Benass F2020MH-G

Benass 20x20 Heavy Duty Metal Carport Instruction Manual

Model: F2020MH-G | Brand: Benass

Introduction

The Benass 20x20 Heavy Duty Metal Carport is designed to provide robust and versatile shelter for vehicles, equipment, or as an outdoor workspace. Engineered with a reinforced steel frame and galvanized roof system, it offers superior protection against various weather conditions. This manual provides essential information for the safe assembly, operation, and maintenance of your carport.



Image: The Benass 20x20 Heavy Duty Metal Carport providing shelter for vehicles.

Safety Information

Important: Please read and understand all safety instructions before assembly and use.

- Ensure you have sufficient clearance area for assembly.
- Given the heavy-duty nature of this structure, we recommend at least 2-3 adults for the installation process.
- Always wear appropriate safety gear, including gloves, during assembly.
- Do not attempt to assemble in high winds or severe weather conditions.
- Regularly inspect the structure for any signs of damage or loose connections, especially after severe weather.

- The frame is finished with a powder-coated square steel tube that resists rust and corrosion. However, regular cleaning can extend its lifespan.
- All roof panel edges are treated with protective rubber edge banding to eliminate sharp hazards during installation and daily use.

Product Features

- **All-Weather Protection:** Designed to withstand winds up to 120 MPH and a snow load of 14.3 PSF (approx. 70kg/).
- **Superior Strength & Stability:** Features a 1.6"x1.6" reinforced square steel tube frame, 10 heavy-duty legs, 15 roof support beams, and 2 ground tubes. Includes 8 premium anchor stakes.
- **Fully Enclosed & Versatile:** Includes two roll-up zipper doors and two removable PE sidewalls for complete enclosure.
- **Leak-Proof Design:** Galvanized roof panels overlap with specialized weather stripping and leak-proof adhesive tape.
- **Safety & Aesthetics:** Rubber edge banding on all roof panels.
- **Bonus Feature:** Includes a solar LED light for illumination.

Setup and Installation

Careful planning and adherence to instructions are crucial for safe and stable assembly. Ensure you have all components listed in the packaging before beginning.

Preparation

- Choose a level and clear area for installation with sufficient clearance.
- Gather all tools required (not included, typically wrenches, ladders, measuring tape).
- Unpack all components and verify against the parts list (refer to your specific packaging for the complete list).

Assembly Steps (General Overview)

1. Assemble the base frame components, ensuring all connections are secure.
2. Erect the vertical support legs and connect them to the base frame.
3. Install the roof support beams and crossbeams, forming the structural integrity of the roof.
4. Attach the galvanized steel roof panels, ensuring proper overlap and sealing with the provided weather stripping and adhesive tape for waterproofing.
5. Install the two roll-up zipper doors and two removable PE sidewalls as desired for full enclosure.
6. Secure the entire structure using the 8 premium anchor stakes provided, ensuring they are firmly embedded into the ground.
7. Install the bonus solar LED light in a suitable position for optimal charging and illumination.



Image: Reinforced construction details, including 450 lbs total weight, 5 reinforced crossbeams, and 1.6"x1.6" square tube frame.



Image: Product dimensions indicating a length of 19.5 ft, width of 19.2 ft, overall height of 9.4 ft, and entry height of 6.4 ft.

Operating Instructions

The Benass carport is designed for ease of use and adaptability.

- **Access:** Utilize the two roll-up zipper doors for easy entry and exit of vehicles or equipment.
- **Enclosure:** The two removable PE sidewalls allow you to fully enclose the carport for maximum protection or remove them for an open canopy style.
- **Illumination:** The integrated solar LED light provides convenient, eco-friendly lighting for nighttime use. Ensure the solar panel is exposed to adequate sunlight for charging.



Image: The carport illuminated by its solar LED light at night, demonstrating its functionality.

Maintenance

Regular maintenance will ensure the longevity and continued performance of your Benass carport.

