

FANATEC[®]

ClubSport

Wheel Base V2.5



Manual

Hello Realism Goodbye Toys



www.fanatec.com

Thank you for choosing
FANATEC[®]

To get the most out of and before using your new ClubSport Wheel Base V2.5, please read this manual for important information regarding your health and how to safely use this product. This manual can also be used as a great tool for future reference.

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 **WARNING!** Photosensitive Seizures

A very small percentage of people may experience a seizure when exposed to certain visual images, including flashing lights or patterns that may appear in video games. Even people who have no history of seizures or epilepsy may have an undiagnosed condition that can cause these „photosensitive epileptic seizures” while watching video games. These seizures may have a variety of symptoms, including light-headedness, altered vision, eye or face twitching, jerking or shaking of arms or legs, disorientation, confusion, or momentary loss of awareness. Seizures may also cause loss of consciousness or convulsions that can lead to injury from falling down or striking nearby objects. Immediately stop playing and consult a doctor if you experience any of these symptoms. Parents should watch for or ask their children about the above symptoms – children and teenagers are more likely than adults to experience these seizures.

The risk of photosensitive epileptic seizures may be reduced by taking the following precautions:

- Sit farther from the TV screen.
- Use a smaller TV screen.
- Play in a well-lit room.
- Do not play when you are drowsy or fatigued.

If you or any of your relatives have a history of seizures or epilepsy, consult a doctor before playing.

 **WARNING!** Musculoskeletal disorders

Use of game controllers, keyboards, mice, or other electronic input devices may be linked to serious injuries or disorders. When playing video games, as with many activities, you may experience occasional discomfort in your hands, arms, shoulders, neck, or other parts of your body. However, if you experience symptoms such as persistent or recurring discomfort, pain, throbbing, aching, tingling, numbness, burning sensation, or stiffness, **DO NOT IGNORE THESE WARNING SIGNS. PROMPTLY SEE A QUALIFIED HEALTH PROFESSIONAL**, even if symptoms occur when you are not playing a video game. Symptoms such as these can be associated with painful and sometimes permanently disabling injuries or disorders of the nerves, muscles, tendons, blood vessels, and other parts of the body. These musculoskeletal disorders (MSDs) include carpal tunnel syndrome, tendonitis, tenosynovitis, vibration syndromes, and other conditions.

While researchers are not yet able to answer many questions about MSDs, there is general agreement that many factors may be linked to their occurrence, including medical and physical conditions, stress and how one copes with it, overall health, and how a person positions and uses their body during work and other activities (including playing a video game). Some studies suggest that the amount of time a person performs an activity may also be a factor. If you have questions about how your own lifestyle, activities, or medical or physical condition may be related to MSDs, see a qualified health professional.

1

GENERAL

 **ATTENTION**

- The device must not be exposed to rain or humidity in order to avoid risk of fire and the danger of electric shock.
- Operating temperature: 15°C – 35°C room temperature
- The recommended operation time of the wheel with continuous force feedback activity is 1 hour. Let the wheel cool down for a few minutes before you continue.
- Long playing may cause health risks. Take a break of 5 minutes every 20 minutes, and do not play for more than 2 hours per day.
- We strongly advise you to not drive a vehicle immediately after using a video game.
- Utilization of the vibration and Force Feedback function may cause damage to your health.
- In case of interference with other wireless 2.4 GHz devices, the interfering devices must be removed or switched off.
- Not intended for children under the age of 6 years. Contains small pieces. Danger of swallowing!
- Do not open the casing of the device. Never power and/or operate the device with opened casing due to safety reasons
- This device contains components that cannot be repaired by the user, opening will void the warranty.

 **WARNING!** Electrical Safety

The ClubSport Wheel Base V2.5 must be connected to an appropriate power source:

- For the used ClubSport Wheel Base V2.5 use only the power supply and AC power cord that came with your ClubSport Wheel Base V2.5 or that you received from an authorized repair center.
- For the used ClubSport Wheel Base V2.5 do not use non-standard power sources, such as generators or inverters, even if the voltage and frequency appear acceptable. Only use AC power provided by a standard wall outlet.
- To avoid damaging the ClubSport Wheel Base V2.5:
Do not expose your ClubSport Wheel Base V2.5 to sources of heat.
- When connecting and / or disconnecting any Steering Wheel (e.g. Porsche 918 RSR or Universal Hub) to / from ClubSport Wheel Base V2.5 take care of the pins inside the quick release.
- Do not try to use the ClubSport Wheel Base with other Steering Wheels than Fanatec Steering Wheels.
- Do not try to use the ClubSport Wheel Base with an external power source different from the power supply packaged with the ClubSport Wheel Base V2.5 or received from authorized repair center.
- Unplug the power cord of your ClubSport Wheel Base V2.5 during storms or when unused for long periods of time to protect also your ClubSport Wheel Base V2.5.
- If the ClubSport Wheel Base V2.5 becomes damaged in any way, stop using it immediately and contact Fanatec Customer Support.



GENERAL NOTES

- Fanatec Steering Wheels like the BMW M3 GT2, the Formula Black and Formula Carbon, the Porsche 918 RSR, the Universal Hub and others which might be mentioned in this manual are not included within the ClubSport Wheel Base package and sold separately.
- Additional peripheral devices like shifters, pedals, LED displays and others which might be mentioned in this manual are not included within the ClubSport Wheel Base package and sold separately.
- This manual explains a lot about assembly, connections and functions related to Fanatec Steering Wheels, other additional peripheral devices and also about PC or console (e.g. Xbox One) functionalities but this manual is not a replacement for the manuals corresponding to the products! Read the quick guides or user manuals for the other products as well!
- All specifications in this document are subject to change. Especially the ClubSport Wheel Base firmware, the motor driver firmware or the PC driver might be changed or updated to implement new features or for general improvements.
- The warranty does not include defects that are due to commercial use of the product. See chapter “Warranty” at the end of this user manual as well as the terms & conditions on www.fanatec.com for more details.

2

INTRODUCTION

You have purchased an innovative product which enables you to use different steering wheels in simracing. The ClubSport Wheel Base V2.5 provides high steering accuracy by DirectSensor™ (HALL), strong force feedback brushless servo motor, smooth belt drive and 900° rotation angle built into a high quality metal construction and including the quick release.

Select the Steering Wheel of your choice compatible to your ClubSport Wheel Base V2.5 such as the BMW M3 GT2, the Formula Black and Formula Carbon, the Porsche 918 RSR and the Universal Hub. All Fanatec Steering Wheels for ClubSport Wheel Base are made of high quality materials and make you feeling like driving a real race car.

3

COMPATIBILITY

The ClubSport Wheel Base V2.5 (CSW V2.5) can be used with the ClubSport Steering Wheels like the BMW M3 GT2, the Formula Black and Formula Carbon, the Porsche 918 RSR, the ClubSport Universal Hub and other peripheral devices from Fanatec like pedals, shifters and handbrake. Especially watch out for other products from the Fanatec ClubSport platform!

The ClubSport Wheel Base V2.5 can be used on PC and Xbox One (Xbox One mode to be activated, requires a Fanatec Steering Wheel made for Xbox One like the Universal Hub for Xbox One or the CSL Steering Wheel P1 for Xbox One).

 **IMPORTANT:** Before first use the ClubSport Wheel Base V2.5 must be updated to the latest firmware version which is available on our website www.fanatec.com/support. See chapter 'Firmware and driver update' for more details!

