



FANATEC®

CSL Elite F1® Set



Manual

US



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Thank you for choosing
FANATEC[®]

To get the most out of your CSL Elite F1[®] Set - officially licensed for PS4[™], please read this manual before use. It contains important health and safety information and should be retained 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.

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GENERAL

 **ATTENTION**

- The device must not be exposed to rain or humidity in order to avoid risk of fire and or electric shock.
- Operating room temperature: 60°F-95°F
- 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.
- Excessive use may cause health risks. Take a break of 5 minutes every 20 minutes, and do not drive 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 old. Contains small pieces which pose a choking hazard!
- Do not open the casing of the device.
- This device contains components that cannot be repaired by the user, opening will void the warranty.

 **WARNING!** Electrical Safety

The CSL Elite F1® Set must be connected to an appropriate power source:

- Use only the power supply and power cord that came with your CSL Elite F1® Set. Replacements may only be issued from an authorized repair center.
- 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 damage, do not expose your CSL Elite F1® Set to sources of heat.
- When connecting and / or disconnecting any Steering Wheel (e.g. Porsche 918 RSR or Universal Hub) to / from CSL Elite F1® Set take care of the pins inside the quick release.
- Only use Fanatec® Steering Wheels with the CSL Elite Wheel Base +.
- Do not try to use the CSL Elite F1® Set with an external power source different from the power supply packaged with the CSL Elite F1® Set or received from an authorized repair center.
- Unplug the power cord of your CSL Elite F1® Set during storms or when unused for long periods of time.
- If the CSL Elite F1® Set becomes damaged in any way, stop using it immediately and contact Fanatec® Customer Support.



GENERAL NOTES

- This product contains the ClubSport Steering Wheel F1® Esports, all other Fanatec® steering wheels which might be mentioned in this manual are not included within the CSL Elite F1® Set package and sold separately.
- Additional peripheral devices like shifters, LED displays and others which might be mentioned in this manual are not included within the CSL Elite F1® Set package and are sold separately.
- This manual discusses assembly, connections, and functions related to Fanatec® steering wheels and other additional devices (e.g. PlayStation®4 and PC's.) This is not a replacement manual for the other corresponding products! Read the quick guides or user manuals for the other products as well!
- All specifications in this document are subject to change. The CSL Elite F1® Set firmware and/or PC driver may be updated to implement new features or 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 at www.fanatec.com for more details.
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INTRODUCTION

Thank you for purchasing Fanatec sim racing hardware. Officially licensed by Formula 1™, this innovative product is being used by professional F1® Esports teams to compete at the highest level. The CSL Elite Wheel Base + enables compatibility on PS4™, providing powerful and smooth force feedback using a single belt drive and DirectSensor™ technology. The CSL Elite Pedals are highly adjustable, and made from solid aluminum to ensure durability and stability. The ClubSport Steering Wheel F1® Esports is inspired by cutting-edge F1 technology, with a cutaway grip design wrapped in genuine Alcantara®. The 27cm diameter wheel allows for fast movements and reactions. The lightness and compact shape means that force feedback is delivered to your hands with precision and detail.

3

COMPATIBILITY

The CSL Elite F1® Set (CSL E F1 SET) can be used with a wide range of CSL and ClubSport series steering wheels. Using different wheels helps to create a more realistic feeling based on the type of vehicle being simulated, and your driving style. It's up to you! Additional peripheral devices from Fanatec® such as pedals, shifters, and handbrake are fully compatible with the CSL Elite F1® Set. You can obtain them from the Fanatec webshop: www.fanatec.com

The CSL Elite F1® Set can be used on PlayStation®4 and other platforms*.



IMPORTANT: Before first use the CSL Elite F1® Set 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!

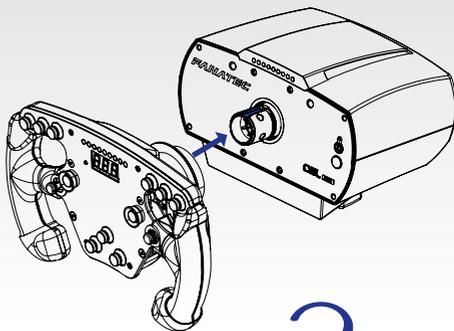
*PC compatibility not tested nor endorsed by Sony Interactive Entertainment LLC.

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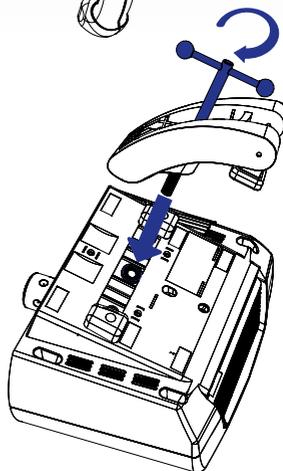
PLUG & PLAY

This chapter shows just a quick plug & play guide and is not a replacement for the chapters afterwards, we recommend reading the later chapters to achieve the best user experience. Especially refer to chapter 10 'Troubleshooting' for commonly asked questions.

Compress and hold the Quick Release mechanism. Slide ClubSport Steering Wheel F1® Esports onto CSL Elite Wheel Base + axle. Now release the sleeve of the Quick Release mechanism.

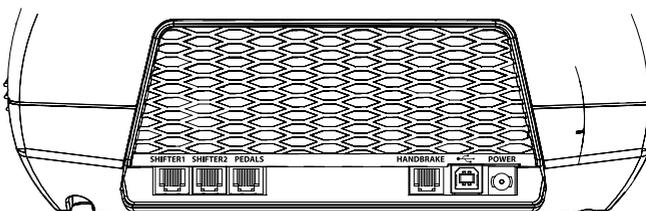


Mount the table clamp to the base bottom side and clamp the CSL Elite Wheel Base + to your table.



Connect your CSL Elite Pedals and other peripheral devices (not included) to the corresponding port at the CSL Elite Wheel Base + back side.

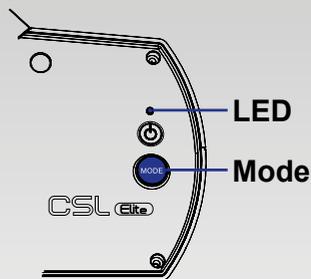
Also connect the PS4™ system or your PC* to the USB port and plug in the power supply.



Power on the CSL Elite Wheel Base + and wait until calibration run is completed.

Switch to the mode you want to use by pressing the mode button:

- Blue indicates „PlayStation®4 mode“
- Red indicates „PC* mode“



Additional after pressing the Mode Button 3 seconds:

- Yellow indicates „ClubSport Wheel Base V2 compatibility mode“

For use on PS4™ systems please press the PS button at the beginning to connect the wheel to the active user profile. The PlayStation®4 will display a system notification on your screen.

Your setup is ready to use now. If you have difficulties please check the following chapters of this user manual, there are much more detailed descriptions for each of the above steps.

5

PREPARATION

5.1 Package contents

CSL Elite Wheel Base+ (PS4™ version)

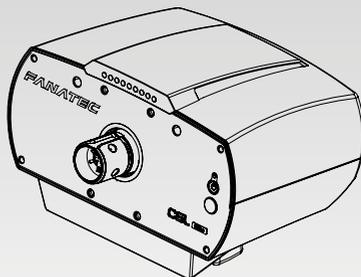


Table clamp

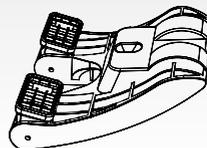
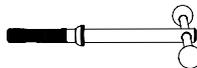
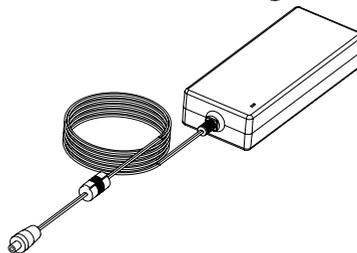


