

# ESPORTS PRO-RACE V2 SYSTEM SETUP GUIDE



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## 1. INTRODUCTION

Based on the very popular obp Motorsport Pro-Race V2 pedal systems & with over a decade of proven real-world motorsport winning success, our engineering expertise has been packaged into the obp eSports Pro-Race V2 pedal systems which will take your sim racing to another level, giving you the most immersive & realistic motorsport simulation experience.

This setup guide will provide you with all of the information you need install the system to ensure you get the maximum performance and longevity from your new eSports V2 pedal system.

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## 2. WHAT'S INCLUDED

- PEDAL BOX INCLUDING CONTROL ELECTRONICS
- MASTER CYLINDER & SLAVE CYLINDER
- BRAKE LINES
- FIBRO ELASTOMER SPRING BUSHES
- USB CABLE / RJ45 CABLE
- 10X M6 BOLTS, 10X M6 WASHERS & 10X LOCKING NUTS
- SETUP GUIDE

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## 3. REQUIRED TOOLS

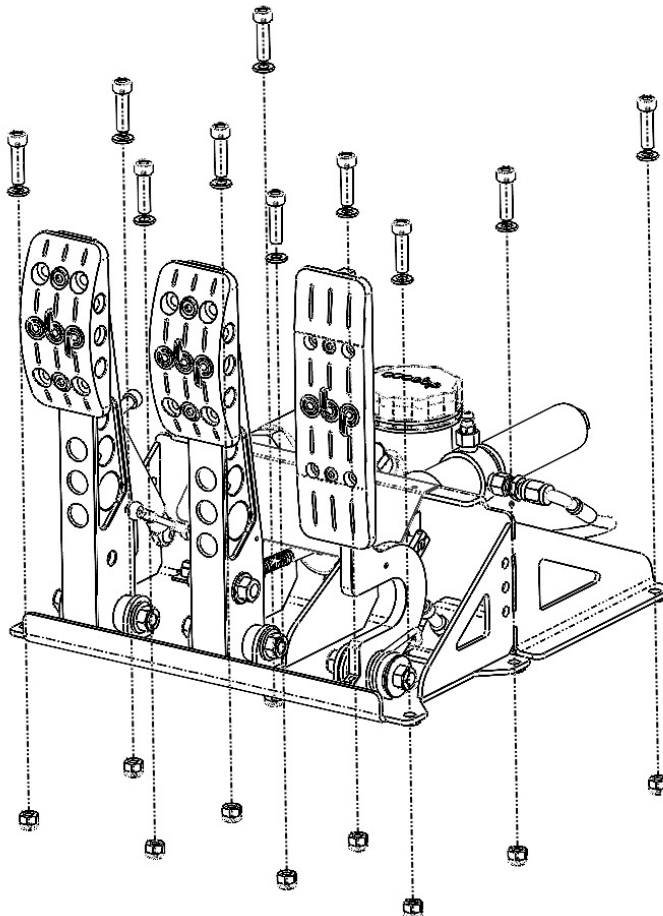
- 5MM ALLEN KEY
- 10MM SPANNER OR SOCKET

## 4. INSTALLATION

### Attaching baseplate to sim.

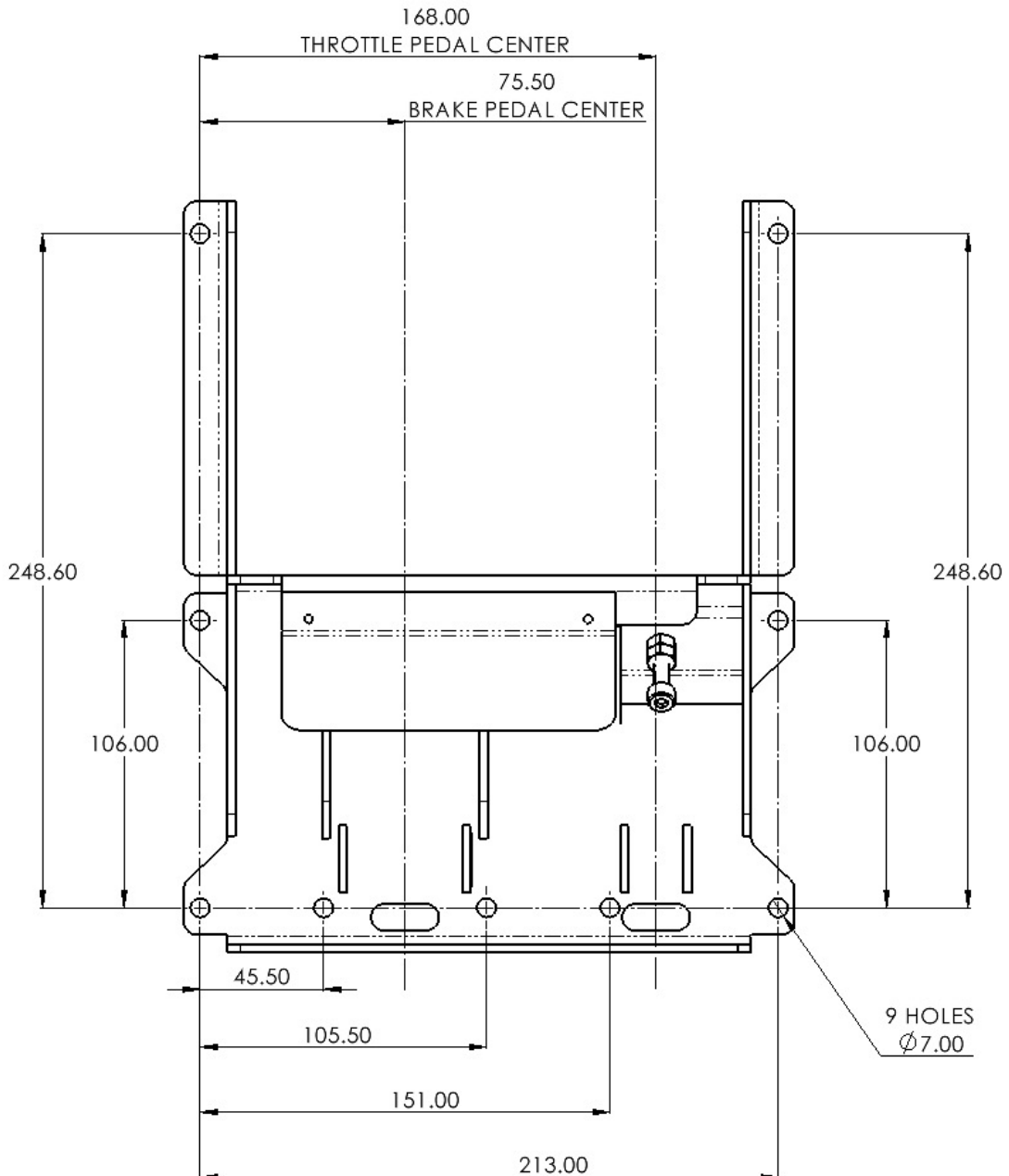
It is important that all fixing holes on the baseplate are used, use the provided M6 bolts, washers and self locking nuts. On the two pedal version this is 9 places, on the three pedal version this is 10 places. Failure to do this could result in additional flexibility and premature wear of the system.