4 PREPARATION

4.1 Package contents

ClubSport Wheel Base V2.5



ClubSport Wheel Base 20°
mounting socket
(comes assembled)



Power supply (different versions for
Europe EU, United States of America
US, Australia AU and Japan JP)



USB connection cable with 90° plug



Screws (S1)



O-Ring (O1)



Quick Guide + Drilling templates

4.2 Tools

Only an Allen key 4 mm is needed to assemble or disassemble the 20° mounting socket.

Required tools are not included!

4.3 Part list

Part number	Part name	usage	Picture	Description
S1	Screw M6 x 10 mm	3		Screws for mounting the 20° mounting adapter onto the bottom side of ClubSport Wheel Base (adapter comes assembled)
O1	O-ring	1		O-ring for quick release (spare part)

5

ASSEMBLY

5.1 Plan your configuration

To operate the ClubSport Wheel Base V2.5 a Fanatec Steering Wheel with quick release is required (e.g. the BMW M3 GT2, the Porsche 918 RSR or the Universal Hub). Just plug your Steering Wheel onto the quick release and get started. Connect the ClubSport Wheel Base V2.5 to your PC or Xbox One system by using the USB cable.

 **IMPORTANT:** Use only the USB cable with the 90° plug which is packaged with your ClubSport Wheel Base V2.5 to avoid damages on the ClubSport Wheel Base V2.5 electronics!

Please check chapter 'Connections' to see which kind of peripheral devices must be connected to which socket at the ClubSport Wheel Base V2.5.

Additional peripheral devices like pedals or shifters are not strictly required but will give the user a more similar feeling like driving a race car. We recommend to use shifters and pedals from the Fanatec ClubSport platform like the ClubSport Shifter SQ (CSS SQ), the ClubSport Static Shifter Paddles (CS SSP) or the ClubSport Pedals (CSP) and more. Visit our Webshop at www.fanatec.com for more compatible products.

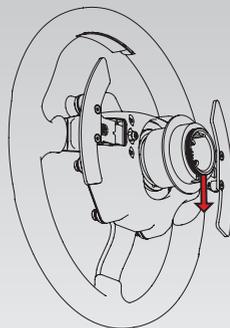
5.2 Mounting the ClubSport Wheel Base V2.5

To mount the ClubSport Wheel Base V2.5 to a table or rig by screws please find a printed drilling template inside the package of the ClubSport Wheel Base V2.5 as well as the printable version in the download area of our website www.fanatec.com.

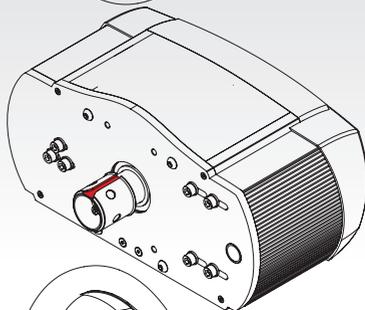
Alternatively you can purchase and use the Fanatec ClubSport Table Clamp (CS TC) which allows you to mount your ClubSport Wheel Base V2.5 without drilling holes into the table or rig. The ClubSport Table Clamp uses clamping screws which can be tightened and loosened by hand and without tools.

5.3 Attaching a Fanatec Steering Wheel

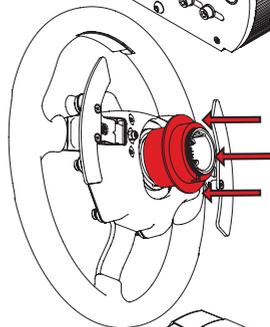
Remove storage pin



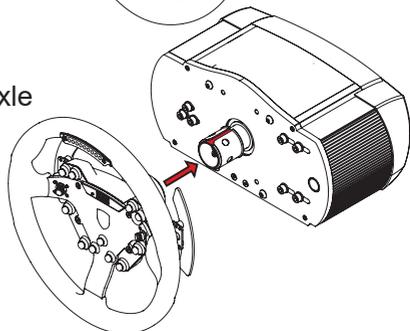
Align ClubSport Wheel Base V2 axle, to correct position



Press together or “pinch” and hold quick release mechanism



Slide rim onto ClubSport Wheel Base V2.5 axle

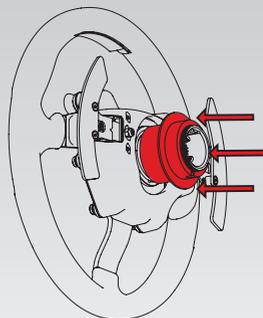


Now release the sleeve of the quick release mechanism

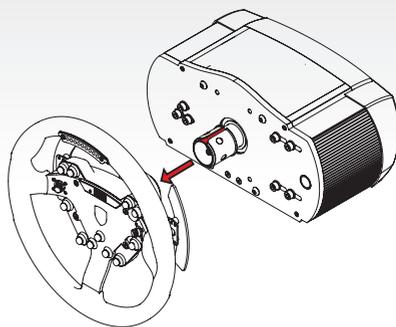
⚠ IMPORTANT: Please mind not to use high force to attach the steering wheel to avoid damages! It is possible to attach the steering wheel on the last 8 mm you need a little force because of the O-ring which avoids shaking steering wheels.

5.4 Take off a Fanatec Steering Wheel

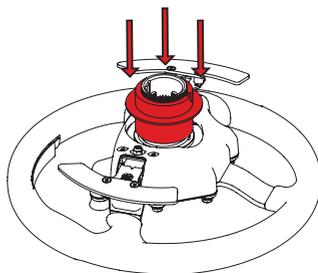
Pinch and hold
quick release mechanism



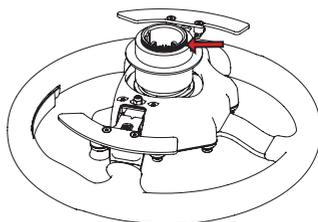
Slide rim off ClubSport Wheel Base V2.5 axle



Place rim face down on table



Insert storage pin



Now release the sleeve of the
quick release mechanism

5.5 ClubSport Static Shifter Paddles (CS SSP)

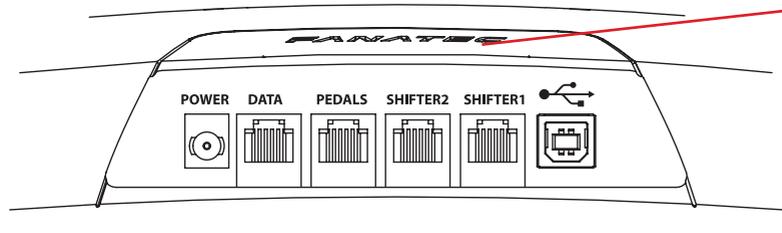
At the front plate of the ClubSport Wheel Base V2.5 there are for holes with gears which are used for mounting the ClubSport Static Shifter Paddles (CS SSP) as shown in the picture below:



⚠ IMPORTANT: ClubSport Static Shifter Paddles (CS SSP) sold separately and not included within the ClubSport Wheel Base V2.5 package content. Mounting screws for ClubSport Static Shifter Paddles included within the package of ClubSport Static Shifter Paddles.

5.6 Connections

To connect additional peripheral devices like shifters, pedals or LED displays to the ClubSport Wheel Base there is a row of connector sockets at the lower backside of the ClubSport Wheel Base V2.5:



⚠ IMPORTANT: Use only the connection cables which are packaged with the peripheral devices! Peripheral devices are not included and sold separately!

