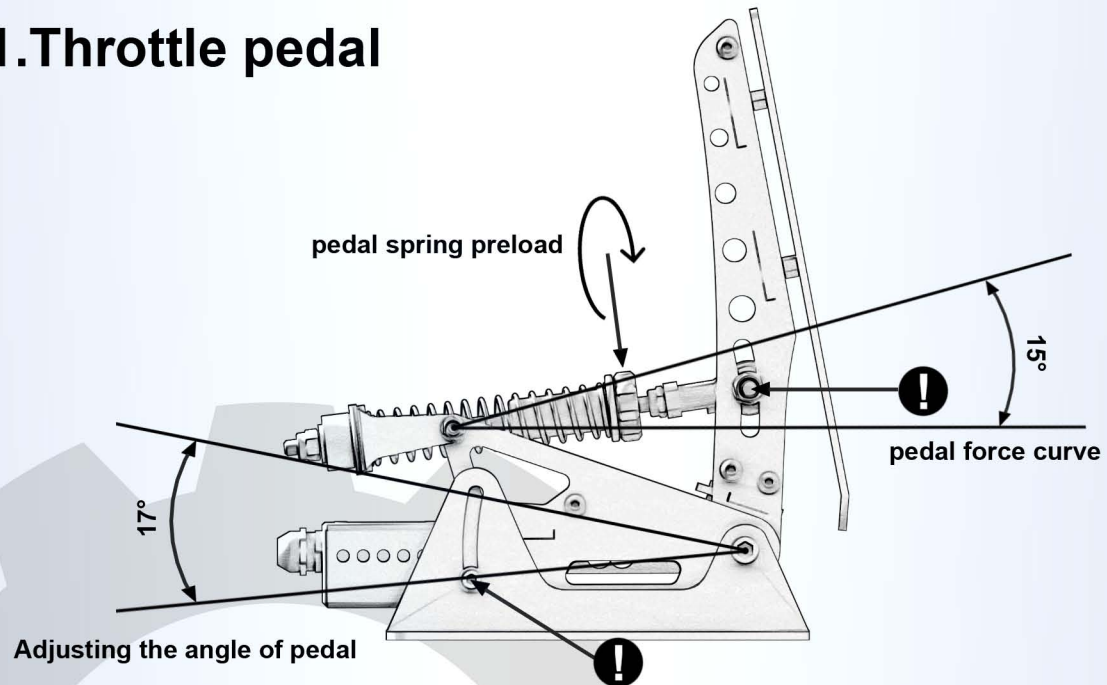
7

connect the pedals cables



# Mechanical adjustments of the pedals

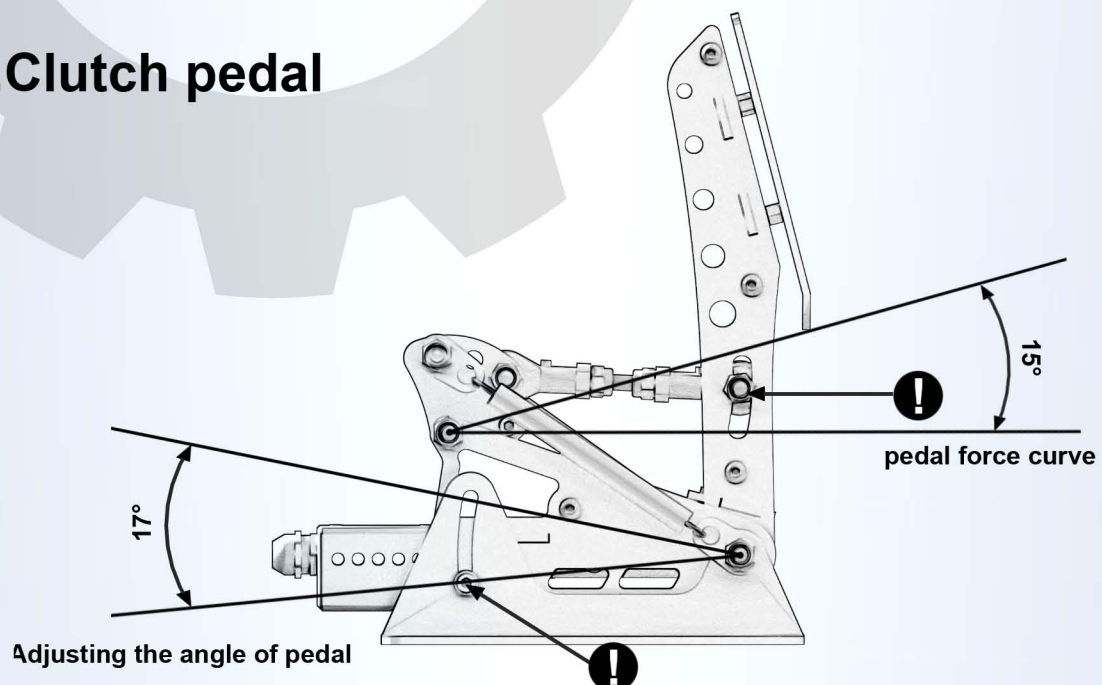
