

K Knowbody Y8L049-1220-YY22

K Knowbody Military-Grade Metal Carport 12x20 FT

MODEL: Y8L049-1220-YY22

Instruction Manual

1. Introduction

Thank you for choosing the K Knowbody Military-Grade Metal Carport. This manual provides essential information for the safe and efficient assembly, operation, and maintenance of your 12x20 FT carport. Please read all instructions carefully before beginning assembly and retain this manual for future reference.

Safety Precautions

- Always wear appropriate safety gear, including gloves and eye protection, during assembly.
- Assembly requires a minimum of 3-5 people due to the size and weight of components.
- Ensure the assembly area is clear of obstructions and level.
- Do not attempt assembly in high winds or adverse weather conditions.
- Securely anchor the carport to the ground using the provided hurricane anchors to prevent wind damage.

2. Product Overview

The K Knowbody 12x20 FT Metal Carport is designed for robust protection of vehicles and equipment. Key features include:

- **Frame:** 2x2 inch Galvanized Steel Poles with 1.4mm/17-Gauge Walls, offering 40% greater thickness than standard 1mm/25-gauge poles.
- **Reinforcement:** Double-layer reinforcement with 2 longitudinal crossbeams and top reinforcement kits for enhanced weather resistance.
- **Roof:** 0.3mm/30-Gauge Steel Roof panels, 67% thicker than typical 0.18mm panels, supporting up to 100 lbs per square foot.
- **Anchoring:** Includes 8 hurricane anchors for secure ground-locking, designed to withstand winds over 100 mph.

