

VINGLI Pool heater panel

VINGLI 2Pcs 1.2FT x 20FT Solar Pool Heater Panel Instruction Manual

1. INTRODUCTION

The VINGLI Solar Pool Heater Panel is an eco-friendly and efficient system designed to warm your swimming pool water using solar energy. This system operates without electricity, utilizing the sun's power to increase water temperature. Its tube grid design maximizes sunlight capture and heat conversion.

Constructed from durable PE material, the solar collector panel is built to withstand temperatures ranging from -20°C (-1°F) to 90°C (194°F). The black PE material enhances heat absorption, ensuring optimal heating performance. When used with the recommended quantities for your pool size, it can efficiently raise water temperature by up to 10°F.

This manual provides essential information for the safe and effective installation, operation, and maintenance of your VINGLI Solar Pool Heater Panel.

2. SAFETY INFORMATION

Please read all safety instructions carefully before installing or operating the solar pool heater. Failure to follow these instructions may result in property damage or injury.

- Ensure the water pump pressure is not less than 0.75 HP and does not exceed 1.5 bar (21 PSI) to prevent damage to the system.
- Always turn off the pool pump and filter system before performing any installation or maintenance.
- Do not walk on the solar panels.
- Keep children and pets away from the installation area during setup.
- Inspect all connections regularly for leaks or damage.
- Protect rubber components from animal chewing, as this can cause leaks.

3. PART LISTING

Before beginning installation, verify that all components listed below are present in your package.

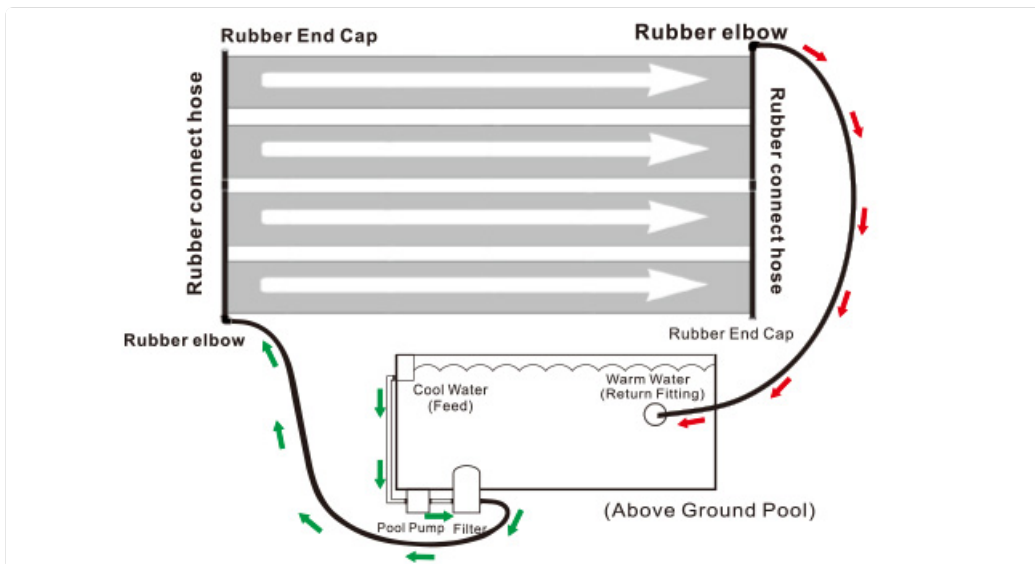


Figure 3.1: Included Components

- Solar Collector Panel (2 units, 1.2FT x 20FT each)
- Rubber Elbow Connectors
- Rubber Connector Hoses
- 32-38mm Hose Adapters
- Rubber End Caps
- 2.5-inch Hose Clamps
- 2-inch Hose Clamps

4. SETUP AND INSTALLATION

The VINGLI solar pool heater is designed for straightforward installation and is compatible with most in-ground and above-ground pools, pumps, and filters. Each package contains two 1.2FT x 20FT panels. Multiple heaters can be connected together to achieve desired heating capacity.

