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› [LEGO](#) /

› [LEGO Technic Ferrari Daytona SP3 42143 Building Set Instruction Manual](#)

LEGO 42143

LEGO Technic Ferrari Daytona SP3 42143 Building Set Instruction Manual

BRAND: LEGO

Model: 42143

Features	Introduction	Setup	Operating
Maintenance	Troubleshooting	Specifications	Warranty & Support

1. INTRODUCTION

This instruction manual provides detailed guidance for assembling and understanding the features of your LEGO Technic Ferrari Daytona SP3 42143 building set. Designed for adult builders, this highly detailed model captures the essence of the iconic Ferrari Daytona SP3 supercar.

Key Features:

- Recreate the Ferrari Daytona SP3 with this LEGO Technic building set.
- The 4th addition to the LEGO Technic Ultimate Car Concept series.
- Designed in collaboration with Ferrari and featuring many authentic details.
- A car toy set for Ferrari fans and adult LEGO builders.
- Made for display with a decorated display plate and unique serial number.
- Comes with a displayable coffee-table-style booklet.
- Measures over 14 cm (5.5 in.) high, 59 cm (23 in.) long and 25 cm (9.5 in.) wide.
- The LEGO Technic universe offers an advanced building experience.
- LEGO Technic components meet rigorous industry quality standards.
- LEGO Technic components meet strict global safety standards.



Figure 1: The fully assembled LEGO Technic Ferrari Daytona SP3 42143 model.

2. SETUP AND ASSEMBLY

The LEGO Technic Ferrari Daytona SP3 42143 set is designed for an advanced building experience, recommended for ages 18 and up. It contains 3,778 pieces distributed across multiple numbered bags and boxes.

2.1 Unboxing and Preparation

The set comes in a premium box, reflecting the luxury of the supercar it represents. Inside, you will find three inner build boxes, each containing several numbered bags of LEGO elements and detailed instruction manuals. It is recommended to sort the pieces by bag number before starting each stage of the build.

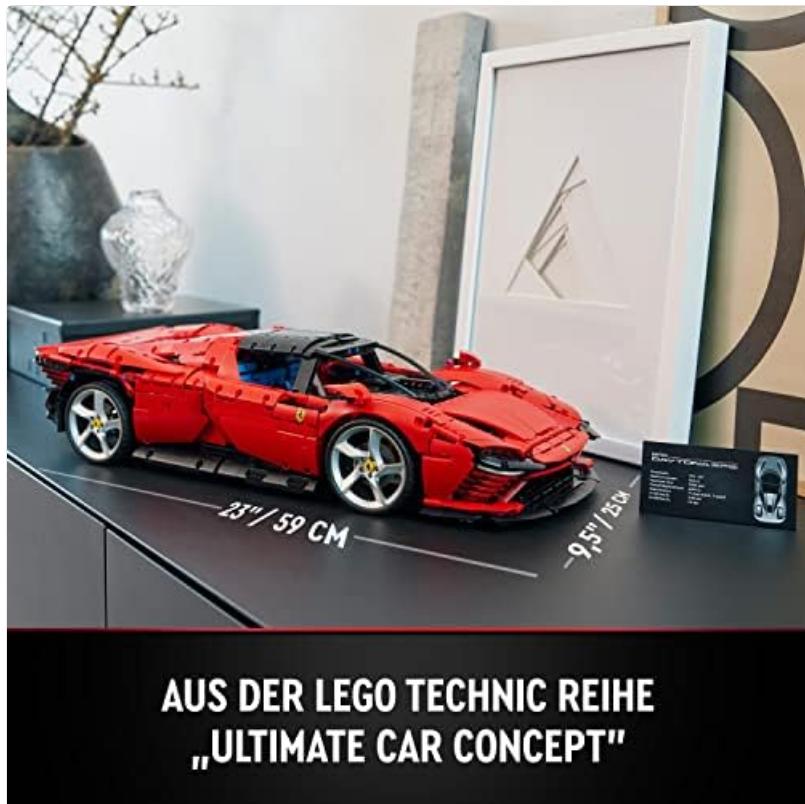


Figure 2: The elegant packaging of the LEGO Technic Ferrari Daytona SP3 42143 set.

