

K Knowbody Y8L049-1220-YY22

K Knowbody Metal Carport Instruction Manual

Model: Y8L049-1220-YY22

1. INTRODUCTION

This manual provides detailed instructions for the assembly, operation, and maintenance of your K Knowbody 12x20ft Heavy-Duty Metal Carport. This structure is designed to offer robust protection for vehicles and equipment against various weather conditions, including heavy snow and strong winds. Please read this manual thoroughly before beginning assembly to ensure safe and correct installation and long-term performance.

2. SAFETY INFORMATION

- Always wear appropriate safety gear, including gloves and eye protection, during assembly.
- Ensure the assembly area is clear of obstructions and hazards.
- This carport requires **3 to 5 people** for safe and efficient assembly. Do not attempt to assemble alone.
- Verify all local building codes and regulations before installation.
- Securely anchor the carport to the ground using the provided hurricane anchors to prevent wind damage.
- Do not climb on the roof of the carport.
- Keep children and pets away from the assembly area.

3. PACKAGE CONTENTS

Your K Knowbody Metal Carport is shipped in **5 separate boxes** with a total weight of approximately **520 lbs (235.87 kg)**. The boxes may arrive at different times. Please verify all components against the packing list (not provided in this document, refer to your physical packing list) before starting assembly.



Image: Carport dimensions (12ft width, 20ft length, 8.6ft peak height, 6.9ft side height) and packaging information (5 boxes, 520 lbs total weight).

Key components include:

- Galvanized Steel Frame Components (2x2" poles, crossbeams)
- Galvanized Steel Roof Panels (0.3mm / 30-Gauge)
- Reinforcement Kits
- 8 Hurricane Anchors
- All necessary assembly hardware (bolts, screws, washers, etc.)

4. SETUP AND ASSEMBLY INSTRUCTIONS

Assembly typically takes **5 to 8 hours** with **3 to 5 people**. Follow the step-by-step instructions provided in your separate assembly guide for detailed diagrams and part identification. The following provides a general overview of the process:

4.1 Site Preparation

- Choose a level, stable surface for installation.
- Clear the area of any debris, rocks, or vegetation.
- Ensure adequate clearance around the carport for assembly and future use.

4.2 Frame Assembly

Assemble the main frame structure using the **2x2" galvanized steel poles** with **1.4mm/17-Gauge walls**. These poles are 40% thicker than typical 1mm/25G poles, providing enhanced stability. Incorporate the **double-layer reinforcement** with 2 longitudinal crossbeams and top reinforcement kits for extreme weather resistance.



Image: Reinforced internal frame structure of the carport, highlighting the robust design for securing outdoor machinery.

WHAT MAKES US STAND OUT?

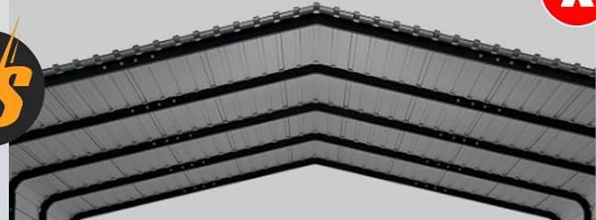
Enhanced Durability Through Increased Material Usage for Superior Strength

OURS



Heavily Reinforced

OTHERS



Brittle structure without reinforcement



Diameter 2x2" & Wall thickness 1.5mm



Uses Cutting Materials of 1mm



Thicker Metal Roof Panels of 30 Gauge



Uses Cutting Materials of 38 Gauge

Image: Comparison of material thickness, showing the carport's 2x2 inch, 1.5mm wall thickness poles and 30-gauge metal roof panels compared to thinner alternatives.

4.3 Roof Panel Installation

Attach the **0.3mm/30-Gauge steel roof panels**. These panels are 67% thicker than flimsy 0.18mm panels and are designed to support significant snow loads. Ensure proper overlap and sealing to prevent leaks.

4.4 Anchoring

Utilize the **8 hurricane anchors** to firmly secure the carport to the ground. Proper anchoring is crucial for stability, especially in high wind conditions (rated for 100mph+ winds).



Image: Carport in snow, illustrating the 3-layer metal roof panel and a detailed view of the heavy ground fixation anchor.

5. OPERATING AND USAGE

The K Knowbody Metal Carport provides **240 square feet** of covered space, suitable for a variety of uses:

- **Vehicle Protection:** Ideal for cars, trucks, RVs, campers, boats, and tractors.
- **Outdoor Storage:** Protects equipment, tools, and other valuables from the elements.
- **Workspace:** Provides a sheltered area for outdoor projects.
- **Event Shelter:** Can be used for outdoor gatherings or temporary guest parking.
- **Commercial Use:** Suitable for various business applications requiring covered outdoor space.

The carport is designed to withstand significant weather conditions:

- **Snow Load:** Supports up to **100 lbs per square foot** (tested for blizzards).
- **Wind Resistance:** With proper anchoring, it can withstand winds exceeding **100 mph** (hurricane-tested).
- **Water Resistance:** Features a water-resistant design with a pointed roof to channel water away.
- **UV Protection:** Provides **85-99% ultraviolet light protection**.



Image: Carport protecting a blue pickup truck during a rain shower, showcasing its weather resistance.



Image: Carport configured as an outdoor gathering area during winter, demonstrating its versatility beyond vehicle shelter.

6. MAINTENANCE

- **Regular Inspection:** Periodically check all bolts, screws, and connections to ensure they remain tight.
- **Anchoring Check:** Regularly inspect the hurricane anchors to confirm they are securely fastened to the ground. Re-tighten or re-secure as needed.
- **Cleaning:** Clean the roof panels and frame as necessary to remove dirt, leaves, and other debris. Use mild soap and water; avoid abrasive cleaners.
- **Snow Removal:** While designed for heavy snow loads, it is advisable to remove excessive snow accumulation to prolong the life of the structure, especially during prolonged heavy snowfall.
- **Damage Assessment:** After severe weather events, inspect the carport for any signs of damage and address them.

promptly.

7. TROUBLESHOOTING

- **Leaks:** If water leaks through the roof, check the overlap of the roof panels and ensure all fasteners are tight. Apply a suitable sealant if necessary.
- **Swaying/Instability:** Ensure all frame connections are properly tightened and that the hurricane anchors are fully engaged and secure in the ground. Re-evaluate the ground stability if swaying persists.
- **Bent or Damaged Parts:** If you receive bent or damaged parts, or if parts become damaged during assembly or use, contact K Knowbody Support for assistance.

8. SPECIFICATIONS

Model Number	Y8L049-1220-YY22
Brand	K Knowbody
Product Dimensions (L x W x H)	5.84L x 3.63W x 2.59H meters (12x20ft)
Item Weight	235.87 kg (520 lbs)
Floor Area	240 square feet
Frame Material	Galvanized Steel, Alloy Steel
Roof Panel Material	0.3mm / 30-Gauge Galvanized Steel
Color	Black
Snow Load Capacity	100 lbs/sq.ft
Wind Resistance	100mph+ (with proper anchoring)
Water Resistance Level	Water Resistant
UV Light Protection	85-99%
Recommended Uses	Vehicle Protection, Outdoor Storage, Boat Shelter, RV Cover, Workspace, Bicycle Storage, Guest Parking, Commercial Use

9. WARRANTY AND SUPPORT

For any damaged parts or inquiries regarding warranty information, please contact K Knowbody Support directly. They can provide instant replacements for eligible parts and assist with any product-related concerns.

Please refer to your purchase documentation or the K Knowbody official website for specific warranty terms and contact details.

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