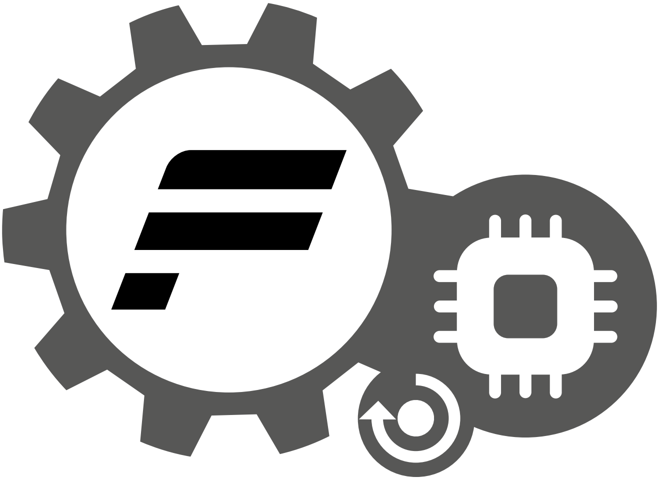
FANATEC®

Driver & Firmware Instructions



Manual

Rev. 02

Thank you for choosing

FANATEC®

To get the most out of your FANATEC® gear, please read this manual before use.

IMPORTANT: For additional or device specific instructions, read the full manual available on each product page.

Please read the “changelog.txt” file which is located in the extracted driver folder 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.

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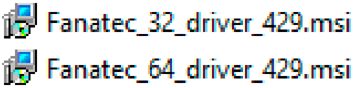
1 DRIVER INSTALLATION

1.1 CHOOSING THE CORRECT FILE

IMPORTANT: A Windows based PC is mandatory!

The zip-file includes two installation files:



Fanatec_32_driver_429.msi
Fanatec_64_driver_429.msi

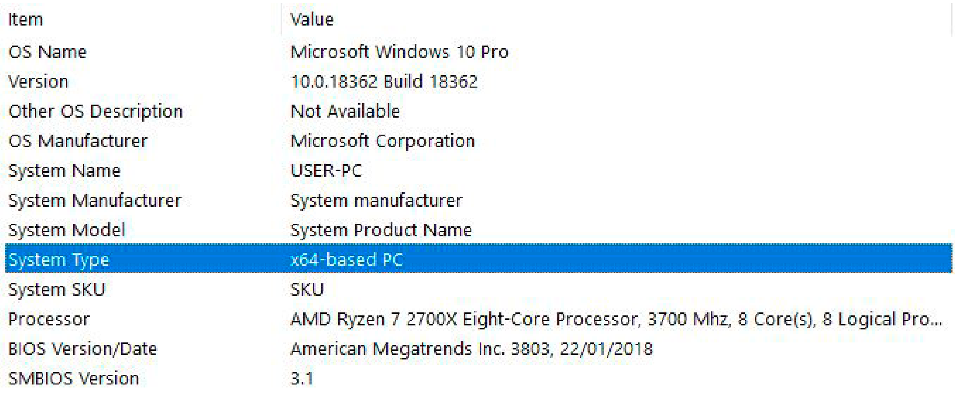
The first number stands for which operating system the driver is meant: 32-bit or 64-bit. The last number refers to the version number of the driver.

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

1. Press the Windows Key on your keyboard ⊞.
2. Type: ‘system information’, then press enter.
3. Search for the line named, ‘System Type’.

   x86 = 32-bit

   x64 = 64-bit



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

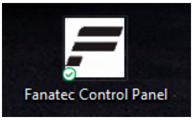
1. Initialise the correct file > Run the executable file chosen in 1.1 with the help of the information above > Execute the correct application with the help of the information above.
2. Select ‘Next’.
3. Read and accept the License Agreement, then select ‘Next’.
4. Select ‘Next’ or choose a different folder if you prefer.
5. Select ‘Install’ and accept the pop-up message that might appear.
6. Select ‘Finish’.
7. A message will appear prompting a Windows restart which will complete the installation. It is recommended to restart your PC immediately.

If you encounter any issues, refer to section ‘9. Troubleshooting’ in this manual.

2 DRIVER UI & FUNCTIONS

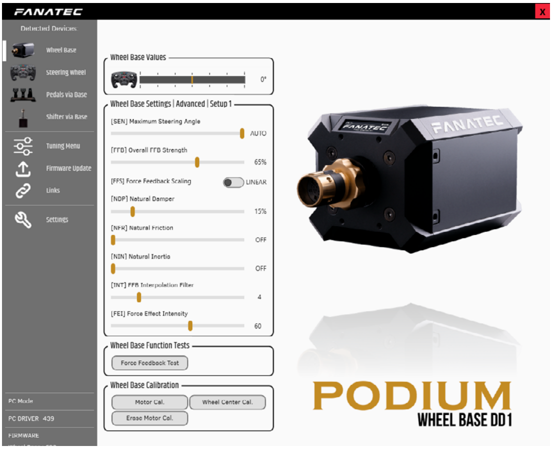
2.1 OPEN DRIVER UI

To access the driver UI (user interface), the device needs to be connected to a PC via USB and the wheel base needs to be in PC Mode (refer to the device’s manual regarding mode changing).



The driver UI can be accessed through the desktop shortcut, ‘Fanatec Control Panel’. Or alternatively by using the Windows key on your keyboard and typing in ‘USB-Gamecontroller’.

