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> fischertechnik Profi Green Energy 559879 Construction Kit Instruction Manual

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Model: 559879 | Brand: fischertechnik

INTRODUCTION

The fischertechnik Profi Green Energy 559879 kit is designed to introduce users aged 9 and above to the principles of renewable energy. This educational construction set allows for the creation of 14 different models that demonstrate how energy can be harnessed from the sun, wind, and water. Through hands-on building and experimentation, users will gain a practical understanding of ecological concepts and sustainable energy generation.

This manual provides detailed instructions for assembly, operation, and general care of your fischertechnik Profi Green Energy kit. Please read all instructions carefully before beginning assembly.

WHAT'S IN THE BOX

Your fischertechnik Profi Green Energy kit contains 343 pieces, including specialized components for renewable energy experiments. Please verify that all components are present before starting assembly.

- 2x Solar Modules (1V)
- Solar Motor
- LED
- Goldcap (energy storage component)
- Various fischertechnik Building Blocks and Connectors



Image: The fischertechnik Profi Green Energy kit box, illustrating the various models that can be built and the included components.

ASSEMBLY INSTRUCTIONS

Assembly is required for all models. Refer to the included detailed instruction booklet for step-by-step guidance on building each of the 14 models. The instructions are provided in English and German.

General Assembly Tips:

- Sort components by type and color before starting.
- Follow the diagrams carefully, paying attention to the orientation of parts.
- Ensure all connections are secure but do not force parts together.
- For electrical connections, ensure wires are correctly connected to the solar modules, motor, and LED as indicated in the specific model instructions.

Your browser does not support the video tag.

Video: A demonstration of assembling and connecting components for a fischertechnik Green Energy model, showing how the solar panel powers the system.



Image: An example of an assembled water turbine model from the kit, featuring red gears and green turbine blades on a black base plate.



Image: An example of an assembled solar-powered vehicle model from the kit, featuring a solar panel, red chassis, and green accents.

