Driver and Firmware Instructions

Important: For additional or device specific instructions use the full manual available on the product page.

Please read the “changelog.txt” to get an overview of what has changed since the last driver and known issues that might exist. For additional information or to report an issue, please visit the driver section of our forum.

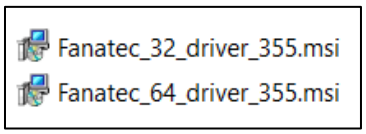
Overview

1. Driver Installation

1.1. Choosing the correct file

Important: A Windows PC is mandatory!

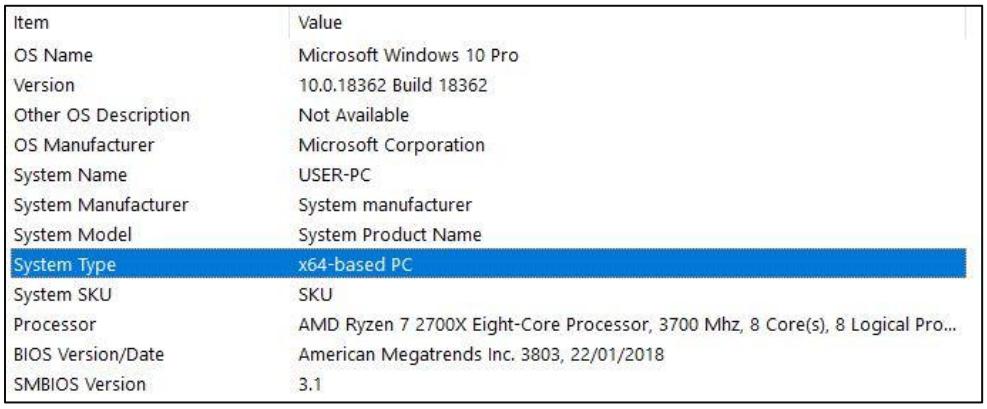
The zip-file includes two installation files:



The first number stands for which operating system the driver is meant: 32bit or 64bit.
The last number refers to the version number of the driver.

Most modern PCs run Windows in 64bit, you can check this yourself before choosing the file:

1. Press the Windows Key on your keyboard .
2. Type in: “system information” and press enter.
3. Look for the line called “System Type”.
   x86 = 32bit
   x64 = 64bit



Item	Value
OS Name	Microsoft Windows 10 Pro
Version	10.0.18362 Build 18362
Other OS Description	Not Available
OS Manufacturer	Microsoft Corporation
System Name	USER-PC
System Manufacturer	System manufacturer
System Model	System Product Name
System Type	x64-based PC
System SKU	SKU
Processor	AMD Ryzen 7 2700X Eight-Core Processor, 3700 Mhz, 8 Core(s), 8 Logical Pro...
BIOS Version/Date	American Megatrends Inc. 3803, 22/01/2018
SMBIOS Version	3.1

1.2. Installation

1. Start the correct file chosen with the help of the information above.
2. Click “Next”.
3. Accept the License Agreement and click Next.
4. Click “Next” or choose a different folder if you want to.
5. Click on “Install and accept the pop-up message that might appear.
6. Click on “Finish”.
7. A message will prompt a Windows restarted which will make the installation complete

If you encounter any issues, look for 9. Troubleshooting of this manual.

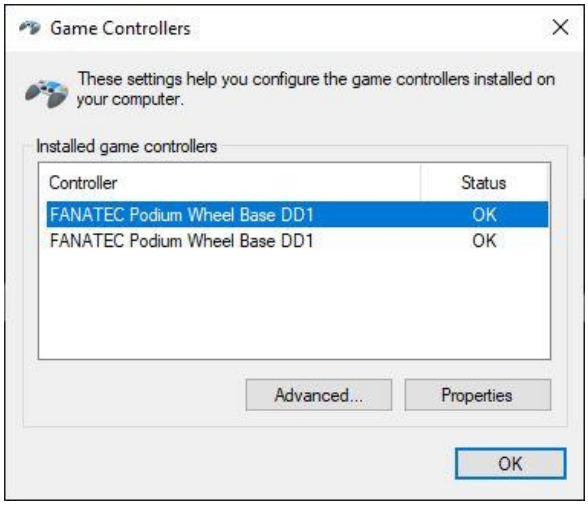
2. Driver UI

2.1. Open driver UI

To access the Driver UI the device needs to be connected to the PC via USB and wheel bases need to be in PC Mode (Check individual instructions how to see or change modes).

The driver UI can be accessed through the desktop shortcut "Fanatec Wheel Property Page".

Or alternatively by using the windows key on your keyboard and typing in "USB-Gamecontroller".



To open the driver UI, double-click on the device you want.

Note:
Some wheel bases like CSL E WB+ (PS4), CS WB V2.5 and Podium DDs will be shown as two devices which is normal. Don't get confused by this, it doesn't make a difference on which one you click.

If you encounter any issues, look for 9. Troubleshooting of this manual.

2.2. Pop-up Messages

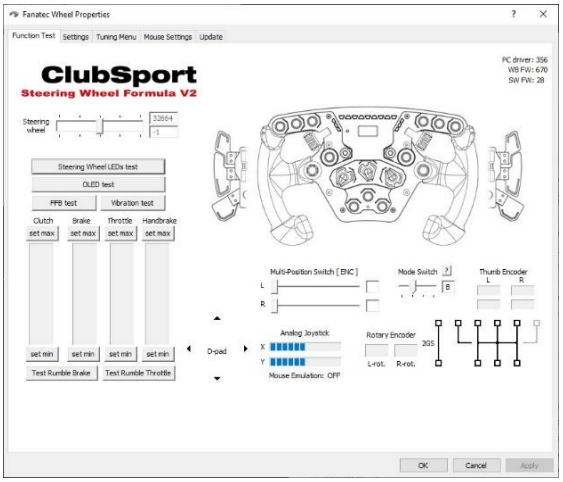
If the driver you've installed contains new firmware versions which are not flashed yet, it will prompt you a pop-up message to update the firmware.

Accept the message with yes and follow the instructions of how to update the firmware (3. Firmware Updates).