2.2 WHEEL BASE


FANATEC
Detected Devices:
Wheel Base
Steering wheel
Pedals via Base
Shifter via Base
Tuning Menu
Firmware Update
Links
Settings
PC Mode
PC DRIVER 439
FIRMWARE
Wheel Base Values
Wheel Base Function Tests
Force Feedback Test
Wheel Base Calibration
Motor Cal.
Wheel Center Cal.
Erase Motor Cal.
PODIUM
WHEEL BASE DD1

Wheel Base Values: 0°

Wheel Base Settings | Advanced | Setup 1
[SEN] Maximum Steering Angle AUTO
[FFB] Overall FFB Strength 65%
[FFS] Force Feedback Scaling LINEAR
[NDP] Natural Damper 15%
[NFR] Natural Friction OFF
[NIN] Natural Inertia OFF
[INT] FFB Interpolation Filter 4
[FEI] Force Effect Intensity 60

Wheel Base Values:
Shows the wheel base shaft degrees of rotation illustrated by an icon of the attached steering wheel.

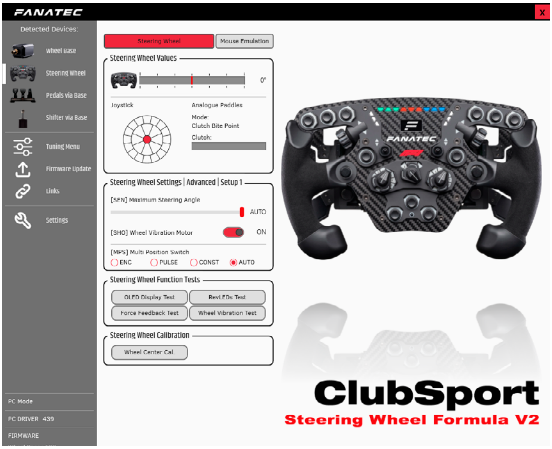
Wheel Base Settings:
Provides basic tuning parameters for the selected Tuning Menu mode (Standard / Advanced) and setup profile.

Wheel Base Function Tests:
Normally for only testing force feedback. Wheel Base dependent.

Wheel Base Calibration:
Option to calibrate the motor and wheel centre as well as erase the motor calibration.

NOTE: Feature sets and available options may differ depending on your specific Fanatec wheel base.

2.3 STEERING WHEEL


FANATEC
Detected Devices:
Wheel Base
Steering Wheel
Pedals via Base
Shifter via Base
Tuning Menu
Firmware Update
Links
Settings
PC Mode
PC DRIVER 439
FIRMWARE
Steering Wheel
Mouse Emulation
Steering Wheel Values
Joystick
Analogue Paddles
Steering Wheel Function Tests
OLED Display Test
RevLEDs Test
Force Feedback Test
Wheel Vibration Test
Steering Wheel Calibration
Wheel Center Cal.
FANATEC
ClubSport
Steering Wheel Formula V2

Steering Wheel Values: 0°

Mode:
Clutch Bite Point
Clutch:

Steering Wheel Settings | Advanced | Setup 1
[SEN] Maximum Steering Angle AUTO
[SHO] Wheel Vibration Motor ON
[MPS] Multi Position Switch ○ ENC ○ PULSE ○ CONST ● AUTO

Steering Wheel Values:
Shows the steering wheel degrees of rotation and additional functions such as real-time joystick positioning depending on the attached steering wheel.

Steering Wheel Settings:
Provides various options for the selected Tuning Menu mode (Standard / Advanced) and setup profile.

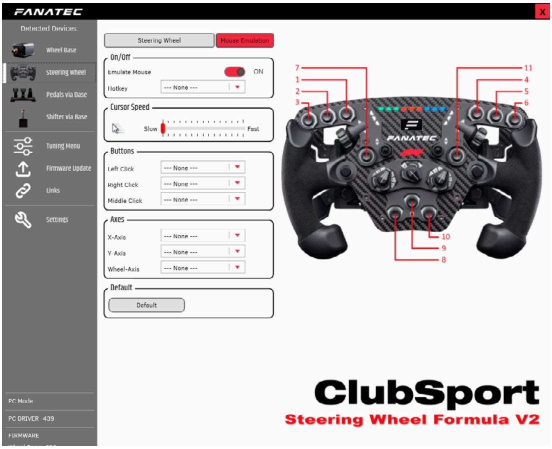
Steering Wheel Function Tests:
Options to test various functions. Steering Wheel dependent.

Steering Wheel Calibration:
Option to calibrate the wheel centre.

Function Test:
The functionality of the connected hardware can be tested such as button, encoder, and multi-position switches on the connected steering wheel as well as attached paddle modules. Activations will be highlighted on the image. The image will vary depending on the connected hardware.

NOTE: Feature sets and available options may differ depending on your specific Fanatec steering wheel.

2.4 MOUSE EMULATION


FANATEC
Detected Devices:
Wheel Base
Steering Wheel
Pedals via Base
Shifter via Base
Tuning Menu
Firmware Update
Links
Settings
PC Mode
PC DRIVER 439
FIRMWARE
Steering Wheel
Mouse Emulation
On/Off
Cursor Speed
Buttons
Axes
Default
7
1
2
3
11
4
5
6
10
9
8
ClubSport
Steering Wheel Formula V2

Emulate Mouse ON

Hotkey --- None ---

Cursor Speed: Slow – Fast

Left Click --- None ---

Right Click --- None ---

Middle Click --- None ---

X-Axis --- None ---

Y-Axis --- None ---

Wheel-Axis --- None ---

Default

NOTE: Feature sets and available options may differ depending on your specific Fanatec steering wheel.

