

rms titanic modelmakers manual File PDF

rms titanic modelmakers manual is an invaluable resource for hobbyists and history enthusiasts alike who are passionate about recreating one of the most iconic ships in maritime history. Whether you are a seasoned model maker or a beginner eager to embark on this challenging but rewarding project, having a comprehensive manual is essential to ensure accuracy, detail, and craftsmanship. The Titanic, a symbol of human engineering marvel and tragic loss, continues to inspire model makers around the world. This manual provides step-by-step guidance, detailed instructions, and expert tips to help you bring the RMS Titanic to life in miniature form.

Understanding the RMS Titanic: A Brief Historical Overview

Before diving into the building process, it's important to understand the historical significance of the Titanic and the key features that make her an intriguing subject for modeling.

The Significance of the Titanic

- The RMS Titanic was a British passenger liner that sank on its maiden voyage in 1912.
- Known for its luxurious amenities and advanced safety features for its time.
- Its sinking resulted in the loss of over 1,500 lives, making it one of the deadliest peacetime maritime disasters.

Key Features to Include in the Model

- The ship's distinctive hull shape and size.
- The superstructure with the iconic four funnels.
- The detailed deck arrangements, including lifeboats, ventilators, and deck fittings.
- The intricate rigging and masts.

Getting Started: Gather Your Materials and Tools

A successful model begins with the right materials and tools. According to the *rms titanic modelmakers manual*, planning and preparation are crucial.

Essential Materials

- Plastic kits or scratch-building materials: Depending on your skill level, choose between a detailed plastic kit or raw materials like balsa wood, styrene sheets, and resin.
- Paints and adhesives: Use high-quality model paints, glues, and primers suitable for the materials.
- Photo-etched parts: For fine details such as railings and deck fittings.
- Decals: To add markings, lifeboats labels, and other emblems.

Tools Required

- Hobby knives and scalpels.
- Fine-tipped brushes and airbrush for painting.
- Tweezers and clamps.
- Sanding sticks and files.
- Rulers and measuring tools.
- Pin vise and small drills for rigging.

Step-by-Step Building Process

Following the structured approach outlined in the manual ensures accuracy and minimizes errors during construction.

1. Planning and Blueprinting

- Study historical photographs and blueprints to understand the ship's proportions.
- Create or acquire scaled plans that match your desired model size.

2. Assembling the Hull

- Begin with the keel and frame structure.
- Carefully assemble the hull planking, ensuring smooth and even surfaces.
- Use filler and sanding to achieve the correct contours.

3. Constructing the Superstructure

- Build the main decks, superstructure walls, and cabins.
- Pay close attention to the placement of windows, doors, and other fixtures.
- Use photo-etched parts for railings and detailed trim.

4. Adding Deck Details

- Install features such as ventilators, cranes, and capstans.
- Attach lifeboats and davits, referencing authentic configurations.
- Detail the decks with fittings, ladders, and deck chairs.

5. Painting and Finishing

- Prime the entire model before applying colors.
- Use accurate color schemes, such as the Titanic's black hull with white superstructure.
- Apply weathering effects for realism, like rust, grime, and wear marks.

6. Rigging and Final Touches

- String the masts and rigging with fine thread or wire.
- Attach the funnels, masts, and other tall structures.
- Add decals, nameplates, and any additional ornamentation.

Expert Tips from the RMS Titanic Modelmakers Manual

The manual emphasizes the importance of patience, precision, and attention to detail. Here are some key tips:

- **Use reference materials:** Always cross-reference your model with authentic sources to maintain historical accuracy.
- **Take your time:** Rushing can lead to mistakes. Allow glue and paint to dry thoroughly between steps.
- **Test fitting:** Assemble parts without glue first to ensure proper fit.
- **Detailing:** Small details make a big difference; don't skip on tiny components like lifeboats, railings, and rigging.
- **Weathering:** Subtle weathering enhances realism without overdoing it.

Displaying and Preserving Your Model

Once completed, proper display and preservation techniques will ensure your Titanic model remains in excellent condition.

Display Tips

- Use a sturdy base or diorama platform.
- Incorporate lighting to highlight details.
- Position the model at eye level for optimal viewing.