2.2 Core Chassis and Gearbox Assembly

The initial stages of the build focus on the intricate internal mechanisms. You will begin by constructing the complex 8-speed sequential gearbox, a highlight of Technic engineering. This is followed by the assembly of the main chassis frame, integrating the gearbox and preparing for the suspension components.

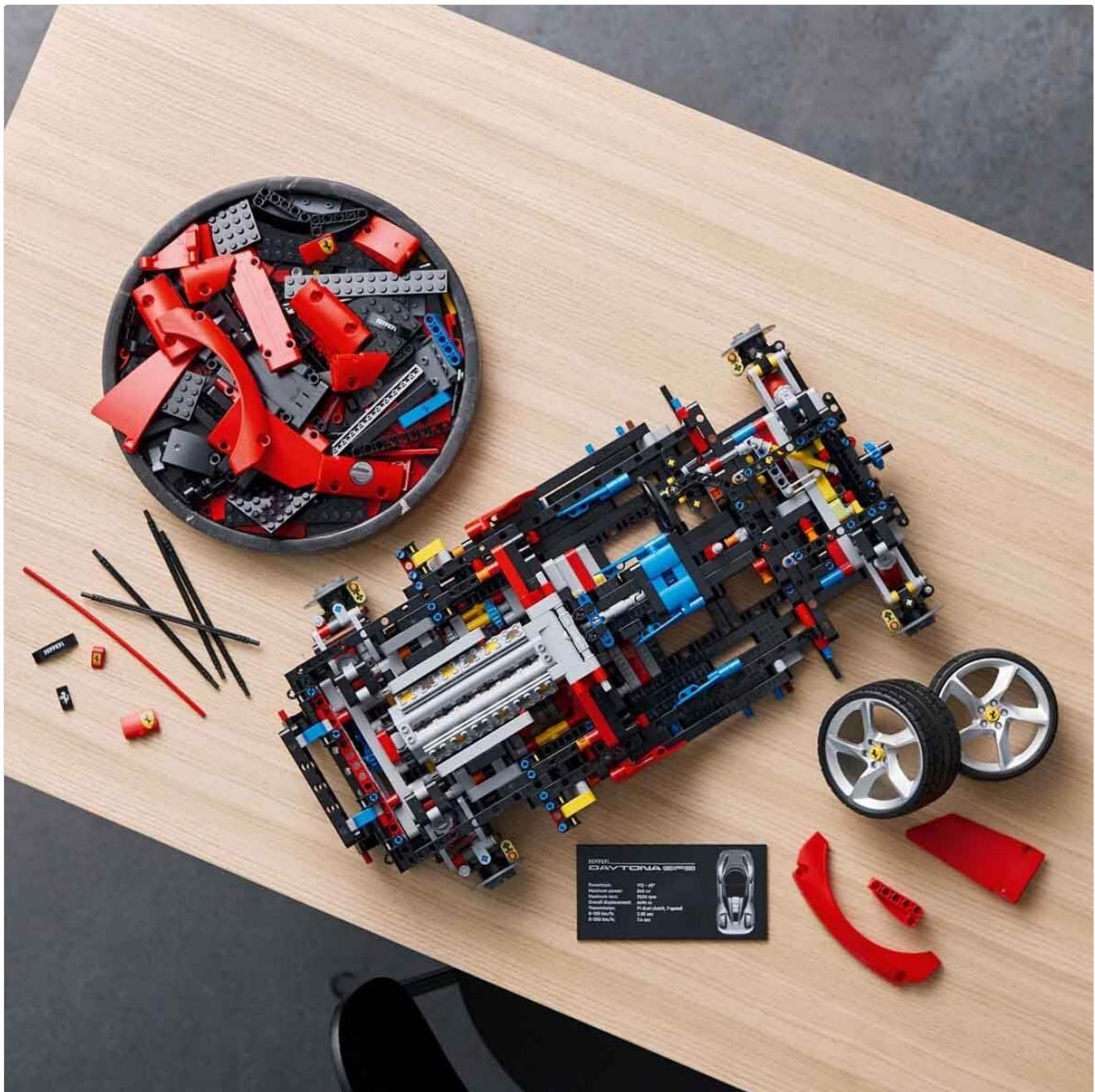


Figure 3: The initial chassis assembly with various Technic elements laid out.