## 1. Throttle pedal



Use hex key and wrench for the adjustment...



## 2. Clutch pedal

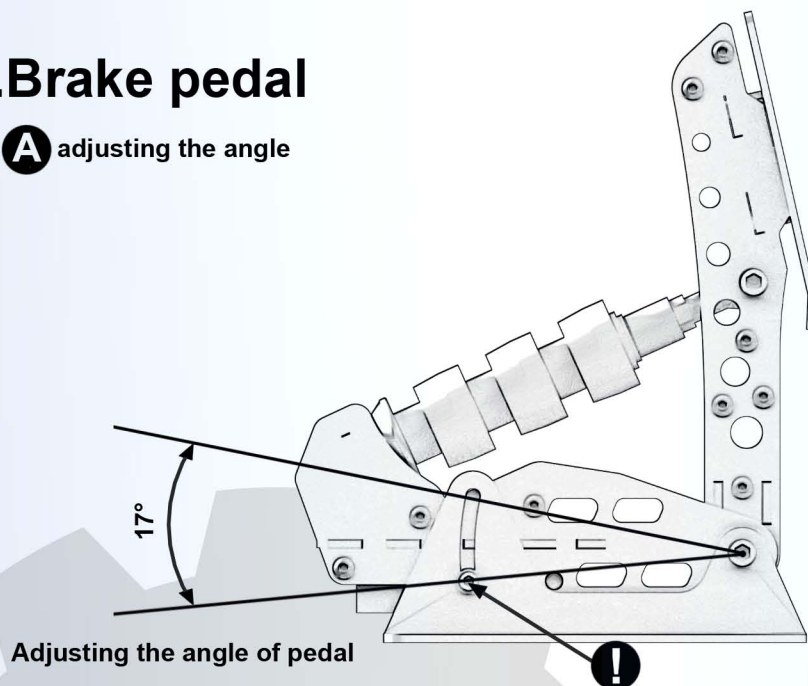


Use hex key and wrench for the adjustment...