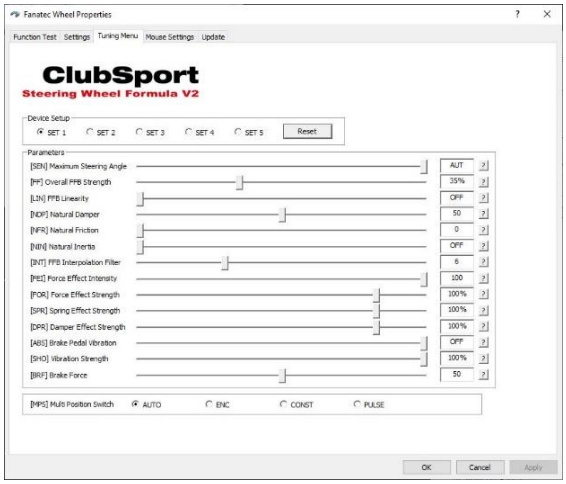
Important: Always re-open the driver UI after you have finished a firmware update to check if there are more updates necessary and to check basic functionality (4. Function Test) or calibrate your device (5.2. Calibration).

2.3. Driver UI Overview

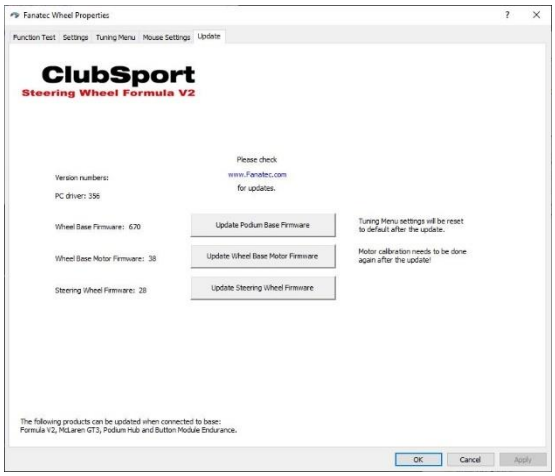
Function Test tab to check your devices (4.).



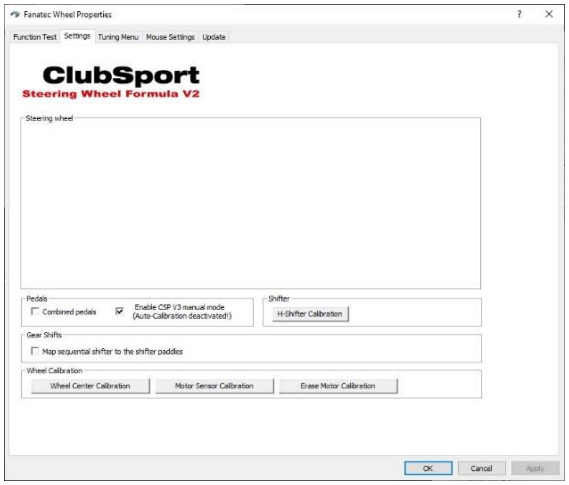
Tuning Menu settings which are also available on your wheel can be adjusted here as well (6.).



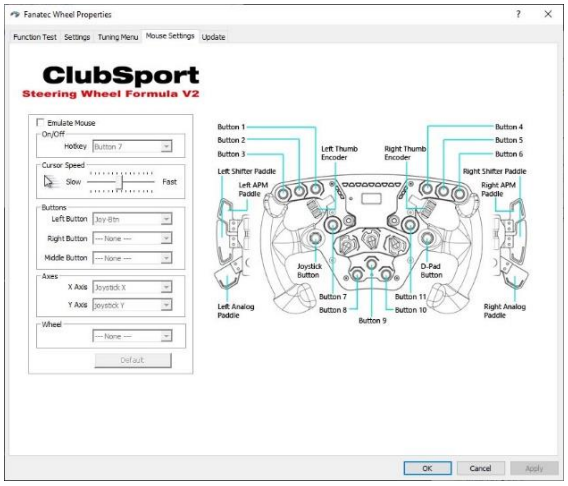
Update the individual firmware versions (3.).



Settings tab to adjust options which are only available in the driver and to calibrate the connected hardware (5.).



Mouse Settings tab to enable and configure the mouse emulation (7.).



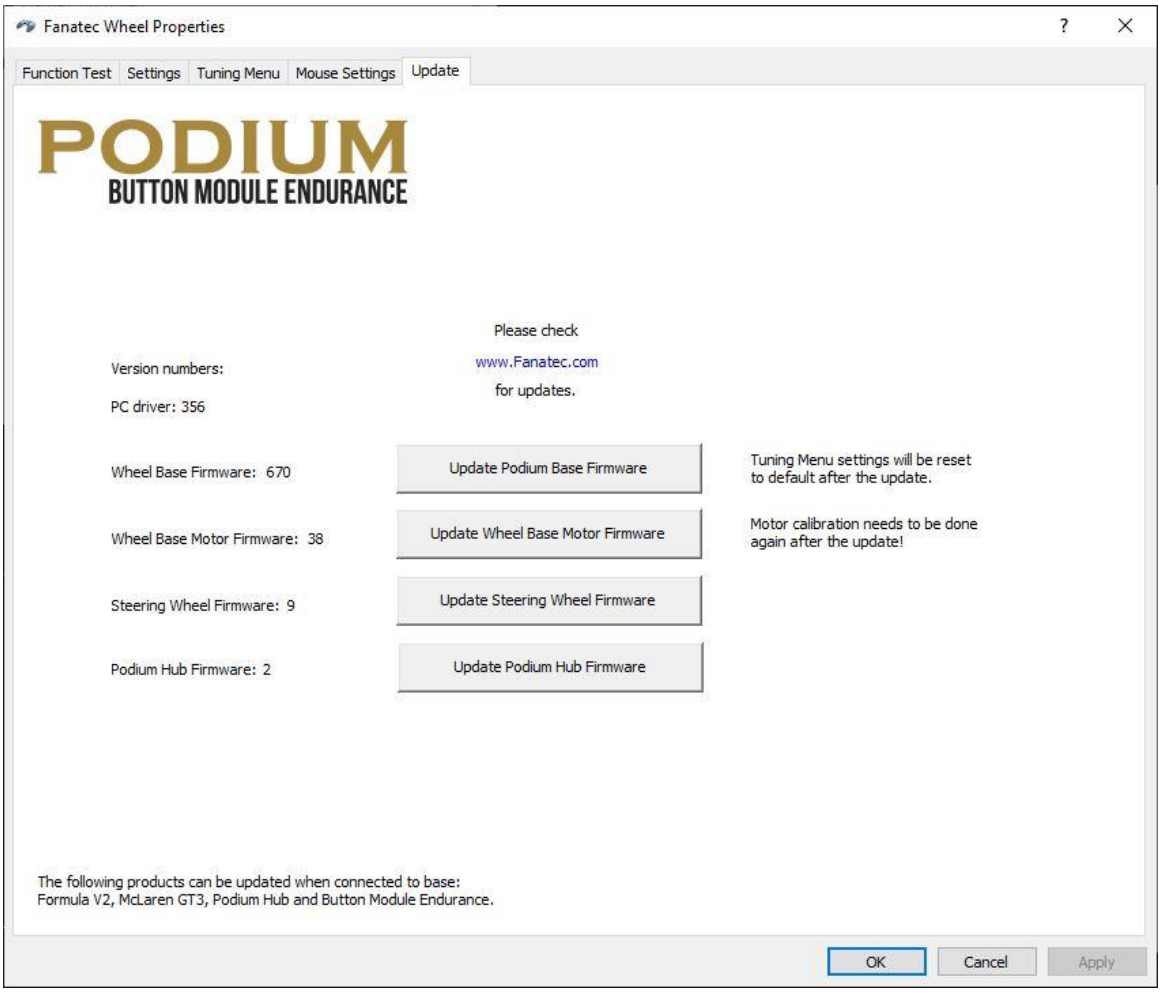
Note:
The general look of the pages might vary depending on the connected hardware.
For device specific information refer to the corresponding user manual of each device.