5.6.1 USB

The USB port is used to connect the ClubSport Wheel Base to the PC or console (e.g. Xbox One).

 **IMPORTANT:** Use only the USB cable with the 90° plug which is packaged with your ClubSport Wheel Base V2.5 to avoid damages on the ClubSport Wheel Base V2.5 electronics!

5.6.2 SHIFTER1

The SHIFTER1 port is used to connect H-pattern shifters to the ClubSport Wheel Base V2.5, e.g. the ClubSport Shifter (CSS) or the ClubSport Shifter SQ (CSS SQ) in H-pattern mode. Also sequential shifters can be connected to this port and will be detected correctly. Note: Sequential shifters connected to this port can be mapped identically to the shifter paddles at the Fanatec Steering Wheels like the BMW M3 GT2, the Formula Black or Formula Carbon, the Porsche 918 RSR or the Universal Hub with assembled shifter paddle boxes by PC driver settings (see chapter 'PC driver' of this user manual).

5.6.3 SHIFTER2

The SHIFTER2 port is used to connect sequential shifters (SQ) to the ClubSport Wheel Base V2.5, e.g. the ClubSport Shifter SQ (CSS SQ) in SQ mode or the ClubSport Static Shifter Paddles (CS SSP). Note: Sequential shifters connected to this port can be mapped identically to the shifter paddles at the Fanatec Steering Wheels like the BMW M3 GT2, the Formula Black or Formula Carbon, the Porsche 918 RSR or the Universal Hub with assembled shifter paddle boxes by PC driver settings (see chapter 'PC driver' of this user manual). **Attention: H-pattern shifters will not work on SHIFTER2 port!**

5.6.4 PEDAL

The PEDAL port is used to connect pedals to the ClubSport Wheel Base V2.5, e.g. the ClubSport Pedals (CSP), the CSR Pedals (CSR P) or the CSR Elite Pedals (CSR EP).

5.6.5 DATA

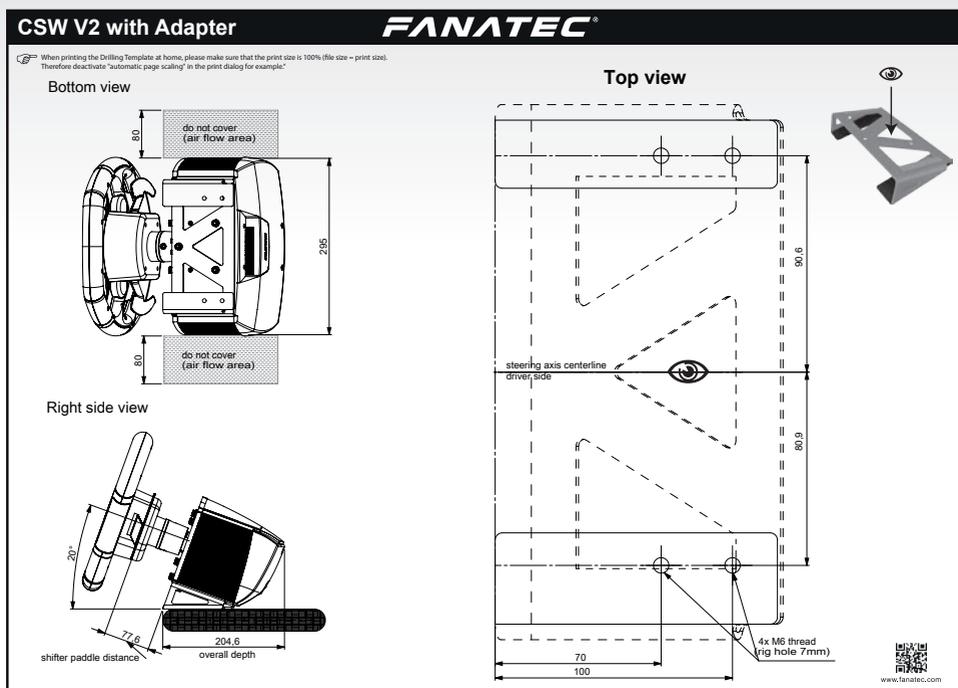
The DATA port is used to connect LED displays to the ClubSport Wheel Base V2.5.

5.6.6 POWER

The POWER connector is used to connect the power supply to the ClubSport Wheel Base V2.5.

⚠ IMPORTANT: Please use only the power supply and AC power cord that came with your ClubSport Wheel Base V2.5 or that you received from an authorized repair center. See ‘Electrical Safety’ in Chapter 1 ‘General’ for more details!

5.7 Drilling Template



⚠ ATTENTION: Please download and print the drilling templates for mounting with and without 20° mounting adapter from the download area of our website www.fanatec.com. Printed drilling templates are included inside the ClubSport Wheel Base V2.5 package.

6 FUNCTIONS & FEATURES

The ClubSport Wheel Base V2.5 has an own firmware handling the device communication to PC or console (e.g. Xbox One) as well as to other hardware peripheral devices like shifters and pedals. And the firmware provides different functions for the user.

6.1 Firmware and driver update

The firmware and the PC driver can be updated to newer versions by Fanatec for software bug fixing or introduction of new features and compatibilities.

Before first use the ClubSport Wheel Base V2.5 must be updated to the latest firmware version which is available on our website www.fanatec.com/support.

You must also use the latest driver version in order to use the ClubSport Wheel Base V2.5 on a PC.

Run the downloaded file(s) and follow the instructions shown on the screen. See more detailed description later in this user manual chapter.

 **IMPORTANT:** The ClubSport Wheel Base V2.5 is secured by firmware and by driver so that usually it is not possible to install wrong firmwares on the ClubSport Wheel Base V2.5! Do not try to force installation of any wrong firmware to the ClubSport Wheel Base V2.5 to avoid damages.

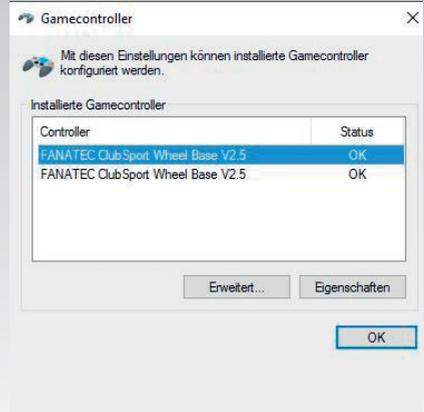
 **IMPORTANT:** After firmware update the center position of the ClubSport Wheel Base V2.5 must be manually calibrated again. This is also indicated by the LED display of the attached steering wheel showing 'CAL'. This appearance will be gone after manual calibration of the wheel center. See chapter 'Hotkeys'  'Wheel center calibration' for more details.

 **IMPORTANT:** After firmware update the H-pattern shifters connected to the ClubSport Wheel Base V2.5 must be manually calibrated again. See chapter 'Hotkeys'  'Shifter calibration mode' for more details.