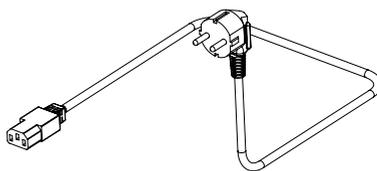
Table clamp bolt with handle



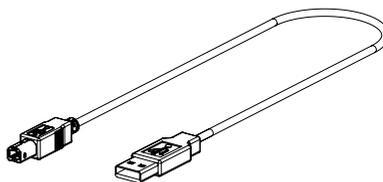
Power supply unit



Power supply



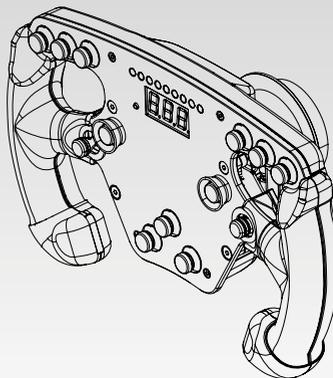
USB connection cable with straight plug



O-Ring (O1) (for mounting ClubSport Static Shifter Paddles)



ClubSport Steering Wheel F1® Esports with preinstalled PS4™ button caps



Fixation bolt M6 x 18 mm



Black washers (for mounting ClubSport Static Shifter Paddles)



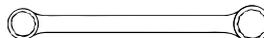
Racing-style button caps (optional)
for ClubSport steering wheels



Allen key 5 mm



Box-ended wrench 13/15mm



Slot cover

Heel rest

Brake pedal unit

Rubber pedal covers

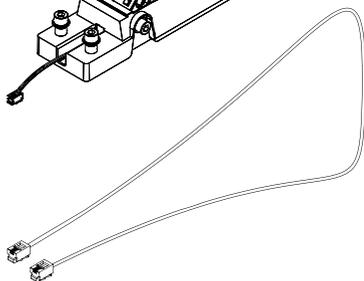
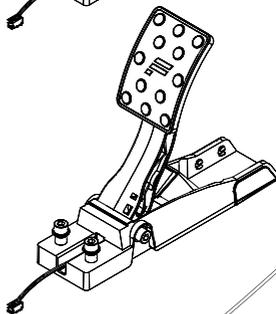
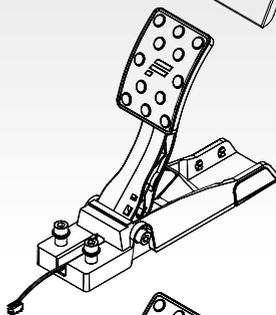
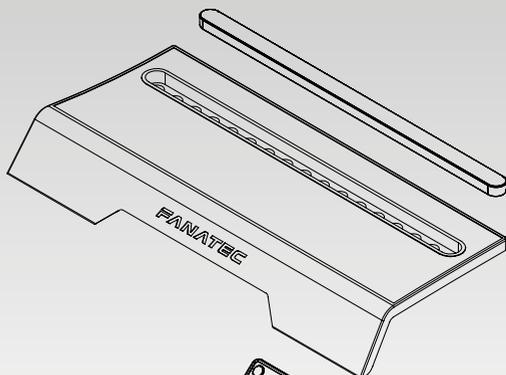
Gas pedal unit

Rubber pedal covers

RJ12 cable

Mounting bolts, nuts, and washers

Quick Guide



6

ASSEMBLY

6.1 Plan your configuration

To operate the CSL Elite F1® Set, ensure the steering wheel is fully seated on the quick release shaft of the wheel base, and connect the pedals to the correct socket on the back of the wheel base using the included RJ12 cable. Then connect the CSL Elite F1® Set to your PlayStation®4 system (or other platform*) with the included USB cable.

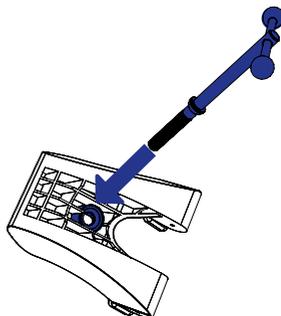
⚠ IMPORTANT: Only use the USB cable supplied with your CSL Elite F1® Set. Failure to do this may cause damage to the CSL Elite F1® Set or PlayStation®4 electronics!

Please check the 'Connections' chapter for details about peripherals and where they should connect to the CSL Elite F1® Set. All devices have to be connected to the CSL Elite F1® Set before powering ON to allow proper detection and operation.

Additional peripheral devices such as shifters are not strictly required but can enhance the realism of driving certain vehicle types. We recommend using devices from the Fanatec® ClubSport platform like the ClubSport Shifter SQ, or the ClubSport Static Shifter Paddles and more. Visit our Webshop at www.fanatec.com for more compatible products.

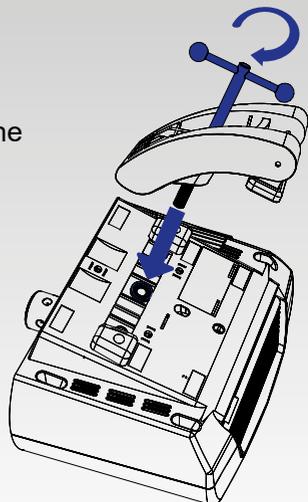
6.2 Mounting the CSL Elite F1® Set using the Table Clamp

Insert the threaded rod with handles into the table clamp.

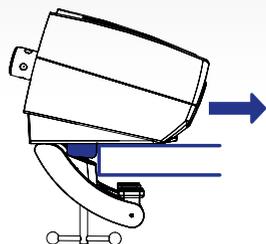


*PC compatibility not tested nor endorsed by Sony Interactive Entertainment LLC.

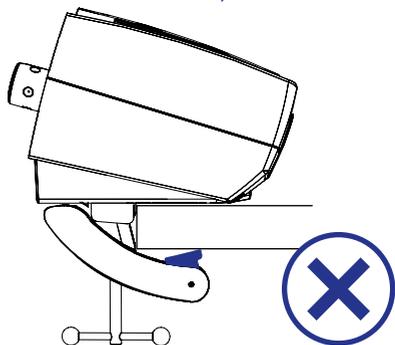
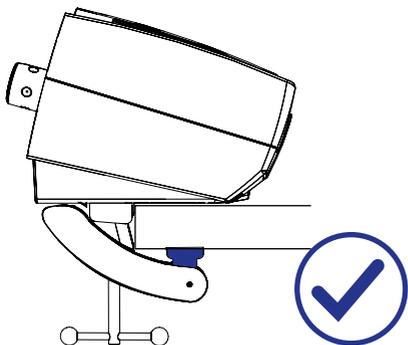
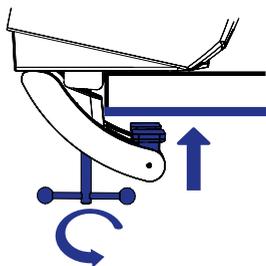
Turn the table clamp bolt into the bottom center of the CSL Elite F1® Set.



Slide the CSL Elite F1® Set onto the table plate until the limiter blocks are flush with the table edge. The table clamp must be below the table top.

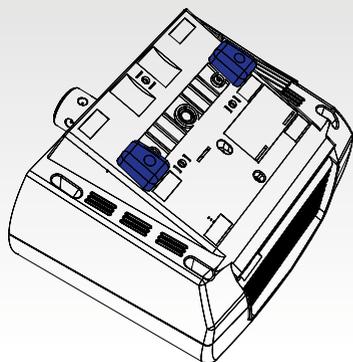


Tighten the table clamp by turning the table clamp bolt. Ensure that the table clamp feet remain well aligned with the underside of the table.

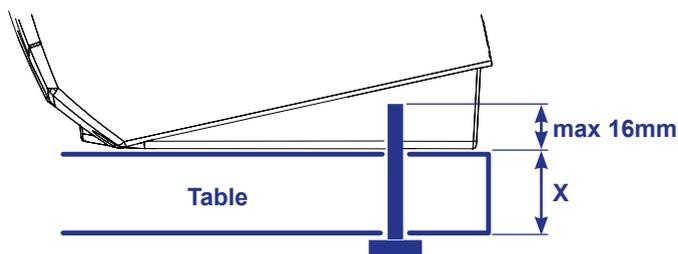


6.3 Hard-mounting the CSL Elite Wheel Base +

To hard-mount the wheel base, first disassemble the two blocks from the underside (lower left picture) using a 3 mm Allen key (not included). The CSL Elite Wheel Base + offers a three-point hard-mount location on the underside (lower right picture).