3. Firmware Update Tab

Each driver contains firmware for the following hardware:

- All Wheel Bases
- Steering Wheels:
    - CSL McLaren GT3
    - ClubSport Steering Wheel Formula V2
    - Podium Hub
    - Podium Button Module Endurance

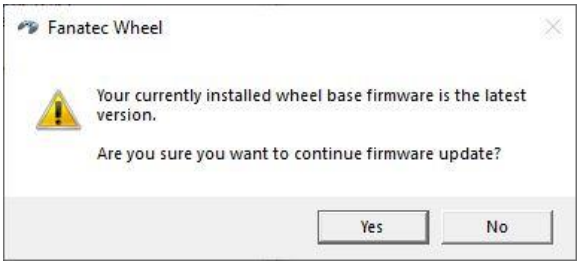
Important: If you have steering wheels mentioned above you should always connect them to the base after installing a new driver to check if a firmware update is available for them.



Note: This overview looks different for each hardware configuration. Depending on your connected hardware the Update tab will show between 1 and up to 4 buttons.

The driver will automatically prompt a pop-up message to update if it contains a more recent firmware version than currently installed.

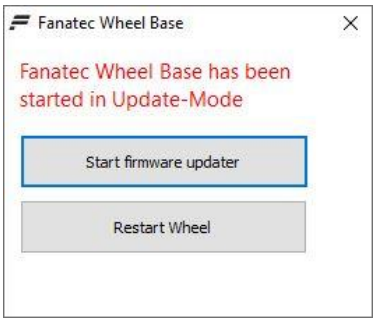
You can start a firmware update manually by clicking on an update button. This way you can also check if the firmware is already up to date, as it will pop-up a message if the driver doesn't have a more recent firmware version than already installed.



Important: The pop-up messages a driver prompts always only refer to the firmware included in the driver. The currently installed driver does not know if there might be a more recent firmware available in a newer driver. For more recent firmware, a new driver package must be downloaded and installed (if available).

3.1. Wheel Base Firmware

Note: Updating the wheel base firmware will reset the Tuning Menu settings to default. Take notes of your current settings or use our software "FanaLab" to save them.



1. There are three ways a base firmware update can be initiated.
   - Accepting the pop-up message which advices to update the firmware.
   - "Update Wheel Base Firmware" button on the Update tab.
   - Starting the wheel base by holding the power button pressed for 10seconds.
2. Click "Start firmware updater" which opens the updater window.
3. Always keep an eye on the Instructions box which will also tell you what to do next.
4. Click "Connect".
5. (The "Load Hex File" button is not needed)
6. Click "Flash Firmware" which will start the process. (Do not turn off your base!)
7. The wheel base will restart automatically when the firmware is flashed (Do not touch the shaft or wheel while it rotates).
8. Again, keep an eye on the Instructions box as it will give important information on what should be done next after the update.
9. When the green progress bar is full, the Message Logs box shows "Firmware update completed successfully" and you can close the Updater window.
10. Always open the driver UI again after an update to make sure everything is working, check if additional updates must be made and calibrate your hardware. (5.2. Calibration explains how the calibrations work.)

Note: If an Xbox steering wheel is connected the wheel base will boot into Xbox mode. The steering wheel quick guide describes how to change back to PC mode.

A Podium DD base might have the fan running at full speed afterwards, this is normal when the Motor Firmware has to be updated as well, please proceed with **3.2.**.

3.2. Wheel Base Motor Firmware

1. There are two ways a motor firmware update can be initiated.
   - Accepting the pop-up message which advices to update the firmware.
   - "Update Wheel Base Motor Firmware" button on the Update tab.
2. Always keep an eye on the Message Logs box which will also tell you what to do next.
3. Click "Connect".
4. The file is loaded automatically, no need to select one.
5. Click "Flash Firmware" which will start the process. (Do not turn off your base!)
6. The wheel base will restart automatically when the firmware is flashed (Do not touch the shaft or wheel while it rotates).
7. If a Podium DD got updated, a pop-up message will inform that the motor sensor needs calibration. This is also described in 5.2. Calibration.
8. When the green progress bar is full, the Message Logs box shows "Update process is completed" and you can close the Updater window.
9. Always open the driver UI again after an update to make sure everything is working, check if additional updates must be made and calibrate your hardware. (5.2. Calibration explains how the calibrations work.)

3.3. Steering Wheel Firmware

If you have steering wheels of the list below you should always connect them to the base after installing a new driver to check if a new firmware is available for them.