6.1.1 PC driver

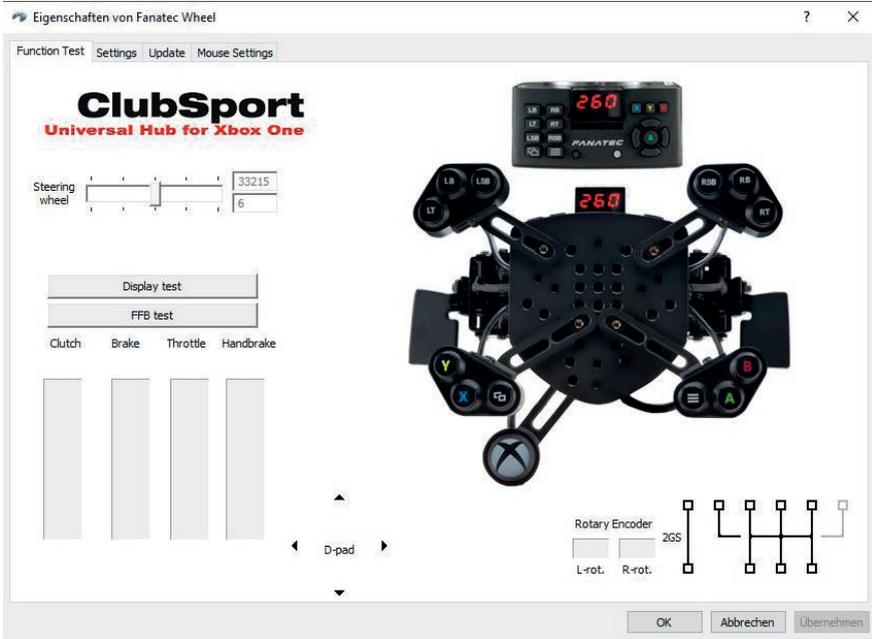
The PC driver is a very helpful tool as it can assist the user to do functional tests, adjustments and update procedure on the ClubSport Wheel Base V2.5.

When you start the driver this window as shown on the right hand side will appear and show all connected USB devices (the ClubSport Wheel Base V2.5 is shown two times for technical reasons but has no impact for the user):



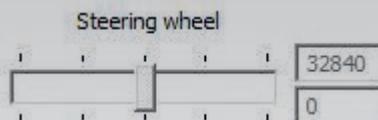
Double-click one of the two listed ClubSport Wheel Base V2.5 to go ahead and see the complete menu.

The next appearing menu 'function test' then is depending on the attached Fanatec Steering Wheel. For the manual there is used the ClubSport Universal Hub for Xbox One as an example, see pictures below:



This window shows you a lot of different information and gives possibilities to test the currently used hardware and peripherals:

Indicator bar shows the current Steering Wheel position, the upper box shows the position in digits, the lower box shows the position as an angle (positive and negative angle related to the calibrated wheel center position).

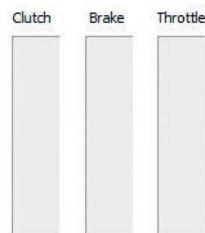


The button 'display test' activates a signal flow on the LED display of the attached Fanatec Steering Wheel and activates all LED display segments so you can check if all LED display segments work properly.

The button 'FFB test' starts a force feedback test and activates the motor of the ClubSport Wheel Base V2.5 to check proper functionality.

The button 'Rev LEDs test' starts a signal flow on the LED bar on the Steering Wheel top side and activates them to test proper functionality of each single LED. This is not available for the ClubSport Universal Hub as this one has no LED bar.

The button 'Vibration Test' starts a vibration signal to activate the vibration motors inside the Fanatec Steering Wheels. This is not available for the ClubSport Universal Hub as the Universal Hub rims do not have vibration motors inside.

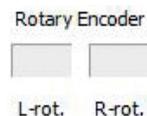


The three indicators 'Clutch', 'Brake' and 'Throttle' show the current activation and position of these single pedals by a blue bar moving up and down. Therefore the pedals must be connected to the ClubSport Wheel Base V2.5.

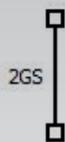
Note: Every pedal lever must be pressed down completely to auto-calibrate the lever movement distance each time when power resumes.



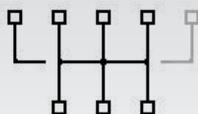
The 'D-pad' arrows (up, down, left, right) change their colour from black to blue when the corresponding direction is pressed on the attached Fanatec Steering Wheel.



The 'Rotary Encoder' boxes flash blue when turning left or right the FunkySwitch™ (clockwise or counter-clockwise).



The '2GS' indicator shows the activation of the 2GS (two gears shifter, sequential shifter, SQ) by filling the two little squares with blue colour, depending on activated shifting up or shifting down. This can be for example the ClubSport Static Shifter Paddles (CS SSP) or the ClubSport Shifter SQ (CSS SQ) in sequential mode if these are not mapped to the Steering Wheel shifter paddles.

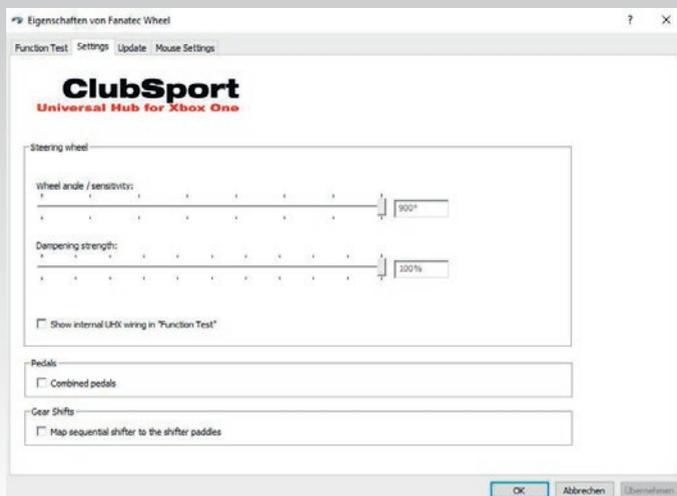


The 'H-pattern' indicator shows the activation of the 6GS, 7GS or 8GS (six gears shifter, seven gears shifter or eight gears shifter) by filling the little squares with blue colour, depending on activated shifting position. This can be for example the ClubSport Shifter (CSS) or ClubSport Shifter SQ (CSS SQ). Therefore the H-pattern shifter must be calibrated. See chapter 'Hotkeys' → 'Shifter calibration mode' for more details

The biggest area in this window is the upper right section of this view. There is shown a scheme of the attached Fanatec Steering Wheel with all buttons. If you press one of the buttons on the attached Steering Wheel the corresponding button will be marked with a blue spot as long as the button is physically activated. Please note that this view is depending on the attached Fanatec Steering Wheel and also note that for the Universal Hub all button boxes, the shifter paddles and the FunkySwitch™ are shown even if they are not physically attached. See example picture for the Universal Hub on the right hand below:



If you go to the PC driver page 'Settings' you will see this window:



There are two different slider bars in the section 'Steering wheel':

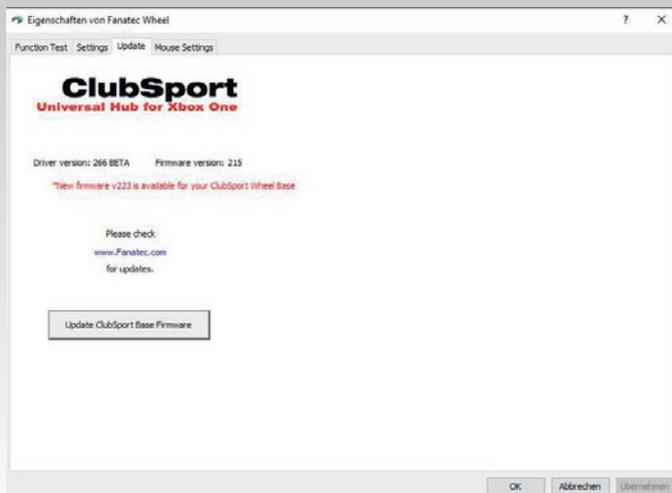
The upper bar 'Wheel angle' can adjust the maximum turning angle of the ClubSport Wheel Base V2.5, so the functionality is identical with the option 'SEN' in tuning menu (see chapter 'Tuning Menu' of this manual for more detailed information). Please note that in tuning menu the value for 'SEN' must be set to 'OFF/Aut' to allow the PC driver to take the control. If in tuning menu 'SEN' is set to any other value than 'OFF/Aut' the value set in tuning menu is applied and valid and the PC driver has no influence.

