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› [Fanatec](#) /

› FANATEC CSL DD QR2 Wheel Base (5 Nm) Instruction Manual

Fanatec CSL_DD_QR2L_90_US

FANATEC CSL DD QR2 Wheel Base (5 Nm) Instruction Manual

Model: CSL_DD_QR2L_90_US

1. INTRODUCTION

This manual provides essential information for the setup, operation, and maintenance of your FANATEC CSL DD QR2 Wheel Base (5 Nm). Please read this manual thoroughly before using the product to ensure proper functionality and safety.

Package Contents

- CSL DD Wheel Base
- QR2 Lite Base-Side (Type-C) (preinstalled)
- 90W Power Supply (regional)
- 4x T-nuts for rail mount system
- USB Cable (Type-C to Type-A)
- Quick Guide



Figure 1.1: The FANATEC CSL DD QR2 Wheel Base, a direct drive system for sim racing.

2. SAFETY INFORMATION

Always observe the following safety precautions to prevent damage to the product or personal injury:

- Do not expose the device to moisture or extreme temperatures.
- Use only the provided power supply.
- Ensure proper ventilation around the wheel base.
- Keep out of reach of children.
- Disconnect power before cleaning or performing maintenance.

3. SETUP

3.1 Physical Installation

1. **Mounting the Wheel Base:** Secure the CSL DD Wheel Base to a stable desk or sim rig using the provided T-nuts and appropriate mounting hardware (not included for all setups). Ensure the base is firmly attached to prevent movement during use.
2. **Connecting the Power Supply:** Connect the 90W power supply to the wheel base and then to a wall outlet.
3. **Connecting to PC:** Use the supplied USB Type-C to Type-A cable to connect the wheel base to your PC.
4. **Attaching a Steering Wheel:** The QR2 Lite Base-Side is preinstalled. Align your QR2-compatible steering wheel with the base-side and push it firmly until it clicks into place.

DESIGNED FOR WINDOWS PC

Can also be used on Xbox when fitted with an Xbox licensed Steering Wheel. Full Fanatec SDK support ensures compatibility out of the box for all major racing games.



Figure 3.1: Rear view of the CSL DD QR2 Wheel Base showing various connection ports, including USB, power, and peripheral inputs for shifters, pedals, and handbrake.

3.2 Software Installation

For optimal performance, download and install the latest drivers and firmware from the official Fanatec website. The Fanatec Control Panel software allows for detailed configuration and calibration.

TUNING MENU

Get started quickly without having to worry about settings, Advanced Tuning Menu allows enthusiasts to fine-tune the force feedback characteristics to suit their driving preferences.