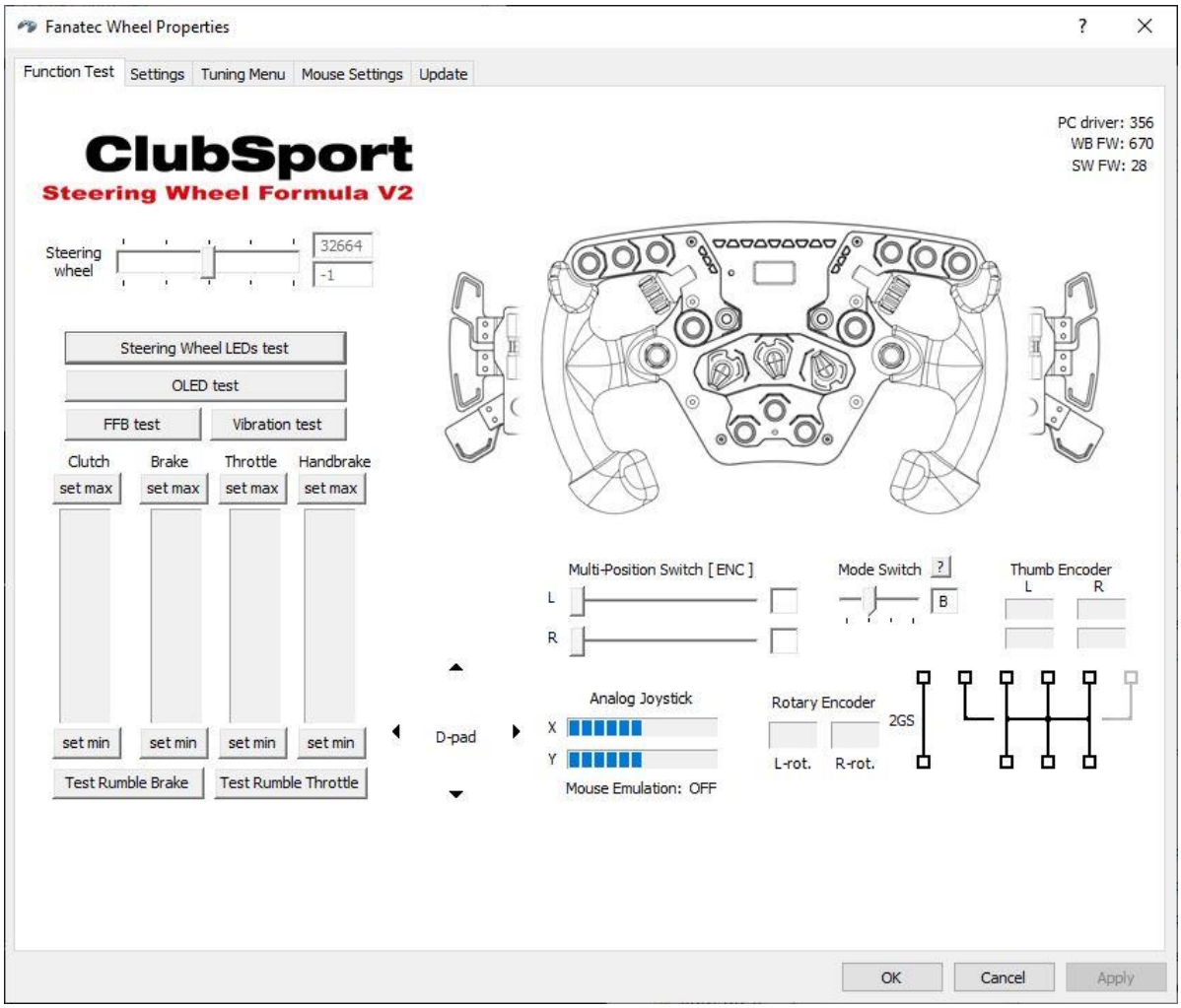
- CSL McLaren GT3
- ClubSport Steering Wheel Formula V2
- Podium Hub
- Podium Button Module Endurance

1. There are two ways a steering wheel firmware update can be initiated.
   - Accepting the pop-up message which advices to update the firmware.
   - "Update Wheel Steering Wheel Firmware" button on the Update tab.
2. Always keep an eye on the Instructions box which will also tell you what to do next.
3. Click "Connect".

4. The file is loaded automatically, no need to select one.
5. Click “Flash Firmware” which will start the process. (Do not turn off your base!)
6. The wheel base will restart automatically when the firmware is flashed (Do not touch the shaft or wheel while it rotates).
7. Again, keep an eye on the Instructions box as it will give important information on what should be done next after the update.
8. When the green progress bar is full, the Message Logs box shows “Firmware update completed successfully” and you can close the Updater window.
9. Always open the driver UI again after an update to make sure everything is working, check if additional updates must be made and calibrate your hardware.
   (5.2. Calibration explains how the calibrations work.)

Note: In case of the combination Podium Hub and Button Module Endurance, this needs to be done to each one of them. If you have issues updating the Podium Hub, disconnect the UBS-Type-C connector from the Button Module Endurance and reconnect it again after the firmware update of the Podium Hub.

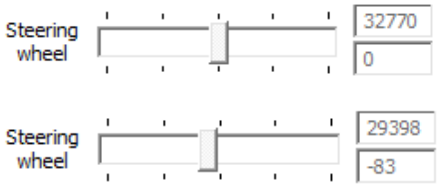
4. Function Test



On this tab you can test the functionality of hardware connected to the device you’ve chosen to open the driver UI. The look of this page varies depending on the connected hardware.

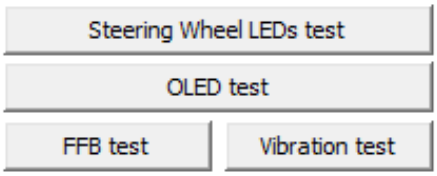
Note: Not all the following boxes are visible depending on the connected hardware.

Check Steering Wheel Center:



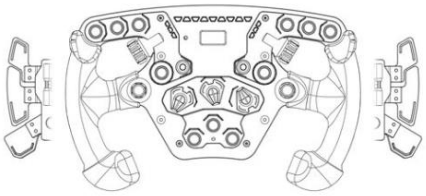
In the top left you see the current steering angle, the indicator gives you a rough overview and the number in the bottom right shows the exact degrees of rotation. If your steering wheel is in the middle the lower number should be “0”, if this is not the case, you can follow the calibration instructions of 5.2. Calibration to center the wheel.