2.3 Rear Axle, Suspension, and Engine

Next, the rear axle and suspension system are built, featuring coil-over shocks for a realistic and functional design. The detailed V12 engine is then assembled and integrated into the rear section of the chassis, connecting to the gearbox.

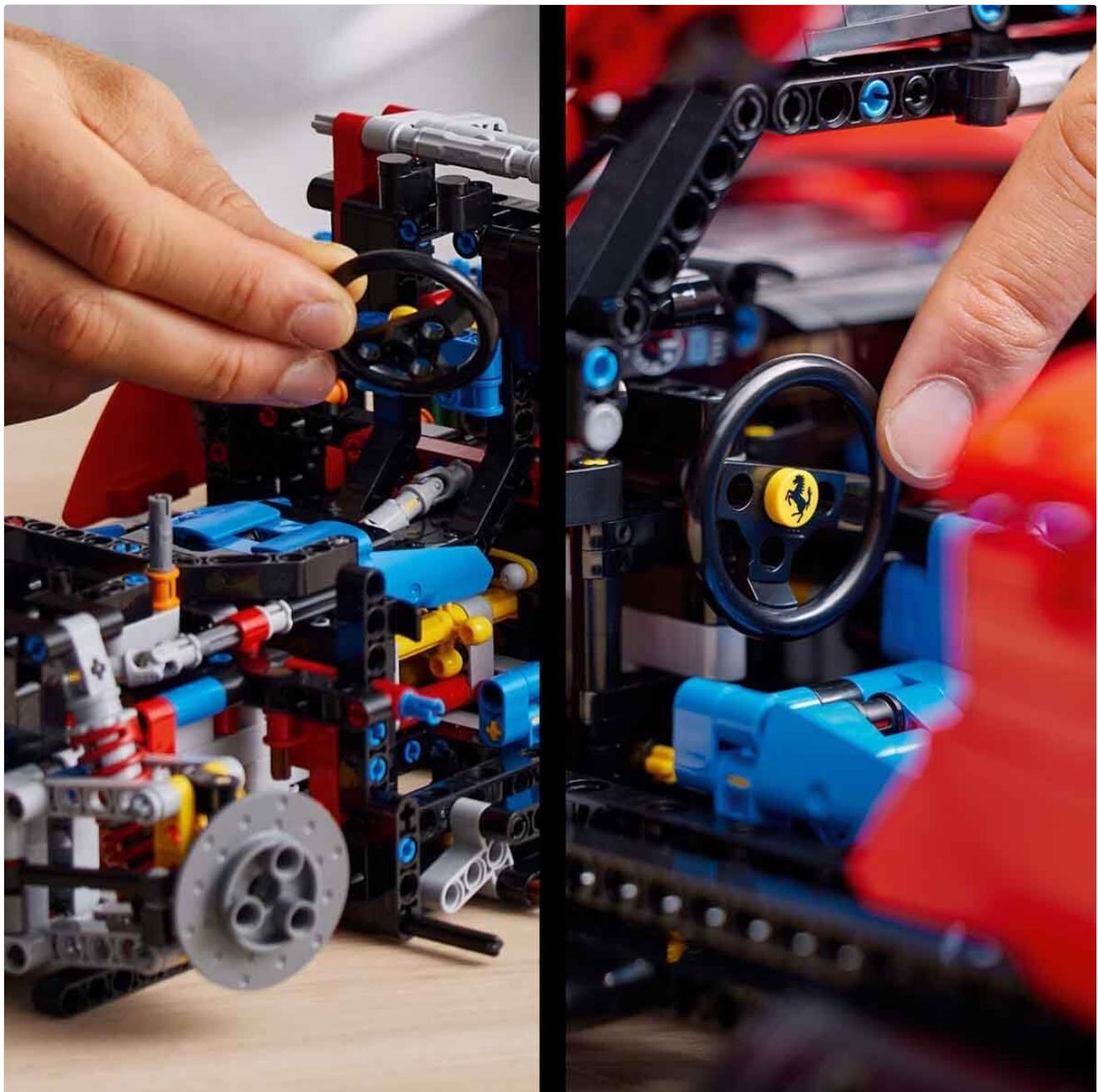


Figure 4: Close-up of the detailed V12 engine assembly.

2.4 Front Suspension and Steering

The front suspension setup is constructed, mirroring the realism of the rear. This section also incorporates the front steering assembly, which will later connect to the steering wheel in the cockpit.