The lower bar 'Dampening strength' is an additional fine tuning possibility for the tuning menu option 'DPR' (see chapter 'Tuning Menu' of this manual for more detailed information).

In section 'Pedals' there is only the one checkbox called 'Combined pedals'. Activate this checkbox if the game or software uses only one input (I/O) for brake and throttle pedal signals (negative signal for brake, positive signal for throttle). This might solve problems especially with older games.

In section 'Gear shifts' there is only one checkbox called 'Map sequential shifter to the shifter paddles'. Usually shifters connected to the SHIFTER2 port are mapped to different inputs (I/Os) than the shifter paddles at the Fanatec Steering Wheels. If you want to change the mapping so that the used inputs for these shifters are identically mapped as for the Fanatec Steering Wheel shifter paddles activate this checkbox. This might be a good option when using the ClubSport Static Shifter Paddles (CS SSP).

If you go to the PC driver page 'Update' you will see this window:



In this window you can see the following informations:

- Currently installed and used PC driver version
- Currently installed and used firmware version on the ClubSport Wheel Base V2.5
- Quick link to the Fanatec homepage www.fanatec.com

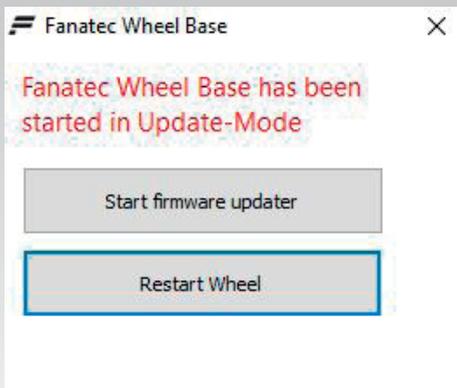
Below the shown information there is the button 'Update ClubSport Base Firmware'. When pressing this button the firmware update process for the ClubSport Wheel Base V2.5 will be started (see more detailed description in chapter 'Firmware update procedure' below in this user manual).

6.1.2 Firmware update procedure

To initiate the firmware update the ClubSport Wheel Base V2.5 must first be connected to the PC by USB cable and then it must be switched to Bootloader mode. You can switch to Bootloader mode in two different ways:

- by PC driver, on page 'Update' press the button 'Update ClubSport Base Firmware' when the ClubSport Wheel Base V2.5 is switched ON, see previous chapter 'PC' driver
- by pressing the red power button 'START' on the front plate of the ClubSport Wheel Base V2.5 for about 8 seconds when the ClubSport Wheel Base V2.5 is switched OFF.

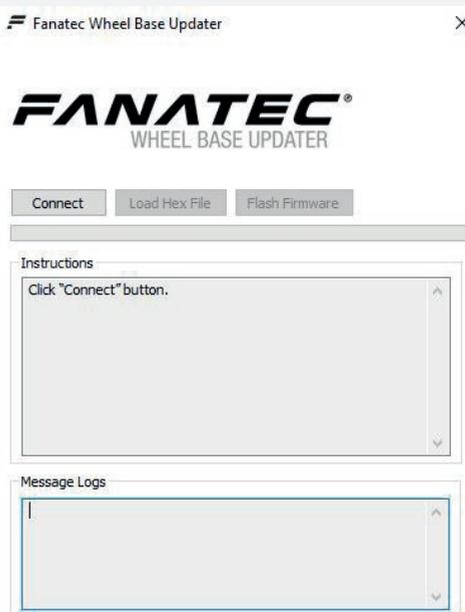
When the bootloader mode is active the fans are OFF and the LED ring around the red power button 'START' on the frontplate of the ClubSport Wheel Base V2 is flashing blue (one quarter). On the PC screen this window will appear automatically as shown on the right hand side:



Click on the upper button 'Start firmware updater'.

Then a new window will appear as shown on the right hand side:

Connect to your ClubSport Wheel Base V2.5 by pressing the button 'Connect'.



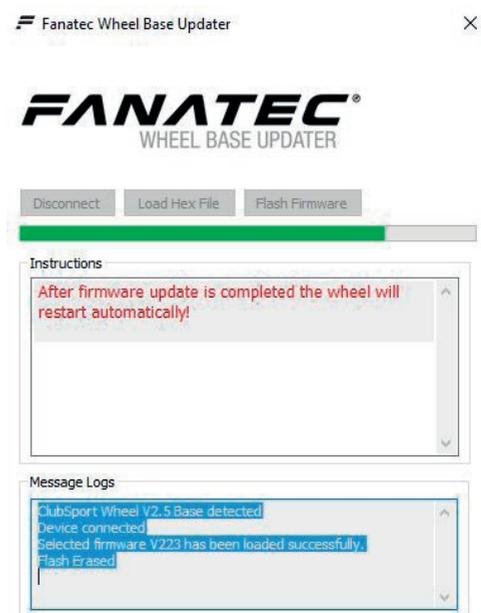
When the Base Updater is connected to the ClubSport Wheel Base V2.5 the buttons 'Load Hex File' and 'Flash Firmware' are available as shown on the right hand side:

Use button 'Load Hex File' to browse and select the wanted firmware file (.hex). Usually the latest available firmware found is already pre-selected and this step can be skipped.

When the pre-selected firmware file (.hex) is ok or the wanted firmware file (.hex) is chosen press button 'Flash Firmware' to execute the firmware update.



The firmware update is proceeding. You can see the progress bar becoming green as shown on the right hand side:



When the update is done the ClubSport Wheel Base V2.5 restarts automatically after firmware update is completed.

 **IMPORTANT:** The ClubSport Wheel Base V2.5 is secured by firmware and by driver so that usually it is not possible to install wrong firmwares on the ClubSport Wheel Base V2.5! Do not try to force installation of any wrong firmware to the ClubSport Wheel Base V2.5 to avoid damages.

 **IMPORTANT:** After firmware update the center position of the ClubSport Wheel Base V2.5 must be manually calibrated again. This is also indicated by the LED display of the steering wheel showing 'CAL'. This appearance will be gone after manual calibration of the wheel center. See chapter 'Hotkeys'  'Wheel center calibration' for more details.

 **IMPORTANT:** After firmware update the H-pattern shifters connected to the ClubSport Wheel Base V2.5 must be manually calibrated again. See chapter 'Hotkeys'  'Shifter calibration mode' for more details.

6.2 Start-Up procedure

The ClubSport Wheel Base V2.5 has an improved and faster start-up procedure:

⚠ ATTENTION: When initialisation and auto calibration of the ClubSport Wheel Base is in progress never touch the attached steering wheel in order to avoid injuries or incorrect calibration!