Preservation Tips

- Keep the model in a dust-free environment.
- Avoid direct sunlight to prevent fading.
- Use display cases to protect from physical damage.

Resources and Additional Learning

The *rms titanic modelmakers manual* encourages modelers to expand their knowledge through various resources:

- Historical books and documentaries on Titanic's construction and voyage.
- Online forums and communities dedicated to model making.
- Workshops and tutorials by experienced modelers.
- Visit maritime museums or exhibitions to see authentic artifacts.

Conclusion

Creating a detailed and accurate RMS Titanic model is a rewarding project that combines artistic skill, historical research, and technical craftsmanship. The *rms titanic modelmakers manual* serves as an essential guide in navigating each stage of the process—from initial planning to final finishing. By following its comprehensive instructions and tips, hobbyists can produce a stunning replica that honors this legendary vessel's history. Whether displayed as a tribute or used as an educational tool, your Titanic model will stand as a testament to your patience, dedication, and love for maritime history.

RMS Titanic Modelmakers Manual: A Comprehensive Guide for Enthusiasts and Professionals

The RMS Titanic Modelmakers Manual stands as an essential resource for hobbyists, historians, and professional modelmakers alike. It offers detailed instructions, historical insights, and technical specifications necessary to recreate one of the most iconic ships in maritime history. Whether you're building a scale replica for display, educational purposes, or as part of a larger project, this manual

serves as the definitive guide to understanding the intricacies involved in modeling the Titanic with accuracy and craftsmanship.

Introduction to the RMS Titanic and Its Significance

Before diving into the technicalities of modelmaking, it's crucial to appreciate the historical context and significance of the Titanic. Launched in 1912, the Titanic was considered the pinnacle of maritime engineering and luxury. Its tragic sinking became a defining moment of the 20th century, inspiring countless books, films, and models.

Understanding the ship's design, layout, and features enhances the accuracy of the model and deepens appreciation for the craftsmanship involved in recreating it.

Overview of the RMS Titanic Modelmaking Manual

The RMS Titanic Modelmakers Manual is divided into several comprehensive sections, including:

- Historical overview and ship specifications
- Materials and tools required
- Step-by-step construction processes
- Painting, detailing, and finishing techniques
- Maintenance and display tips

This structure ensures that modelmakers of all skill levels can navigate from foundational knowledge to advanced detailing.

Section 1: Understanding the Titanic's Design and Architecture

1.1 Basic Ship Layout

The Titanic's complex design includes:

- Hull and Keel: The foundation of the ship, built for stability and strength.
- Superstructure: The above-deck structures, including the bridge, promenade decks, and accommodations.
- Interior Layout: Cabins, lounges, dining areas, and engine rooms.
- Decks: Multiple levels, each with specific functions.

1.2 Key Components and Features

- Bow and Stern Design: Streamlined for hydrodynamics.
- Funnels: Four large smokestacks, with the central two being functional.
- Lifeboats: Arranged along the sides, with davits for deployment.
- Promenade Decks: Iconic features with railings and deck chairs.

1.3 Technical Specifications

- Length: 882.5 feet (269.1 meters)
- Beam: 92.5 feet (28.2 meters)
- Draft: 34 feet (10.4 meters)
- Propulsion: Steam turbines and reciprocating engines
- Passenger Capacity: Approximately 2,200 passengers and 900 crew

Section 2: Gathering Materials and Tools

2.1 Recommended Materials

- Plastic Kits: Many modelmakers utilize pre-made kits for hulls and superstructures.
- Wood: Balsa or basswood for framing and detailing.
- Resin and Casting Materials: For intricate parts like funnels and decorative elements.
- Paints: Enamel, acrylics, or airbrush-compatible paints matching Titanic's color scheme.
- Decals and Transfers: For logos, lettering, and detailing.
- String, Thread, and Wire: For rigging, lifeboats, and railing.

2.2 Essential Tools

- Hobby knives and scalpels
- Precision tweezers
- Sanding sticks and files
- Small drills and pin vises
- Brushes and airbrushes
- Clamps and masking tape

Section 3: Step-by-Step Construction Process

3.1 Planning and Blueprinting

- Study Blueprints: Use the manual's detailed diagrams or supplementary plans.
- Scale Selection: Typical scales for Titanic models include 1:350, 1:400, or 1:200.
- Create a Work Plan: Break down the project into manageable phases.