To enhance user experience the pedal box should be installed to a flat, well supported surface to minimise distortion during brake application. We do not recommend installing the pedal box on spacers.



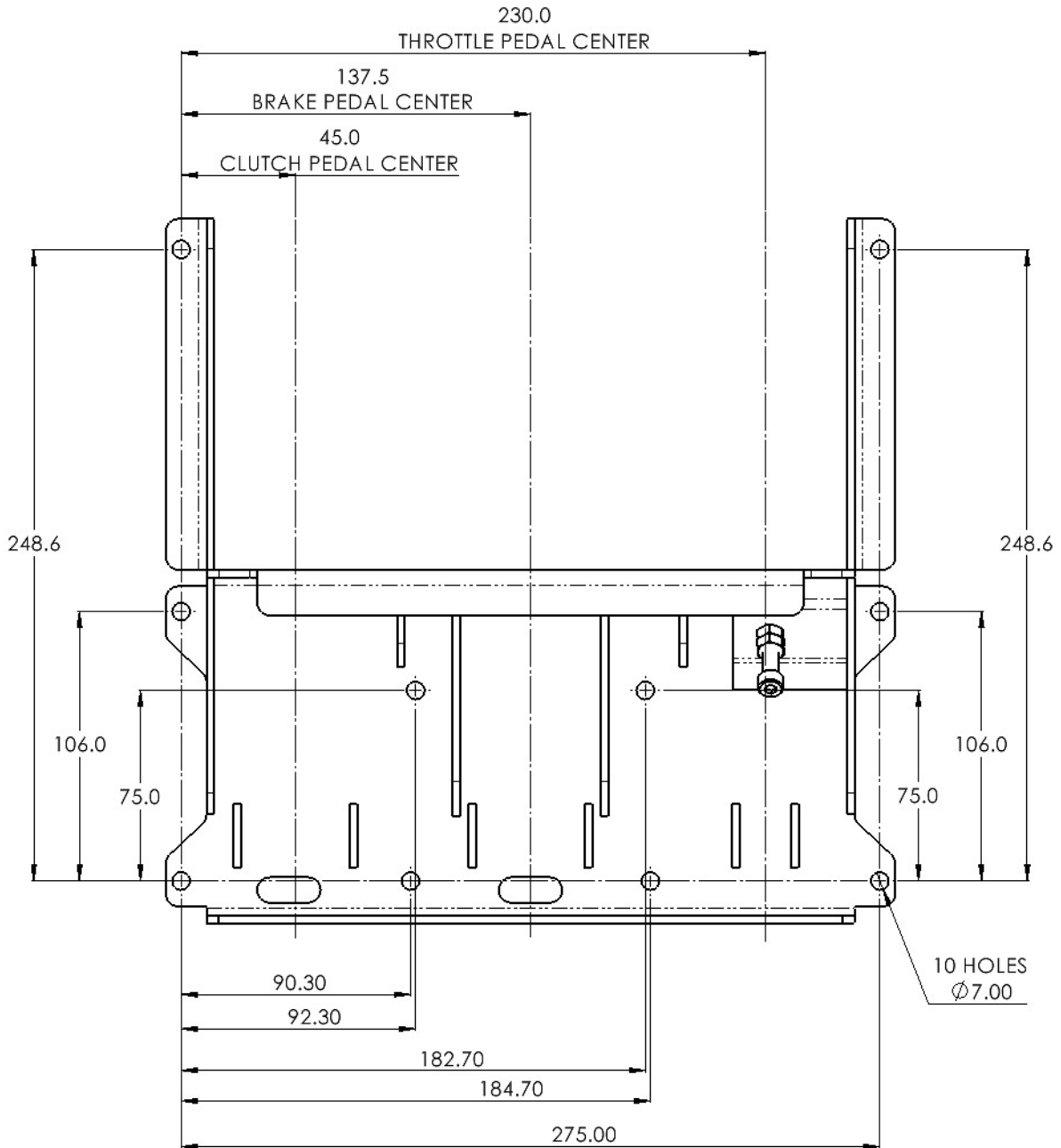
## 4. INSTALLATION

### Baseplate mounting hole template - 2 Pedal Version



## 4. INSTALLATION

### Baseplate mounting hole template - 3 Pedal Version



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## 4. INSTALLATION

### **Bleeding the system.**

To ensure the best possible brake feel it is important the system is correctly bled. The system is bled through the bleed screw located on the top of the slave cylinder, care should be taken not to undo the brass adapter fitting. We recommend to wear gloves as brake fluid tends to be carcinogenic and only use DOT3.1, DOT4 or DOT 5.1 brake fluid. **This system is not DOT5 compatible.**