- **Step1:** Press the red power button 'START' at the front plate of the ClubSport Wheel Base V2.5, marked in the picture on the right hand side:
- **Step2:** The fans start working, the LED ring around the red power button is lit red (all four segments).
- **Step3:** The ClubSport Wheel Base V2.5 starts turning to the right side (clockwise) until mechanical limit is reached. Then it runs back to the left side (counter clockwise) and stops...

at the center position (0°) if wheel center was manually calibrated before. **Note:** If SPR is set to low values or '000' the ClubSport Wheel Base V2.5 will stop in a different position after calibration run.

at about -60° on the left hand side if wheel center was not yet calibrated (e.g. after firmware update; see description above in this chapter)



- **Step4:** The currently installed firmware version is shown on the LED display of the Fanatec Steering Wheel for a moment as shown on the picture on the right hand side:
- **Step5:** If the wheel center was not yet calibrated 'CAL' is blinking on the LED display of the Steering Wheel as shown on the picture on the right hand side:



Do manual wheel center calibration as described in chapter 'Hotkeys' of this manual.

The ClubSport Wheel Base V2.5 is ready to use after manual wheel center calibration.

- **Step6:** If the wheel center was already calibrated before step 5 can be skipped and the ClubSport Wheel Base V2.5 is ready to use immediately.

6.3 Tuning menu

The tuning menu is shown on the tuning display on the Fanatec Steering Wheels after activating the tuning menu by pressing the tuning menu button (see chapter 'Hotkeys' of this user manual). To navigate through the tuning menu press up, down, left and right direction at the FunkySwitch™ of the Fanatec Steering Wheel or turn the FunkySwitch™ clockwise / counter clockwise. Note: At the ClubSport Universal Hub you can also use the D-Pad buttons on top of the Universal Hub so you do not need to attach the separate FunkySwitch™.

6.3.1 S_1 ... S_5 (Setups)

Setups range: S_1 ... S_5 Setups default: S_1

The ClubSport Wheel Base V2.5 provides five different setups to store your adjusted values independent from each other. To change the used and active setup press up or down direction at the FunkySwitch™ of the Fanatec Steering Wheel or turn the FunkySwitch™ clockwise / counter clockwise.

6.3.2 SEN (Sensitivity)

SEN range: 090 ... 900 → OFF/Aut SEN default: OFF/Aut

The Sensitivity defines the steering angle. If SEN is set to 090 the steering wheel only can be turned 90° (45° to left and 45° to right side direction from calibrated center position). If SEN is set to 900 the steering wheel can be tuned the mechanical maximum way of 900° (450° to left and 450° to right side direction from calibrated center position). If SEN is set to OFF/Aut the sensitivity is controlled by the PC driver (see chapter PC driver for more details) or even some games support this feature (e.g. Codemasters F1 and GT5). To change the used and active value press up or down direction at the FunkySwitch™ of the Fanatec Steering Wheel or turn the FunkySwitch™ clockwise / counter clockwise. Since Firmware 094 the value OFF will be called "Aut". This means that our driver and games can change this setting automatically by remote.

6.3.3 FF (Force Feedback)

FF range: OFF → 010 ... 100 FF default: 100

The Force Feedback defines the maximum strength of the motor when force feedback effects from software / games are sent to the ClubSport Wheel Base V2.5. If FF is set to OFF, there will be no force feedback effect executed by the ClubSport Wheel Base V2.5 motor. If FF is set to 010, the motor will execute only 10% of the maximum motor power. If FF is set to 100, the motor will execute 100% of the maximum motor power. To change the used and active value press up or down direction at the FunkySwitch™ of the Fanatec Steering Wheel or turn the FunkySwitch™ clockwise / counter clockwise.

6.3.4 SHO (Shock)

SHO range: OFF → 010 ... 100 **SHO default: 100**

The strength of the shock / vibration motors inside the FANATEC Steering Wheel can be adjusted from 100% to 0%. These vibration motors can be used by a game directly (Fanatec SDK) or by the ABS function.

6.3.5 ABS

ABS range: 000 ... 100 → OFF **ABS default: OFF**

This feature can give you a direct and feel-able feedback about your brake inputs. If you set the value to 100 the vibration will start as soon as you give 100% brake input to the game. If you set it to 95% the vibration will start if you push the brake to 95% or more. The ABS feature uses the vibration within your wheel rim (can be turned off by settin SHO to "0") AND the vibration motor on a CSP (V2) pedal set if it is connected directly to the wheel - not individually by USB. ABS can also be simulated dynamically by the game if the developer makes use of the Fanatec SDK. To change the used and active value press up or down direction at the FunkySwitch™ of the Fanatec Steering Wheel or turn the FunkySwitch™ clockwise / counter clockwise.

6.3.6 DRI (Drift mode)

DRI range: -05 ... -01 → OFF → 001 ... 005 **DRI default: -05**

The drift mode reduces the overall resistance of the wheel and lets you turn the wheel more easily. It almost works like power steering. It reduces the basic dampening of the wheel in the range of -05 to OFF and makes the wheel turn faster in the range of 001 to 005. If the value is set to values beyond -05 (or if the game's FFB interferes with this feature) you might experience some oscillation. If that happens - reduce the value or turn DRI to "-05".

To change the used and active value press up or down direction at the FunkySwitch™ of the Fanatec Steering Wheel or turn the FunkySwitch™ clockwise / counter clockwise. "-05" to "-01" is a damper effect (natural damper), OFF is without damper effect and 001 or higher are with motor assistance to accelerate the Steering Wheel.

6.3.7 FOR (force), SPR (spring), DPR (damper)

FOR range: OFF → 010 ... 120 FOR default: 100 (%)

SPR range: OFF → 010 ... 120 SPR default: 100 (%)

DPR range: OFF → 010 ... 120 DPR default: 100 (%)

These force feedback modifiers give you the ability to change the force feedback signals of a game (only applicable if game uses these effects). In theory there are three types of signals which a game can send: Force (pushes the wheel into a special direction), spring (pulls the wheel towards the center) and damper (creates friction). Not every game uses all types of effects and some games even use only one type to create all different feelings. Using your tuning menu in the CSW you can increase or reduce these different effects individually. To change the used and active value press up or down direction at the FunkySwitch™ of the Fanatec Steering Wheel or turn the FunkySwitch™ clockwise / counter clockwise.

Note: If SPR is set to low values or 'OFF' the ClubSport Wheel Base V2.5 will not be able to move the attached Steering Wheel to correct center position after calibration run. **Force, spring and damper modifiers cannot be used on Xbox One since those separated FFB signals are not used in the Xbox One force feedback system, so these are not displayed when the Wheel Base is in Xbox One mode.**

 **IMPORTANT:** Please do only set these values higher than 100% if the force feedback effects are clearly not strong enough and weaker in comparison to other games. When the game sends full effects and the wheel is set to 100% then the device will work on its power limit. Pushing up one value to a very high number or even raising multiple values will result in higher load on the motor and increased heat development.

For further information check the FAQ section on our website www.fanatec.com/support.

6.3.8 FEI (Force Effect Intensity)

FEI range: OFF ... 100

FEI default: 100

This parameter adjusts the intensity of force effects and can make effects more smooth: OFF is very smooth and low noise while 100 is very sharp and direct. Tuning this parameter can improve the feeling of the wheel depending on the game. This can be helpful to reduce the noise level especially for bases assembled to tables or rigs.

