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AESGOGO 219A

AESGOGO 6-in-1 Solar Robot Kit Instruction Manual

Model: 219A

1. INTRODUCTION

The AESGOGO 6-in-1 Solar Robot Kit provides an engaging and educational experience for children aged 8-12. This kit allows for the construction of six different space-themed models: a space station, robot dog, astronaut, explorer, exploration vehicle, and aircraft. Designed to stimulate curiosity about space and enhance problem-solving skills, this kit promotes understanding of energy conservation and environmental protection through its solar-powered functionality.



Image: A child engaged in assembling one of the solar robot models, with other completed models like an astronaut and an aircraft visible.

2. PACKAGE CONTENTS

Before beginning assembly, please verify that all components are present. The kit includes:

- Assorted plastic building parts for six different models.
- Solar panel module.
- Motor and gear components.
- Battery module (requires 1 AA battery, not included).
- Detailed instruction manual for assembly.

3. ASSEMBLY INSTRUCTIONS

Follow the steps below carefully to assemble your chosen robot model. Adult supervision is recommended, especially for younger users.

1. Step 1: Battery Module Assembly

Assemble the battery module as shown in the diagram. Ensure the wires are correctly connected.

Insert one AA battery (not included) into the battery compartment.

2. **Step 2: Gear Box Assembly**

Construct the gearbox by carefully fitting the gears and motor into their designated positions. Ensure all gears mesh smoothly.

3. **Step 3: Gear Box Testing**

Connect the assembled gearbox to the battery module. Briefly test the motor to ensure it functions correctly before proceeding with the full robot assembly.

4. **Step 4: Robot Assembly & Play**

Continue assembling the remaining plastic parts according to the specific model instructions. Once complete, connect the power source (solar panel or battery module) to activate your robot.



Image: A visual guide detailing the four main steps of assembling the robot: Battery Module Assembly, Gear Box Assembly, Gear Box Testing, and Robot Assembly & Play.

4. POWERING THE ROBOT

Your AESGOGO Solar Robot Kit offers two power options:

- **Solar Power:** For outdoor play, connect the solar panel directly to the robot. Ensure the solar panel receives direct, strong sunlight for optimal performance. The robot will operate as long as

sufficient light is available.

- **Rechargeable Battery:** For indoor play or when sunlight is insufficient, use the rechargeable battery module. The battery module can be charged via the solar panel or other compatible charging methods (refer to specific instructions for the battery module).

CHARGING METHOD PLAY IT ANYWHERE



Solar Module

Micro Rechargeable Battery

Micro Rechargeable Battery



Image: A diagram showing how the solar module and micro rechargeable battery provide power, enabling play both outdoors and indoors.

5. OPERATING INSTRUCTIONS

Once assembled and powered, your robot is ready for operation. The movement of the robot is directly dependent on the power source:

- **Solar Mode:** Place the robot in direct sunlight. The solar panel will convert light energy into electrical energy to power the motor, causing the robot to move. Movement speed and consistency may vary with light intensity.
- **Battery Mode:** Ensure the rechargeable battery module is charged and connected. The robot will operate using the stored energy from the battery.

No complex controls are required; the robot's movement is automatic once powered. Experiment with different light conditions for solar mode to observe its effects.

6. MAINTENANCE

To ensure the longevity and proper functioning of your solar robot kit, follow these maintenance guidelines:

- **Cleaning:** Wipe plastic parts with a soft, dry cloth. Avoid using harsh chemicals or abrasive cleaners.
- **Storage:** Store the kit in a cool, dry place away from direct sunlight when not in use. Disassemble models if storing for extended periods to prevent stress on parts.
- **Battery Care:** If using the battery module, remove the AA battery if the toy will not be used for a long time to prevent leakage.
- **Solar Panel:** Keep the solar panel clean and free of dust or obstructions to ensure efficient energy conversion.

7. TROUBLESHOOTING

If your robot is not functioning as expected, consider the following:

- **Robot Not Moving (Solar Mode):** Ensure the solar panel is receiving direct, strong sunlight. Cloudy conditions or indoor lighting may not provide enough power. Check all wire connections to the solar panel and motor.
- **Robot Not Moving (Battery Mode):** Verify that the AA battery in the module is fresh and correctly inserted. Check all wire connections.
- **Parts Not Fitting:** Refer to the instruction manual and double-check the assembly steps for the specific model you are building. Ensure no parts are forced, as this can cause damage.
- **Intermittent Movement:** This can occur in solar mode if sunlight is inconsistent or partially obstructed. Ensure a clear path for light to the solar panel.

8. SPECIFICATIONS

Feature	Detail
Product Dimensions	9.44 x 7.08 x 2.55 inches
Item Weight	9.9 ounces
Model Number	219A
Recommended Age	8 years and up
Batteries Required	1 AA battery (not included)
Power Source	Solar or AA battery

9. SAFETY INFORMATION

Please read and adhere to the following safety precautions:

- **Choking Hazard:** This kit contains small parts and is not suitable for children under 3 years old.
- **Adult Supervision:** Adult supervision is recommended during assembly and play, especially when

handling small components and batteries.

- **Battery Safety:** Do not mix old and new batteries. Do not mix alkaline, standard (carbon-zinc), or rechargeable (nickel-cadmium) batteries. Insert batteries with correct polarity. Remove exhausted batteries from the product.
- **Electrical Components:** Do not modify or tamper with the electrical components.
- **Outdoor Use:** While solar-powered, avoid leaving the robot exposed to extreme weather conditions (heavy rain, strong winds).

10. WARRANTY AND SUPPORT

For any questions, concerns, or support regarding your AESGOGO 6-in-1 Solar Robot Kit, please contact AESGOGO customer service. Refer to the product packaging or the retailer's website for specific contact information.