4.1 Panel Dimensions

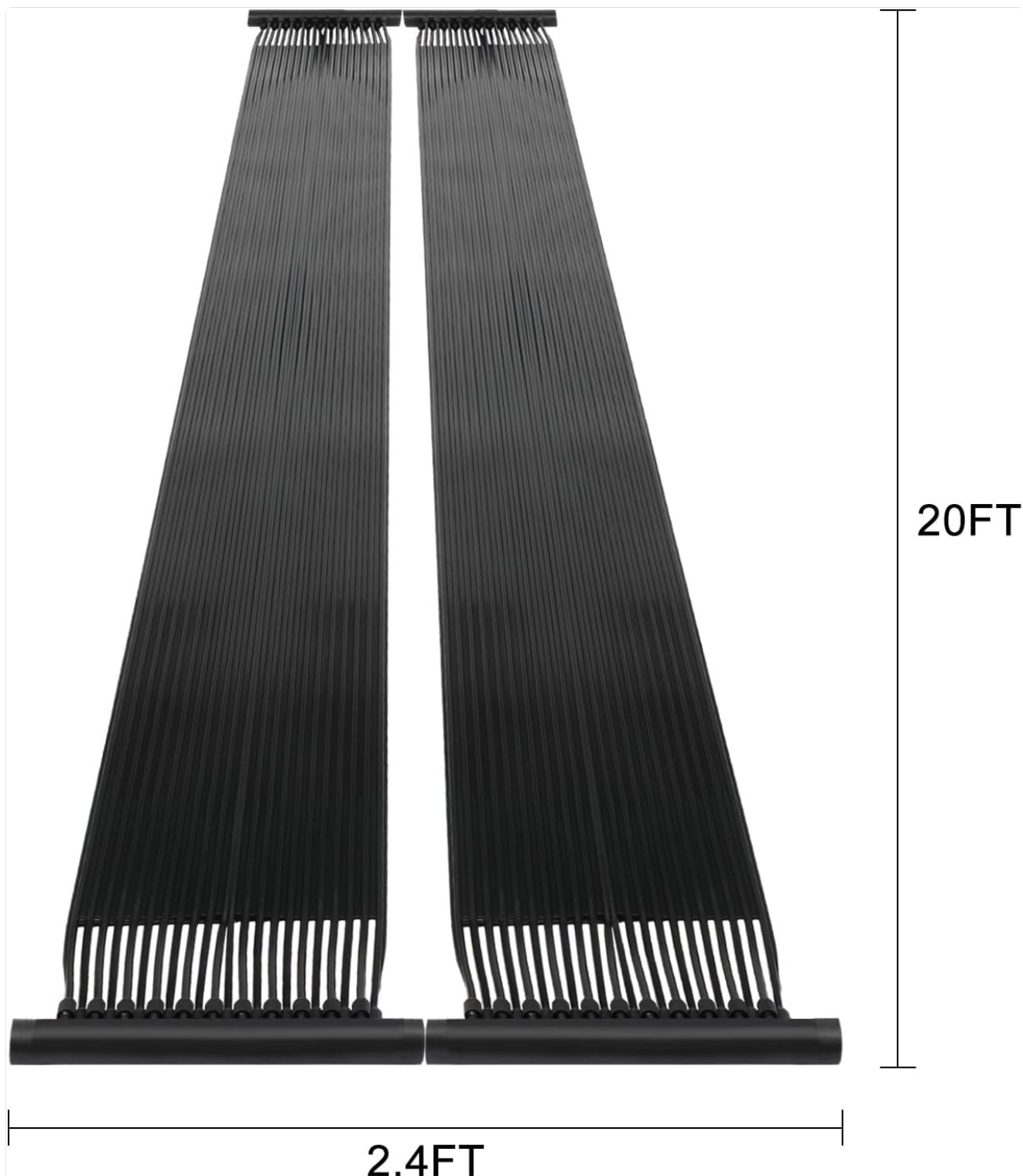


Figure 4.1: Solar Panel Dimensions (2.4FT total width for two panels, 20FT length)

4.2 Placement Options

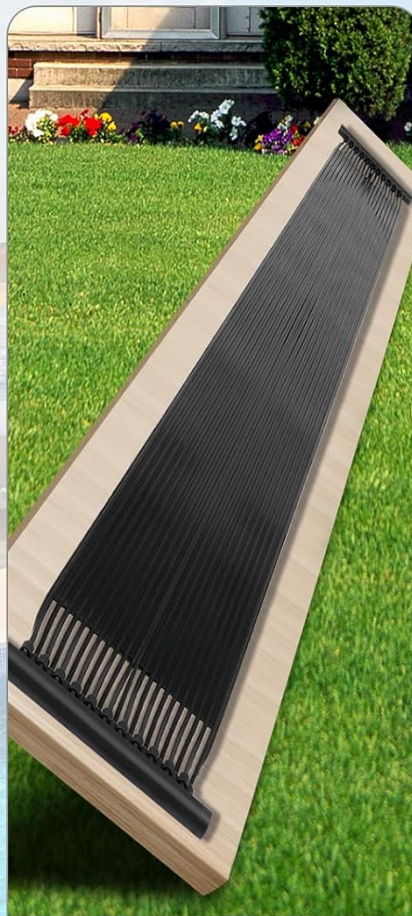
The solar heater panels are versatile and can be placed in various locations to maximize sun exposure. Ideal locations include:

- **On the ground:** Lay panels flat in a sunny area near the pool.
- **On a sloped frame:** Mount panels on a custom-built or existing sloped frame to optimize angle to the sun.
- **On the roof:** Install panels on a suitable roof section with ample sunlight.

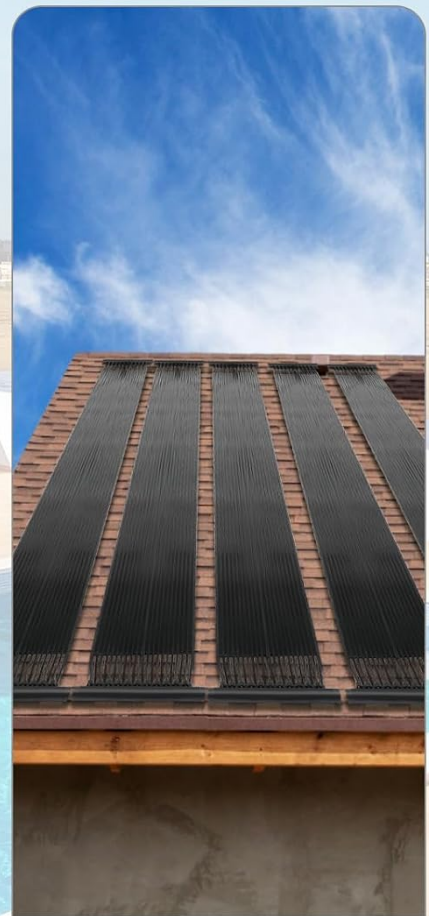
Various Installation Methods



On the ground



On the roof



On a sloped frame

Figure 4.2: Various Installation Methods



Figure 4.3: Roof Installation Example



Figure 4.4: Ground/Deck Installation Example

4.3 Connection Diagram (Above Ground Pool)

Follow this diagram for connecting the solar heater panels to your existing pool pump and filter system. Ensure all connections are secure and leak-free using the provided hose clamps.