- **Cleaning:** Periodically clean the galvanized steel roof panels and PE sidewalls with mild soap and water to remove dirt, debris, and prevent buildup. Avoid abrasive cleaners.
- **Structural Inspection:** Regularly check all bolts, nuts, and anchor stakes to ensure they remain tight and secure. Tighten any loose fasteners immediately.
- **Weather Protection:** Inspect the overlapping roof panels, weather stripping, and adhesive tape for any signs of wear or damage to maintain the leak-proof integrity. Repair or replace as needed.
- **Snow Removal:** In areas with heavy snowfall, regularly remove accumulated snow from the roof to prevent excessive load, even though the structure is rated for significant snow loads.
- **Corrosion Check:** Although the frame is powder-coated for rust resistance, inspect for any scratches or chips in the coating that could lead to corrosion. Touch up with appropriate rust-inhibiting paint if necessary.



Image: Demonstrating the carport's waterproof capabilities during rainfall.



Image: The carport enduring heavy snow, showcasing its robust construction for winter protection.

Troubleshooting

If you encounter issues with your carport, consider the following common solutions:

- **Stability Concerns:** Ensure all anchor stakes are fully engaged and secure. Verify that all frame connections are tightly fastened. Uneven ground can affect stability; consider relocating or leveling the installation site.
- **Water Leaks:** Re-inspect the roof panel overlaps, weather stripping, and adhesive tape. Ensure there are no gaps or tears. Confirm that the sidewalls are properly attached and sealed.
- **Zipper Malfunction:** Check zippers for obstructions. Apply a silicone-based lubricant if they are stiff. Do not force stuck zippers.
- **Solar LED Light Not Working:** Ensure the solar panel is clean and receives direct sunlight for several hours daily. Check for any loose wiring connections to the light unit.
- **Damage from Wind/Snow:** After severe weather, thoroughly inspect the entire structure for bent frames, torn sidewalls, or dislodged roof panels. Address any damage promptly to prevent further issues.

Specifications

Feature	Detail
Brand	Benass
Model Number	F2020MH-G
Product Dimensions (L x W x H)	233.46"L x 229.53"W x 102.36"H (approx. 19.46 ft L x 19.13 ft W x 8.53 ft H)
Size	20x20FT
Color	Gray
Material	Alloy Steel (Frame), Polypropylene (PP) (Sidewalls)
Frame Material	1.6"x1.6" Reinforced Square Alloy Steel Tube
Roof Material	Galvanized Steel
Wind Resistance	Up to 120 MPH
Snow Load Rating	14.3 PSF (approx. 70kg/)
Water Resistance Level	Waterproof
Ultraviolet Light Protection	Yes
Number of Legs	10
Number of Roof Beams	15
Anchor Stakes Included	8
Total Weight	450+ lbs
Recommended Uses	Temporary Garages, Outdoor Workshops, Event Shelters, Storage Solutions

Warranty and Support

Benass stands behind the quality of its products.

- **Warranty:** This product is backed by a 1-year 100% satisfaction guarantee.
- **Customer Support:** Our professional team is available to assist you with any questions, concerns, or installation support you may need.
- **Contact:** For support, please refer to the contact information provided with your purchase or visit the official Benass store online: Benass Store.

Versatile Usage Examples

Beyond vehicle storage, the Benass carport offers flexible solutions for various needs:

- **Temporary Garages:** Protect vehicles from sun, rain, and snow.
- **Outdoor Workshops:** A spacious, well-lit environment for DIY projects.
- **Event Shelters:** With side walls removed, they act as high-end canopies for outdoor gatherings.

- **Storage Solutions:** A secure space for farm equipment, ATVs, or heavy outdoor machinery.