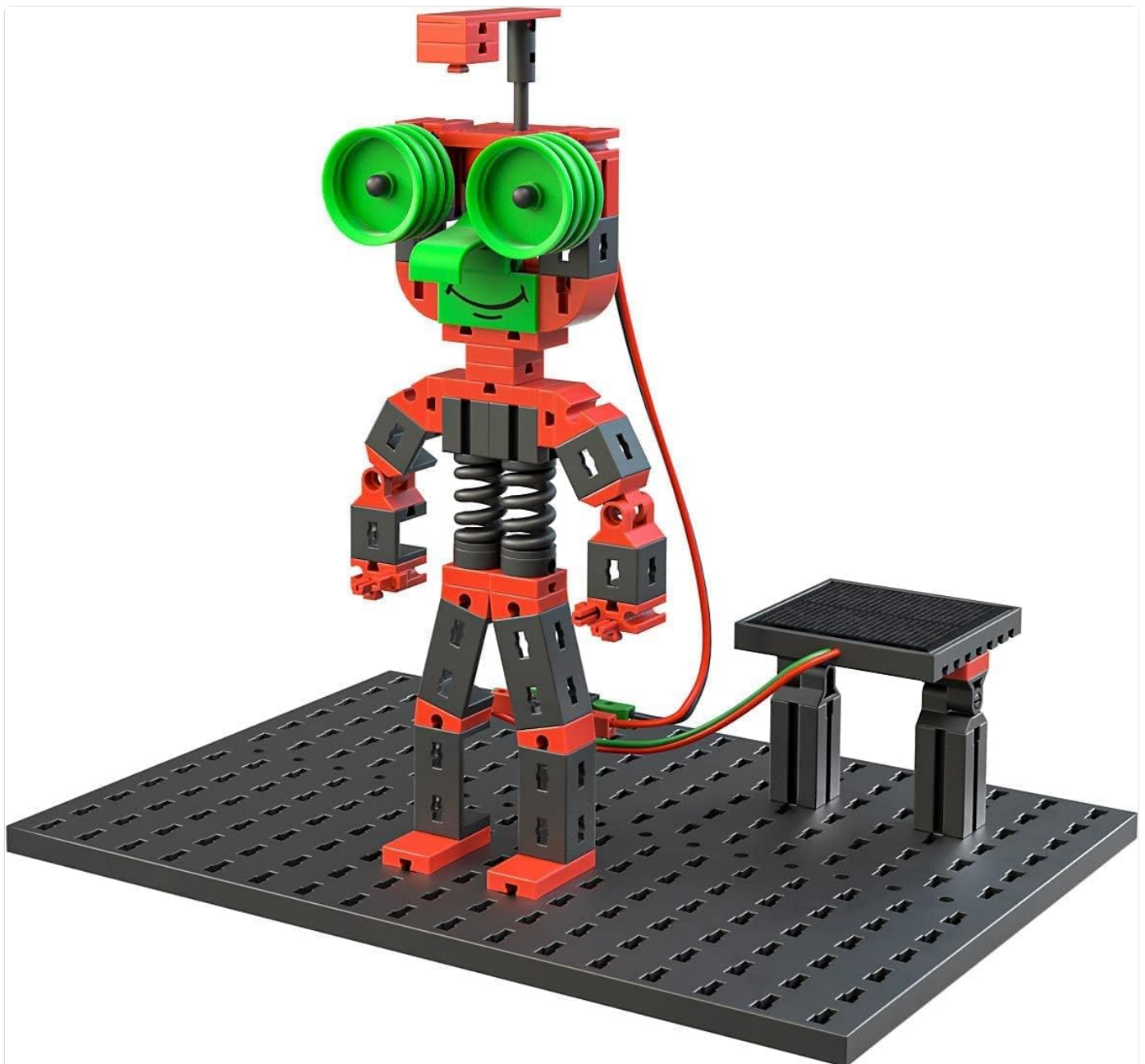


Image: An example of an assembled wind turbine model from the kit, featuring large green blades and a red base structure.

OPERATING INSTRUCTIONS

The fischertechnik Profi Green Energy kit allows you to explore various forms of renewable energy. Each model is designed to demonstrate a specific principle.

Solar Energy Models

For models utilizing solar panels, ensure the solar module is exposed to direct sunlight or a strong artificial light source. The solar panel converts light energy into electrical energy, which then powers the motor or lights the LED. The Goldcap component can store this energy for later use, allowing the model to operate even when the light source is removed.



Image: A fischertechnik model demonstrating solar power, with a solar panel connected to a small fan or turbine.

Wind Energy Models

Wind turbine models convert wind energy into mechanical or electrical energy. Position the wind turbine in an area with consistent airflow (e.g., near a fan). Observe how the blades rotate and drive the connected mechanisms.

Water Energy Models

Water turbine models demonstrate hydropower. Direct a gentle stream of water onto the turbine blades to observe how the water's kinetic energy is converted into rotational motion. Ensure the model is placed in a suitable environment to prevent water damage to other components or surroundings.