On / Off:
Shows the steering wheel degrees of rotation and additional functions such as real-time joystick positioning depending on the attached steering wheel.

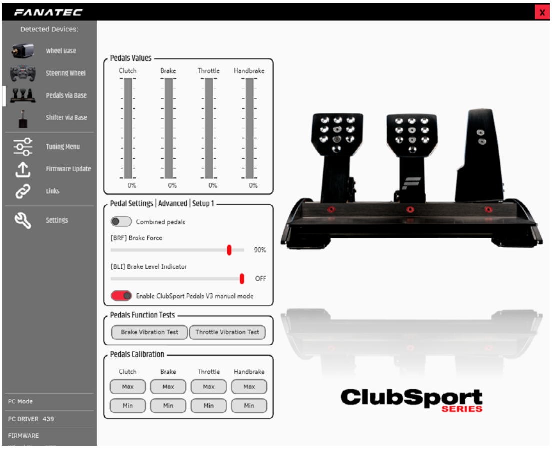
Cursor Speed:
Provides the Sensitivity parameter for the selected Tuning Menu mode (Standard / Advanced) and setup profile.

Buttons:
Options to test various functions. Steering Wheel dependent.

Axes:
Option to calibrate the wheel centre.

Default:
Reset to original settings.

2.5 PEDALS


FANATEC
Detected Devices:
Wheel Base
Steering Wheel
Pedals via Base
Shifter via Base
Tuning Menu
Firmware Update
Links
Settings
PC Mode
PC DRIVER 439
FIRMWARE
Pedals Values
Pedals Function Tests
Brake Vibration Test
Throttle Vibration Test
Pedals Calibration
Max
Min
ClubSport
SERIES

Pedals Values: Clutch 0% | Brake 0% | Throttle 0% | Handbrake 0%

Pedal Settings | Advanced | Setup 1

Combined pedals (off)

[BRF] Brake Force 90%

[BLI] Brake Level Indicator OFF

Enable ClubSport Pedals V3 manual mode (on)

Pedals Calibration: Clutch | Brake | Throttle | Handbrake

NOTE: All options below ‘Combined pedals’ are only available if a pedal set featuring a load cell brake is connected. Feature sets and available options may differ depending on your specific set of Fanatec pedals.

Pedals Values:
Shows the minimum to maximum value of each pedal as they are physically pressed through the travel range. If a handbrake is connect this will be displayed as well.

Pedal Settings:

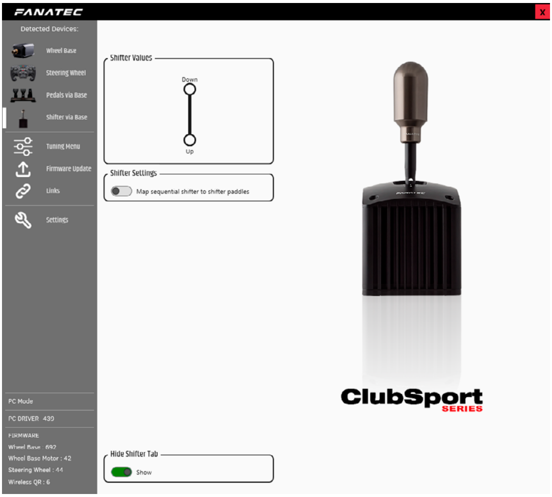
- Provides the option to combined pedals.
- Provides the option to switch the Brake Level Indicator ON or OFF.
- Brake Force parameter for the selected Tuning Menu mode (Standard / Advanced) and setup profile.
- The option to enable manual mode

Pedals Function Tests:
Provides the option to test brake and throttle vibration motors.

Pedals Calibration:
Option to manually set the minimum ‘Min’ and maximum ‘Max’ values. Brake Force determines the ‘Max’ value for the brake.

2.6 SHIFTER

SEQ Mode


FANATEC
x
Detected Devices:
Wheel Base
Steering Wheel
Pedals via Base
Shifter via Base
Tuning Menu
Firmware Update
Links
Settings
Shifter Values
Down
Up
Shifter Settings
Hide Shifter Tab
ClubSport
SERIES

○ Map sequential shifter to shifter paddles

● Show

PC Mode

PC DRIVER 439

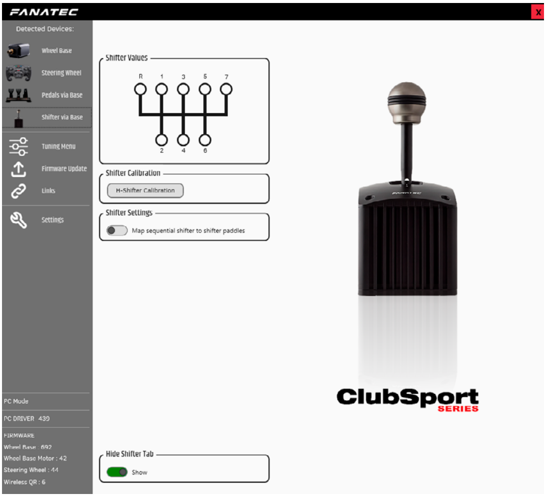
FIRMWARE
Wheel Base : 692
Wheel Base Motor : 42
Steering Wheel : 44
Wireless QR : 6

Shifter Values:
Shows the sequential activation location.