Carport Dimensions

 **6**
Boxes

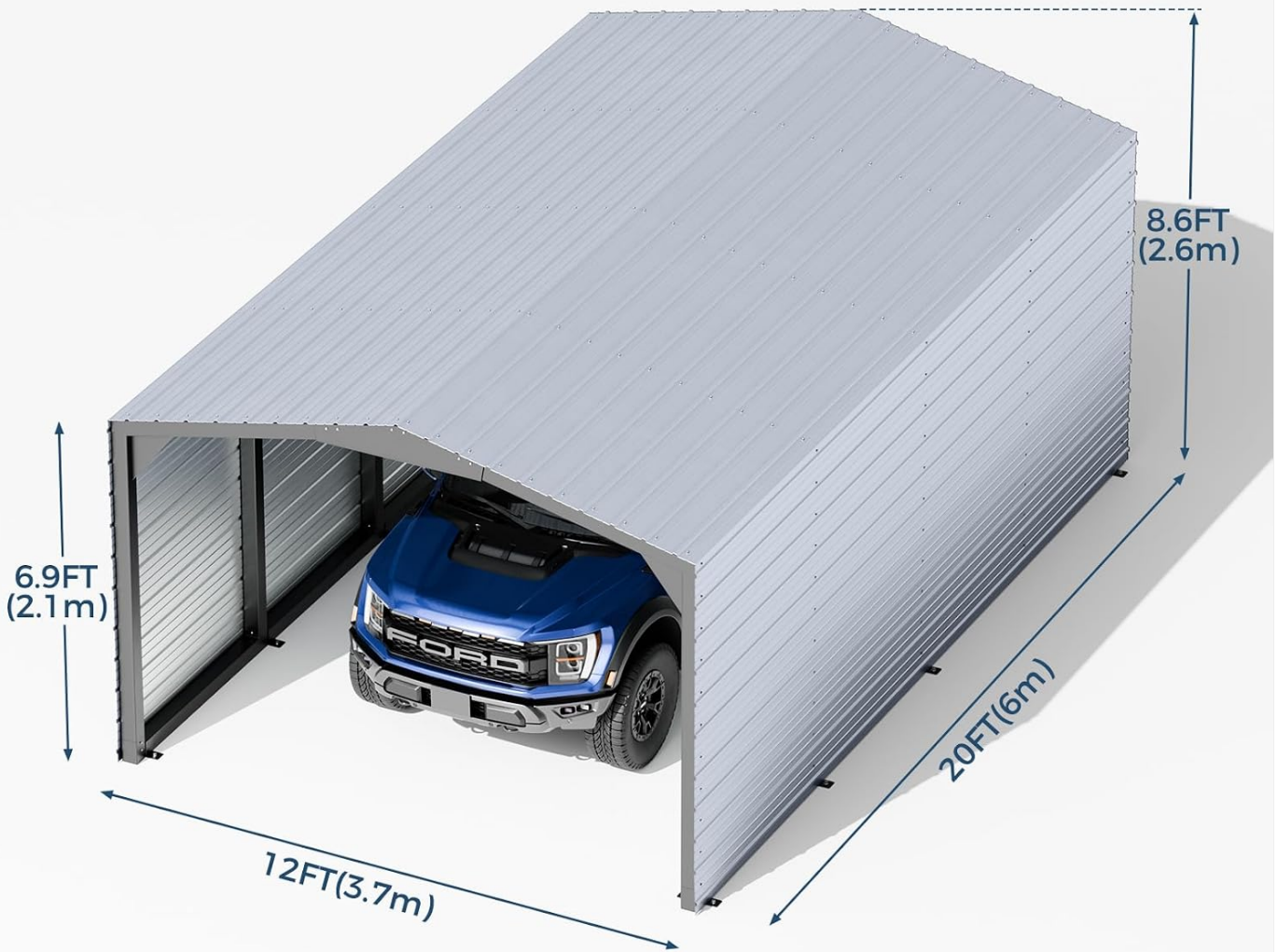


Figure 2.1: Carport Dimensions. The carport measures 12 feet wide by 20 feet long, with a peak height of 8.6 feet and side clearance of 6.9 feet.

Weather-Defying Roof

Built to withstand the harshest alpine condition



Figure 2.2: Weather-Defying Roof. The roof is designed to be UV proof, prevent zero leakage, and avoid water accumulation, ensuring protection in various weather conditions.

ULTIMATE METAL GARAGE

Designed for professional-grade protection and customer-driven performance



High-Tensile 30-Gauge
Steel Sheet



Reinforced 17-Gauge
Steel Frame



2-Sided Enclosure
(Optional)