1. Fill master cylinder reservoir with brake fluid.
2. Attach a suitable transparent flexible pipe to the bleed nipple of the slave cylinder with the other end leading into a small jar or similar.
3. Loosen the bleed nipple using a 1/4" spanner.
4. Depress the brake pedal and hold it in the full travel position.
5. Lightly tighten the bleed nipple.
6. Release the brake pedal and allow it to return to its rest position.
7. Repeat 3-6 until pedal feels firm and no bubbles appear from the bleed nipple during bleeding.
8. Ensure reservoir is topped up, remove flexible pipe and wipe any remaining fluid with a dry cloth.

Once correctly bled the system should not require further bleeding more than once every three years.

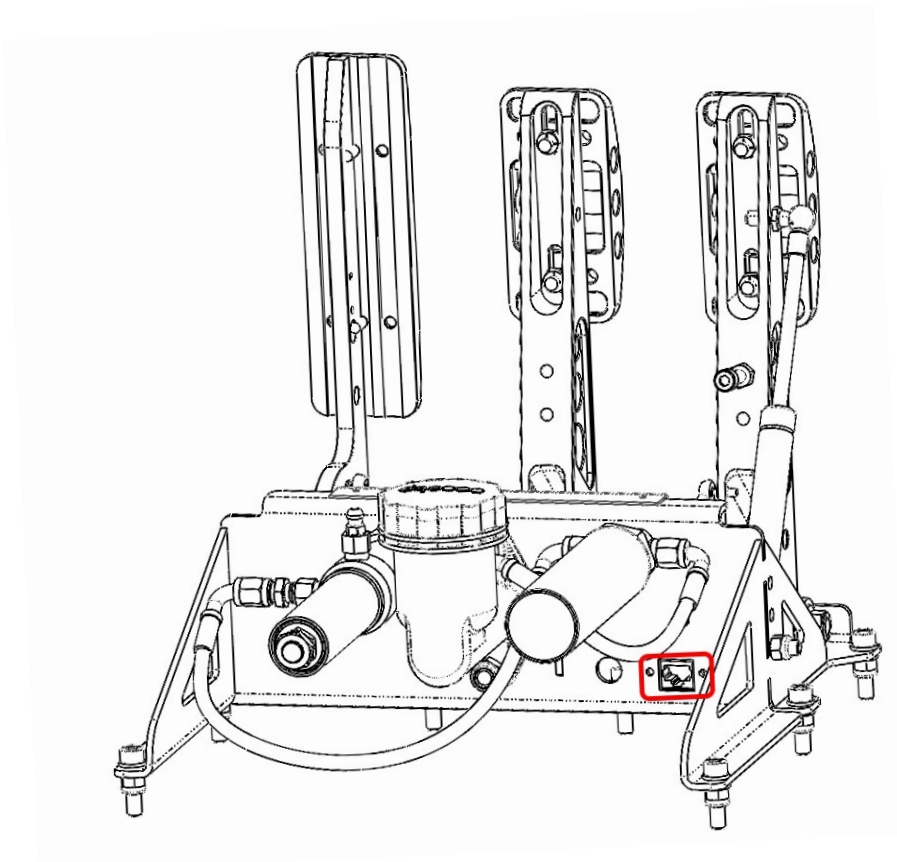
## 5. CONNECTIVITY

### Connecting the system

If connecting the pedal system to your wheel base, use RJ45 cable for direct connection.

If this is not possible, use RJ45 - USB adapter to connect the pedals directly to the PC.

We also offer a cable to connect your Thrustmaster wheel base to our pedals for use with Xbox or Playstation.



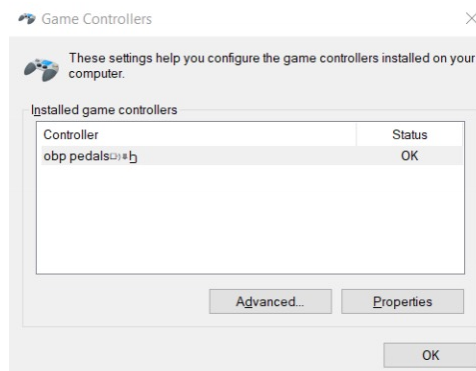


## 6. CALIBRATION

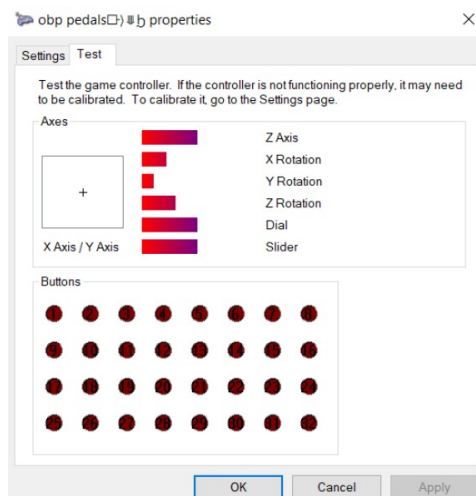
We highly recommend calibrating the pedals on Windows **AND** DView, this will give you a more precise and refined pedal feel.

### Windows

1. Insert the USB Adapter into an available USB port on your PC with the RJ45 side going into the back of the pedals
2. Windows will automatically download the required drivers
3. in the Search bar on Windows, type joy.cpl and click ENTER. The game controller panel will appear and you will see 'obp pedals' as an option.