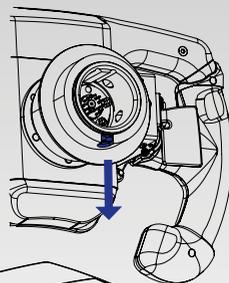
⚠ IMPORTANT: Use only good quality M6 bolts. Choose the correct bolt length to prevent the thread from reaching more than 16 mm into the wheel base. **Example: If your table is 20 mm thick, the bolts must not exceed a total thread length of 36 mm!** Always use all three hard-mount points as this allows for a proper and stable installation and avoids damage!



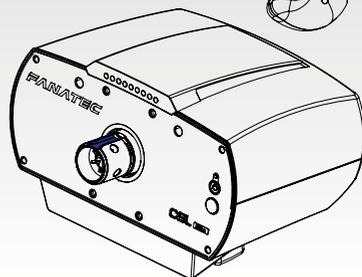
NOTE: To hard-mount the CSL Elite Wheel Base + to a table or rig with bolts please, find the printable drilling template in the download area of our website: www.fanatec.com

6.4 Attaching the ClubSport Steering Wheel F1® Esports

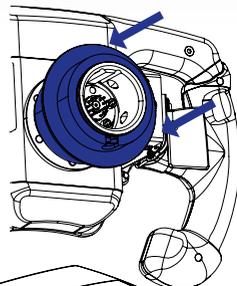
Remove the storage pin.



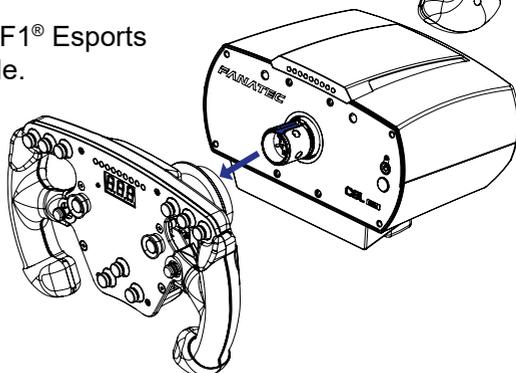
Align the CSL Elite Wheel Base + axle to the correct position.



Compress and hold the Quick Release mechanism.



Slide the ClubSport Steering Wheel F1® Esports onto the CSL Elite Wheel Base + axle.

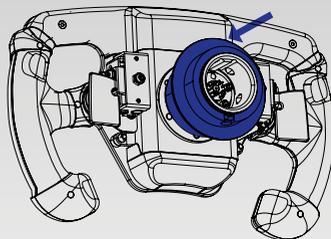


Now release the sleeve of the Quick Release mechanism.

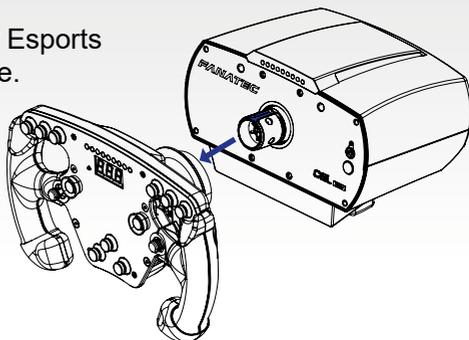
⚠ IMPORTANT: Take care not to use too much force while attaching the ClubSport Steering Wheel F1® Esports to avoid damage! You may need to push the ClubSport Steering Wheel F1® Esports with a slightly higher force onto the wheel base axis, particularly on the last 8 mm due to the O-ring on the wheel base axis.

6.5 Detaching the ClubSport Steering Wheel F1® Esports

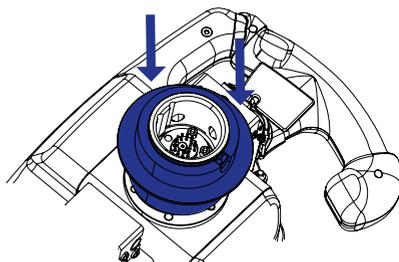
Compress and hold the Quick Release mechanism.



Slide the ClubSport Steering Wheel F1® Esports off from the CSL Elite Wheel Base + axle.

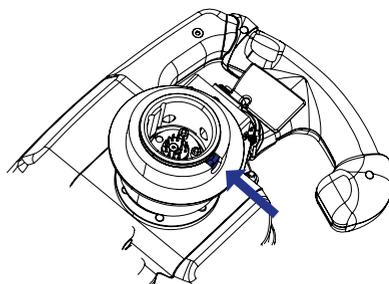


Compress and hold the Quick Release mechanism.



For long-term storage, insert the storage pin.

Release the sleeve of the Quick Release mechanism.

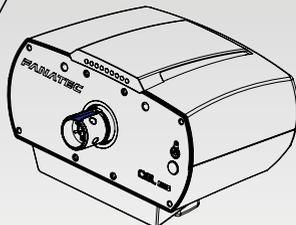


6.6 Attaching a CSL Steering Wheel with Simplified Quick Release

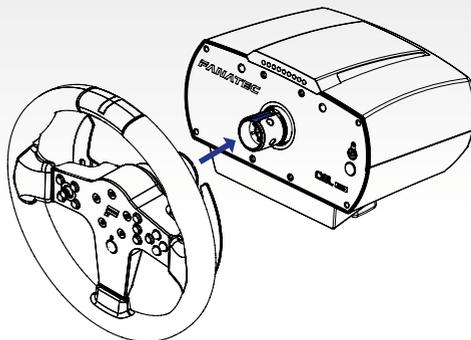
Use clamp ring bolt (M6 x 18mm flat head) and Allen key from box contents.



Align the CSL Elite Wheel Base +.

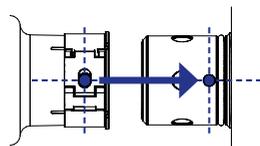


Slide the CSL Elite Steering Wheel onto the wheel base + axle.

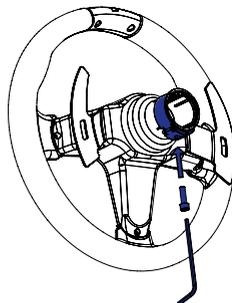


Turn the CSL Elite Steering Wheel top side down to see the bottom side of the clamp ring to follow the next step below.

Push the CSL Elite Steering Wheel until the bolt hole aligns with the hole on the CSL Elite Wheel Base + axle.



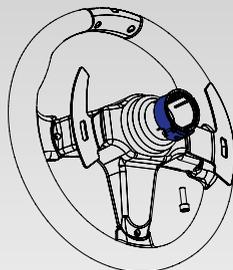
Tighten the bolt to fix the clamp ring mechanism. Use only the Allen key which comes with the CSL Elite Wheel Base +.



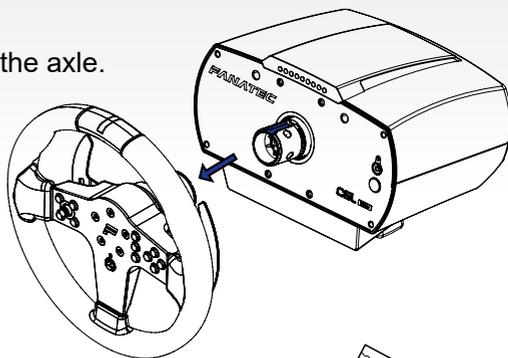
! **IMPORTANT:** Tighten only by using the short lever of the Allen key!

6.7 Detaching a Fanatec® CSL Steering Wheel

Remove the fixing bolt and open clamp ring mechanism. Use only the Allen key which comes with the steering wheel.



Carefully slide the steering wheel off the axle.



Store the clamp ring bolt and the Allen key safely.



6.8 ClubSport Static Shifter Paddles

On the front plate of the CSL Elite Wheel Base + there are four threaded holes with gears which are used for mounting the ClubSport Static Shifter Paddles as shown in the picture below:

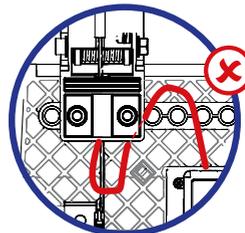
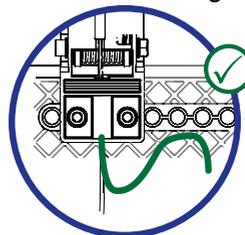
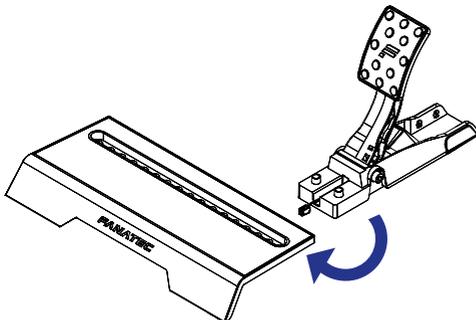


For assembly of the ClubSport Static Shifter Paddles, position the black washers included with the CSL Elite F1® Set between wheel base front plate and the static shifter paddles plate to ensure proper fitting.

