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LEGO 42154

LEGO Technic 2022 Ford GT 42154 Instruction Manual

Model: 42154 | Brand: LEGO

INTRODUCTION

This manual provides detailed instructions for assembling and understanding the features of the LEGO Technic 2022 Ford GT (Model 42154) car model kit. Designed for adult builders, this 1:12 scale supercar offers an immersive building experience with authentic functional details.



The LEGO Technic 2022 Ford GT model kit, showcasing the product packaging and the fully assembled 1:12 scale supercar.

SETUP AND ASSEMBLY

The LEGO Technic 2022 Ford GT kit contains 1,466 pieces. Assembly is a step-by-step process guided by the official LEGO Builder app, which provides digital instructions, 3D model views, and progress tracking.

Follow the numbered bags and instruction booklets provided in the kit. Ensure all pieces are accounted for before beginning each section of the build.

Key assembly stages include:

1. **Chassis and Drivetrain:** Construct the foundational frame, including the rear-wheel drive with differential and the working V6 engine with moving pistons.
2. **Suspension and Steering:** Integrate the independent suspension on all wheels and the front-axle steering mechanism.
3. **Bodywork and Interior:** Assemble the exterior panels, opening doors, headlight details, and the detailed interior.

4. **Aerodynamic Features:** Attach the adjustable spoiler wing and the opening hood.



Detailed view of the functional V6 engine, featuring transparent elements to observe the moving pistons during operation.

OPERATING THE MODEL

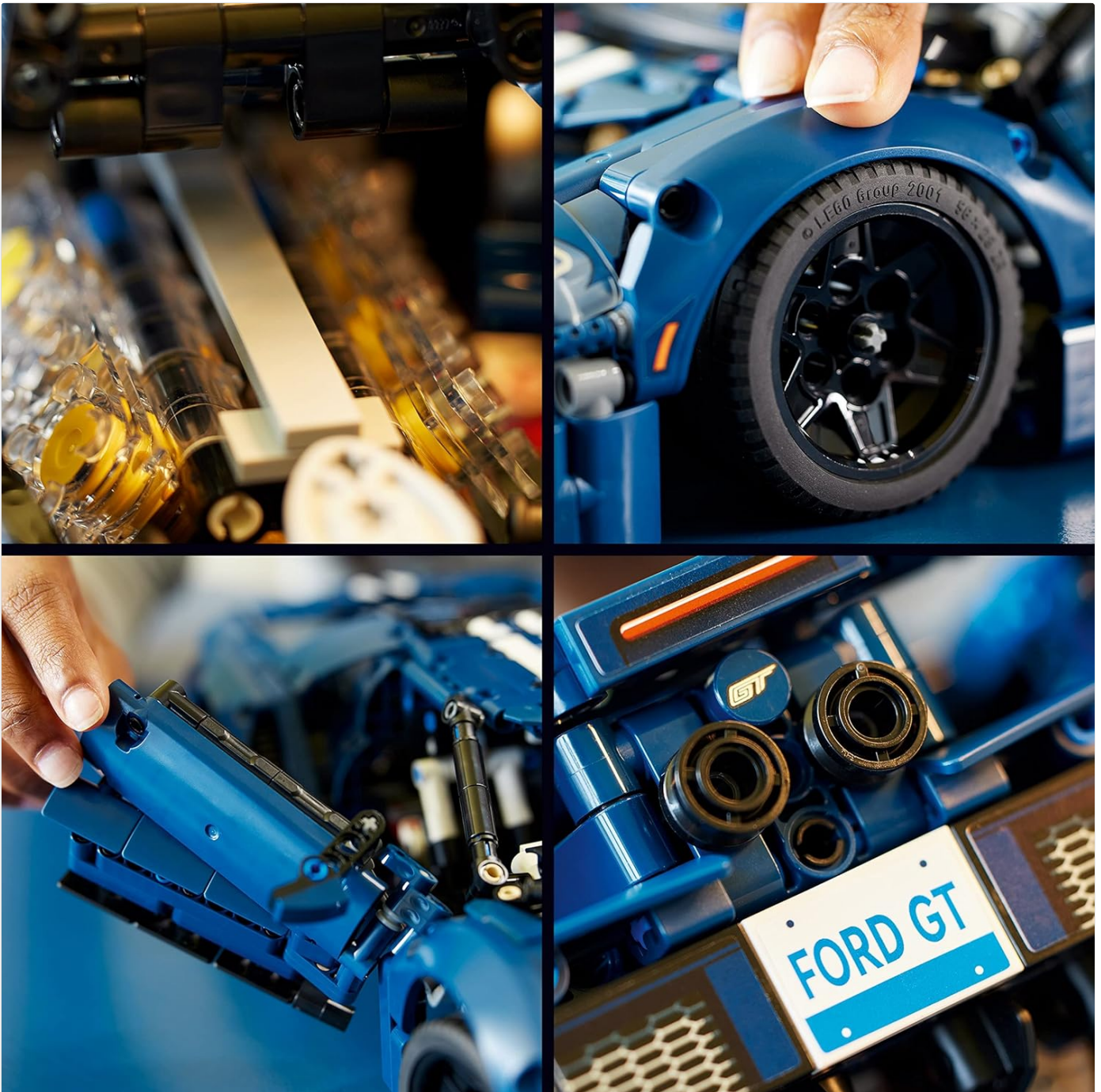
Once assembled, the LEGO Technic 2022 Ford GT model offers several interactive features:

- **Steering:** The front wheels can be steered using a dial knob located on the roof of the car. This allows for dynamic posing and interaction.
- **Engine Functionality:** The V6 engine features moving pistons that operate when the rear wheels are turned, simulating real engine movement.
- **Opening Elements:** The doors, hood, and engine cover can be opened to reveal interior details and the functional engine.
- **Adjustable Spoiler:** A red shift knob inside the cabin allows you to raise and lower the rear spoiler, mimicking the active aerodynamics of the actual Ford GT.

- **Suspension:** The independent suspension on all four wheels allows for realistic movement and display on uneven surfaces.



Detailed view of the front wheel and independent suspension system, highlighting the intricate engineering.



The opening hood mechanism, providing access to the detailed engine bay.

MAINTENANCE

To ensure the longevity and appearance of your LEGO Technic 2022 Ford GT model, follow these maintenance guidelines:

- **Cleaning:** Dust regularly with a soft brush or compressed air. For deeper cleaning, gently wipe with a damp cloth and mild soap, then dry thoroughly. Avoid harsh chemicals or abrasive materials.
- **Storage:** Store the model in a cool, dry place away from direct sunlight to prevent discoloration and material degradation.
- **Handling:** Handle the model with care, especially when interacting with movable parts like doors, the hood, and the spoiler, to prevent accidental detachment or damage.

TROUBLESHOOTING

If you encounter any issues during assembly or operation, consider the following:

- **Missing Pieces:** While rare, if a piece is missing, contact LEGO Customer Service directly for replacement parts. Do not attempt to substitute with non-LEGO elements.
- **Loose Connections:** If parts feel loose or detach easily, re-examine the instruction steps for that section to ensure correct placement and firm connection.
- **Functional Issues:** If the engine pistons or steering mechanism do not operate smoothly, check for any misaligned gears or obstructions within the Technic framework. Refer to the digital instructions for detailed views of the internal mechanisms.
- **Fragile Parts:** Some delicate components, such as the doors, may require careful handling. If they become detached, reattach them by aligning the connection points firmly.

SPECIFICATIONS

Attribute	Detail
Product Dimensions	18.9 x 11.1 x 3.58 inches
Item Weight	3.74 pounds
ASIN	B0BLJ38RJR
Item Model Number	6425769
Manufacturer Recommended Age	3 months - 8 years (Note: Product description states "for adults")
Release Date	March 1, 2023
Language	English
Manufacturer	LEGO
Number of Pieces	1,466

WARRANTY AND SUPPORT

LEGO products are manufactured to high-quality standards. For information regarding warranty, missing parts, or general product support, please visit the official LEGO customer service website or contact their support team directly.

You can often find detailed FAQs and troubleshooting guides on the [LEGO Service & Support page](#).