Test LED, Display, FFB and Vibration:



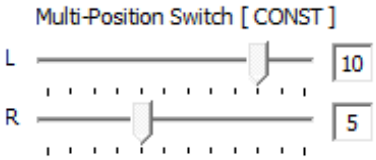
This will only be visible when a steering wheel is connected and varies with its features.
First button will light up lights of your steering wheel.
Second button will show a test animation on the display.
Third button will shake the wheel with FFB effects.
Fourth button will trigger the wheels vibration motors.

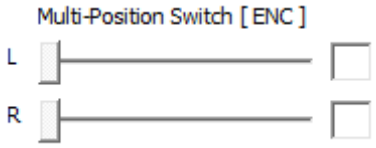
Test Steering Wheel Button Inputs:



Here you can test all standard button inputs. A blue dot will show the buttons or shifter paddles you operate on the picture of the steering wheel. Other, more complex inputs like rotary encoders, thumb encoders, Multi-Position-Switches, D-Pad, analog joysticks and your shifter can be tested below the picture.

Test Multi-Position-Switch:





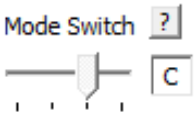
The mode the MPS is currently in is shown in the square brackets [“MODE”] (Modes can be adjusted in the Tuning Menu, details in the wheel quick guide).

In the modes [CONST] and [PULSE] the indicator and number show the current positions the left and right MPS are in.

In mode [ENC] the indicator is inactive and stays on the left. An input of the left or right MPS will be shown as a quick impulse in the two boxes on the right.

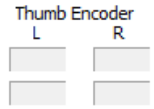
“+” if the MPS gets rotated to the right.
“-“ if the MPS gets rotated to the left.

Mode Switch:



The Mode Switch indicator and letter in the box show in which mode the analog paddles of the steering wheel are in. Details in the wheel quick guide.
A: Dual Clutch Bite Point Mode, both paddles are mapped to the clutch pedal.
B: Left paddle mapped to clutch pedal, right paddle mapped to handbrake.
C: Left paddle mapped to brake pedal, right paddle mapped to throttle pedal.
D: Botch axes replace the analog joystick and can be mapped freely in-game.

Thumb Encoder:

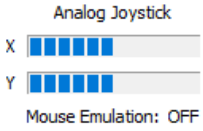


Here you can see the input of the left and right thumb encoder.
An input will be show as a blue square when you rotate them.
The upper boxes indicate a left rotation.
The lower boxes indicate a right rotation.

D-Pad:

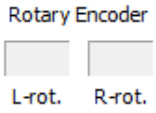
The D-pad arrows (up, down, left, right) change their color from black to blue when the corresponding direction is pressed on the D-Pad or FunkySwitch™ of the attached steering wheel.

Analog Joystick:



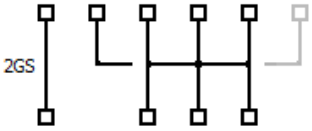
The analog stick of the steering wheel can be tested here.
X: Left and right movement.
Y: Up and down movement.
If the Mode Switch shows “D” this reacts to the analog clutch paddles.
The stick can be used to control the mouse, see 7. Mouse Emulation.

Rotary Encoder:



This shows the rotary encoder input of the FunkySwitch™. A blue square will be displayed in one of the two boxes if the FunkySwitch™ gets rotated left or right.

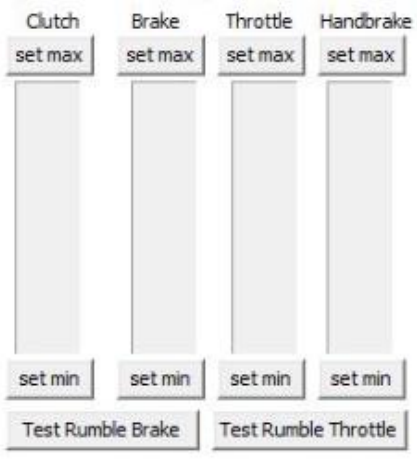
H-Pattern and Seq-Shifter:



2GS on the left shows input when the shifter is in sequential mode.

When in H-Pattern mode, the boxes of each gear will be filled in red to indicate the position of the shifter. If you experience issues here, you need to re-calibrate the shifter. Either refer to the quick guide or 5.2. Calibration.

Test and adjust pedals and handbrake:



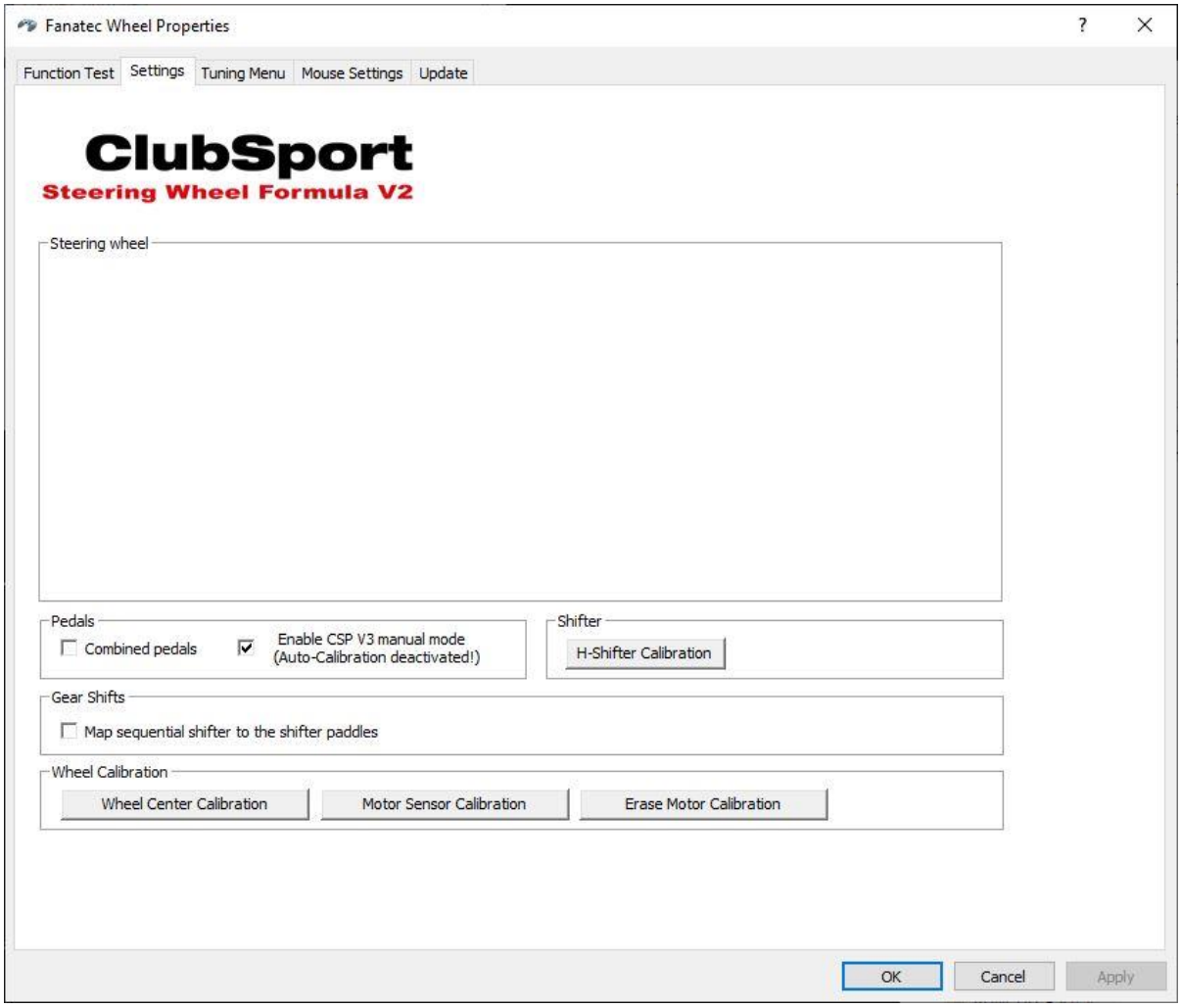
Blue bars raising from bottom to top show the input of clutch, brake, throttle and the handbrake.