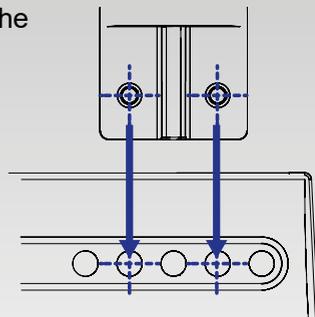
⚠ IMPORTANT: ClubSport Static Shifter Paddles are sold separately and not included within the CSL Elite F1® Set package contents. Mounting bolts for the ClubSport Static Shifter Paddles are included within the package contents of the ClubSport Static Shifter Paddles.

6.9 CSL Elite Pedals Assembly

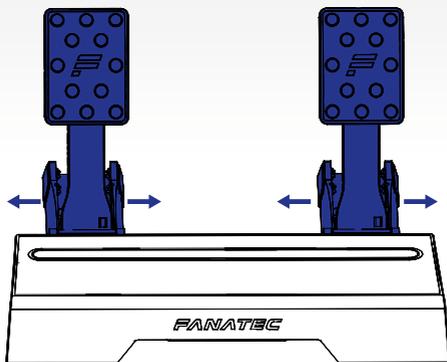
Combine the brake and gas pedal units with the heel rest and tighten the bolts. Avoid clamping the cables of the pedal units!



Align the holes of the pedal units with the holes of the heel rest.

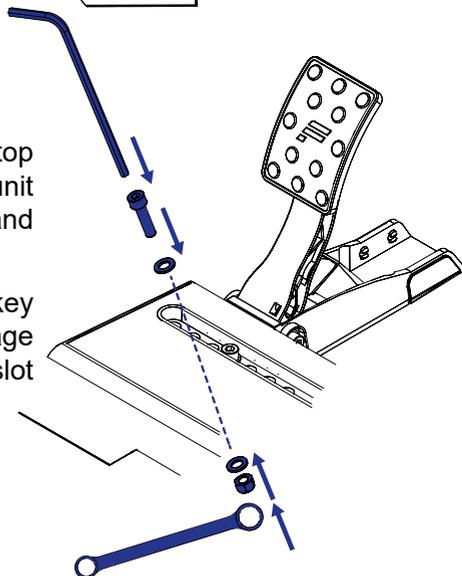


Try different positions for the brake and gas pedal units to find your favorite adjustment.

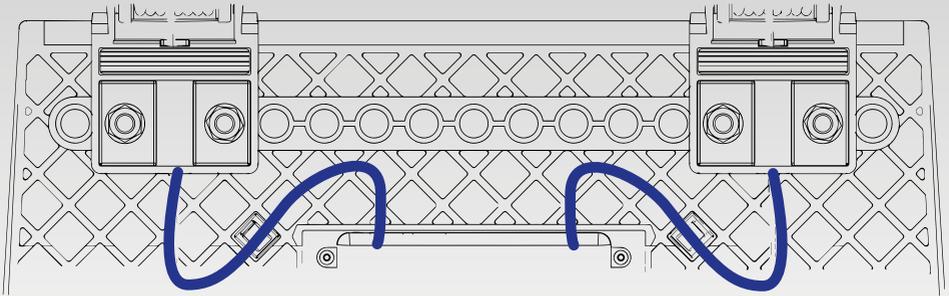


Insert the M8 bolts with washer from the top side through the heel rest and pedal unit (brake / gas), then fasten with washer and nut from the bottom side.

Tighten the assembly by using the Allen key and the included wrench from the package contents. Once completed insert the slot cover into the heel rest.

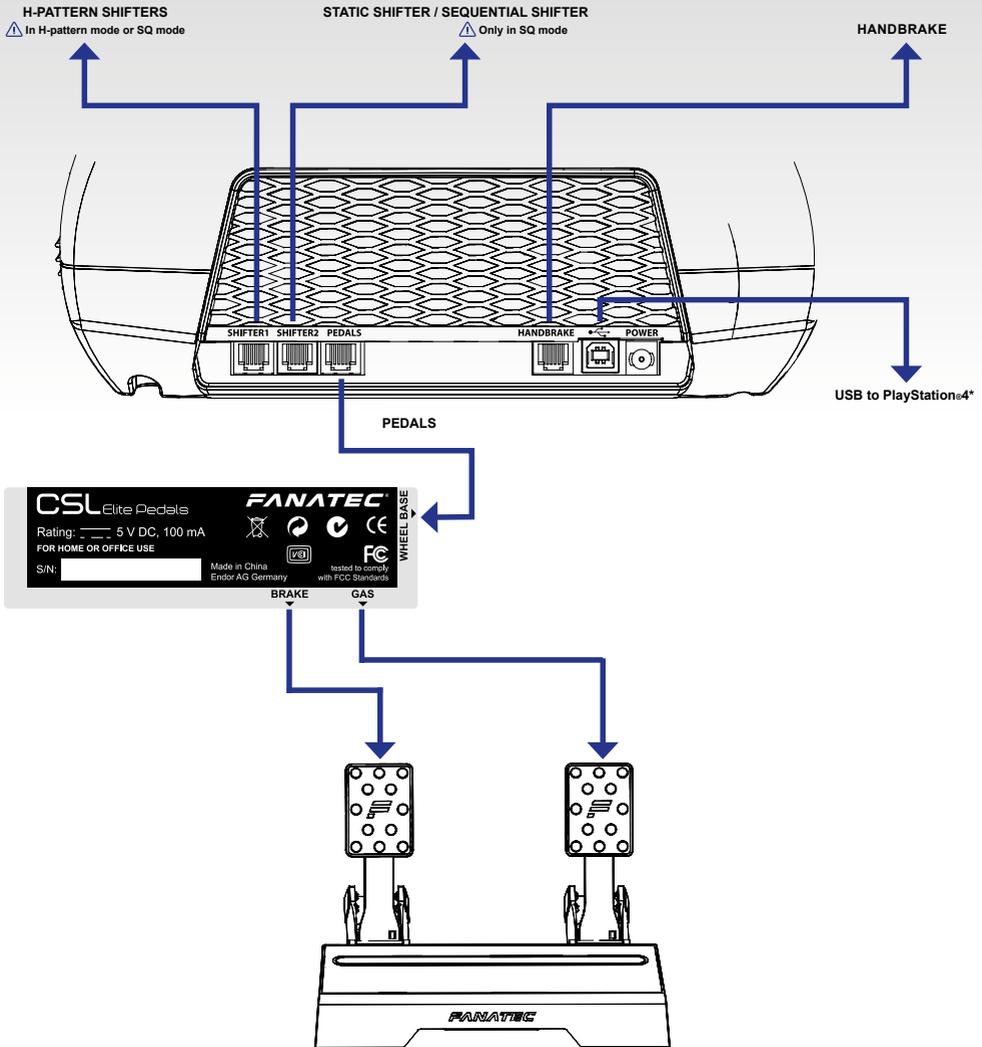


Connect the RJ12 plugs of the pedal unit cables to the corresponding ports.



6.10 Connections

To connect additional peripheral devices such as shifters, pedals, or handbrake to the CSL Elite Wheel Base +, there is a row of connector sockets at the lower rear side of the CSL Elite Wheel Base +:



⚠ IMPORTANT: Use only the USB cable with the straight plug packaged with the ClubSport Steering Wheel F1® Esports to avoid damage to the USB port.

6.10.1 USB

The USB port is used to connect the CSL Elite Wheel Base + to PlayStation®4 or other platforms*.

 **IMPORTANT:** Use only the USB cable with the straight plug which is packaged with your CSL Elite F1® Set to avoid damage to the CSL Elite F1® Set or PlayStation®4 electronics!

6.10.2 SHIFTER1

The SHIFTER1 port is used to connect H-pattern shifters to the CSL Elite F1® Set (e.g. the ClubSport Shifter or the ClubSport Shifter SQ in H-pattern mode.) Sequential shifters can also be connected to this port. Note: Sequential shifters connected to this port can be mapped identically to the shifter paddles at the CSL Elite Steering Wheel (PS4™ version) or any other Fanatec® steering wheels by PC* driver settings (see chapter 'PC* driver' of this user manual).