4. Make sure the obp pedals controller is selected and click 'Properties', you will be taken to a test panel.



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## 6. CALIBRATION

5. Fully depress each pedal and you should see each rotation respond on the window, if each pedal responds then windows has successfully installed the drivers and the pedal data is being received by the PC.
6. If the PC is not responding to the pedals being pushed then you may need to go to Settings > Calibrate and simply re-calibrate the pedals by fully depressing each pedal on their correct Axis.

**X Axis: Clutch**

**Y Axis: Brake**

**Z Axis: Accelerator**

Please note that the brake pedal must be successfully bled for the calibration to work successfully.

## 6. CALIBRATION

### DI VIEW

1. Download DI View from obp Motorsport Website:  
<http://bit.ly/obpESportsCal>
2. Open DI View:

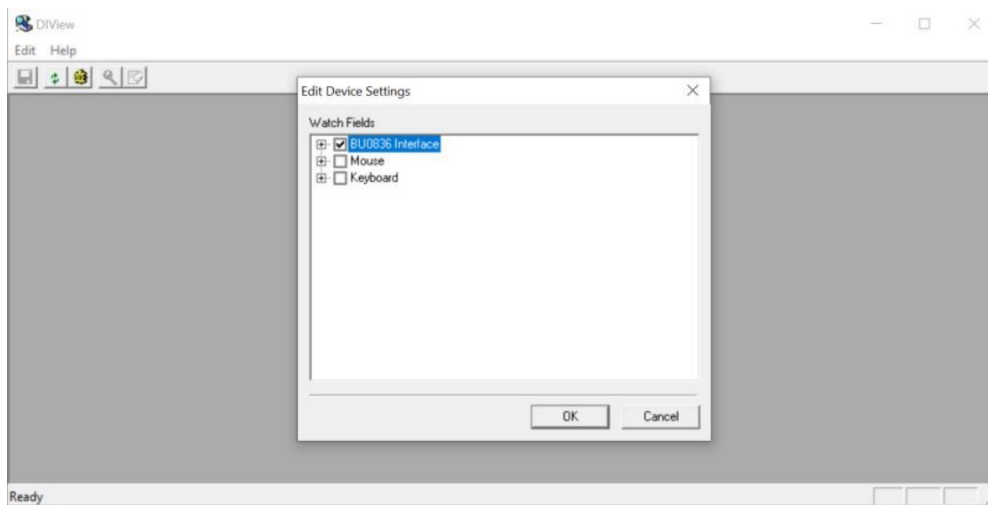


3. Select correct interface controller.
  - a. Click Edit > Settings:

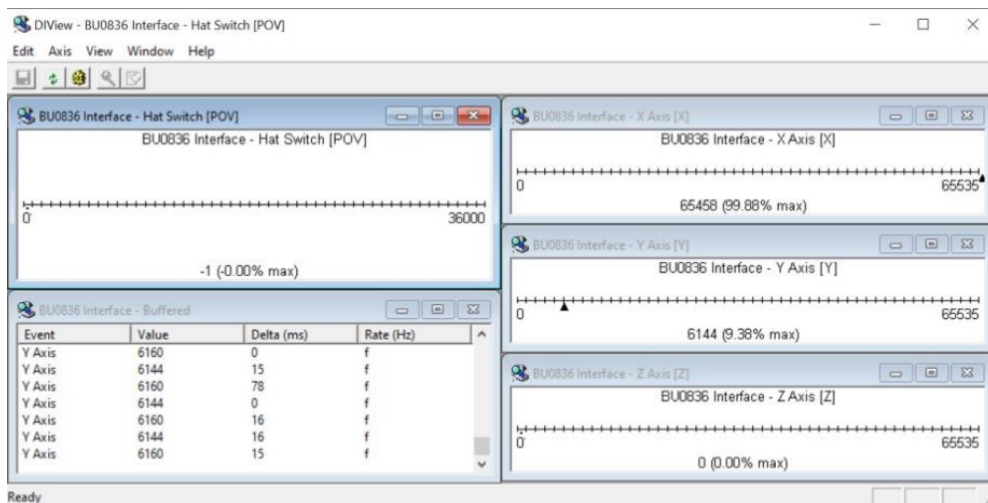


## 6. CALIBRATION

- b. Select BU0836 or obp Pedals Interface > Click OK:

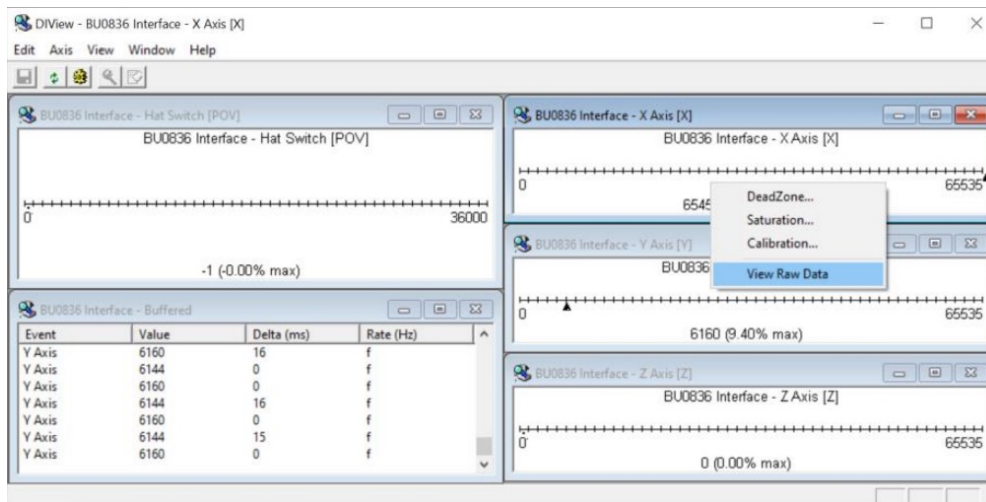


- c. You will then be presented with this screen:

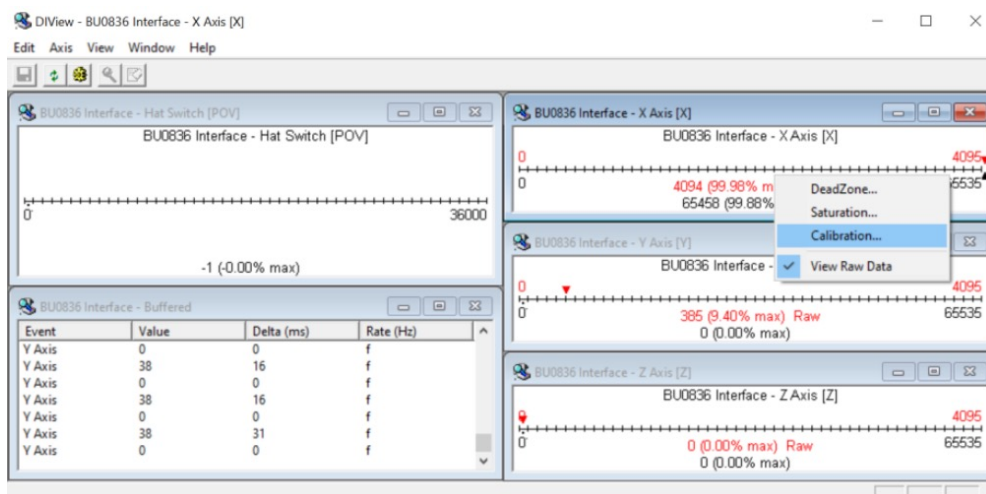


## 6. CALIBRATION

4. Show Raw Data for X, Y and Z Axis
  - a. Right click on each axis interface and select 'View Raw Data' on each of them:



5. Calibrate the E-Sports Pro Race V2 Pedal System
  - a. Right click on an axis interface and select 'Calibration':



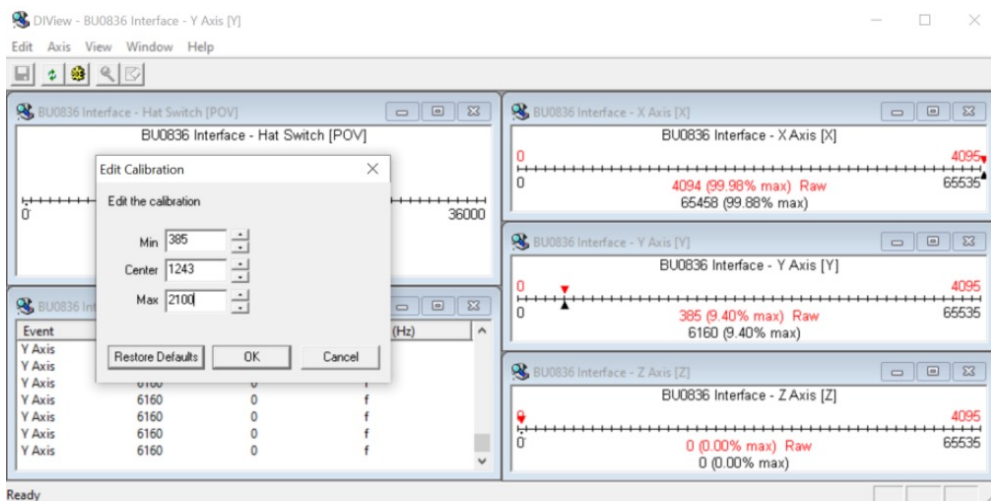
## 6. CALIBRATION

- b. Set Min, Centre and Max Values from "Raw Data"

Min Value = Pedal In Rest Position

Centre Value = Calculated Travel Midpoint  $(\text{Max} + \text{Min}) / 2$ .

Max Value = Pedal Full Travel



- c. Click OK and repeat for each pedal axis.
- d. NOTE: You may choose to set the values for the clutch pedal over a smaller range than full travel to simulate the bite point.

6. Close DIView

### In Game Set-Up

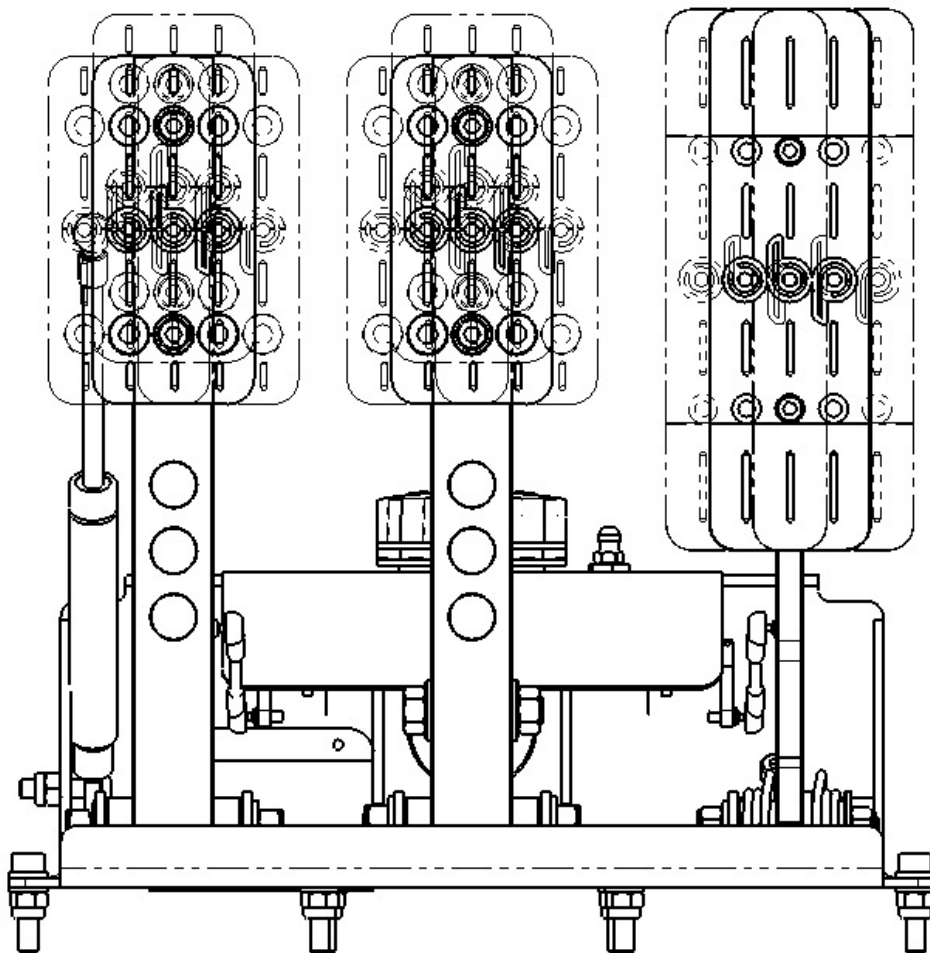
1. Open Game
2. Select Inputs for Throttle, Brake and Clutch by depressing each Individual Pedal. (Please refer to specific game instruction manuals for further information).