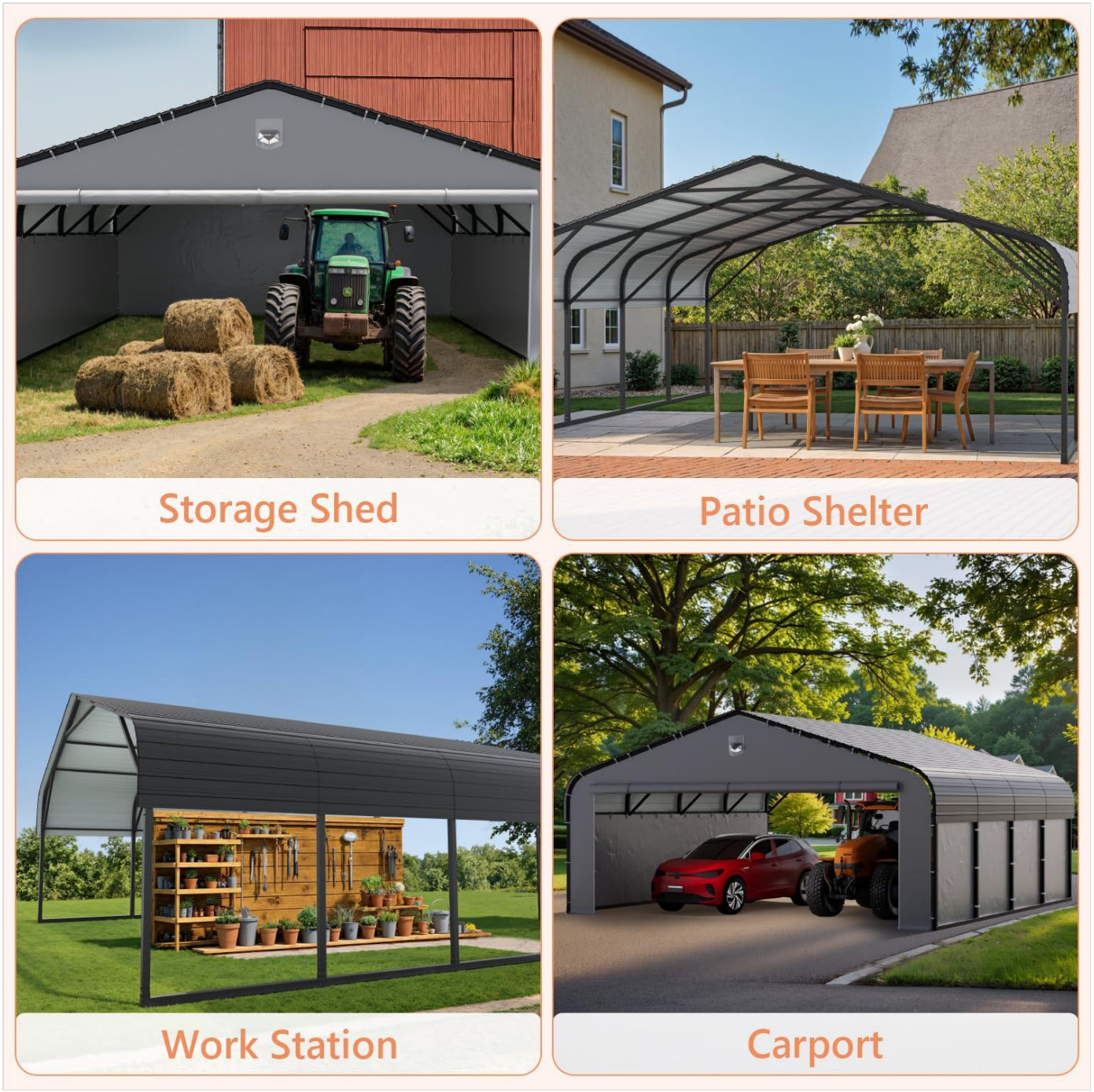


Image: Examples of the carport's versatility, including use as a storage shed, patio shelter, work station, and vehicle carport.



Image: The carport integrated into a home environment, demonstrating its practical application.



Image: The carport providing complete protection in snowy conditions, with its doors closed.

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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