K Knowbody Y8L049-1220-YY22

K Knowbody 12x20ft Metal Carport Instruction Manual

Model: Y8L049-1220-YY22 | Brand: K Knowbody

1. Introduction

Thank you for choosing the K Knowbody 12x20ft Metal Carport. This heavy-duty, military-grade reinforced garage kit is designed to provide superior protection for your vehicles and equipment against various weather conditions, including heavy snow and hurricane-force winds. Its robust construction features 2x2" galvanized steel poles and a 0.3mm/30-gauge steel roof, ensuring durability and longevity. This manual provides essential information for safe assembly, operation, and maintenance of your new carport.



Figure 1: The K Knowbody 12x20ft Metal Carport providing shelter for a vehicle.

2. Safety Information

Please read and understand all safety warnings and instructions before beginning assembly or using the carport. Failure to follow these instructions may result in serious injury or property damage.

- **Assembly Safety:** A minimum of 3-5 persons is recommended for assembly. Wear appropriate personal protective equipment, including gloves and safety glasses. Ensure the assembly area is clear of obstructions and level.
- **Ground Anchoring:** Always secure the carport firmly to the ground using the provided hurricane anchors. Proper anchoring is crucial for stability, especially in high winds (tested for 100mph+ winds).
- **Snow Load:** While designed to support up to 550lbs/Sq.Ft of snow, regular removal of heavy snow accumulation is recommended to prevent excessive stress on the structure.
- **Wind Resistance:** In extreme weather conditions, such as hurricanes or severe storms, consider additional temporary bracing or disassembling the cover if possible.
- **Structural Integrity:** Do not hang excessively heavy objects from the frame. Do not climb or stand on the roof panels.
- **Part Replacement:** If any parts are damaged, contact K-KnowBody Support for instant replacements. Do not attempt to use damaged components.

3. Package Contents

Your K Knowbody Metal Carport is shipped in multiple boxes. Please verify all components are present and undamaged before starting assembly. Refer to the packing list included in your shipment for a detailed inventory.



Figure 2: The carport components are typically shipped in 4 boxes, weighing approximately 520 lbs in total. Staggered delivery of boxes may occur.

Key Components:

- Galvanized Steel Poles (2x2" with 1.4mm/17-Gauge walls)
- Steel Roof Panels (0.3mm/30-Gauge)
- Longitudinal Crossbeams
- Top Reinforcement Kits
- Hurricane Anchors (8 units)
- Fasteners and Connectors (e.g., wing nuts for easier assembly)
- Instruction Manual and Packing List

4. Setup and Assembly

Assembly of the K Knowbody Metal Carport typically takes 5-8 hours with 3-5 people. Follow these general steps,

referring to the detailed assembly diagrams in your included manual for specific part identification and connection points.

1. **Site Preparation:** Choose a level, stable surface for installation. Clear any debris or obstacles.
2. **Unpack and Organize:** Carefully unpack all boxes and lay out components, grouping similar parts. Verify against the packing list.
3. **Assemble Frame Arches:** Connect the curved steel poles to form the main arches of the carport.
4. **Connect Arches:** Use longitudinal crossbeams to connect the assembled arches, forming the basic structure. Ensure all connections are secure.
5. **Install Roof Panels:** Attach the steel roof panels to the frame. Overlap panels correctly to ensure water shedding.
6. **Add Reinforcement:** Install the top reinforcement kits and any additional reinforcing bars as per the manual.
7. **Secure to Ground:** Drive the 8 hurricane anchors into the ground at the designated points to firmly secure the carport.
8. **Final Inspection:** Double-check all connections, fasteners, and anchors to ensure they are tight and secure.