6.10.3 SHIFTER2

The SHIFTER2 port is used to connect sequential shifters to the CSL Elite F1® Set (e.g. the ClubSport Shifter SQ in SQ mode or the ClubSport Static Shifter Paddles.) Note: Sequential shifters connected to this port can be mapped identically to the shifter paddles at the CSL Elite Steering Wheel (PS4™ version) or any other Fanatec® steering wheels by PC* driver settings (see chapter 'PC* driver' of this user manual).

Attention: H-pattern shifters will not work on SHIFTER2 port!

6.10.4 PEDAL

The PEDAL port is used to connect the CSL Elite Pedals or other Fanatec pedals to the CSL Elite F1® Set. (e.g. CSL Elite Pedals LC or ClubSport Pedals V3).

6.10.5 HANDBRAKE

The HANDBRAKE port is used to connect an analogue handbrake device to the CSL Elite F1® Set.

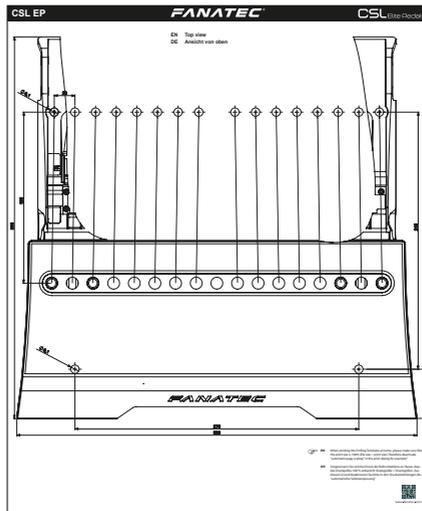
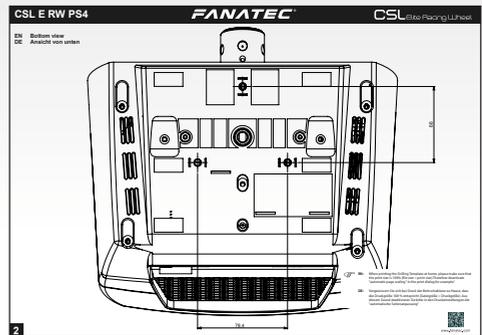
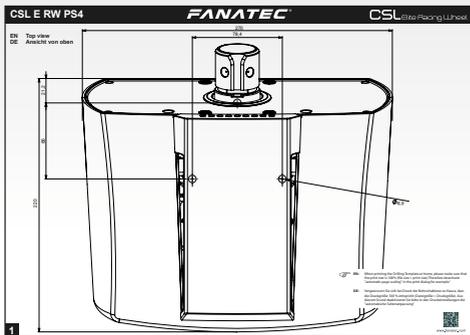
*PC compatibility not tested nor endorsed by Sony Interactive Entertainment LLC.

6.10.6 POWER

The POWER connector is used to connect the power supply to the CSL Elite Wheel Base +.

⚠ IMPORTANT: Please use only the power supply and power cord supplied with your CSL Elite F1® Set. Replacements may only be issued from an authorized repair center. See 'Electrical Safety' in Chapter 1 'General' for more details!

6.11 Drilling Template



⚠ ATTENTION: Please download and print the **drilling template** for hard-mounting the CSL Elite F1® Set from the download area of our website www.fanatec.com.

7 FUNCTIONS & FEATURES

The CSL Elite F1® Set has specific firmware handling the device communication to PlayStation®4 and other platforms* as well as to other hardware peripheral devices such as shifters and pedals. This firmware provides different functions for the user.

7.1 Firmware and driver update

The firmware and PC* driver can be updated to newer versions from Fanatec®. These updates may include bug fixes or introduce new features and compatibilities.

Before first use, the CSL Elite F1® Set must be updated to the latest firmware version, available in the Downloads section of our website www.fanatec.com.

You also have to use the latest PC* driver version in order to use the CSL Elite F1® Set 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 CSL Elite F1® Set is secured by firmware and by driver to prevent the installation of wrong firmwares on the CSL Elite F1® Set! Do not try to force installation of any wrong firmware to the CSL Elite F1® Set to avoid damages.

 **IMPORTANT:** After firmware update, the center position of the CSL Elite F1® Set has to be manually calibrated again. This is also indicated by the LED display of the attached steering wheel showing 'CAL'. This message will disappear after manual calibration of the wheel center. See chapter 'Hotkeys'  'Wheel center calibration' for more details.

 **IMPORTANT:** After firmware update the H-pattern shifter connected to the CSL Elite F1® Set has to be manually calibrated again. See chapter 'Hotkeys'  'Shifter calibration mode' for more details.

*PC compatibility not tested nor endorsed by Sony Interactive Entertainment LLC.

7.1.1 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 CSL Elite F1® Set.

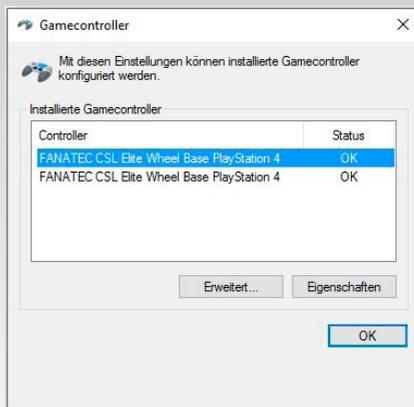
When you start the driver this window as shown on the right-hand side will appear and show all connected USB devices:

Double-click on the detected device to proceed to the various menu tabs.

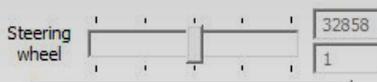
The 'Function Test' tab will display the attached Fanatec® Steering Wheel.

This window provides a lot of diagnostic information and gives the option to test the hardware and peripherals:

*PC compatibility not tested nor endorsed by Sony Interactive Entertainment LLC.



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 **“Display test”** button 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 **“FFB test”** button starts a force feedback test and activates the motor of the CSL Elite F1® Set to check proper functionality.

The **“Wheel Base RevLEDs test”** button starts a signal flow on the LED bar on the upper front side of the CSL Elite Wheel Base and activates them to test proper functionality of each single LED.

The **“Steering Wheel RevLEDs test”** button 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 only available for steering wheels which have Rev-LEDs, refer to the product description of the used steering wheel.

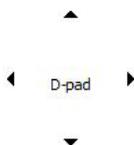
The **“Vibration test”** button starts a vibration signal to activate the vibration motors inside supported Fanatec® steering wheels, such as the included ClubSport Steering Wheel F1® Esports

Clutch Brake Throttle Handbrake



The **“Clutch”**, **“Brake”**, and **“Throttle”** indicators 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 CSL Elite F1® Set.

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

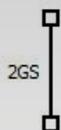


The **“D-pad”** arrows (up, down, left, right) change their colour from black to blue when the corresponding direction is pressed on the attached Fanatec® steering wheel.

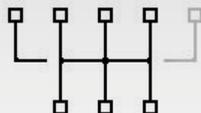
Rotary Encoder



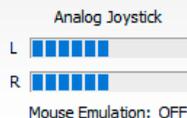
The **“Rotary Encoder”** boxes flash blue when turning the FunkySwitch™ left or right.



The “**2GS**” indicator shows the activation of the 2GS (two gears shifter, sequential shifter, SQ) with a blue square, depending on the activated shifting position (up or down). This can be for example the ClubSport Static Shifter Paddles or the ClubSport Shifter 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) with a blue square, depending on the activated shifting position. This can be for example the ClubSport Shifter or ClubSport Shifter SQ. Therefore, the H-pattern shifter must be calibrated. See chapter ‘Hotkeys’ → ‘Shifter calibration mode’ for more details

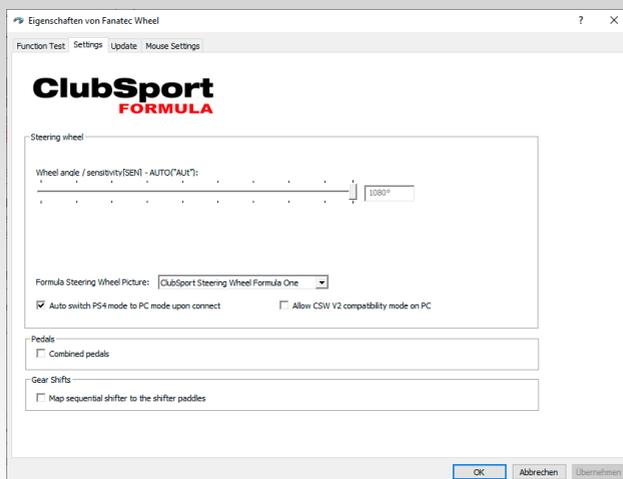


The “**Analogue Stick**” on the left side of the ClubSport Steering Wheel F1® Esports has a x-axis and y-axis which are shown by the two bars on the left-hand side. The Analogue Stick can be used as a mouse on the PC.