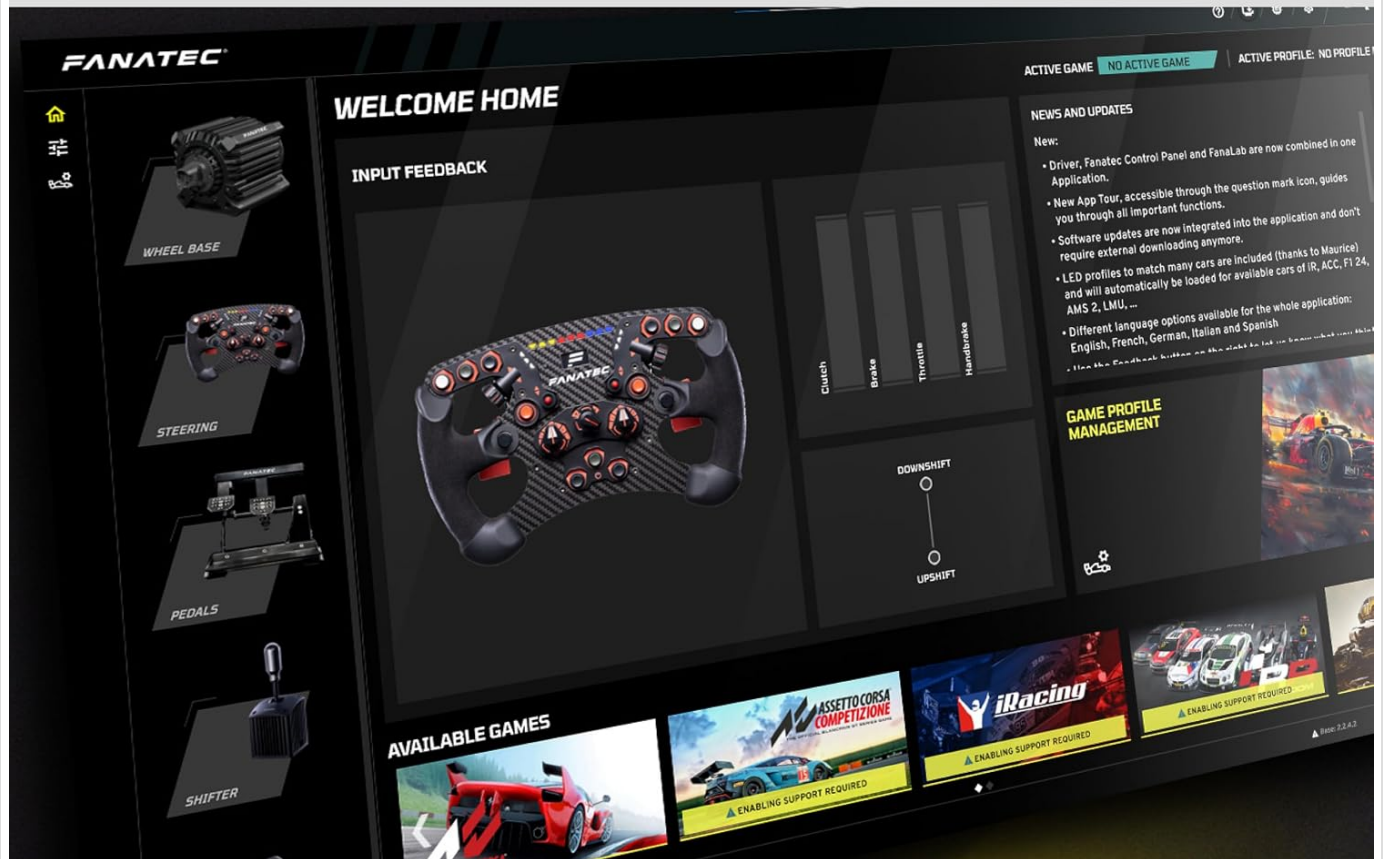


Figure 3.2: Screenshot of the Fanatec Tuning Menu, displaying options for force feedback adjustments and game profile management.

4. OPERATION

4.1 Direct Drive Technology

The CSL DD QR2 Wheel Base features a 5 Nm direct drive servo motor, custom-designed in Germany. This technology provides linear and consistent force feedback by directly mounting the steering wheel to the motor shaft, eliminating belts or gears that can dilute feedback effects. Patented FluxBarrier technology enhances motor efficiency and smoothness, delivering nuanced force feedback details.

5 NM DIRECT DRIVE SERVO MOTOR

Custom-designed in Germany for sim racing providing linear, consistent performance with patented FluxBarrier technology to improve motor efficiency and smoothness.