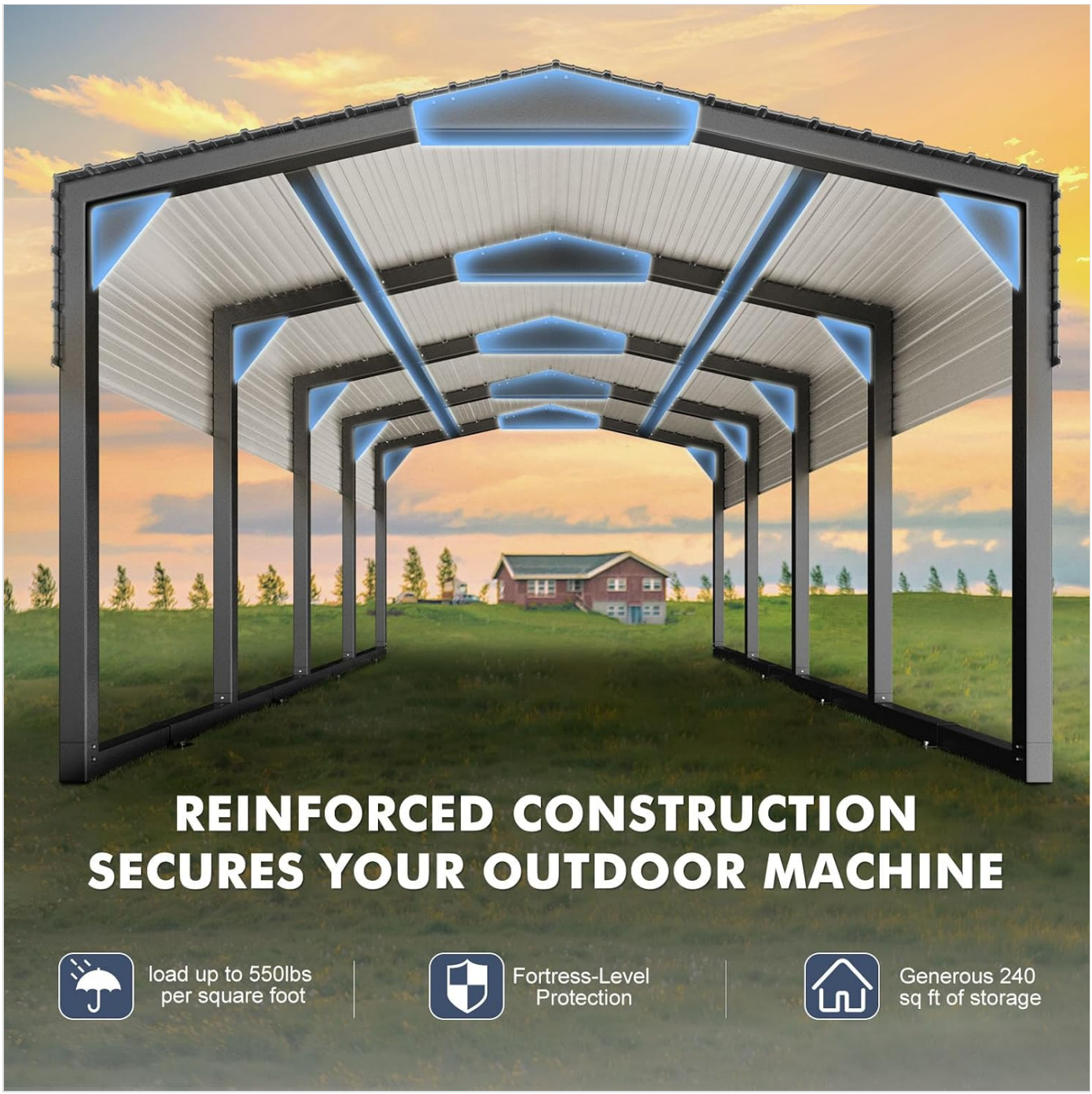


Figure 3: Illustration of the reinforced construction, highlighting key load-bearing areas.



Figure 4: Material comparison, emphasizing the 2x2" poles and 30-gauge roof panels for superior strength.