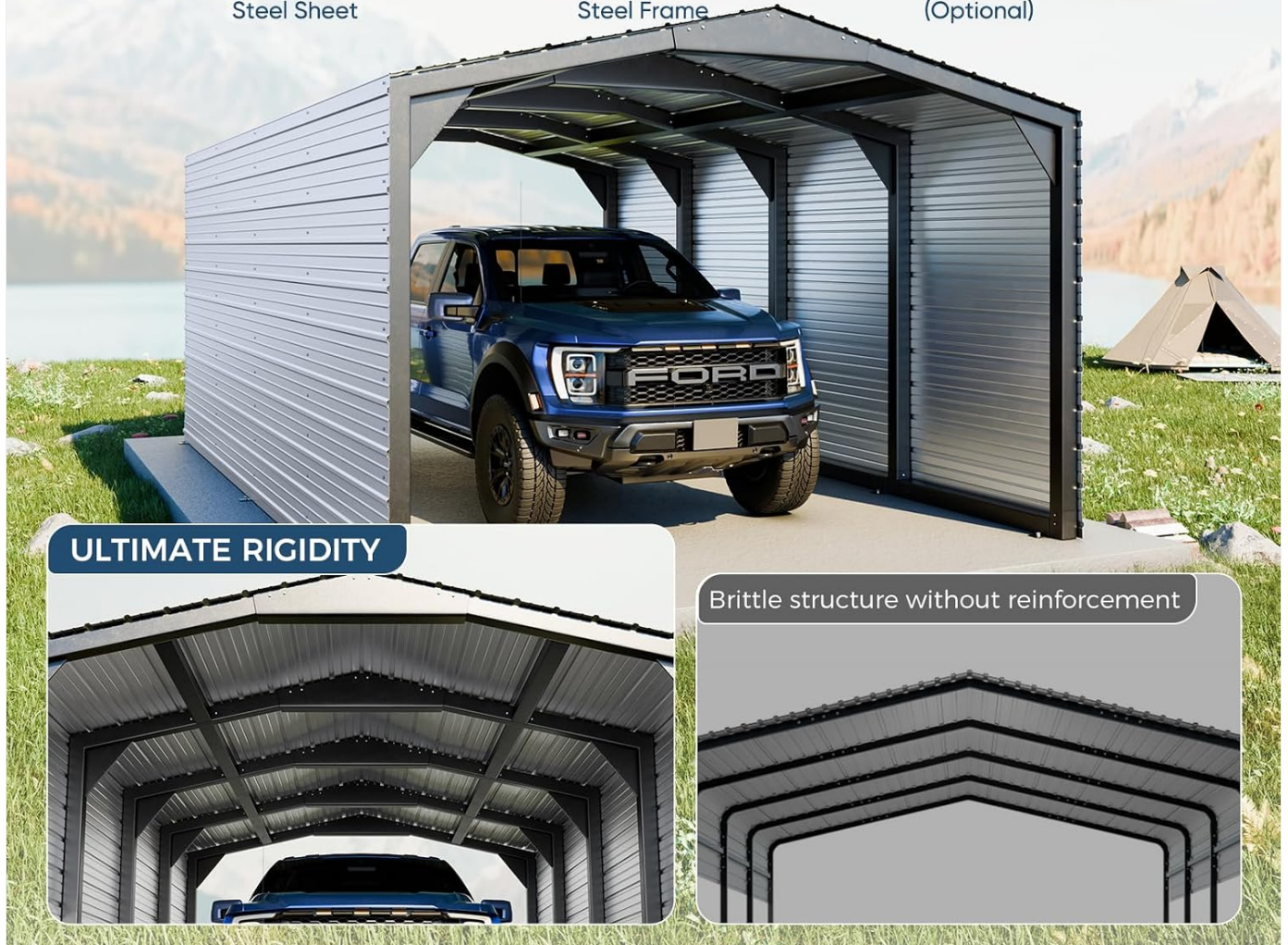


Figure 2.3: Ultimate Metal Garage Structure. Illustrates the high-tensile 30-gauge steel sheet and reinforced 17-gauge steel frame, highlighting the ultimate rigidity compared to brittle structures without reinforcement.

3. Setup and Assembly Instructions

Assembly typically requires 3-5 individuals and can take 5-8 hours. Follow the detailed instructions provided in the separate assembly manual included with your product. Below is a general overview and helpful tips.

General Assembly Steps:

1. **Unpack and Organize:** Carefully unpack all boxes and verify that all components are present against the parts list. Organize parts by type for easier access.
2. **Assemble Frame Sections:** Begin by assembling the vertical posts and horizontal beams according to the diagrams. Ensure all bolts are tightened securely.
3. **Install Roof Trusses:** Attach the roof trusses to the assembled frame sections. Pay close attention to the double-layer reinforcement components.

- 4. **Attach Roof Panels:** Secure the 30-gauge steel roof panels to the trusses. Overlap panels correctly to ensure water resistance.
- 5. **Install Side Enclosure Panels:** For the 2-sided enclosure model, attach the side panels to the frame.
- 6. **Anchor the Carport:** Use the 8 hurricane anchors to firmly secure the carport to the ground. This step is critical for stability and wind resistance.

Your browser does not support the video tag.

Video 3.1: 20x20 FT Car Garage 3D Guide. This video provides a 3D visual guide to the assembly process of a similar K Knowbody carport, demonstrating key structural connections and steps.