### 3.Brake pedal

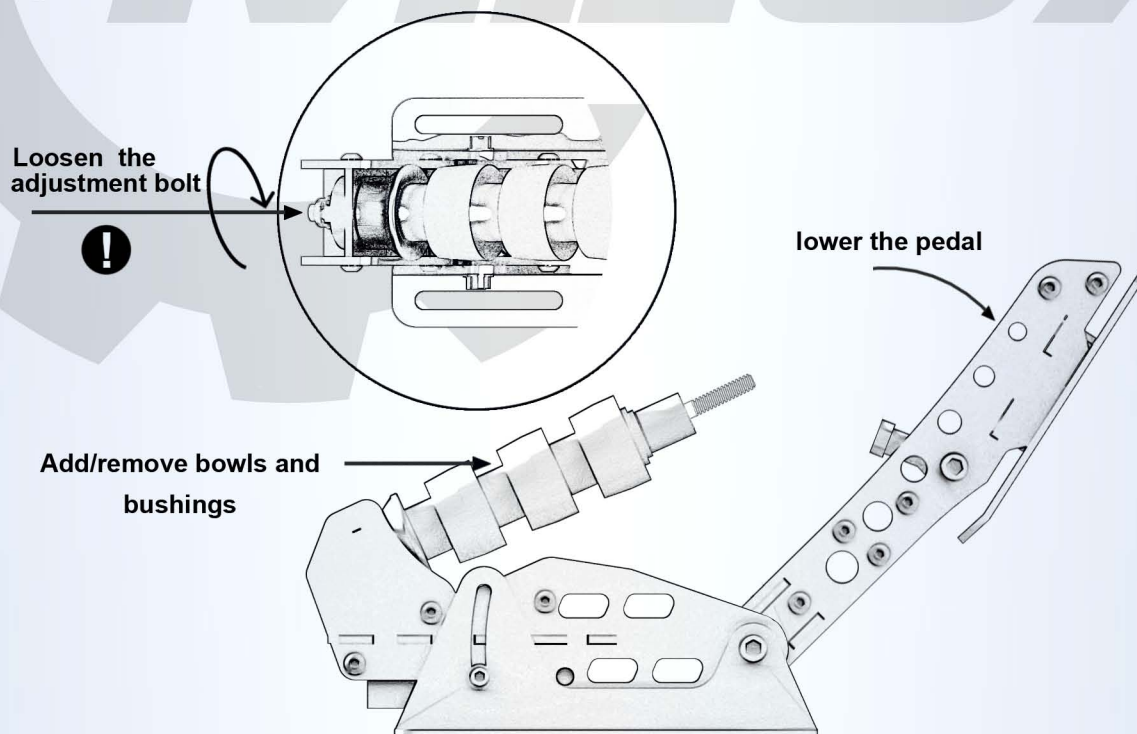
**A** adjusting the angle



Use hex key and wrench for the adjustment...



**B** changing of the polyurethane bushings



Use 13mm socket wrench for the loosen / tighten the screw





The brake pedal comes with the polyuretane bushing kit which allows you to set different combinations of the brake firmness

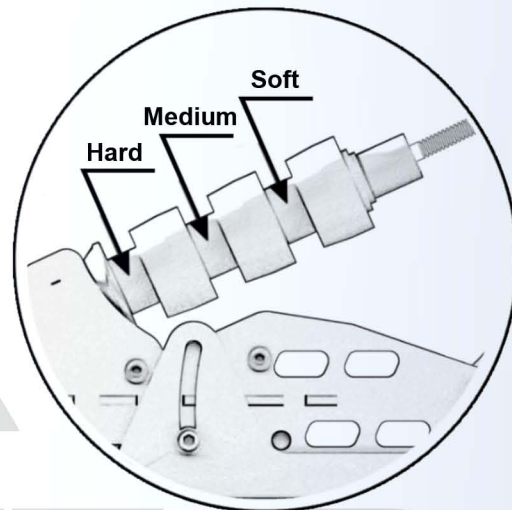
The kit includes 3x soft bushings (Black), 3x medium bushings (Blue), and 3x hard bushings (Orange).

The table below explained the combinations desired firmness, where 1 is the softest combination and 7 is the firmest combination.

Bushing Combinations			Firmness Rating
black	black	black	1 instaled
black	black	blue	2
black	blue	blue	3
blue	blue	blue	4
blue	blue	orange	5
blue	orange	orange	6
orange	orange	orange	7

always insert the hardest type of bushing in the rear position

EXAMPLE:



It is recommended to first adjust the entire pedals (angle, spring preload and firmness) before software calibration of the pedal set



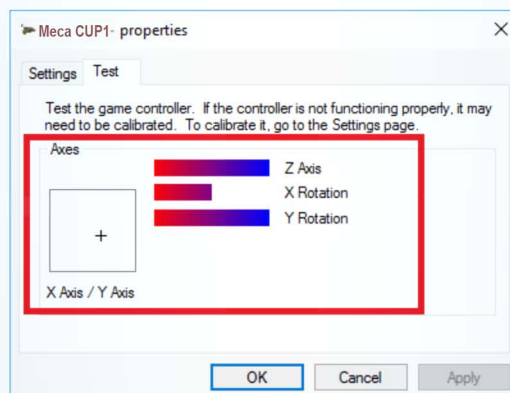
## Calibrating the pedals

1

Plug the USB cable to an available USB port on your PC. Drivers will install automatically. You may click “Skip obtaining driver software from Windows Update” to install the drivers faster. Windows will install its internal drivers. The pedals are powered from the USB port, no external power is required.