Shifter Settings:
Provides the option to map the shifter in sequential mode to the shifters paddles of your steering wheel.

Hide Shifter Tab:
Provides the option to show or hide the shifter tab if desired.

H-Pattern Mode


FANATEC
x
Detected Devices:
Wheel Base
Steering Wheel
Pedals via Base
Shifter via Base
Tuning Menu
Firmware Update
Links
Settings
Shifter Values
R
1
3
5
7
2
4
6
Shifter Calibration
H-Shifter Calibration
Shifter Settings
Hide Shifter Tab
ClubSport
SERIES

○ Map sequential shifter to shifter paddles

● Show

PC Mode

PC DRIVER 439

FIRMWARE
Wheel Base : 692
Wheel Base Motor : 42
Steering Wheel : 44
Wireless QR : 6

Shifter Values:
Shows the H-pattern activation location.

Shifter Calibration:
Provides the option to calibrate the shifter in H-pattern mode.

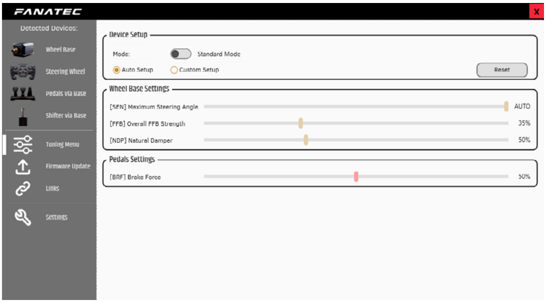
Shifter Settings:
Provides the option to map the shifter in sequential mode to the shifters paddles of your steering wheel.

Hide Shifter Tab:
Provides the option to show or hide the shifter tab if desired.

3 TUNING MENU

3.1 STANDARD MODE

Auto Setup


FANATEC
X
Detected Devices:
Wheel Base
Steering Wheel
Pedals via Base
Shifter via Base
Tuning Menu
Firmware Update
Links
Settings
Reset

Device Setup

Mode: Standard Mode

● Auto Setup ○ Custom Setup

Wheel Base Settings

[SEN] Maximum Steering Angle AUTO

[FFB] Overall FFB Strength 35%

[NDP] Natural Damper 50%

Pedals Settings

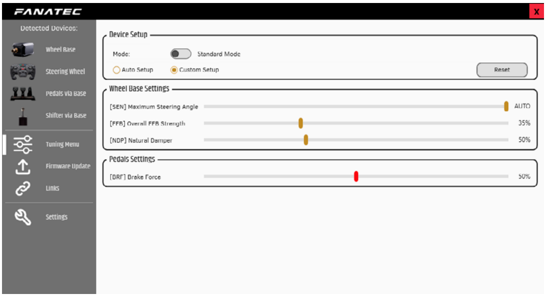
[BRF] Brake Force 50%

Device Setup:
Selecting ‘Auto Setup’ will disable user control over tuning parameters and allow game specific control over tuning parameters. If not supported by the game, tuning parameters will remain at default values.

Wheel Base Settings:
Provides a real-time visual of the most essential tuning parameters with slightly adjusted ranges.

Pedal Settings:
Provides access to the Brake Force parameter.

Custom Setup


FANATEC
X
Detected Devices:
Wheel Base
Steering Wheel
Pedals via Base
Shifter via Base
Tuning Menu
Firmware Update
Links
Settings
Reset

Device Setup

Mode: Standard Mode

○ Auto Setup ● Custom Setup

Wheel Base Settings

[SEN] Maximum Steering Angle AUTO

[FFB] Overall FFB Strength 35%

[NDP] Natural Damper 50%

Pedals Settings

[BRF] Brake Force 50%

Device Setup:
Selecting ‘Custom Setup’ will enable user control over tuning parameters.

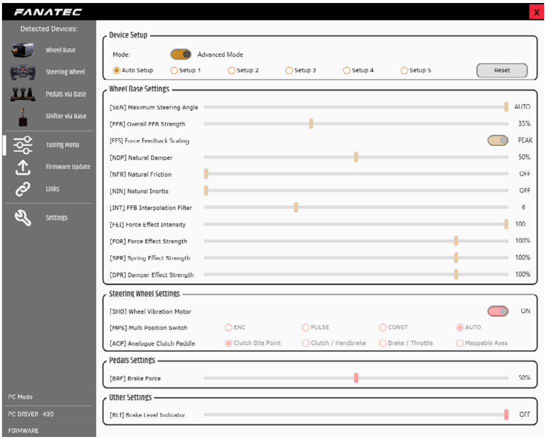
Wheel Base Settings:
Provides a real-time visual of and access to the most essential tuning parameters with slightly adjusted ranges.

Pedal Settings:
Provides access to the Brake Force parameter.

NOTE: ‘Brake Force’ is only available if a pedal set featuring a load cell brake is connected. Feature sets and available option may differ depending on your specific set of Fanatec pedals.

