Poborin 20x20FT Carport

Poborin 20x20 Heavy Duty Galvanized Steel Carport

Instruction Manual - Model: 20x20FT Carport

Your guide to assembly, operation, and maintenance.

1. Introduction

This manual provides detailed instructions for the safe and correct assembly, operation, and maintenance of your Poborin 20x20 Heavy Duty Galvanized Steel Carport. This structure is designed to offer robust, all-weather protection for vehicles such as cars, SUVs, trucks, boats, and tractors. Please read this manual thoroughly before beginning assembly and retain it for future reference.

2. Safety Information

Adhering to these safety guidelines is crucial for preventing injury and damage to the product.

- **Read All Instructions:** Before starting assembly, carefully read and understand all instructions provided in this manual.
- **Two-Person Assembly:** Assembly requires at least two adults. Do not attempt to assemble alone.
- **Wear Protective Gear:** Always wear appropriate safety gear, including gloves and eye protection, during assembly.
- **Level Surface:** Ensure the installation area is a level, stable, and firm surface. Uneven ground can compromise the carport's stability.
- **Secure Anchoring:** Properly anchor the carport to the ground using the provided hardware to prevent wind uplift and movement. Failure to do so can result in structural failure and damage.
- **Weather Conditions:** Do not assemble in strong winds, heavy rain, or lightning conditions.
- **Snow Load:** In areas with heavy snowfall, regularly remove snow accumulation from the roof to prevent structural collapse. The design is tested to withstand 50 MPH winds, but extreme snow loads require attention.
- **Children and Pets:** Keep children and pets away from the assembly area to prevent accidents.
- **Electrical Safety:** Be aware of overhead power lines and underground utilities when selecting an installation site and during assembly.

3. Package Contents

Before beginning assembly, verify that all components listed below are present and undamaged. The carport is typically shipped in 5 packages. If any parts are missing or damaged, please contact customer support.

- Steel Frame Components (Poles, Beams, Connectors)
- Galvanized Steel Roof Panels
- Hardware Kit (Bolts, Nuts, Washers, Screws)
- Ground Anchors
- Instruction Manual (this document)



Figure 3.1: Carport dimensions. The carport measures approximately 20 feet in length, 20 feet in width, and 10.24 feet in height at its peak.

4. Setup and Assembly Instructions

Follow these steps carefully for proper assembly. Refer to the included video for a visual guide.

4.1. Assembly Video Guide

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Video 4.1: Official installation guide for the metal carport. This video provides a step-by-step visual walkthrough of the assembly process.

4.2. Step-by-Step Assembly

1. **Prepare the Site:** Clear the chosen area of any debris. Ensure the ground is level and firm. Mark the footprint of the carport.
2. **Assemble the Frame:** Begin by connecting the base poles and vertical supports according to the diagrams in your hardware kit. Use the provided bolts and nuts, tightening them securely but not fully until the entire frame is upright.
3. **Install Roof Trusses:** Attach the roof trusses to the vertical supports, forming the peaked roof structure. Ensure all connections are firm.
4. **Attach Roof Panels:** Carefully place the galvanized steel roof panels onto the frame. Overlap panels as indicated in the instructions to ensure water resistance. Secure them using the self-tapping screws provided. Ensure the anti-leak seam-taped panels are correctly aligned.
5. **Reinforce and Anchor:** Once the frame and roof are assembled, fully tighten all bolts. Install the reinforced steel cables and ground anchors to secure the carport firmly to the ground. This step is critical for stability against wind.



Figure 4.2: Key assembly steps including roof panel installation and ground anchoring.

5. Operating Instructions

The Poborin Carport is designed for straightforward use as a protective shelter.

- **Vehicle Placement:** Park vehicles centrally within the carport to ensure maximum coverage and protection from the elements.
- **Clearance:** Always ensure adequate clearance when driving vehicles in and out to avoid striking the frame or roof.
- **Multi-Usage:** This carport can also serve as a temporary garage, boat shelter, or outdoor storage for equipment. Ensure items stored do not exceed the carport's dimensions or weight capacity.



Figure 5.1: The carport providing shelter for two vehicles, highlighting its durable galvanized steel construction and features.

6. Maintenance

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

- **Regular Inspection:** Periodically inspect all frame connections, bolts, and ground anchors for tightness. Re-tighten any loose fasteners.
- **Roof Cleaning:** Clean the roof panels regularly to remove leaves, dirt, and debris. Use a soft brush and mild soap with water. Avoid abrasive cleaners or tools that could scratch the galvanized finish.
- **Snow Removal:** In winter, promptly remove heavy snow accumulation from the roof to prevent excessive stress on the structure.
- **Rust Prevention:** While the frame is rust-resistant, inspect for any signs of rust, especially in areas where the coating might be scratched. Touch up with rust-inhibiting paint if necessary.
- **Drainage:** Ensure the slope-roof drainage system is clear of obstructions to allow water to run off freely.

7. Troubleshooting

Refer to this section for solutions to common issues.

Problem	Possible Cause	Solution
Carport feels unstable or sways.	Loose frame connections or inadequate anchoring.	Check and tighten all bolts and nuts. Ensure ground anchors are fully secured and the installation surface is level.
Water leakage from the roof.	Improperly overlapped roof panels or damaged seals.	Inspect roof panel overlaps and ensure they are correctly aligned and sealed. Check for any damage to panels.
Difficulty assembling frame components.	Misalignment of parts or incorrect orientation.	Refer to the assembly video and diagrams. Ensure parts are oriented correctly before attempting to connect. Do not force components.

8. Specifications

Key technical details for the Poborin 20x20 Carport.

Feature	Detail
Model	20x20FT Carport
Dimensions (L x W x H)	240"L x 240"W x 123"H (20ft x 20ft x 10.25ft)
Floor Area	400 square feet
Frame Material	Heavy-Duty Galvanized Steel
Roof Material	Galvanized Steel with 1mm anti-leak seam-taped panels
Color	Gray
Water Resistance Level	Waterproof
UV Protection	Yes

Feature	Detail
Wind Resistance	Tested to withstand 50 MPH winds

9. Warranty and Support

For warranty information, product support, or to inquire about replacement parts, please contact Poborin customer service directly. Refer to your purchase documentation for specific warranty terms and contact details.
Manufacturer: Poborin

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