## 7. ADJUSTMENT

### **Footpads.**

Each footpad can be mounted to the pedal in one of three positions to suit each driving style and shoe width.

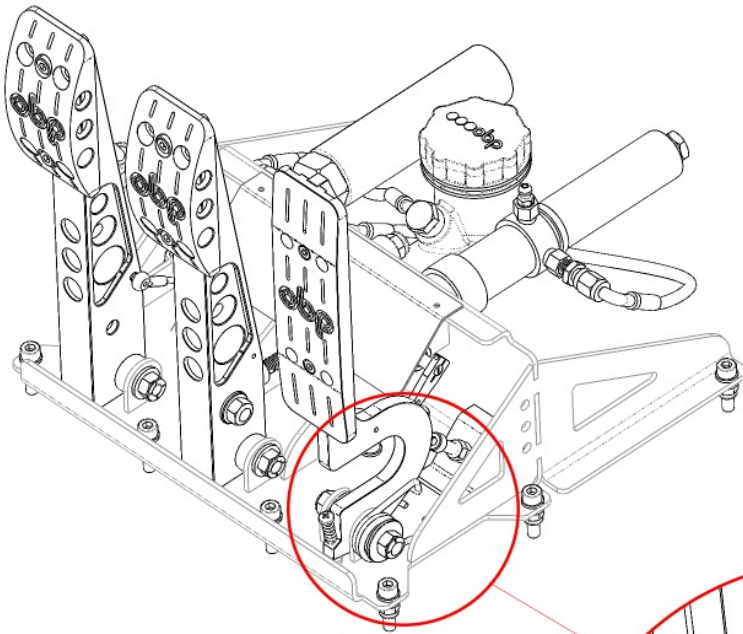
The clutch and brake pedal footpads are also height adjustable to tune the pedal ratio.



## 7. ADJUSTMENT

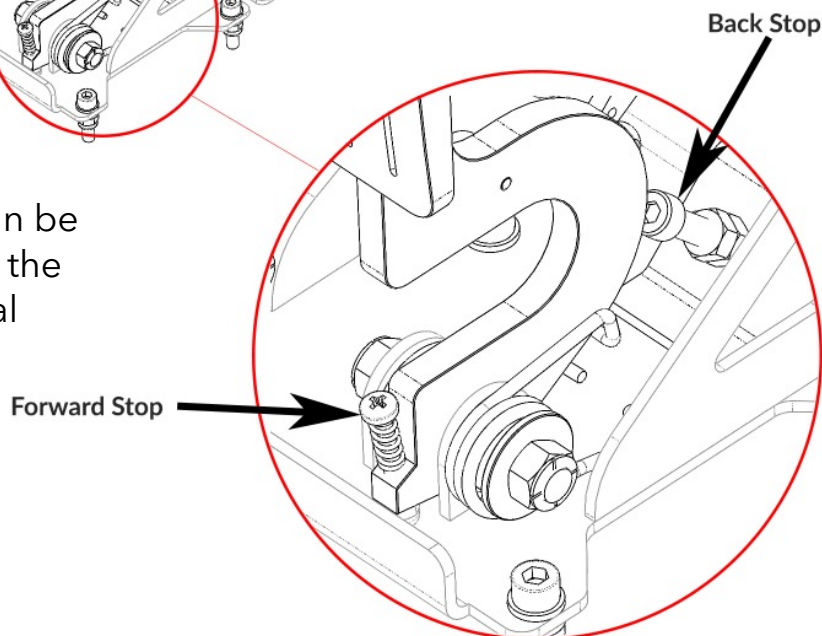
### Throttle Pedal Position.

The throttle pedal travel limits can be adjusted in both the rest position and the full travel position.



- To adjust the back stop
1. Release the lock nut.
  2. Adjust the stop position as required.
  3. Re-tighten the lock nut.

The forward stop can be adjusted by turning the screw until the pedal rest position is as required.