3.2 ADVANCED MODE

Auto Setup


FANATEC
X
Detected Devices:
Wheel Base
Steering Wheel
Pedals via Base
Shifter via Base
Tuning Menu
Firmware Update
Links
Settings
PC Mode
PC DRIVER 439
FIRMWARE
Reset

Device Setup
Mode: Advanced Mode
● Auto Setup ○ Setup 1 ○ Setup 2 ○ Setup 3 ○ Setup 4 ○ Setup 5

Wheel Base Settings
[SEN] Maximum Steering Angle AUTO
[FFB] Overall FFB Strength 35%
[FFS] Force Feedback Scaling PEAK
[NDP] Natural Damper 50%
[NFR] Natural Friction OFF
[NIN] Natural Inertia OFF
[INT] FFB Interpolation Filter 6
[FEI] Force Effect Intensity 100
[FOR] Force Effect Strength 100%
[SPR] Spring Effect Strength 100%
[DPR] Damper Effect Strength 100%

Steering Wheel Settings
[SHO] Wheel Vibration Motor ON
[MPS] Multi Position Switch ○ ENC ○ PULSE ○ CONST ● AUTO
[ACP] Analogue Clutch Paddle ● Clutch Bite Point ○ Clutch / Handbrake ○ Brake / Throttle ○ Mappable Axes

Pedals Settings
[BRF] Brake Force 50%

Other Settings
[BLI] Brake Level Indicator OFF

Device Setup:
Selecting 'Auto Setup' will disable user control over tuning parameters and allow game specific control over tuning parameters. If not supported by the game, tuning parameters will remain at default values.

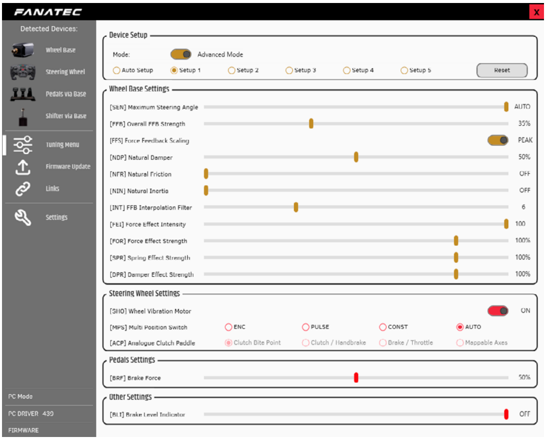
Wheel Base Settings:
Provides a real-time visual of all tuning parameters.

Steering Wheel Settings:
Provides a real-time visual of various options for the attached steering wheel.

Pedal Settings:
Provides a visual of the Brake Force parameter.

Other Settings:
Provides a visual of the Brake Level Indicator parameter.

Setup Profiles


FANATEC
X
Detected Devices:
Wheel Base
Steering Wheel
Pedals via Base
Shifter via Base
Tuning Menu
Firmware Update
Links
Settings
PC Mode
PC DRIVER 439
FIRMWARE
Reset

Device Setup
Mode: Advanced Mode
○ Auto Setup ● Setup 1 ○ Setup 2 ○ Setup 3 ○ Setup 4 ○ Setup 5

Wheel Base Settings
[SEN] Maximum Steering Angle AUTO
[FFB] Overall FFB Strength 35%
[FFS] Force Feedback Scaling PEAK
[NDP] Natural Damper 50%
[NFR] Natural Friction OFF
[NIN] Natural Inertia OFF
[INT] FFB Interpolation Filter 6
[FEI] Force Effect Intensity 100
[FOR] Force Effect Strength 100%
[SPR] Spring Effect Strength 100%
[DPR] Damper Effect Strength 100%

Steering Wheel Settings
[SHO] Wheel Vibration Motor ON
[MPS] Multi Position Switch ○ ENC ○ PULSE ○ CONST ● AUTO
[ACP] Analogue Clutch Paddle ● Clutch Bite Point ○ Clutch / Handbrake ○ Brake / Throttle ○ Mappable Axes

Pedals Settings
[BRF] Brake Force 50%

Other Settings
[BLI] Brake Level Indicator OFF

Device Setup:
Selecting a setup profile (Setup 1 to 5) will enable full user control over tuning parameters.

Wheel Base Settings:
Provides a real-time visual of and access to all tuning parameters.

Steering Wheel Settings:
Provides a real-time visual of and access to various options for the attached steering wheel.

Pedal Settings:
Provides access to the Brake Force parameter.

Other Settings:
Provides access to the Brake Level Indicator parameter.

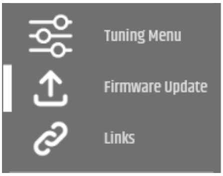
NOTE: Feature sets and available options may differ depending on your specific Fanatec hardware configuration.

4 FIRMWARE UPDATE

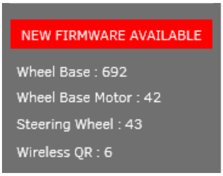
Each driver contains firmware for the following hardware:

- Wheel Bases
- Selected Steering Wheels
- USB Pedals (via USB)
- ClubSport USB Adaptor

IMPORTANT: You should always connect your steering wheels to your wheel base after installing a new driver to check if a firmware update is available.


Tuning Menu
Firmware Update
Links

When firmware updates are available for connected hardware, navigate to the ‘Firmware Update’ tab to view firmware details and available updates for each device.