If the Mode-Switch is in position A, B or C, inputs of the analog paddles on the steering wheel will be reflected here as well.

By default, the “set max” and “set min” buttons are not visible, and the pedals calibrate themselves. On the Settings tab of the driver UI the manual calibration can be activated which will then show the “set min” and “set max” buttons. This is described in 5. Settings.

On the bottom the vibration feature of brake and throttle pedal can be tested with test buttons.

5. Settings Tab



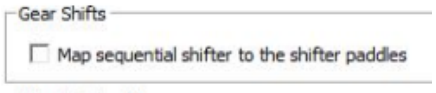
On this tab you can adjust settings (5.1.) and calibrate your hardware (5.2.) which is connected to the device you've chosen to open the driver UI. The look of this page varies depending on the connected hardware.

5.1. Settings

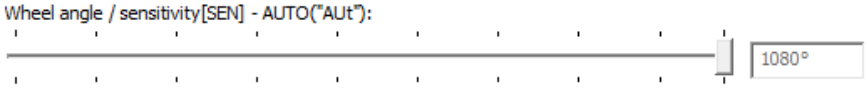
Note: Not all the following boxes are visible depending on the connected hardware.

Combined pedals will merge the throttle and brake pedal into one axis. This can be helpful to get compatibility for older games but is rarely needed.

Enable manual mode will deactivate the Auto-Calibration and add "set min" and "set max" buttons for each pedal and handbrake input (4. Function Test).



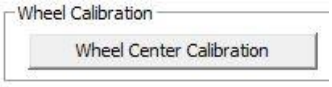
With this check box you can bind the sequential shifter inputs to the shifter paddles. Pushing the shifter will downshift, pulling on it will upshift.



Wheel bases like the CSL or CSW 1.0 which don't support access of the Tuning Menu within the driver allow to adjust the maximum steering angle with this setting. The Tuning menu setting SEN must be set to AUTO, otherwise this slide has no effect.

5.1. Calibration

Wheel Center Calibration:



After every wheel base firmware update the wheel center must be calibrated. Center the wheel, click on the button and confirm the message. The new center can be checked on the 4. Function Test tab.

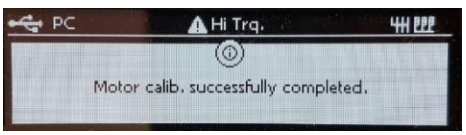
H-Shifter Calibration:

This button starts the shifter calibration which can also be done through a button combination on the steering wheel and is described in the full manual.

Follow the instructions step by step until the shifter is calibrated. Tipp: For best result let go the shifter after each shift into the next gear before you press "Next".