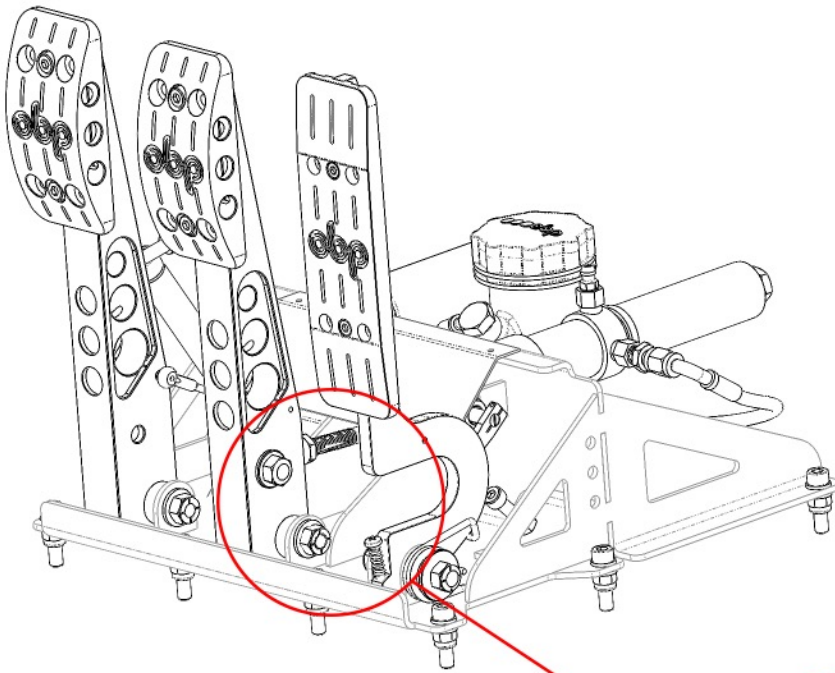




## 7. ADJUSTMENT

### Brake Pedal Position.

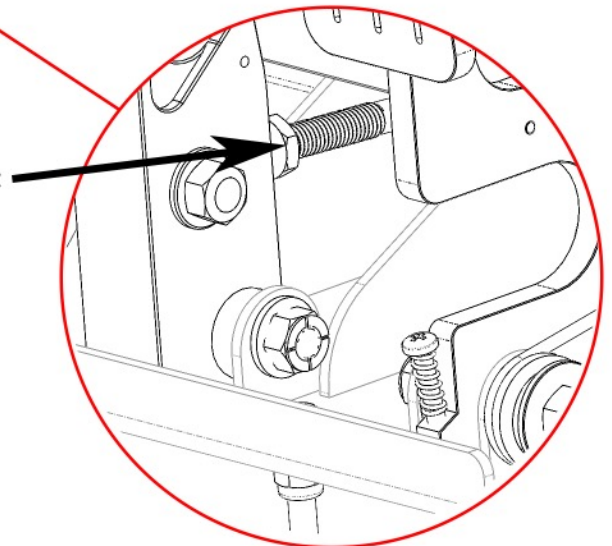
The brake pedal rest position can be adjusted as shown below.



To adjust the brake pedal rest position:

1. Loosen the locknut on the master cylinder push rod.
2. Rotate push rod clockwise or anti-clockwise depending on requirements. ENSURE AT LEAST 10MM OF THREAD IS ENGAGED WITH CLEVIS.
3. Re-tighten locknut.

Lock Nut



## 7. ADJUSTMENT

### Brake Pedal Feel.

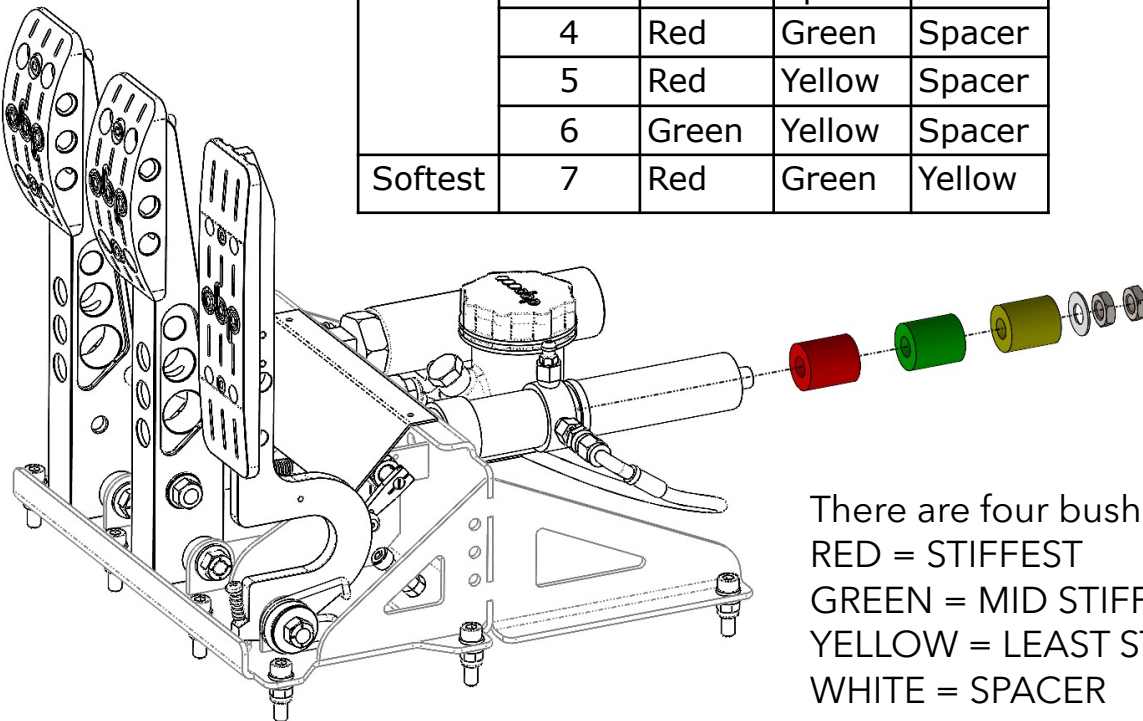
The brake pedal feel can be adjusted to suit driver feel.