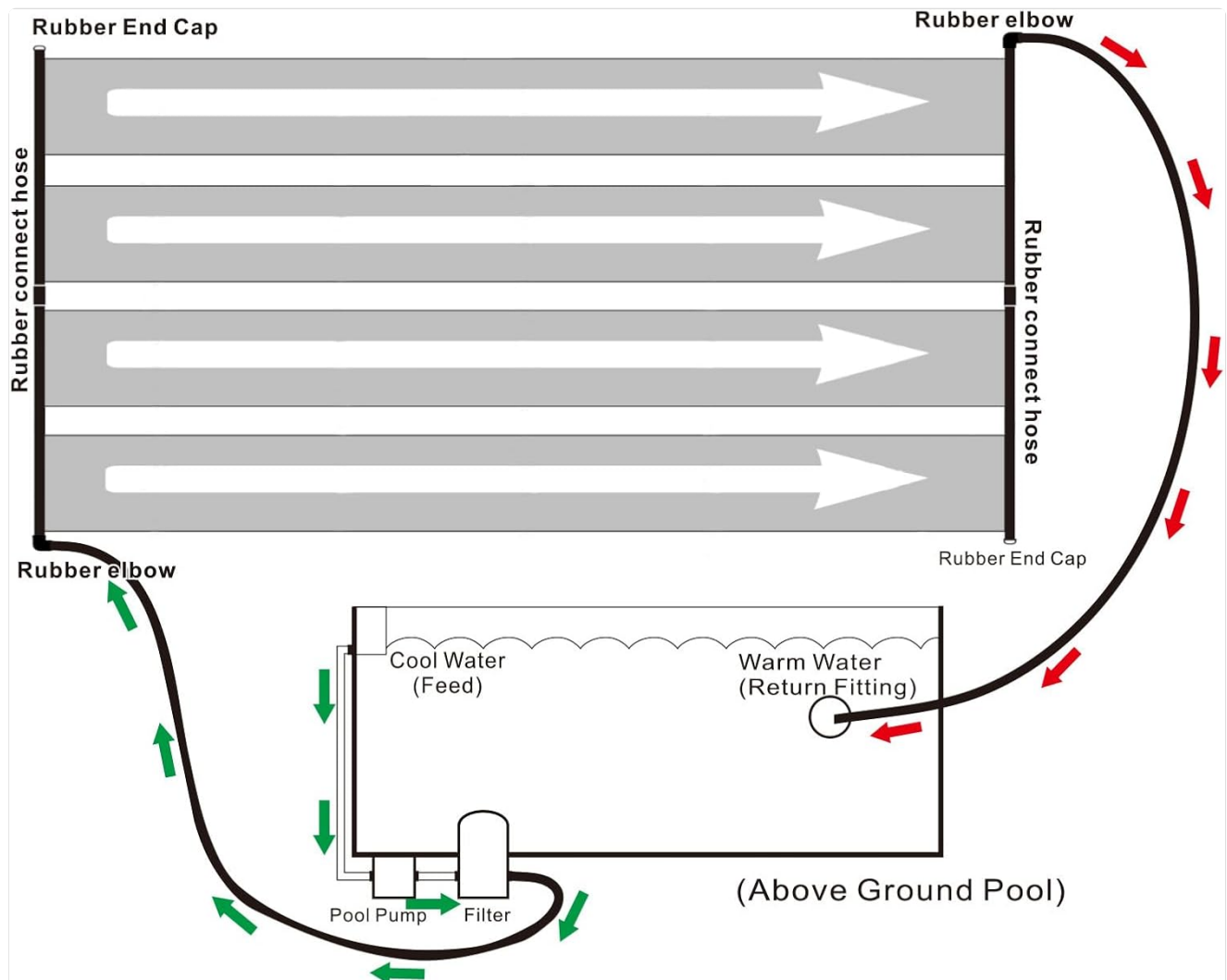


Figure 4.5: Above Ground Pool Connection Diagram

4.4 System Sizing Recommendations

The number of solar heater systems required depends on your pool's size and shape. Refer to the table below for recommendations to achieve optimal heating performance.

Suggestions for Size Selection

Systems Required	Max Pool Size/Shape		
	Round	Oval	Rectangle (inground pool)
1	10FT	10×15FT	8×10FT
2	15FT	12×24FT	10×16FT
4	21FT	16×30FT	12×24FT
6	27FT	18×30FT	16×32FT
8	30FT	18×40FT	18×36FT
10	33FT	18×46FT	20×40FT

Figure 4.6: Suggestions for Size Selection

Table 4.1: Recommended Systems by Pool Size

Systems Required	Max Pool Size/Shape		
	Round	Oval	Rectangle (Inground Pool)
1	10FT	10x15FT	8x10FT
2	15FT	12x24FT	10x16FT
4	21FT	16x30FT	12x24FT
6	27FT	18x30FT	16x32FT
8	30FT	18x40FT	18x36FT
10	33FT	18x46FT	20x40FT

5. OPERATING INSTRUCTIONS

The VINGLI Solar Pool Heater Panel operates by circulating pool water through the solar collectors, where it absorbs heat from the sun before returning to the pool.