2

Test Your Pedals to be Sure Windows has Installed Drivers Correctly: Windows XP, Vista, 7 and 10: click Start, type: *joy.cpl* and ENTER ,Windows 8 and 8.1 go to the Start screen, type: *joy.cpl* and ENTER The Game Controllers panel will open and there should be a controller named MECA CUP1 , double click on it. A window with several axis should appear. Press each pedal in sequence and verify the X, Y and Z axis respond. If they do then Windows has properly installed the drivers and the data is getting to the PC.





3

Even though you have already installed the pedals in Windows ,we highly recommend using DView Calibration Software for accurate calibration and improved pedal functionality.

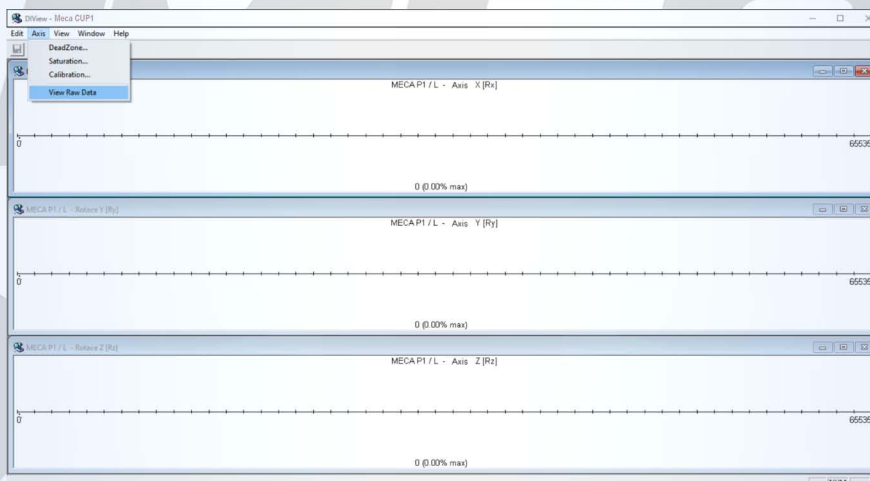
DView Calibration Software you can download here : <http://www.leobodnar.com/files/DView.zip>

4

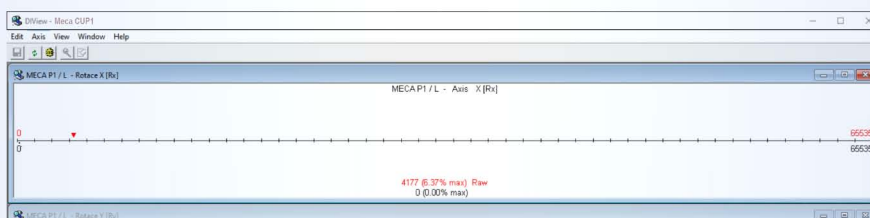
Once you have download the software - launch DView. Go to EDIT in the pull down menu. Click on settings. You will now see all of the USB inputs connected to your pc (keyboard, wheel, joystick, MECA Pedals etc.).Uncheck all of the boxes except for the MECA CUP1 Pedals and click OK. You should then see three windows for a three pedal set.



Select the window of the pedal you want to calibrate.Go to AXIS inthe pull down menu. Click on “View Raw Data”.