The biggest area in this window is the upper right section, showing 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 highlighted with a blue spot as long as the button is physically activated. Please note that this view changes depending on the attached Fanatec® steering wheel. See example picture for the ClubSport Steering Wheel F1® Esports below:



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



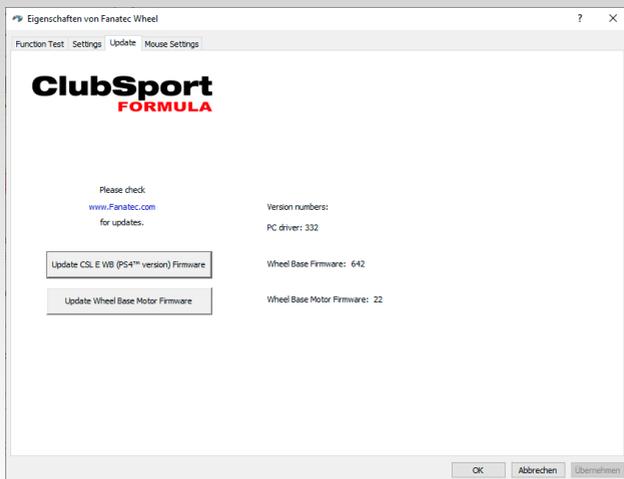
The **“Wheel angle / sensitivity”** bar can adjust the maximum turning angle of the CSL Elite F1® Set, so the functionality is identical with the option ‘SEN’ in Tuning Menu (see chapter ‘Tuning Menu’ of this manual for more detailed information). Note that in Tuning Menu the value for ‘SEN’ must be 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.

In the **“Pedals”** section 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 the **“Gear shifts”** section 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 on Fanatec® steering wheels. If you want to change the mapping so that the inputs for these shifters are mapped identically to the Fanatec® steering wheel shifter paddles, activate this checkbox.

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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
- Quick link to the Fanatec® homepage www.fanatec.com

Below the shown information there is the button “**Update CSL E WB (PS4™ Version) Firmware**”. When pressing this button the firmware update process for the CSL Elite F1® Set will start (see more detailed description in chapter “Firmware update procedure” below in this user manual).

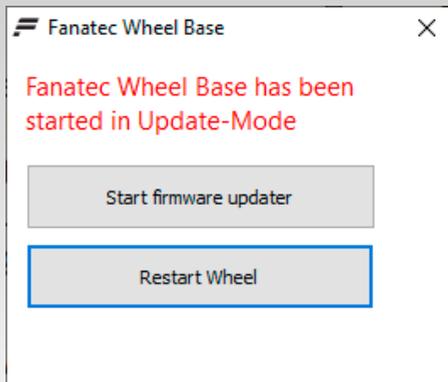
7.1.2 Firmware update procedure

To initiate the firmware update the CSL Elite F1® Set first has to be connected to the PC* by USB cable and then it has to 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 CSL E WB (PS4™ Version) Firmware** when the CSL Elite F1® Set is switched ON, see previous chapter 'PC* driver'
- by pressing the ON/OFF button “” on the front plate of the CSL Elite F1® Set for about 8 seconds when the CSL Elite F1® Set is switched OFF.

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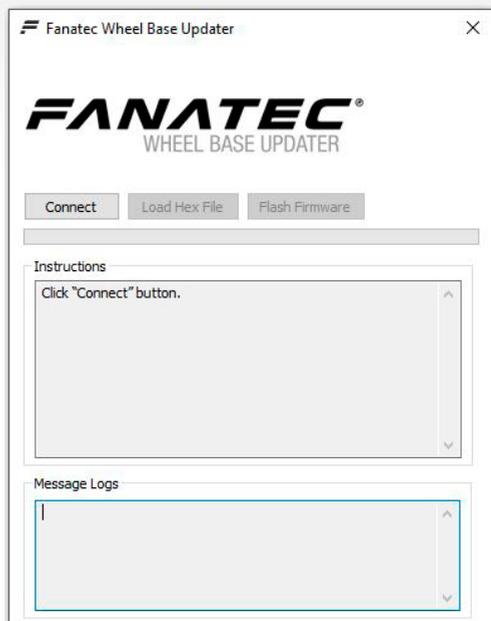
When the Bootloader mode is active the LED above the ON/OFF button “⏻” will be flashing blue. The cooling fan will also switch off. On the PC* screen this window will appear automatically as shown on the right-hand side:



Click on the upper button ‘Start firmware updater’.

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

Connect to your CSL Elite Wheel Base + by pressing the button ‘Connect’.



*PC compatibility not tested nor endorsed by Sony Interactive Entertainment LLC.

When the Wheel Base Updater is connected to the CSL Elite Wheel Base + 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 CSL Elite Wheel Base + will restart automatically after firmware update is completely finished as shown on the right-hand side:

The CSL Elite Wheel Base + switches off and on automatically followed by executing the calibration run.

⚠ IMPORTANT: Do not touch the attached steering wheel while the CSL Elite Wheel Base + restarts and performs the initial calibration run to avoid injuries and/or miscalibration!



⚠ IMPORTANT: The CSL Elite F1® Set is secured by firmware and by driver to prevent the installation of wrong firmwares on the CSL Elite F1® Set! Do not try to force installation of any wrong firmware to the CSL Elite F1® Set to avoid damages.

⚠ IMPORTANT: After firmware update the center position of the CSL Elite Wheel Base + has to be manually calibrated again. This is also indicated by the LED display of the steering wheel showing 'CAL'. This message will disappear after manual calibration of the wheel center. See chapter 'Hotkeys' 🖱 'Wheel center calibration' for more details.

⚠ IMPORTANT: After firmware update the H-pattern shifter connected to the CSL Elite Wheel Base + has to be manually calibrated again. See chapter 'Hotkeys' 🖱 'Shifter calibration mode' for more details.

7.2 Start-Up procedure

The CSL Elite F1® Set has an improved and faster start-up procedure:

⚠ ATTENTION: When initialization and auto calibration of the CSL Elite F1® Set is in progress never touch the attached steering wheel in order to avoid injuries or incorrect calibration!

- **Step 1:** Press the ON/OFF button “⏻” at the front plate of the CSL Elite F1® Set, marked in the picture on the right:
- **Step 2:** The fans start and the LED above the ON/OFF Button “⏻” is lit red.
- **Step 3:** The CSL Elite F1® Set starts turning to the right side (clockwise) until mechanical limit is reached. Then it runs back to the 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 CSL Elite F1® Set 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).
- **Step 4:** 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: 
- **Step 5:** If the center was not yet calibrated `CAL` will blink on the 7-digit display on the steering wheel as shown on the picture on the right: 
 - Proceed with a manual wheel center calibration as described in chapter ‘Hotkeys’ of this manual.
 - The CSL Elite F1® Set is ready to use after manual wheel center calibration.
- **Step 6:** Your CSL Elite F1® Set is ready to use. If the wheel center was previously calibrated, step 5 can be skipped and the CSL Elite F1® Set is ready to use immediately. If you use a H-pattern shifter the wheel base firmware will request to calibrate the gears automatically now. Refer to chapter ‘Shifter calibration mode later in this user manual’.



7.3 Tuning Menu

Activate the Tuning Menu by pressing the Tuning Menu button (see the 'Hotkeys' chapter of this user manual). The menu will be shown on the tuning display of the Fanatec® steering wheel. To navigate through the Tuning Menu, use the directional stick of the Fanatec® steering wheel.