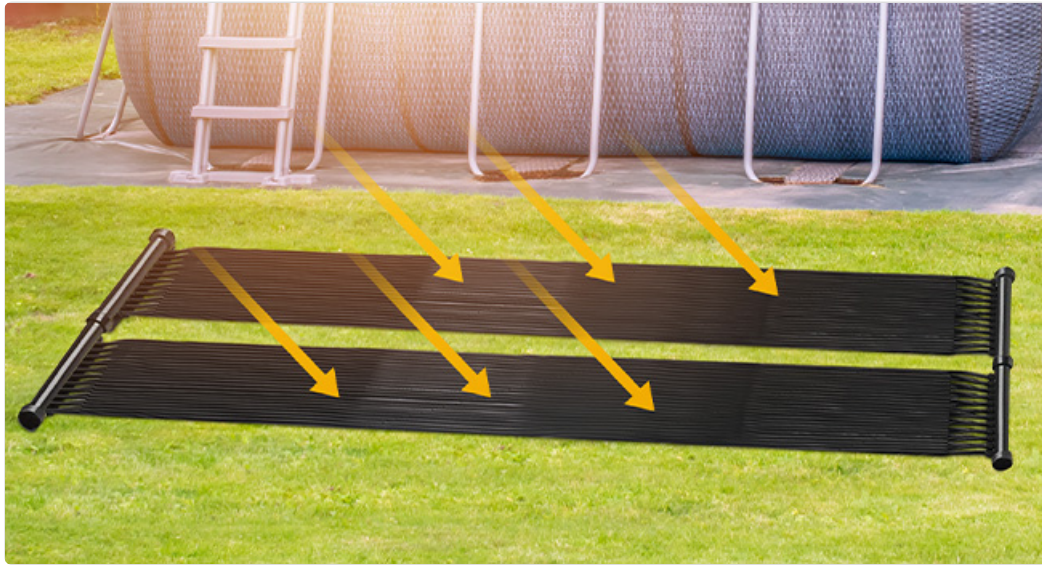


Figure 5.1: Solar Heat Absorption

- **Activation:** Once installed and connected, simply turn on your pool pump. Water will be drawn from the pool, passed through your filter, and then circulated through the solar panels.
- **Heating Process:** As water flows through the black PE tubes of the solar panels, it absorbs heat from the sun. The warmed water then flows back into your pool.
- **Optimal Performance:** For best results, operate the system during peak sunlight hours. The effectiveness of the heater is directly related to the amount of direct sunlight the panels receive.
- **Temperature Control:** The system provides passive heating. To manage pool temperature, you may adjust the duration of pump operation during sunny periods.

6. MAINTENANCE

Regular maintenance ensures the longevity and efficiency of your VINGLI Solar Pool Heater Panel.

- **Seasonal Cleaning:** Periodically clean the surface of the solar panels to remove dirt, leaves, or debris that may obstruct sunlight. Use a soft brush and water; avoid harsh chemicals or abrasive cleaners.
- **Connection Inspection:** Regularly check all hose connections, rubber elbows, and end caps for signs of wear, cracks, or leaks. Tighten hose clamps as needed.
- **Winterization:** Before freezing temperatures arrive, drain all water from the solar panels and disconnect them from the pool system. Store the panels in a dry, protected area to prevent freeze damage. The durable PE material can withstand low temperatures, but draining is crucial to prevent ice expansion.
- **Pest Control:** Protect rubber connections from potential damage by animals (e.g., rabbits, squirrels) by ensuring they are not easily accessible or by using protective coverings.

7. TROUBLESHOOTING

Refer to the following common issues and solutions:

Problem	Possible Cause	Solution
Insufficient Pool Heating	Not enough direct sunlight; insufficient number of panels for pool size; panels are dirty; pump not running during peak sun hours.	Ensure panels receive full sun exposure. Refer to the sizing chart (Table 4.1) to confirm adequate panel coverage. Clean panels regularly. Operate pump during the sunniest part of the day.
Water Leaks from Connections	Loose hose clamps; damaged rubber connectors/hoses; excessive pump pressure.	Tighten all hose clamps securely. Inspect rubber components for damage and replace if necessary. Ensure pump pressure does not exceed 1.5 bar (21 PSI).
Reduced Water Flow Through Panels	Clogged filter; pump malfunction; kinked hoses.	Clean or backwash your pool filter. Check pool pump for proper operation. Ensure all hoses are free of kinks.
Rubber Connections Damaged by Animals	Exposure to pests (e.g., rabbits, squirrels).	Relocate panels if possible, or use protective barriers around exposed rubber connections. Replace damaged parts promptly.

8. SPECIFICATIONS

Feature	Detail
Product Dimensions (each panel)	240 x 24 x 1 inches (20 FT x 2 FT x 1 inch)
Item Weight	20.8 pounds (for the 1-pack, 2 panels)
Material	Durable PE (Polyethylene)
Operating Temperature Range	-20°C (-1°F) to 90°C (194°F)
Recommended Water Pump Pressure	Not less than 0.75 HP; does not exceed 1.5 bar (21 PSI)
Model Number	Pool heater panel
ASIN	B0D41N66JL

9. WARRANTY

VINGLI offers a **1-year warranty** for this solar pool heater. This warranty covers manufacturing defects and ensures the product meets quality standards under normal use.

Please retain your proof of purchase for warranty claims.

10. CUSTOMER SUPPORT

For any questions, concerns, or assistance with your VINGLI Solar Pool Heater Panel, please do not hesitate to contact our customer service team. We provide 24-hour friendly customer service.

If you require additional soft hoses or have any issues, please contact us directly for support.

Contact Information: Refer to the seller's contact details on the platform where the product was purchased or visit the official VINGLI website for support options.

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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