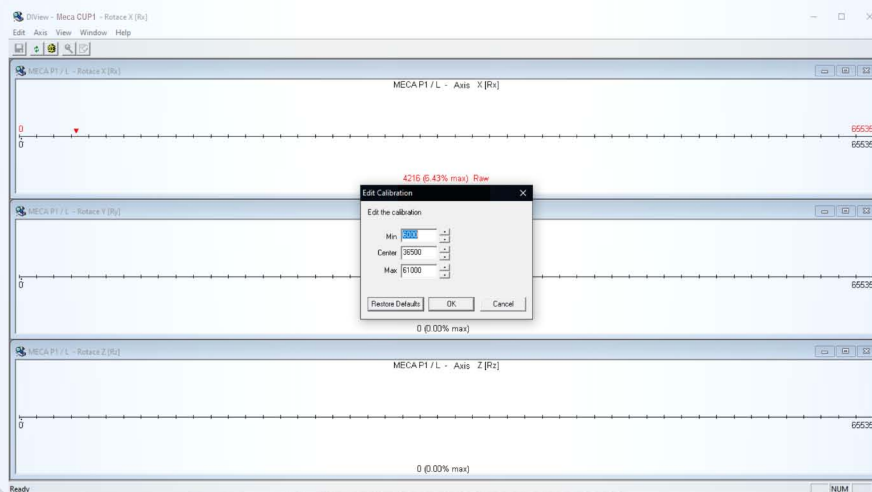


You will then see a set of red numbers at the bottom of the window on top of a set of black numbers



Push the pedal to the stop.Do not slam the pedal to the stop. Hold it firmly while reading the red numbers to the left of the parentheses. Record this number. Release the pedal and record the number at that point.Take the number that you recorded when the pedal is released and add 500. This is your Min calibration number. Take the number that you recorded while the pedal was fully compressed and subtract 500. This is your Max calibration number. Subtract the Min number from the Max number. Divide the answer by 2. Then, add the Min number. This is your Center calibration number.

Go to the AXIS pull down menu and click on Calibration. Enter the Min, Center and Max numbers into the calibration window and click OK.



**EXAMPLE:** The red number is 1500 when the pedal is not pressed. The red number is 65535 when fully pressed. Add  $1500 + 500 = 2000$ . The Min = 2000. Then,  $65535 - 500 = 65035$ . The Max is 65035. Subtract the Min from the Max.  $65035 - 2000 = 63035$ . This is the number of steps of resolution of your pedal. Divide this number by 2.  $63035 / 2 = 31517,5$ . Round this number up to 31518. Add the Min.  $31518 + 2000 = 33518$ . This is the Center.



**NOTE:** Do not use the up and down arrows. We highly recommended enter the numbers directly from the keyboard.



Repeat the above steps to calibrate the next pedals.

The example above is a basic calibration, for other options (such as dead zones settings or brake curve setting) please visit the Support section on our website.

**5**

Configure the pedals in your racing simulator game. Follow the game developer instructions for the selected one...

## Maintenance

### IMPORTANT NOTES:



The pedals have been designed to be used in indoor places protected from rain.  
Do not expose pedals to direct sunlight and heat sources.  
Do not leave pedals in a damp place or exposed to dust.  
Do not immerse or wet pedals with liquids.

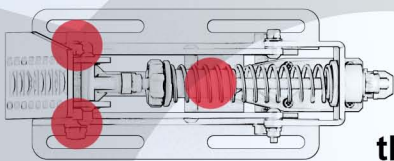
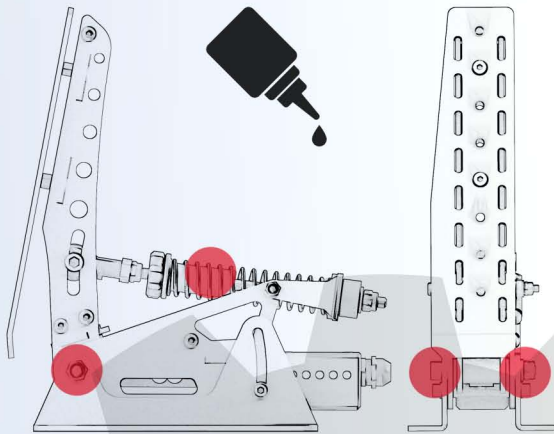


Pedals have been designed to not require any particular maintenance. Pedals receive lubrication during the assembly process. However, to keep your pedals in good shape for many years, we recommend that you perform some of the maintenance procedures which are described below...