NEW FIRMWARE AVAILABLE

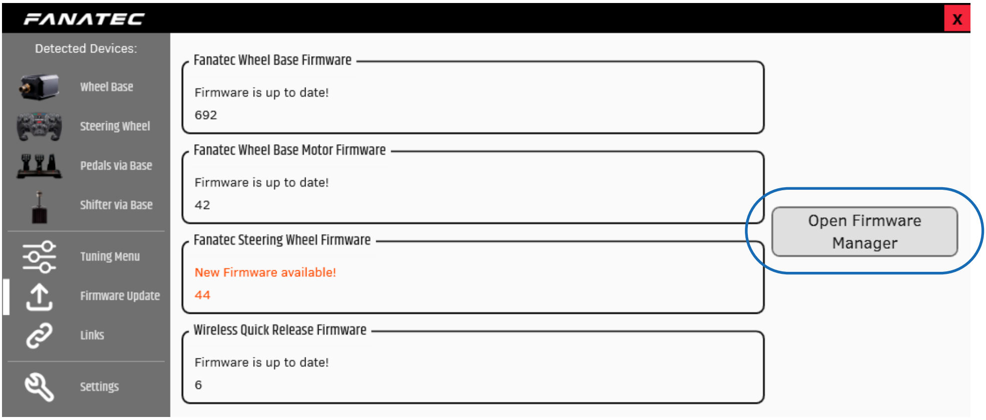
Wheel Base : 692

Wheel Base Motor : 42

Steering Wheel : 43

Wireless QR : 6

Additionally, when firmware updates are available for connected hardware it will be clearly indicated in the bottom-left corner of the driver UI. You will be navigated to the ‘Firmware Update’ tab by clicking on the notification.


FANATEC
X
Detected Devices:
Wheel Base
Steering Wheel
Pedals via Base
Shifter via Base
Tuning Menu
Firmware Update
Links
Settings
Open Firmware Manager

Fanatec Wheel Base Firmware

Firmware is up to date!

692

Fanatec Wheel Base Motor Firmware

Firmware is up to date!

42

Fanatec Steering Wheel Firmware

New Firmware available!

44

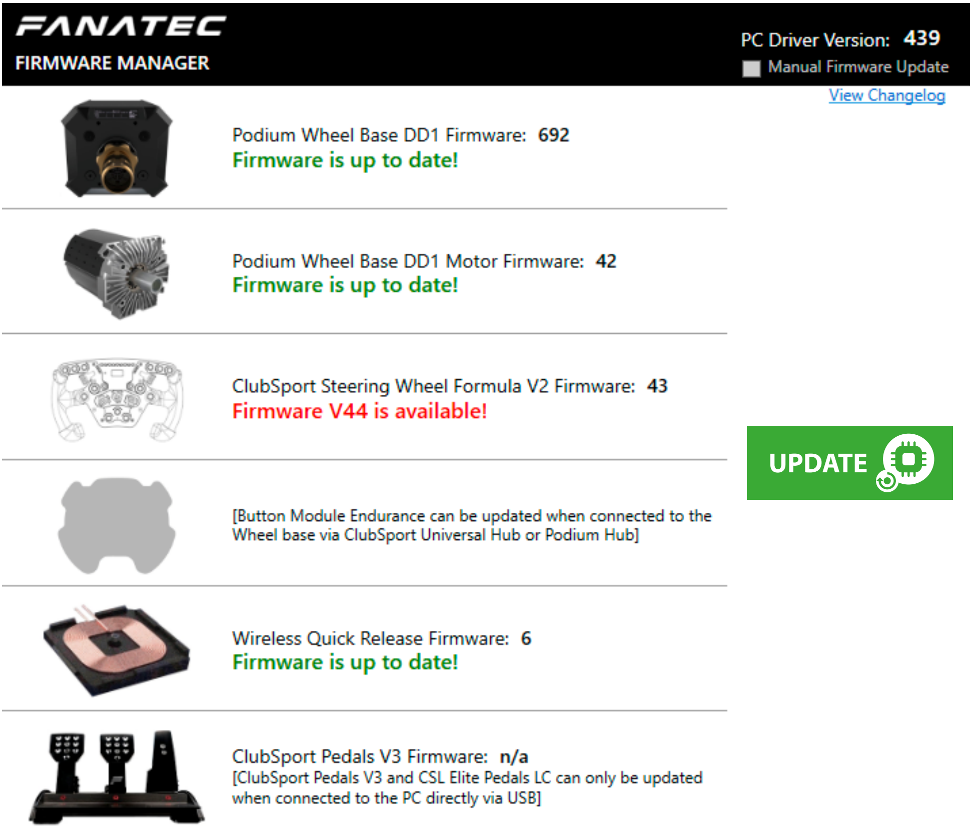
Wireless Quick Release Firmware

Firmware is up to date!

6

Select ‘Open Firmware Manager’ to proceed with initiating firmware updates.

The available firmware updates will be displayed based on your hardware configuration:



PC Driver Version: **439**
☐ Manual Firmware Update

Podium Wheel Base DD1 Firmware: **692**
Firmware is up to date!

Podium Wheel Base DD1 Motor Firmware: **42**
Firmware is up to date!

ClubSport Steering Wheel Formula V2 Firmware: **43**
Firmware V44 is available!

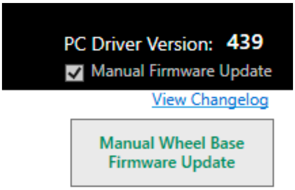
[Button Module Endurance can be updated when connected to the Wheel base via ClubSport Universal Hub or Podium Hub]

Wireless Quick Release Firmware: **6**
Firmware is up to date!

ClubSport Pedals V3 Firmware: **n/a**
[ClubSport Pedals V3 and CSL Elite Pedals LC can only be updated when connected to the PC directly via USB]

NOTE: Firmware can be updated manually by clicking on ‘Manual Firmware Update’.