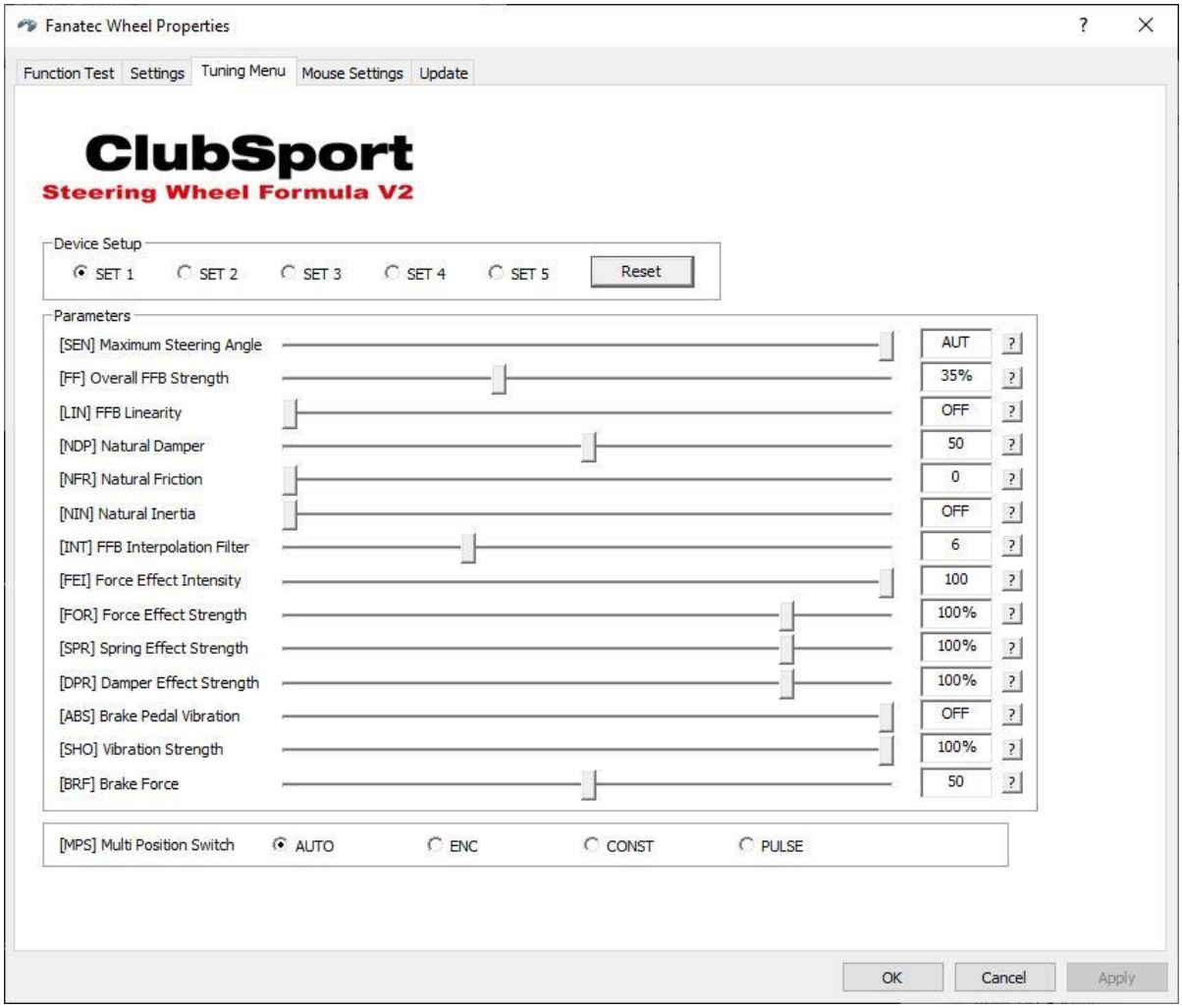
DD Motor Sensor Calibration:

After every wheel base motor firmware update of a Podium DD the Motor Sensor Calibration must be done to make sure steering feels as smooth as possible.



Before the calibration you must remove the steering wheel, then run the calibration which will rotate the steering axis slowly from side to side. A message on the DDs display will inform that the calibration is completed.

6. Tuning Menu



On this tab you can adjust the Tuning Menu settings which are available on your steering wheel as well. Just like on the wheel display these settings vary with the detected hardware combination.

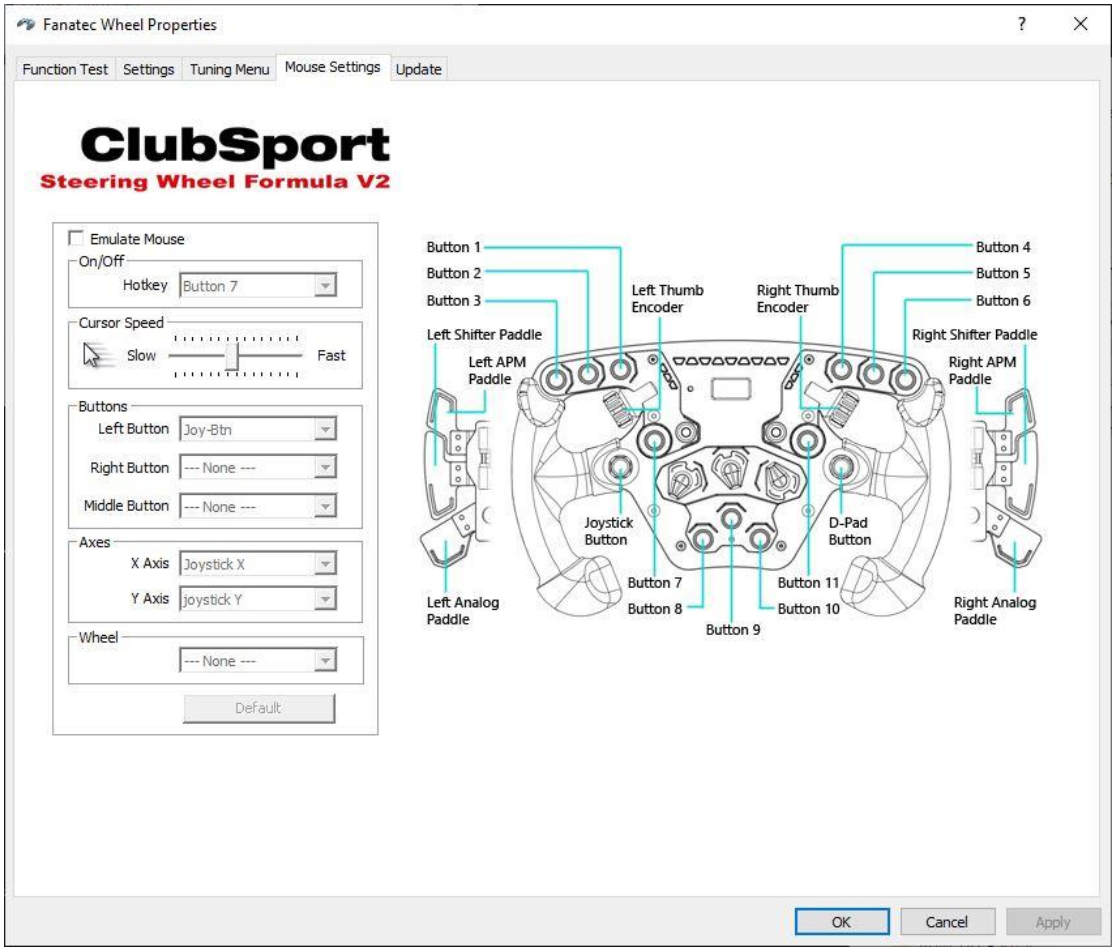
Click on the question mark next to a setting to get a description of what it does. Additional information you can find in the product's quick guides and manuals.

The sliders are automatically synced with the settings on the wheel base. If you either move a slider in the driver or change the setting through the steering wheel, the other will instantly mirror the change, no need to "Apply" the settings.

Up to 5 individual collections of settings can be saved on the wheel base.