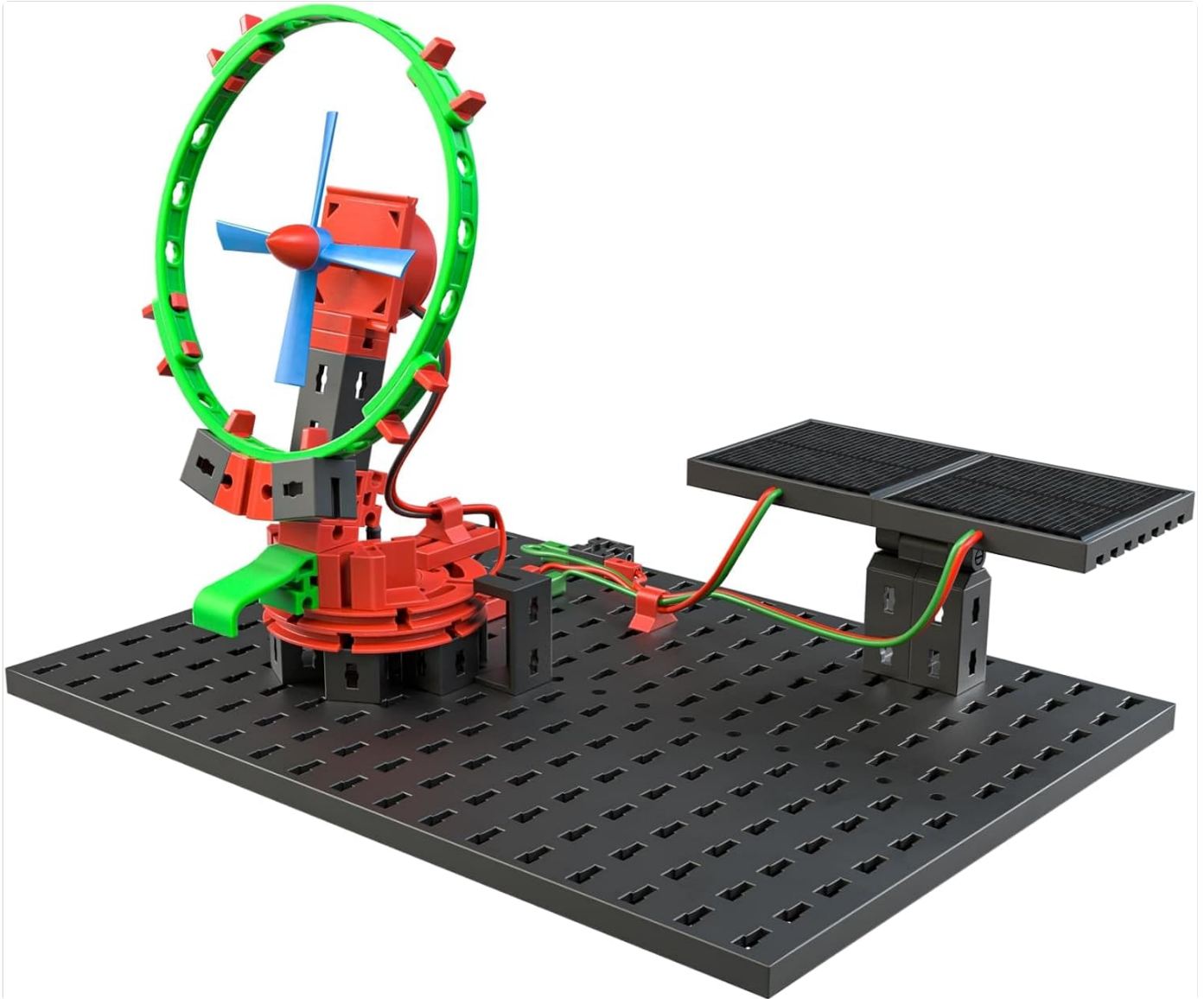


Image: A collection of fischertechnik Green Energy models, including a solar car, a wind turbine, a water turbine, and a solar-powered helicopter, showcasing diverse applications of renewable energy.

MAINTENANCE

To ensure the longevity and proper functioning of your fischertechnik Profi Green Energy kit, follow these maintenance guidelines:

- **Cleaning:** Wipe components with a dry or slightly damp cloth. Avoid harsh chemicals or abrasive cleaners.
- **Storage:** Store the kit in its original packaging or a suitable container in a dry, cool place away from direct sunlight.
- **Inspection:** Periodically check for any damaged or worn parts. Replace as necessary.
- **Electrical Components:** Keep solar panels and electrical connections dry. Avoid exposing them to excessive moisture.

TROUBLESHOOTING

If you encounter issues with your fischertechnik Profi Green Energy kit, consider the following:

- **Model Not Moving (Solar):**

- Ensure the solar panel is receiving sufficient direct light.
- Check all electrical connections for proper contact.
- Verify the motor is correctly installed and not obstructed.

- **Parts Not Fitting:**

- Refer to the instruction manual to confirm correct part selection and orientation.
- Do not force parts; gently adjust alignment.

- **General Malfunction:**

- Disassemble and reassemble the problematic section, following the instructions carefully.
- Ensure no small debris is obstructing moving parts.

SPECIFICATIONS

Model Number	559879
Recommended Age	9 years and up
Number of Models	14
Number of Pieces	343
Educational Objectives	Playfully understand the basics of renewable energies and how they can be used in the long term!
Languages (Instructions)	English, German
Material	Plastic
Dimensions (LxWxH)	46.51 x 8 x 23.01 cm
Item Weight	1.5 kg
Batteries Required	No

SAFETY INFORMATION

WARNING: Not suitable for children under 3 years due to small parts which may present a choking hazard.

- Adult supervision is recommended for younger users.
- Keep electrical components away from water to prevent damage or electrical hazards.
- Do not modify the components or use them for purposes other than intended.

WARRANTY AND SUPPORT

fischertechnik products are manufactured to high-quality standards. For information regarding warranty coverage or technical support, please refer to the official fischertechnik website or contact their customer service.

Online Resources: Visit the official fischertechnik website for additional resources, FAQs, and contact information.