For advanced users only! Risks include hardware damage and permanent bricking of the device.

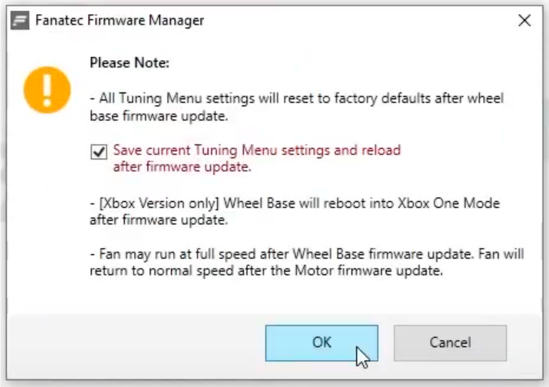


PC Driver Version: **439**
☑ Manual Firmware Update

NOTE: When combining the Podium Hub and Button Module Endurance, you may experience issues updating each device’s firmware. If you do, disconnect the Button Module Endurance connector from the Podium Hub and reconnect it after the firmware update of the Podium Hub. Firmware updates can be done through the driver when using a ClubSport USB Adapter connected directly to a PC via USB.

Simply select on ‘Update’ to start the firmware updating process:

The firmware manager will guide you through all necessary steps in order to update the firmware your Fanatec hardware:


Fanatec Firmware Manager

Please Note:

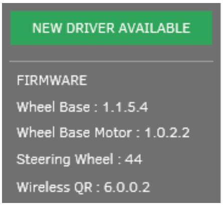
- All Tuning Menu settings will reset to factory defaults after wheel base firmware update.

☑ Save current Tuning Menu settings and reload after firmware update.

- [Xbox Version only] Wheel Base will reboot into Xbox One Mode after firmware update.

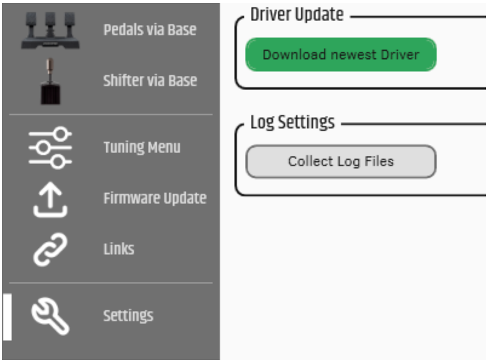
- Fan may run at full speed after Wheel Base firmware update. Fan will return to normal speed after the Motor firmware update.

5 DRIVER UPDATE


NEW DRIVER AVAILABLE

FIRMWARE
Wheel Base : 1.1.5.4
Wheel Base Motor : 1.0.2.2
Steering Wheel : 44
Wireless QR : 6.0.0.2

When driver updates are available it will be clearly indicated in the bottom-left corner of the driver UI.


Pedals via Base
Shifter via Base
Tuning Menu
Firmware Update
Links
Settings
Driver Update
Download newest Driver
Log Settings
Collect Log Files

To check for driver updates or download the newest available driver, navigate to the ‘Settings’ tab and select ‘Check for Update’, or ‘Download Newest Driver’ in the ‘Driver Update’ bar.

6 TROUBLESHOOTING

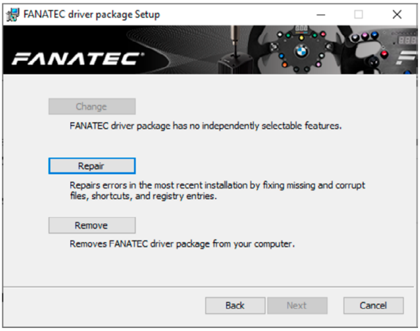
6.1 DEVICE NOT VISIBLE / DRIVER UI DOES NOT OPEN

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, 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 wheel base has one) or button combination on the steering wheel. Refer to the quick guide or manual of the wheel base and steering wheel if you do not know how to change modes.
- Unplug, then 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 add-on USB ports, 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 used to install the driver.
3. Select ‘Next’.
4. Select ‘Repair’.
5. Select ‘Repair’ again.
6. Accept the Administrator message with ‘Yes’ if needed.
7. Select ‘Finish’.
8. A pop-up message will prompt to restart your PC, Select ‘Yes’.



FANATEC driver package has no independently selectable features.

Repairs errors in the most recent installation by fixing missing and corrupt files, shortcuts, and registry entries.

Removes FANATEC driver package from your computer.

- Manually update the USB device driver using the device manager of Windows.

1. Press the Windows key ⊞ on your keyboard, type in ‘Device Manager’, then press Enter.
2. Look for an ‘⚠ Unknown Device’ with a yellow exclamation mark (usually at the top). By unplugging and re-plugging the USB cable, 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. Select ‘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.

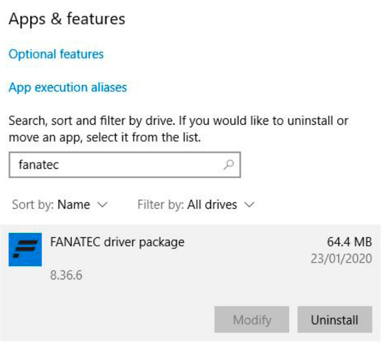
- If nothing of the above worked, revert to a previous driver / firmware which worked before, the necessary steps are explained in 6.2 below.