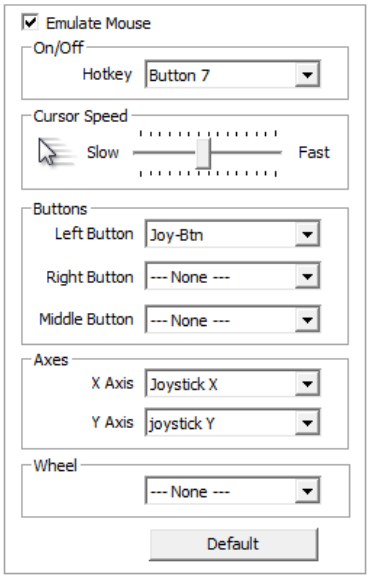
With the "Reset" button all settings are reverted to the factory default!

7. Mouse Settings



Important: Only available with a steering wheel that features an analog joystick!

Note: In case you have a steering wheel with the Advanced Paddle Module mounted, you can't use Mode D for the analog paddles as they overwrite the joystick axes and conflict with the mouse functionality. Either use Mode A, B, C or disable mouse emulation. Modes are described in 4. Function Test under "Mode Switch".



Check the upper box to enable mouse emulation.

You can select a hot key button to enable/disable emulation.

Cursor Speed adjusts how fast the mouse will be moved.

In this field you can select the buttons which result in inputs of the left, middle and right mouse buttons. The steering wheels picture on the right shows the corresponding button numbers.

By default, the mouse follows left/right and up/down of the joystick, but this can be changed here if needed.

Rotation of the FunkySwitch™ can be used as the mouse wheel.

The Default button will reset everything.

8. Troubleshooting

8.1. Device not visible or Driver UI doesn't open

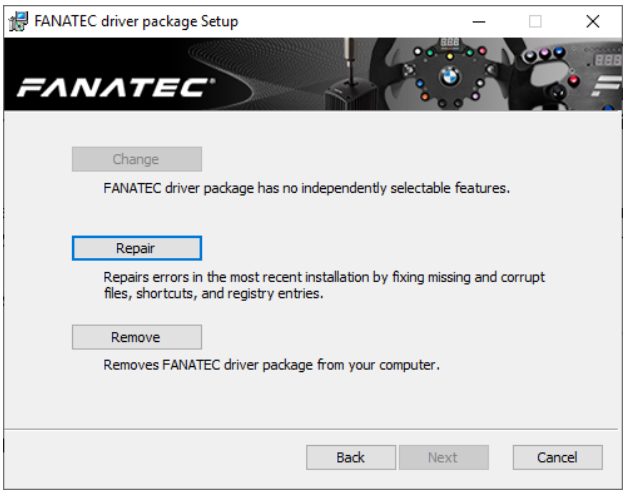
Note: Usually not all the steps below have to be done to solve the issue.
The suggestions are listed in order from starting with the easiest and quickest way.
If one did not work to solve the issue, proceed with the next one. If nothing of the below helped to fix it, please contact our Support team through the website.

Possible solutions:

- Is the wheel base in PC mode? Switch modes by using the mode button (if the base has one) or button combination on the steering wheel. Look at the instructions of the base and steering wheel if you don't know how to change modes.

- Re-plug the USB cable or use a different USB port. Check if it's working with the main USB ports of the mainboard as some front-USB, extensions or hubs might create problems.

- Use the repair function of the driver installer.
  1. Make sure the device is connected to the PC, switched ON and in PC mode (wheel base).
  2. Start the same installer you've used before to install the driver.
  3. Click "Next".
  4. Click "Repair".
  5. Click "Repair" again.
  6. Accept the Administrator message with "Yes" if needed.
  7. Click "Finish".
  8. A pop-up message will prompt to restart your PC, click "Yes".



- Manually update the USB device driver using the device manager of Windows.
  1. Press the windows key on your keyboard, type in "Device Manager" and press Enter.
  2. Look for an " Unknown Device" with a yellow exclamation mark (usually at the top). By unplugging and re-plugging USB you can make sure it's the device you want to fix.
  3. Right click on " Unknown Device" and choose "Update driver".
  4. Choose "Browse my computer for driver software".
  5. Browse the folder: C:\Program Files\Fanatec\Fanatec Wheel.
  6. Click on "Next".
  7. Restart your Computer.
  8. Check again in the device manager if there is another Fanatec device with a yellow exclamation mark, if yes repeat the process.

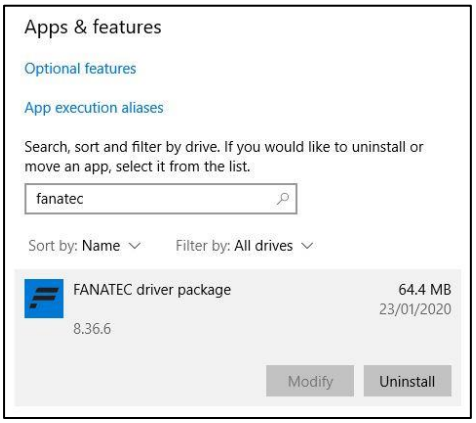
- If nothing of the above worked, revert to a previous driver/firmware which worked before, the necessary steps are explained in 8.2. below.

8.2. Reverting to older driver/firmware

If you experience a new issue you didn't have before you can go back to previous driver and firmware which didn't have this issue. If multiple driver and firmware version don't help to solve the issue contact Support as they know if this might be a hardware issue which needs to be solved by our repair team.

Delete the current driver:

1. Press the windows key on your keyboard, type in "Apps & features" and press Enter.
2. Type "Fanatec" into the search bar.
3. Look for "FANATEC driver package".
4. Click on "Uninstall" and follow the process until the driver is uninstalled successfully.



Install a previous driver:

If you don't have an earlier version which worked for you before, older drivers can be found on the product page or also on the Fanatec forum under "Fanatec Software" and "Beta Drivers" (there are also non beta drivers listed).

Install the driver as usual which is described in 1. Driver Installation of this manual.

Downgrade the firmware versions:

1. Open the driver UI like described in 2.1. of this manual.
2. Go to the Update tab of the driver.
3. Click on the Update button of the firmware you want to downgrade.
4. Accept the pop-up message with Yes.
5. Follow the instructions of 3. Firmware Update.
6. Repeat this for the other firmware versions as well.