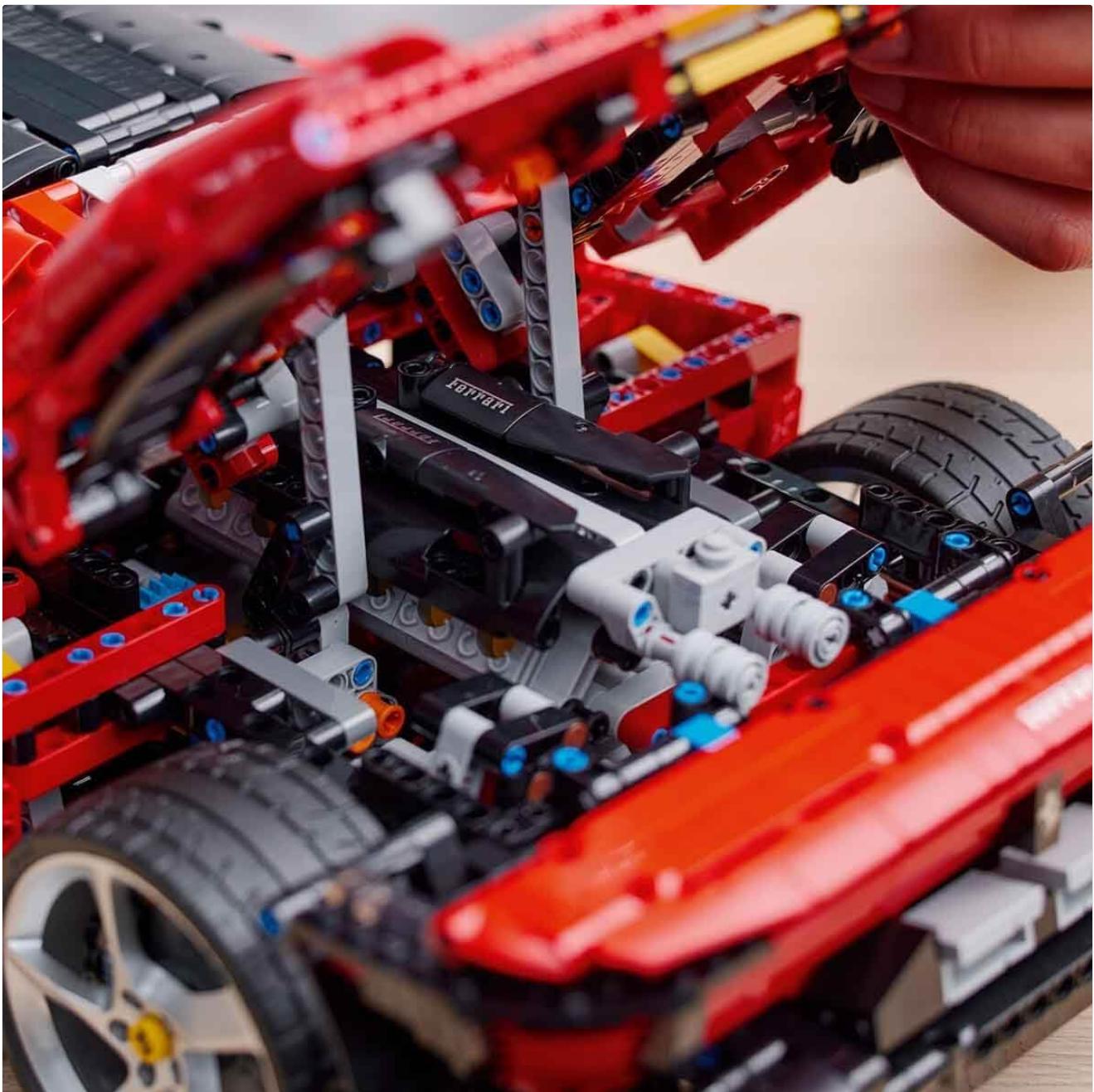


Figure 5: The steering wheel and internal cockpit details during assembly.

2.5 Connecting Sections and Exterior Paneling

Once the main internal components are complete, the front and rear sections of the chassis are joined. This stage also involves adding the first external red panels, beginning to give the model its distinctive Ferrari shape. The cockpit area is detailed with blue bucket-style seats and the steering wheel.

2.6 Final Exterior Details

The final stages involve completing the exterior. This includes the rear hood with its clear panel to view the engine, the distinctive ribbed styling elements at the rear, the spoiler, and the diffuser. The iconic butterfly doors are also assembled and integrated, featuring a mechanical opening mechanism.

2.7 Attaching the Wheels

The last step is to attach the four detailed wheels, completing the model's appearance. A small display plaque with key specifications of the real Ferrari Daytona SP3 is also included.



Figure 6: Attaching one of the detailed wheels to the model.

3. OPERATING FEATURES

The LEGO Technic Ferrari Daytona SP3 42143 model is not just for display; it incorporates several functional elements that mimic the real supercar.

3.1 Functional Gearbox

The model features a working 8-speed sequential gearbox. Use the paddle shifters located in the cockpit to engage different gears. Observe the internal mechanisms of the gearbox and engine pistons moving as gears are shifted.

3.2 Steering Mechanism

The steering wheel in the cockpit is fully functional, allowing you to turn the front wheels. This feature demonstrates

the intricate steering linkage built into the chassis.

3.3 Opening Doors and Hoods