**It should be noted that if you are upgrading your sim system to a hydraulic system for the first time, the pedal feel even on the softest setting will feel significantly more firm than any non hydraulic sim pedal set.**

To adjust the brake pedal feel:

1. Loosen the two locknuts on the bush spindle.
2. Remove all bushes and replace with the desired combination to achieve the desired stiffness (see table below).
3. Re-tighten locknuts

Hardest	1	Red	Spacer	
	2	Green	Spacer	
	3	Yellow	Spacer	
	4	Red	Green	Spacer
	5	Red	Yellow	Spacer
	6	Green	Yellow	Spacer
Softest	7	Red	Green	Yellow



There are four bushes available.  
 RED = STIFFEST  
 GREEN = MID STIFFNESS  
 YELLOW = LEAST STIFF  
 WHITE = SPACER

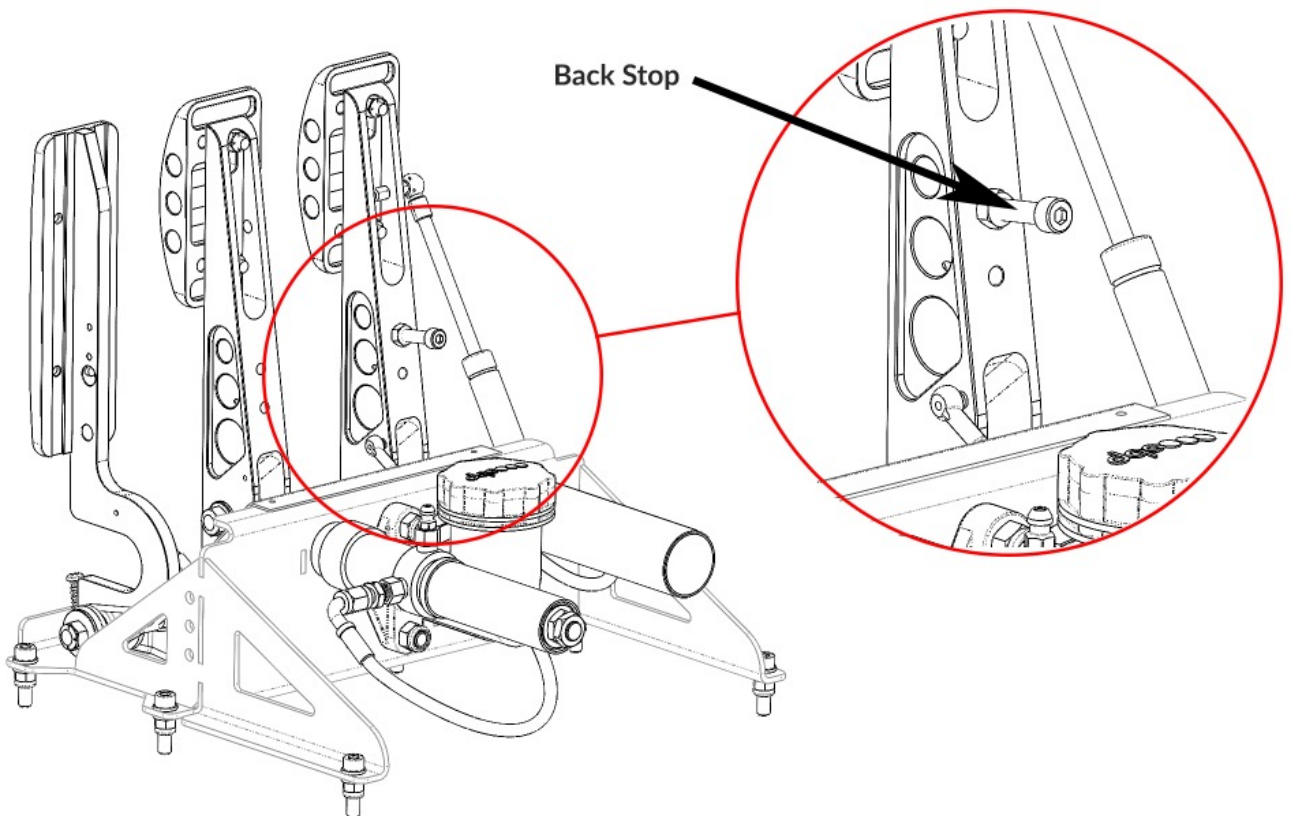
## 7. ADJUSTMENT

### **Clutch Pedal Position.**

The clutch pedal full travel position can be adjusted as shown below.

To adjust the brake pedal rest position:

1. Loosen the locknut on the master cylinder push rod.
2. Rotate push rod clockwise or anti-clockwise depending on requirements. ENSURE AT LEAST 10MM OF THREAD IS ENGAGED WITH CLEVIS.
3. Re-tighten locknut.



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## 8. ACCESSORIES

**The following accessories are available to further tune the system to individual preference.**

### **Wide Brake Pedal**

Increase width of pedal from 50mm to 78mm

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## 9. MAINTENANCE

### **General**

The obp eSports Pro Race V2 pedal box is relatively low maintenance if installed correctly.

However there are certain parts that should be inspected regularly to ensure the longevity and performance of the system.

### **Pedal Pivots**

The pedals should be free moving without much resistance but also without excessive play. No lubrication is required but it is recommended that the pedal pivots are kept clean and free from debris and checked periodically.

### **Hydraulics**

When bleeding the system it is very important that no debris is introduced into the system as this could damage the main pressure seal resulting in

Periodically ensure that there is no leakage of brake fluid from the system. It is normal for a small amount of residue to be present on the slave cylinder pull rod and this can be wiped with a clean dry cloth or paper towel.