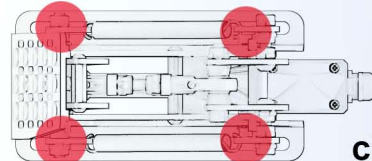
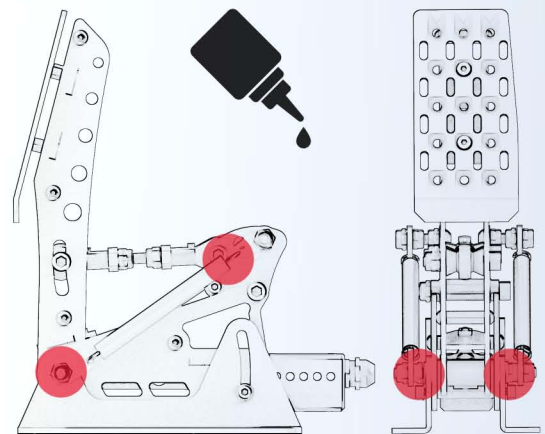
There are some of metal parts making contact in the pedals ,so to avoid wear and making unwanted sounds over time, and as a result of various circumstances (such as temperature differences, humidity, force exerted on nuts & bolts , accumulating dirt & dust etcetera),we recommend that you take preventive lubrication.Lubricate interval we recommend according to the above circumstances every 100 -150 hours of use.

We recommend use as lubricant - PTFE Dry Spray.

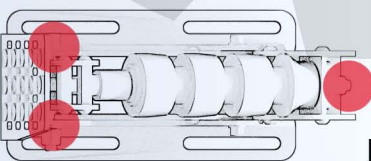
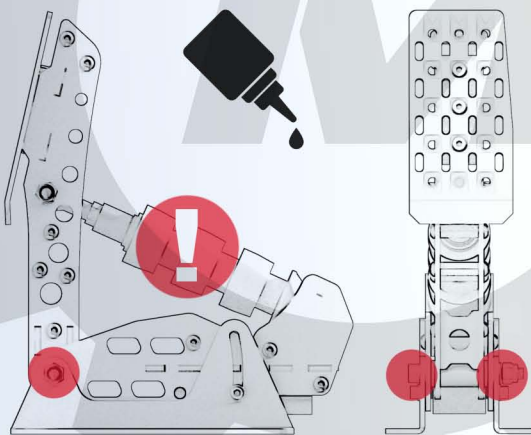
Please check to the images below to see the exact lubrication location.



**throttle pedal**

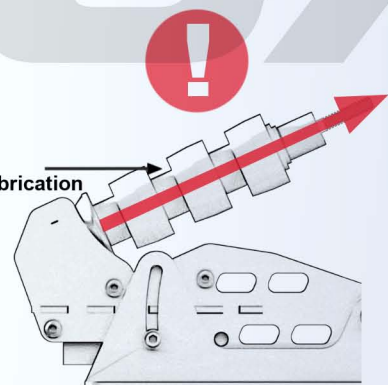


**clutch pedal**



**brake pedal**

remove bowls and  
bushings before lubrication



**NOTE: Before lubrication clean the pedals from dust.**



**It is mandatory that you use a synthetic lubricant for this, as non-synthetic lubricants may affect the polyurethane bushings.**



We highly recommend perform pedals recalibration after maintenance using DView Calibration Software for accurate pedal functionality.

# Troubleshooting

**The pedals do not respond to the controls:**

Check that the USB cable is connected properly to the computer.

Calibrate the pedals again.

**The pedals are too hard or too sensitive:**

Adjust the pedals mechanically by following the instructions  
in this document.

For any further information or technical support please visit the Support section on our website or contact us  
at the contacts below...

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## Contact

**Phone:**

**E-mail:**

**Adress:**

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