- **Butterfly Doors:** The model features opening butterfly doors. To open them, locate the release lever under the rear hood. Once released, the doors can be manually raised and angled outwards, replicating the motion of the real Ferrari Daytona SP3.
- **Engine Hood:** The rear hood can be raised to reveal the detailed V12 engine bay. The mechanism allows the large section to be held open unaided.
- **Front Hood:** The front hood also opens, revealing an empty storage compartment, similar to the real car.



Figure 7: The front view of the model, showcasing its detailed design and functional elements.

4. MAINTENANCE

To ensure the longevity and appearance of your LEGO Technic Ferrari Daytona SP3 42143 model, follow these simple maintenance guidelines:

- **Cleaning:** Dust the model regularly with a soft, dry cloth or a soft-bristled brush. For deeper cleaning, use a mild soap solution and a soft cloth, then rinse with clean water and air dry. Avoid harsh chemicals or abrasive materials.
- **Handling:** Handle the model with care, especially when operating moving parts like doors and hoods, to prevent accidental disassembly or damage.
- **Storage:** Store the model in a cool, dry place away from direct sunlight to prevent discoloration of the plastic elements.

5. TROUBLESHOOTING

If you encounter any issues during or after the build, consider the following troubleshooting steps:

- **Mechanical Malfunctions:** If a moving part (e.g., gearbox, steering, doors) does not operate smoothly,

carefully re-examine the assembly steps for that section in the instruction manual. Ensure all Technic pins and axles are fully inserted and correctly aligned.

- **Missing Pieces:** In the rare event of missing pieces, contact LEGO Customer Service for replacements.
- **Build Errors:** If you suspect a build error, refer to the detailed instruction manuals. LEGO also provides online versions of their manuals, which may include updated errata or clearer diagrams.