Figure 3.2: Military-Grade Reinforced Garage Kits Roof Structure. This image highlights the robust internal framework and reinforcement points of the carport roof, crucial for structural integrity.



Figure 3.3: Double-Layer Reinforcement Steel Profiles. Shows the cross-section of the steel poles, illustrating the wider profile, enhanced tenacity, and thicker steel walls that contribute to the double-layer reinforcement.

4. Operating Instructions

Once assembled and securely anchored, your K Knowbody carport provides reliable shelter.

- **Vehicle Storage:** Park your vehicle(s) or store equipment within the carport's dimensions. Ensure adequate clearance around the stored items.
- **Weight Capacity:** The roof is designed to support up to 100 lbs per square foot. Do not exceed this load, especially during heavy snowfall.
- **Wind Resistance:** The carport is engineered to withstand winds over 100 mph when properly anchored. However, in extreme weather conditions, consider additional precautions if necessary.

ULTIMATE WINTER PROTECTION

Keep your valuables secure under a 9000 lbs rated steel roof



Figure 4.1: Ultimate Winter Protection. Demonstrates the carport's ability to withstand significant snow loads, rated for 9000 lbs total roof load.

ELITE ASSET PROTECTION



Figure 4.2: Elite Asset Protection. Shows the carport providing shelter for a jet ski, illustrating its versatility for various valuable assets.

5. Maintenance

Regular maintenance will extend the lifespan of your carport and ensure continued protection.

- **Periodic Inspection:** Annually, or after severe weather, inspect all bolts, connections, and anchors for tightness and signs of wear or damage. Tighten any loose fasteners.
- **Cleaning:** Clean the roof and side panels periodically to remove dirt, debris, and leaves. Use a mild detergent and water; avoid abrasive cleaners.
- **Snow Removal:** During heavy snowfall, carefully remove accumulated snow from the roof to prevent exceeding the maximum load capacity. Use a soft brush or broom to avoid damaging the panels.
- **Rust Prevention:** The galvanized steel frame and powder coating resist rust. However, if any scratches or chips occur, touch them up with rust-inhibiting paint to prevent corrosion.

6. Troubleshooting

This section addresses common issues you might encounter.

Problem	Possible Cause	Solution
Carport feels unstable or sways	Loose anchors or frame connections.	Check and tighten all hurricane anchors and frame bolts. Ensure the ground is level.
Water leakage from roof	Improperly overlapped roof panels or loose fasteners.	Inspect roof panel overlaps and ensure all self-tapping screws are tight. Apply silicone sealant if necessary.
Missing or damaged parts	Shipping error or accidental damage during assembly.	Contact K Knowbody Support immediately for instant replacements.

7. Specifications

Feature	Detail
Brand	K Knowbody
Model Number	Y8L049-1220-YY22
Material	Alloy Steel
Color	Ash Gray
Product Dimensions (L x W x H)	230"L x 143"W x 102"H (12x20 FT)
Item Weight	589 pounds
Frame Material	Alloy Steel (2x2" Galvanized, 1.4mm/17-Gauge)
Roof Material	0.3mm/30-Gauge Steel
Max Roof Load	100 lbs per sq.ft (9000 lbs total)
Water Resistance Level	Water Resistant
Ultraviolet Light Protection	85-99%
Number of Items	1
Assembly Time (Approx.)	5-8 hours (3-5 people)

8. Warranty and Support

K Knowbody is committed to providing high-quality products. For specific warranty details, please refer to the warranty card included with your purchase or visit the official K Knowbody website.

Customer Support:

If you encounter any issues, have questions about assembly, or require replacement parts, please contact K Knowbody Support. Our team is ready to assist you.

- **Contact:** Refer to the contact information provided in your product packaging or visit the [K Knowbody Store on Amazon](#).
- **Replacements:** Damaged or missing parts will be addressed promptly by K Knowbody Support.

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