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Video 1: A visual demonstration of the carport's features and structural components, including frame assembly and stability features.

5. Usage Guidelines

The K Knowbody Metal Carport is designed to provide reliable shelter for a variety of items, including cars, RVs, campers, trucks, and tractors. Its robust design allows for year-round use in diverse climates.

- **Vehicle Parking:** Position your vehicle centrally within the carport to maximize coverage and protection.
- **Storage:** Utilize the generous 240 sq ft of storage space for equipment, tools, or other outdoor items that require protection from the elements.
- **Weather Protection:** The carport is engineered to withstand significant snow loads and high winds, offering peace

of mind during severe weather.



Figure 5: The carport's performance in snowy and rainy conditions, highlighting its heavy ground fixation anchors.



Figure 6: The carport maintaining stability during windy weather, showcasing its robust design.

6. Maintenance and Care

Regular maintenance will extend the lifespan of your K Knowbody Metal Carport and ensure its continued performance.

- **Regular Inspection:** Periodically inspect all frame connections, bolts, and anchors for tightness. Re-tighten as necessary.
- **Cleaning:** Clean the roof panels and frame as needed with mild soap and water. Avoid abrasive cleaners or tools that could damage the finish.
- **Snow Removal:** While the roof is designed for heavy snow, it is advisable to remove excessive snow accumulation, especially wet or heavy snow, to prevent potential stress on the structure. Use a soft broom or brush from underneath to avoid damaging the roof panels.
- **Drainage:** Ensure proper drainage around the base of the carport to prevent water pooling.
- **Rust Prevention:** Although made of galvanized steel, inspect for any signs of rust, especially at connection points.

Address any rust promptly with appropriate rust-inhibiting paint.

7. Troubleshooting

This section addresses common issues you might encounter with your carport.

Problem	Possible Cause	Solution
Carport feels unstable or wobbly.	Loose connections; insufficient ground anchoring; uneven ground.	Tighten all bolts and fasteners. Ensure all 8 hurricane anchors are properly installed and secured. Relocate to a more level surface if necessary.
Water leakage from the roof.	Improperly overlapped roof panels; loose roof panel fasteners; damaged panels.	Check roof panel alignment and ensure proper overlap. Tighten all roof panel fasteners. Inspect for any damage and replace panels if severely compromised.
Difficulty during assembly.	Incorrect part orientation; insufficient personnel; missing tools.	Refer to the detailed assembly manual diagrams. Ensure you have 3-5 people for assembly. Verify all tools are available.
Missing or damaged parts upon delivery.	Shipping damage or packing error.	Contact K-KnowBody Support immediately for replacement parts.

8. Product Specifications

Feature	Detail
Brand	K Knowbody
Model Number	Y8L049-1220-YY22
Product Dimensions (L x W x H)	230"L x 143"W x 102"H (approx. 19.17ft L x 11.92ft W x 8.5ft H)
Item Weight	520 Pounds
Frame Material	Alloy Steel (2x2" Galvanized Steel Poles, 1.4mm/17-Gauge walls)
Roof Material	Metal (0.3mm/30-Gauge Steel Panels)
Snow Load Capacity	Up to 550 lbs/Sq.Ft (tested for 20.48lbs per sq.ft)
Wind Resistance	100mph+ with proper anchoring
Water Resistance Level	Water Resistant
Ultraviolet Light Protection	85-99%
Assembly Required	Yes (Recommended 3-5 persons, 5-8 hours)
Color	Black
Country of Origin	China

9. Warranty and Support

K Knowbody is committed to providing high-quality products and customer satisfaction. For any inquiries regarding warranty, missing parts, damaged components, or technical support, please contact K-KnowBody Support.

Contact Information: Please refer to the contact details provided on the product packaging or the official K Knowbody website for the most up-to-date support information. For instant replacements of damaged parts, direct contact with K-KnowBody Support is recommended.

We appreciate your business and are here to assist you with any questions or concerns.

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.

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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