6. SPECIFICATIONS

Here are the key specifications for the LEGO Technic Ferrari Daytona SP3 42143 building set:

Attribute	Value
Product Dimensions	24.41 x 11.42 x 9.06 inches
Item Weight	15.38 pounds
Item Model Number	42143
Manufacturer	LEGO
Recommended Age	18+ years
Number of Pieces	3,778
Release Date	August 4, 2024

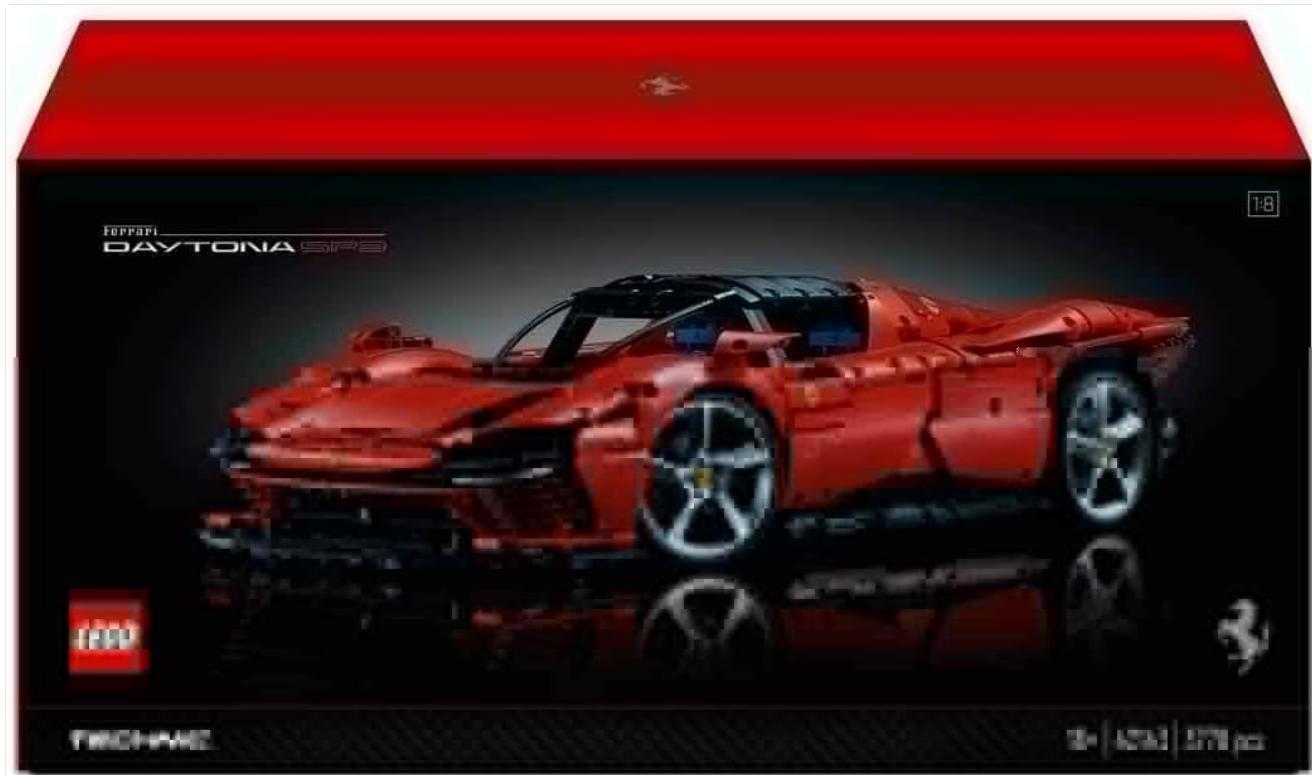


Figure 8: The assembled model on display, highlighting its impressive size.

7. WARRANTY & SUPPORT

For information regarding product warranty, missing parts, or any other support inquiries, please refer to the official LEGO website or contact LEGO Customer Service directly. Details can typically be found in the product packaging or on the manufacturer's website.