6.3.9 BRF (brake force)

BRF range: OFF → 010 ... 100

BRF default: 050

This brake force modifiers give you the ability to adjust the brake feeling according to your favour: Increasing the BRF to 100 means the user needs to press the brake with minimum force to achieve 100% brake signal. Reducing the BRF to OFF means the user needs to press the brake only with maximum force to achieve 100% brake signal.

You can either check the brake signal level on the PC driver or you can see it on the RevLEDs of the attached Steering Wheel (depending on Steering Wheel type). To change the used and active value press up or down direction at the FunkySwitch™ of the Fanatec Steering Wheel or turn the FunkySwitch™ clockwise / counter clockwise.

 **NOTE:** The parameter BRF availability is depending on the pedals type at the Wheel Base's PEDAL port, pedals have to support this feature. Please read the description and/or manuals of your pedals to verify the BRF feature is supported. For example the CSL Elite Pedals LC (= CSL Elite Pedals with Loadcell Kit) and the ClubSport Pedals V3 support this feature.

6.4 Cooling system

To avoid damages to the ClubSport Wheel Base V2.5 there is a well-managed cooling system integrated to the hardware and the firmware.



6.4.1 Hardware measures

The ClubSport Wheel Base has two fans inside: The first one is on the backside and carries out the hot air from the inside of the ClubSport Wheel Base:



The second one is on the left hand side behind the side plane and blows cool air into the ClubSport Wheel Base V2.5 (room temperature):



Additionally the motor has a big heat sink around with a huge passive cooling surface to transport the motor heat away from motor:

6.4.2 Automatic fans adjustment

The firmware provides different stages of fan control which are clearly defined after intensive testing on the R&D lab.

When switching ON the ClubSport Wheel Base V2.5 the fans operate at maximum speed until calibration run is completed.

The operation speed of the fans is adjusted to the currently detected temperature of the motor inside the ClubSport Wheel Base V2.5 and could even stop, depending on used firmware version.

The temperature control is subject to change by firmware updates so that the fans behaviour also could be changed.

7 ELECTRICAL OPERATION

7.1 Hotkeys

7.1.1 Tuning menu

To enter the tuning menu use tuning menu button (usually the small black button close to the LED display of the used Fanatec Steering Wheel; see corresponding quick guide of your Fanatec Steering Wheel). The picture just shows the tuning menu button on top of the ClubSport Universal Hub as an example:



7.1.2 Wheel center calibration

If a center calibration is needed (e.g. after updating the firmware of the ClubSport Wheel Base V2.5) first you need to enter the tuning menu as described above.

When you use a regular Fanatec Steering Wheel like the BMW M3 GT2, the Formula Black or Formula Carbon or the Porsche 918 RSR you must press the left and right stick at the same time. Please see corresponding quick guide of the Fanatec Steering Wheel you use at the ClubSport Wheel Base V2.5.



The picture on the right hand side just shows the Fanatec Steering Wheel Porsche 918 RSR as an example:

When you use the ClubSport Universal Hub you must press **start** + **X** on top side of the Universal Hub at the same time to calibrate the wheel center.

When you use a Fanatec Steering Wheel for Xbox One you have to press **≡** + **A** at the same time to calibrate the wheel center (e.g. Universal Hub for Xbox One, CSL Steering Wheel for Xbox One)

⚠ ATTENTION: When initialisation and auto calibration of the ClubSport Wheel Base is in progress never touch the attached steering wheel in order to avoid injuries or incorrect calibration!

7.1.3 Switching modes

Initially the ClubSport Wheel Base V2.5 is in PC mode if no Fanatec Steering Wheel for Xbox One is attached. For use on Xbox One the ClubSport Wheel Base V2.5 has to be attached with a Fanatec Steering Wheel for Xbox One (e.g. Universal Hub for Xbox One, CSL Steering Wheel P1 for Xbox One) and switch to Xbox One mode.

When the wheel base is booted with attached Fanatec Steering Wheel for Xbox One the wheel base is initially already in Xbox One mode, indicated by the green lit ring of light around the Wheel Base 'START' button, see photo on the right hand side:



In case the ClubSport Wheel Base V2.5 is in PC mode with attached Fanatec Steering Wheel for Xbox One you have to connect the wheel base to the Xbox One console via USB cable and then press the buttons  +  at the same time after auto calibration of the ClubSport Wheel Base V2.5 is completed.

 +  allows to toggle between PC and Xbox One mode when a Fanatec Steering Wheel for Xbox One is attached, with other Fanatec Steering Wheel the ClubSport Wheel Base V2.5 works on PC only. PC Mode is indicated by red lit ring of light.

Please see corresponding quick guide of the Fanatec Steering Wheel you use at the ClubSport Wheel Base V2.5. Please see user manual of the Universal Hub for Xbox One as well.

7.1.4 Shifter calibration mode

To enter the H-pattern shifter calibration mode on regular Fanatec Steering Wheels press **START (10) + tuning menu button** at the same time. The **START** button is usually the black button on the lower right center of the Steering Wheel, the picture on the right hand side shows the Porsche 918 RSR as an example:

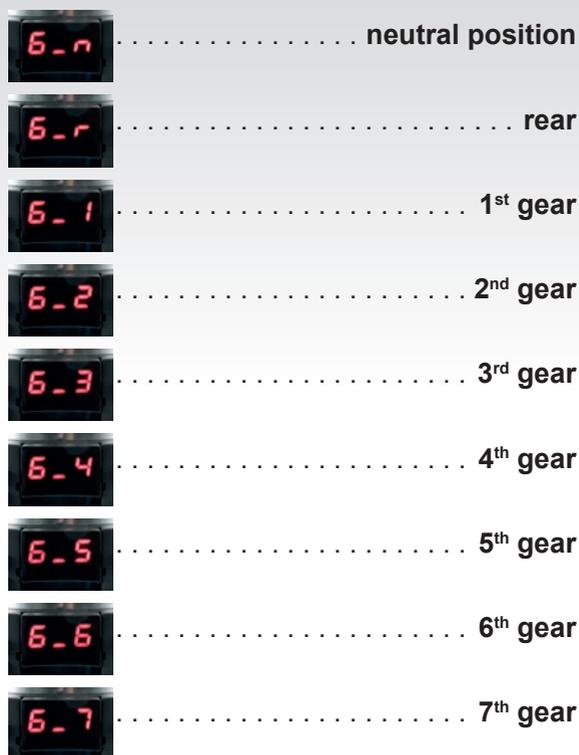


To enter the H-pattern shifter calibration mode on the Universal Hub press **START (10) + tuning menu button** at the same time:



Put the H-pattern shifter's lever into the position shown on the LED display and acknowledge each single position by pressing **START (10)** to get to the next one.

The following pictures show the instructions on the LED display of the Universal Hub but are similar on the other Fanatec Steering Wheels:



If your shifter has no 7th gear just acknowledge it by pressing **START (10)** when the shifter lever is physically in position of 6th gear. After all gears are calibrated the LED display shows S_1 and the shifter is ready for use.



⚠ NOTE: The ClubSport Wheel Base V2.5 will guide you directly to the shifter calibration mode after a firmware update in case a H-pattern shifter is detected (e.g. ClubSport Shifter)

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CLEANING

Clean only with a dry or slightly damp cloth. Using cleaning solutions may damage your ClubSport Wheel Base V2.5.