Note: Tuning functions are subject to change and may be altered in future firmware versions.

7.3.1 S_1 ... S_5 (Setups)

Setups range: S_1 ... S_5

Setups default: S_1

The CSL Elite F1® Set provides five different setups to store your adjusted values independently from each other. To change which setup is active, move the directional stick of the Fanatec® steering wheel up or down.

7.3.2 SEN (Sensitivity)

SEN range: 009 ... 108 → AUT

SEN default: AUT

The sensitivity defines the steering angle. If SEN is set to 009 the steering wheel can only be turned 90° (45° to left and 45° to right side direction from calibrated center position). If SEN is set to 108 the steering wheel can be turned the mechanical maximum way of 1080° (540° to left and 540° to right side direction from calibrated center position). If SEN is set to AUT the sensitivity is controlled by the PC* driver (see chapter PC* driver for more details) or by the game if it supports this feature. To change the active value, move the directional stick of the Fanatec® steering wheel up or down.

7.3.3 FF (Force Feedback)

FF range: OFF → 001 ... 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 CSL Elite F1® Set. If FF is set to OFF, there will be no force feedback effect executed by the CSL Elite F1® Set motor. If FF is set to 001, the motor will execute only 1% of the maximum motor power. If FF is set to 100, the motor will execute 100% of the maximum motor power. To change the active value, move the directional stick of the Fanatec® steering wheel up or down. 'It is recommended to run higher 'FF' values and lower in-game strength values to avoid force feedback clipping.

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7.3.4 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.

7.3.5 ABS

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

This feature gives you a direct feedback based on 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 setting SHO to "0") AND the vibration motor on a CSP (V2 or V3) 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 active value, move the directional stick of the Fanatec® steering wheel up or down.

7.3.6 DRI (Drift mode)

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

The drift mode reduces 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 -01 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 games FFB interferes with this feature) you might experience some oscillation. If that happens - reduce the value or turn DRI "-05".

To change the active value, move the directional stick of the Fanatec® steering wheel in the up or down direction. "-05" to "-01" is a damper effect (natural damper), "OFF" is without damper effect and "001" or higher values are with motor assistance to accelerate the steering wheel.

7.3.7 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 specific direction), spring (pulls the wheel towards the dynamic centre) 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 CSL Elite F1® Set you can increase or reduce these different effects individually. To change the active value, move the directional stick of the Fanatec® steering wheel up or down.

Note: If SPR is set to low values or 'OFF' the CSL Elite F1® Set will not be able to move the attached steering wheel to the correct center position after calibration run.

 **IMPORTANT:** 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 generation.

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

7.3.8 FEI (Force Effect Intensity)

FEI range: OFF ... 100 **FEI default:** 050

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.

7.3.9 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 CSL Elite F1® Set and/or the attached steering wheel (depending on steering wheel type). To change the active value, move the directional stick of the Fanatec® steering wheel up or down.

⚠ NOTE: The BRF parameter is only available when a supported pedal set is connected to the PEDAL port of the CSL Elite F1® Set. Please read the description and/or manuals of your pedals to verify if the BRF feature is supported. For reference, the CSL Elite Pedals LC (i.e. CSL Elite Pedals with Loadcell Kit) support this feature.

7.4 Revolution Lights (RevLEDs)

The CSL Elite F1® Set offers the RevLEDs feature integrated directly into the wheel base. This RevLEDs are usually mirrored with the RevLEDs of the steering wheel. Games supporting the steering wheel RevLEDs by default will also support the wheel base RevLEDs.



Further, if games make use of it, the RevLEDs of the wheel base can indicate a different function than the Steering Wheel RevLEDs. Example: Wheel Base RevLEDs show the fuel level while the steering wheel RevLEDs indicate engine RPM and help the driver shift up at the best moment.

Beyond this in-game feature, the RevLEDs are also a helpful indicator in case of any unexpected behaviour: While the wheel calibration runs after power ON is proceeding, the RevLEDs of the wheel base show the current status. For example, if no steering wheel is attached or is attached but cannot be detected and identified, the three blue RevLEDs will not be lit.

After calibration run is completed the RevLEDs turn off automatically and the game or software takes control.

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7.5 Cooling system

To avoid damage to the CSL Elite F1® Set there is an effective cooling system integrated to the hardware, controlled by firmware.



7.5.1 Hardware measures

The CSL Elite F1® Set has a fan inside which carries out the hot air from the inside of the CSL Elite F1® Set.

Make sure that there is nothing blocking the air intake at the back of the wheel base.

7.5.2 Automatic fan adjustment

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

When switching ON, the CSL Elite F1® Set fan operates at maximum speed until calibration run is completed.

The operation speed of the fan is adjusted according to the currently detected temperature of the motor inside the CSL Elite F1® Set and could even stop, depending on your firmware version.

The temperature control and fan behaviour is subject to change by firmware updates.

8 ELECTRICAL OPERATION

8.1 Hotkeys

8.1.1 Tuning Menu

To enter the Tuning Menu, use the Tuning Menu button on the ClubSport Steering Wheel F1® Esports (see corresponding quick guide of your Fanatec® steering wheel). The picture shows the Tuning Menu button of the ClubSport Steering Wheel F1® Esports as an example:



8.1.2 Restore original Tuning Menu settings

To restore the original Tuning Menu settings, open the Tuning Menu. S_1 will be shown on the tuning display. Then press and hold the Tuning Menu button for about five seconds until 'rSt' is displayed.

8.1.3 Wheel center calibration

If a center calibration is needed (e.g. after updating the firmware of the CSL Elite Wheel Base +) first you need to enter the Tuning Menu as described above.

When you use the CSL Elite Steering Wheel (PS4™ version) you must press the buttons **OP** + **X** at the same time.

When you use a Fanatec® steering wheel from the ClubSport Series you must press the left and right stick at the same time. Please see corresponding quick guide of the Fanatec® steering wheel you decide to use with the CSL Elite F1® Set (PS4™ version).



⚠ ATTENTION: When initialization and auto calibration of the CSL Elite F1® Set is in progress never touch the attached steering wheel in order to avoid injuries or incorrect calibration!

8.1.4 Switching modes

The CSL Elite F1® Set will start in “PlayStation®4 Mode” by default. To switch to other modes press the ‘Mode’ button once. The LED above the “⏻” button will indicate the current operation mode (more colours can be shown with other compatible platforms):

- Blue indicates „PlayStation®4 mode“
- Red indicates „PC* mode“

Additional after pressing the Mode Button 3 seconds:

- Yellow indicates „ClubSport Wheel Base V2 compatibility mode“

⚠ NOTE: Once the mode is changed manually the CSL Elite F1® Set will remember the last active mode and will boot in the same mode next time. Exception: After a firmware update is completed.



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8.1.5 Shifter calibration mode

To enter the H-pattern shifter calibration mode press buttons **OP** + **⚙️** of the CSL Elite Steering Wheel (PS4™ version) at the same time while H-pattern shifter is connected, see picture on the right-hand side:



To enter shifter calibration mode, simultaneously press the Tuning Menu button + **OP**, highlighted on the right-hand side.

For the detailed process read the shifter manual.

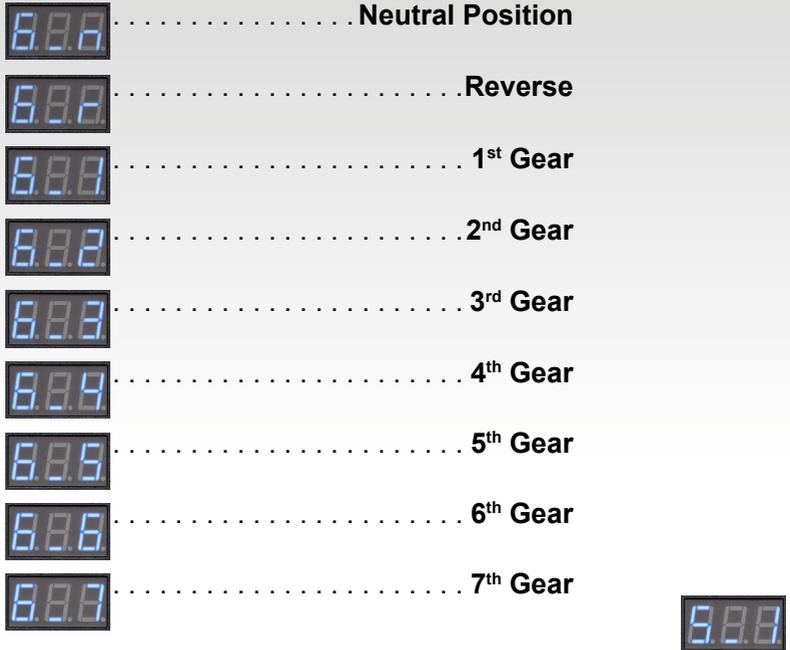


Please refer to the quick guides of your Fanatec® steering wheel for more detailed information.