6.2 REVERTING TO OLDER DRIVER / FIRMWARE

If you are experiencing a new issue, you can revert to a previous driver / firmware which did not have the issue. If multiple driver and firmware versions do not help to solve the issue, contact our Support team. The issue may be hardware related and will need to be solved by our repair team.

Uninstalling 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. Select ‘Uninstall’ and follow the process to uninstall the driver successfully.



Apps & features

Search, sort and filter by drive. If you would like to uninstall or move an app, select it from the list.

fanatec

Sort by: Name

Filter by: All drives

FANATEC driver package 64.4 MB
23/01/2020
8.36.6

Install a previous driver:

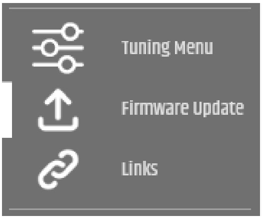
If you do not have an earlier version which worked for you before, older drivers can be found on the product page or on the Fanatec forum under ‘Fanatec Software’ and ‘Beta Drivers’ (there are also non beta drivers listed).

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

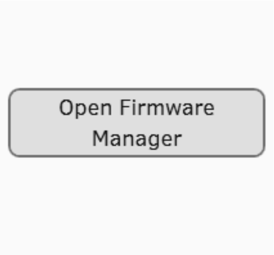
Reverting the firmware versions:

For advanced users only! Risks include hardware damage and permanent bricking of the device.

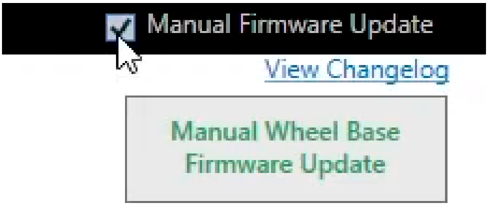
1. Open the driver user interface as described in chapter 4 of this manual.
2. Navigate to ‘Firmware Update’ in the navigation panel to the left:


Tuning Menu
Firmware Update
Links

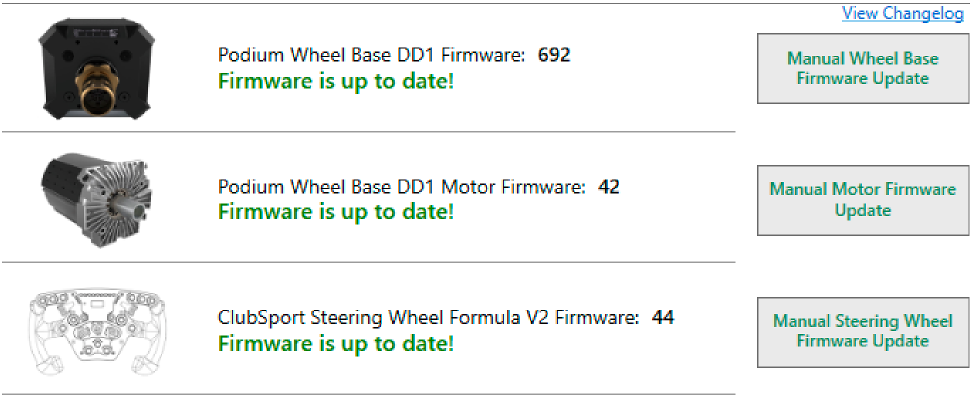
3. Select ‘Open Firmware Manager’:


Open Firmware Manager

4. Enable ‘Manual Firmware Update’:


☑ Manual Firmware Update
View Changelog
Manual Wheel Base Firmware Update

5. Select your desired hardware for which you want to perform the firmware reverting procedure:

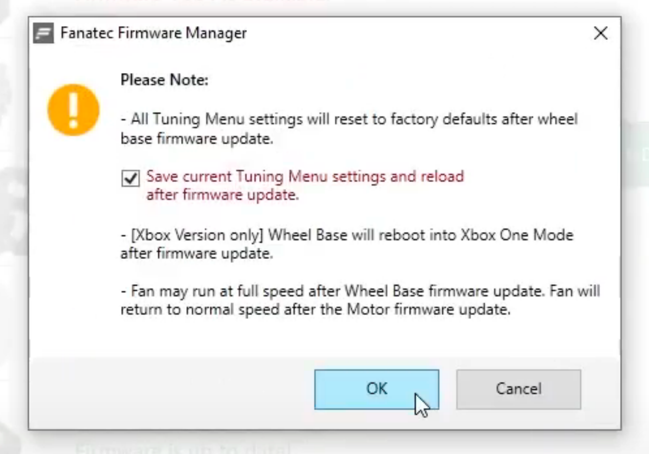

View Changelog
Manual Wheel Base Firmware Update
Manual Motor Firmware Update
Manual Steering Wheel Firmware Update

Podium Wheel Base DD1 Firmware: 692
Firmware is up to date!

Podium Wheel Base DD1 Motor Firmware: 42
Firmware is up to date!

ClubSport Steering Wheel Formula V2 Firmware: 44
Firmware is up to date!

6. The firmware manager will guide you through all necessary steps in order to revert the firmware version of your Fanatec hardware as guided when updating firmware:


Fanatec Firmware Manager
OK
Cancel

Please Note:

- All Tuning Menu settings will reset to factory defaults after wheel base firmware update.

☑ Save current Tuning Menu settings and reload after firmware update.

- [Xbox Version only] Wheel Base will reboot into Xbox One Mode after firmware update.

- Fan may run at full speed after Wheel Base firmware update. Fan will return to normal speed after the Motor firmware update.

7. Repeat this for the other firmware versions as well.