Never open the casing of the device, not even for cleaning purposes. Never power and/or operate the device with opened casing due to safety reasons.

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TROUBLESHOOTING

The ClubSport Wheel Base V2.5 must not be modified differently than described in this manual. Endor® AG expressly prohibits analysis and utilization of the electronics, hardware, software and firmware contained in the controller. In case difficulties occur in connection with utilization of the ClubSport Wheel Base V2.5, please use the following guide for elimination of errors. On the website www.fanatec.com/support you will find further details and contact data.

If the ClubSport Wheel Base V2.5 is not working properly:

Problem description	Solution
After firmware update of the ClubSport Wheel Base V2.5 the steering wheel is not properly centered.	After doing a firmware update on the ClubSport Wheel Base V2.5 the wheel center position must be manually calibrated. See chapter 'ClubSport Wheel Base V2.5 Functions' → 'Firmware and driver update' of this manual for more details.
After firmware update of the ClubSport Wheel Base V2.5 the H-pattern shifter is not working properly.	After doing a firmware update on the ClubSport Wheel Base V2.5 the H-pattern shifter must be manually calibrated. See chapter 'ClubSport Wheel Base V2.5 Functions' → 'Firmware and driver update' of this manual for more details.
The driver window does not show the attached Steering Wheel.	Make sure that you have updated your ClubSport Wheel Base V2.5 to the latest firmware version which can be downloaded from www.fanatec.com/support .
	Check the pins inside the quick release of the Steering Wheel, these must not be bent or damaged.
	Try to use another Steering Wheel. If this is also not detected the ClubSport Wheel Base V2.5 might be damaged.

Problem description	Solution
The tuning display does not show anything or is not working partially.	<p>Try to use another Steering Wheel. If this is also not working properly the ClubSport Wheel Base V2.5 might be damaged.</p> <p>Check the pins inside the quick release of the Steering Wheel, these must not be bent or damaged.</p>
Center calibration with Universal Hub is not working because of missing d-pad / sticks.	For the Universal Hub there is a different button combination than for other Fanatec Steering Wheels. See description in chapter 'Hot- keys' of this user manual as well as the user manual for the Universal Hub.
After switching on the ClubSport Wheel Base V2.5 the auto calibration is not working properly.	Make sure that you have updated your ClubSport Wheel Base V2.5 to the latest firmware version which can be downloaded from www.fanatec.com/support .
After playing a while the ClubSport Wheel Base V2.5 seems to become weaker.	<p>When the motor temperature is close to upper limit the tuning menu values will be overwritten to regular maximum values (not higher than 100 %).</p> <p>Let your ClubSport Wheel Base V2.5 calm down before continue using it.</p>
After playing a while the ClubSport Wheel Base V2.5 motor has switched OFF.	<p>When the temperature is exceeding the upper limit the motor will be deactivated for a while until the temperature is low enough (to protect the hardware from damages).</p> <p>Let your ClubSport Wheel Base V2.5 calm down before continue using it.</p>
Fans are always working in full speed even if ClubSport Wheel Base just was switched ON and cannot have higher temperatures.	In case of malfunctioning temperature sensor the fans are working at maximum speed to protect the hardware from overheating. Please contact our customer support.
After calibration run at startup of ClubSport Wheel Base V2.5 the attached steering wheel doesn't go to correct center position.	Please check your tuning menu settings, the value for SPR (spring) must be higher than '000' as this effect is required to make correct centering. Default value is '100'.
My PC lists the ClubSport Wheel Base V2.5 two times in the connected devices list. Which is the correct one?	The ClubSport Wheel Base V2.5 is listed two times due to technical reasons. For the user this must not have an impact on how the wheel base works, clicking on one of the two listed items always leads into the PC driver function test screen.

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SERIAL NUMBER

Before contacting the Fanatec Customer Support please note the serial number of your ClubSport Wheel Base V2.5:

You can find the serial number on a sticker on the bottom side of you ClubSport Wheel Base V2.5 or on stickers on one of the packaging boxes. The serial number starts with letters '**JS**' and has additional 8 numbers, for example: **JS50600733**.

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TRADEMARKS

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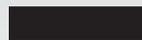
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ECOLOGY ADVICE

In the European Union: At the end of its working life, this product should not be disposed of with standard household waste, but rather dropped off at a collection point for the disposal of Waste Electrical and Electronic Equipment (WEEE) for recycling.



Depending on their characteristics, the materials may be recycled. Through recycling and other forms of processing Waste Electrical and Electronic Equipment, you can make a significant contribution towards helping to protect the environment.



Please contact your local authorities for information on the collection point nearest you.

For all other countries: Please adhere to local recycling laws for electrical and electronic equipment.

Retain this information. Colours and decorations may vary.

In the European Union: The packaging materials can be depolluted for recycling according to the legal regulations depending on the country responsible for the corresponding law.



For all other countries: Please adhere to local recycling laws for packaging materials.

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FCC COMPLIANCE

This device complies with part 15 of the FCC rules. The operation of this device is subject to the following two conditions:

- This device may not cause harmful interference, and must accept any interference received, including interference that may cause undesired operation.
- This device was not modified different than described explicitly in this user manual.



Note: This device was tested and approved to the limitations for class B of digital devices according to part 15 of the FCC rules. This limitations should ensure an adequate protection against harming interferences in residential areas. However, a warranty for not-occurring of interferences is not assumed.

Do not modify the device different than described explicitly in this user manual. Nevertheless, if you do modifications different from the described in this manual you can be determined to stop the operation of the device.

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CE COMPLIANCE

This device complies with the European product regulations according to CE regulations.

The CE regulations contain basic requirements for safe usage of technical products.



Please check the FAQ database at www.fanatec.com/support to see if your problem can be solved there. Normally, the warranty period is one year. However, this may differ depending on the respective state.

1) Endor® AG grants for the hardware product – as extension of shorter national warranty regulations, if applicable a one- year warranty for material and manufacturing defects. The warranty does not include defects that are due to commercial use of the product and/or normal wear and tear and/or damaging by third parties and/or improper utilization or treatment and/or utilization of the product contrary + to the operating and maintenance instructions and/or not intended installation and/or non-compliance with the local safety standards and/or the results of an intervention by a third party or a not authorized opening of the device including any measures for modification, adjustment and/or adaptation measures (also in case of professional execution). Warranty applies as of the date of purchase when the final customer purchased the product, and is exclusively limited to the rights as of 2), as far as this does not limit any further legal warranty claims on the basis of various national laws. Warranty is subject to return of the defective product with carriage paid, within the warranty period, including the original receipt that must include date of purchase as well as the company stamp/company print of the first dealer.

2) The warranty covers – at the choice of Endor® AG – either gratis repair or replacement of the device or components of the device. With defects that are not covered by the warranty and/or that are excluded from warranty (see above), possibilities for repair are to be requested with the local customer service or the local dealer. As far as permitted by law, any further liability - with the exception of intent and gross negligence – is excluded for any indirect or direct damages and consequential damages, regardless of whatsoever basis of claim.

This applies in particular to damages with other property, damages to persons, data losses as well as financial losses like loss of profit as well as transport damages in connection with returns to Endor® AG. As far as liability limitations are not legally allowed or effective in certain states or certain regions, the limitations are to be effective to such extent that exclusions of liability. This gaming device is designed to withstand approximately one hour of use per day during the course of the warranty period of one year.



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