⚠️ NOTE: After a firmware update the CSL Elite F1® Set will request the shifter calibration automatically as soon as a non-calibrated H-pattern shifter is connected and detected. The menu will guide you through the calibration steps as described below.

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

The following pictures show the instructions on the LED display of the CSL Elite Steering Wheel (PS4™ version) but are similar on other Fanatec® steering wheels:



If your shifter has no 7th gear, acknowledge it by pressing **OP** / **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: If you did not intend to enter the shifter calibration mode simply complete the calibration process either without a connected shifter or without moving the shifter lever. You may then leave the shifter calibration mode at the end of the process. This has no impact on the CSL Elite F1® Set original calibration itself and you can go ahead without a shifter.

9

CLEANING

Clean only with a dry or slightly damp cloth. Using cleaning solutions may damage your CSL Elite F1® Set.

10

TROUBLESHOOTING

The CSL Elite F1® Set 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 CSL Elite F1® Set, please use the following guide for elimination of errors which is available in the Downloads tab of the product page on www.fanatec.com.

If the CSL Elite F1® Set is not working properly:

Problem description	Solution
After firmware update of the CSL Elite F1® Set the steering wheel is not properly centered.	After doing a firmware update on the CSL Elite F1® Set the wheel center position must be manually calibrated. See chapter 'CSL Racing Wheel Functions' → 'Firmware and driver update' of this manual for more details.
After firmware update of the CSL Elite F1® Set the H-pattern shifter is not working properly.	After doing a firmware update on the CSL Elite F1® Set the H-pattern shifter must be manually calibrated. See chapter 'CSL Elite F1® Set 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 CSL Elite F1® Set to the latest firmware version which can be downloaded from the Downloads section of the Fanatec website www.fanatec.com .
	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 CSL Elite F1® Set might be damaged.

Problem description	Solution
The tuning display does not show anything or is not working properly.	<p>Try to use another steering wheel. If this is also not working properly the CSL Elite F1® Set might be damaged.</p> <p>Check the pins inside the quick release of the steering wheel, these must not be bent or damaged.</p>
After switching on the CSL Elite F1® Set the auto calibration is not working properly.	Make sure that you have updated your CSL Elite F1® Set to the latest firmware version which can be downloaded from the Downloads section of the Fanatec website www.fanatec.com .
After playing a while the CSL Elite F1® Set seems to become weaker or is fading.	<p>When the motor temperature is close to the upper limit the Tuning Menu values will be overwritten to regular maximum values (not higher than 100 %).</p> <p>Additionally, the motor power level is controlled by firmware so that the FFB strength may fade in this high temperature range but the motor will not be damaged. This allows extending the duration of driving before the motor has to completely stop operating to calm down.</p> <p>Let your CSL Elite F1® Set cool down before continuing to use it.</p>
After playing a while the CSL Elite F1® Set 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 CSL Elite F1® Set cool down before continuing to use it. Contact our customer support if this happens consecutively.</p>
Fan is always working in full speed even though the CSL Elite F1® Set was just powered ON and did not heat up due to driving yet.	In case of malfunctioning temperature sensor the fans will work at maximum speed to protect the hardware from overheat. Please contact our customer support. Note: The room temperature should be above 20°C.
After calibration run at startup of CSL Elite F1® Set 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'.

11 SERIAL NUMBER

Before contacting the Fanatec® Customer Support please note the serial number of your CSL Elite F1® Set:

- CSL Elite F1® Set - officially licensed for PS4™:
- CSL Elite Wheel Base (PS4™ version):
- ClubSport Steering Wheel F1® Esports:
- CSL Elite Pedals:

You can find the serial number on a sticker on the bottom side of your CSL Elite Wheel Base (PS4™ version) and of your ClubSport Steering Wheel F1® Esports on the bottom back cover.

The serial number of the CSL Elite F1® Set - officially licensed for PS4™-Set starts with letters '**RF**' and has additional 8 numbers, for example: **RF20672943**

The serial number of the CSL Elite Wheel Base (PS4™ version) starts with letters '**PV**' and has additional 8 numbers, for example: **PV12704023**.

The serial number of the ClubSport Steering Wheel F1® Esports starts with letters '**BX**' and has additional 8 numbers, for example: **BX59428394**

The serial number of the CSL Elite Pedals starts with letters '**ST**' and has additional 8 numbers, for example: **ST13794295**

This product is under warranty of Endor AG, E.ON-Allee 3, 84036 Landshut, Germany, US/CAN Support Telephone: +1 (424) 343-8129, Email: info.webshop@fanatec.com.

Refer also to the terms & conditions of Endor AG on www.fanatec.com/us-en/terms-and-conditions-us.html.

Please send Fanatec product returns to this address:

**Fanatec Service Center
c/o Ronay McClay
14221 Artesia Blvd
La Mirada, CA 90638 - USA**

12**TRADEMARKS**

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13**END OF LIFE PRODUCT
RECYCLING**

Please follow your local regulations when disposing of this product as e-waste.

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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.

Endor® AG („Endor“) warrants to the original purchaser that the Fanatec® product, which includes components contained in the retail box with this product will be free from material defects in material and workmanship for a period of one year from the original date of purchase (the “Warranty Period”). This warranty is valid in the country where the product was purchased. **If this product is determined to be materially defective during the warranty period, your sole remedy and Endor’s sole and exclusive liability is limited to the repair or replacement of this product with a factory-recertified product, at Endor’s option.** For purposes of this Limited Hardware Warranty and Liability, “factory recertified” means a product that has been returned to its original specifications.

This warranty does not apply if this product

- a) is used with products that are not expressly declared in the product descriptions as compatible with this product;**
- b) is used with peripherals Endor does not license, expressly approve or sell. This includes non-licensed hardware enhancement devices, controllers, adaptors, and power supply devices (“non-licensed/non-approved peripherals”);**
- c) is used for any commercial purpose, including rental or arcade purposes;**
- d) is modified or tampered with contrary to the operating and maintenance instructions;**
- e) is damaged by the acts of God (natural disasters), negligence, accidents, wear and tear, unreasonable use, or by causes unrelated to defective materials or workmanship;**
- f) has the serial number altered, defaced or removed (where applicable);**
- g) has the warranty seal altered, defaced or removed (where applicable).**

This warranty does not cover consumables (such as batteries) or products sold and clearly marked “AS IS” or with faults. Endor may void this warranty if:

- 1) Endor reasonably believes that the product has been used in a manner that violates the terms of a separate end user agreement for firmware, system software or game software;**

- 2) the product is used with non-licensed/non-approved peripherals. Consumer assume all risks and liabilities associated with use of third-party products.

This warranty is provided to you in lieu of all other express or implied warranties. This includes warranties of merchantability and fitness for a particular purpose for this product, which Endor disclaims under these terms. However, if applicable law requires any of these warranties, then they are limited in duration to the warranty period.

Except as expressly stated above, Endor excludes all liability for loss of data, loss of profit, or any loss or damage suffered by you or any third party, whether those damages are direct, indirect, consequential, special, or incidental and however arising under any theory of law, as a result of using this product. Some states or provinces do not allow limitations on how long an implied warranty lasts and some states do not allow the exclusion or limitations of consequential or incidental damages, so these limitations or exclusions may not apply to you. This warranty gives you specific legal rights. You may also have other rights which vary from state to state or province to province. The warranty offered by Endor on this product is the same whether or not you register your product.

This warranty does not apply to any system software / firmware that is pre-installed in the purchased product, or is subsequently provided via update or upgrade releases. In case of issues apparently related to system software / firmware as well as any other product related issues, Endor recommends checking the FAQ database at www.fanatec.com to see if your problem can be solved there.

Manufactured by



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