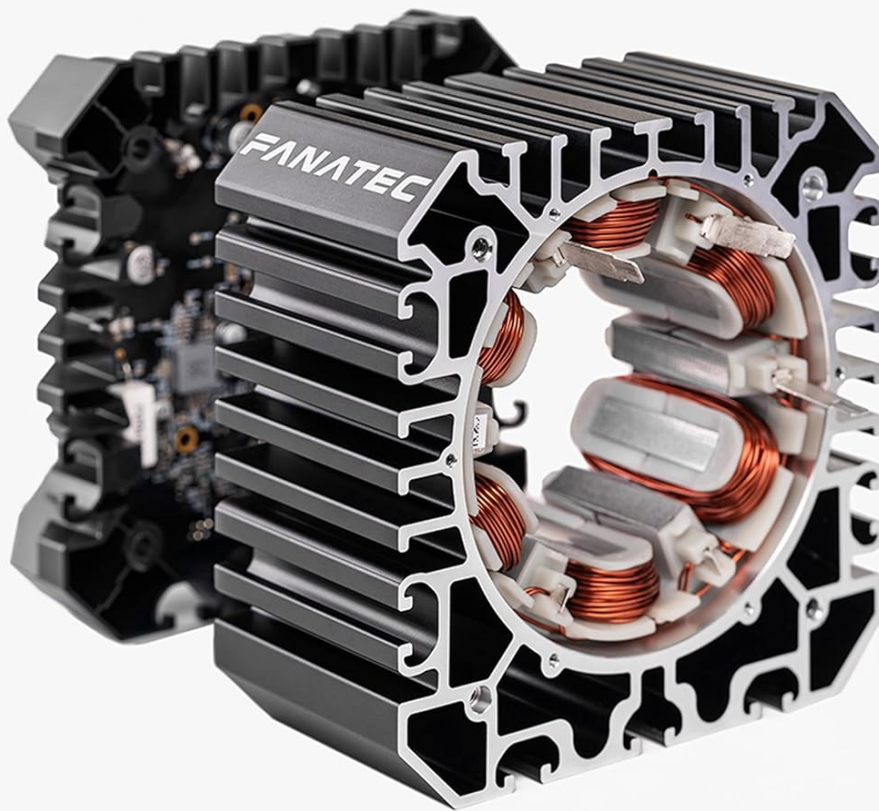


Figure 4.1: An internal view of the 5 Nm Direct Drive servo motor, highlighting its custom-designed components for sim racing.

4.2 QR2 Quick Release System

The QR2 Motorsport-Derived Quick-Release System allows for fast and secure switching of steering wheels. The carbon fiber-reinforced polyamide construction ensures a robust connection. The high-resolution (contactless) Hall-position-sensor ensures pinpoint steering accuracy across its 2520-degree rotation (electronically limited and adjustable).

HIGH-RESOLUTION (CONTACTLESS) HALL-POSITION-SENSOR

Ensures pinpoint steering accuracy across its 2520 degree rotation (electronically limited, adjustable).

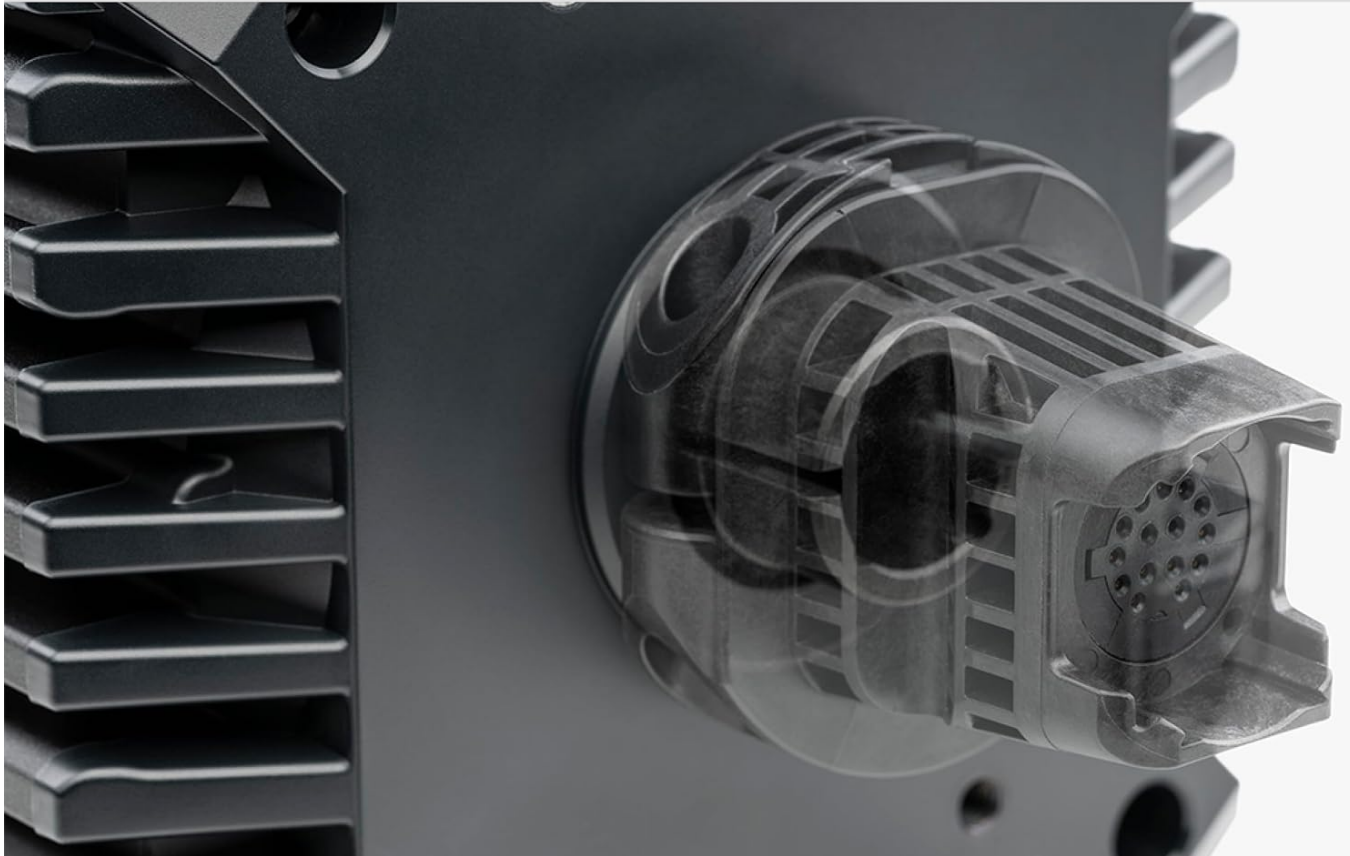


Figure 4.2: Detailed view of the QR2 quick release mechanism, showcasing the Hall-position-sensor for precise steering input.

4.3 Tuning Menu

The Fanatec Tuning Menu offers two modes:

- **Standard Tuning Menu:** Designed for quick setup, allowing users to get started without extensive configuration.
- **Advanced Tuning Menu:** Provides comprehensive options for enthusiasts to fine-tune force feedback characteristics to their specific preferences.

4.4 Boost Kit (Optional Upgrade)

The standard peak torque of the CSL DD QR2 Wheel Base is 5 Nm. An optional Boost Kit 180 (sold separately) can be purchased to unlock the full 8 Nm of torque, providing a more intense force feedback experience.

5. MAINTENANCE

5.1 Cleaning

Wipe the exterior of the wheel base with a soft, dry cloth. Do not use abrasive cleaners or solvents. Ensure no liquids enter the device.

5.2 Firmware Updates

Regularly check the Fanatec website for firmware updates. Keeping your device's firmware up-to-date ensures optimal performance, compatibility, and access to new features.

6. TROUBLESHOOTING

6.1 Common Issues

- **No Power:** Ensure the power supply is securely connected to both the wheel base and a working power outlet.
- **No Force Feedback:** Verify that drivers are installed correctly and the wheel base is recognized by your PC. Check in-game force feedback settings.
- **Steering Wheel Not Detected:** Ensure the steering wheel is properly attached to the QR2 mechanism until it clicks. Check for any debris in the connection.
- **Loose QR2 Connection (at 8 Nm):** If using the 8 Nm Boost Kit, ensure the QR2 connection is secure. For enhanced durability, consider upgrading to a metal QR2 base-side (sold separately) if experiencing looseness over time.

For further assistance, refer to the Fanatec support website or contact customer service.

7. SPECIFICATIONS

Product Name	FANATEC CSL DD QR2 Wheel Base
Model Number	CSL_DD_QR2L_90_US
Peak Torque	5 Nm (Standard), 8 Nm (with optional Boost Kit 180)
Motor Type	Direct Drive Servo Motor with FluxBarrier Technology
Cooling	Passively cooled (aluminum housing)
Quick Release System	QR2 Lite Base-Side (Type-C)
Compatibility	Windows PC (Xbox compatible with Xbox-licensed steering wheel)
Dimensions (Package)	14.96 x 12.01 x 11.34 inches
Weight (Item)	15.42 pounds
Manufacturer	Corsair (Fanatec Brand)

8. WARRANTY AND SUPPORT

For warranty information, please refer to the documentation included with your product or visit the official Fanatec website. For technical support, driver downloads, and frequently asked questions, please visit the Fanatec support portal.

Online Support: fanatec.com/support

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question