3.2 Building the Hull

- Assembling the Keel: Start with the backbone of the model.
- Constructing the Frame: Use balsa or plastic for the bulkheads.
- Adding the Outer Shell: Attach hull plating or cladding, ensuring smooth curves.

3.3 Assembling Superstructures

- Bridge and Deckhouses: Carefully assemble and position on the deck.
- Funnels and Chimneys: Use resin or pre-made parts; detail with paint and decals.
- Lifeboats and Davits: Assemble separately for realism, then attach strategically.

3.4 Detail Work

- Railing and Deck Furniture: Use fine wire or photo-etched parts.
- Lighting: Incorporate LED lighting for night-time display effects.
- Painting: Follow the manual's color guide to achieve authentic hues.

3.5 Final Assembly and Finishing Touches

- Rigging: String and secure lifelines, antennas, and other rigging.
- Decals and Markings: Apply carefully to avoid bubbles or misalignment.
- Weathering: Add subtle wear, rust, or water effects for realism.

Section 4: Painting, Detailing, and Finishing Techniques

4.1 Color Schemes and Accurate Painting

- Use a color palette matching historical photographs.
- Apply primer before painting to ensure adhesion.
- Use masking techniques for clean lines.

4.2 Weathering and Aging

- Employ dry brushing and washes to simulate age.
- Add rust effects around metal fittings.
- Use water effects to simulate the ocean and waterline.

4.3 Adding Authentic Details

- Incorporate tiny figures, luggage, and accessories.
- Use decals for text, port logos, and numbering.
- Add realistic smoke or steam effects from funnels.

Section 5: Maintenance, Display, and Preservation

5.1 Display Tips

- Place on stable, dust-free surfaces.
- Use display cases to protect from dust and damage.
- Incorporate lighting for dramatic effects.

5.2 Preservation Techniques

- Regularly dust with soft brushes.
- Avoid direct sunlight to prevent fading.
- Use anti-static treatments if necessary.

Tips and Best Practices for Successful Titanic Modeling

- Research Extensively: Consult multiple sources, including blueprints, photographs, and historical texts.
- Patience is Key: Take your time during assembly and detailing.
- Precision Matters: Fine detail work enhances realism.
- Practice Techniques: Experiment on scrap before applying to the main model.
- Join Communities: Online forums and clubs can provide valuable feedback and inspiration.

Conclusion

Building a scale model of the RMS Titanic is a rewarding endeavor that combines historical appreciation with artistic craftsmanship. The RMS Titanic Modelmakers Manual offers invaluable guidance, from understanding the ship's complex design to mastering the intricacies of detailed modeling. With patience, precision, and passion, you can create a stunning replica that honors this legendary vessel and showcases your skills as a modelmaker.

Whether you're a novice or a seasoned professional, this manual serves as your comprehensive roadmap to bringing the Titanic to life in miniature. Happy modeling!

Question What is the purpose of the RMS Titanic Model Makers Manual? The RMS Titanic Model Makers Manual provides detailed instructions and guidelines for accurately constructing scale models of the Titanic, including historical details, materials, and assembly techniques. **Answer** Where can I find the latest version of the RMS Titanic Model Makers Manual? The latest version of the manual is available through specialized model-making retailers, official Titanic memorabilia websites, or dedicated maritime modeling forums and communities. Does the RMS Titanic Model Makers Manual include historical context and ship specifications? Yes, the manual includes historical background, technical specifications, and detailed diagrams to help model makers create accurate representations of the Titanic. Are there digital or online resources associated with the RMS Titanic Model Makers Manual? Many model makers access supplementary digital resources such as downloadable plans, tutorial videos, and forums that complement the manual and enhance the building process. Is the RMS Titanic Model Makers Manual suitable for beginners? While it is comprehensive, the manual is primarily aimed at intermediate to advanced model makers; beginners may want to start with simpler kits before tackling detailed manuals like this one. How detailed are the instructions in the RMS Titanic Model Makers Manual? The instructions are highly detailed, including step-by-step procedures, material lists, and tips for achieving historical accuracy and structural integrity in the model.

Related keywords: Titanic model kit, model building manual, Titanic scale model, ship model instructions, Titanic model parts, model ship kit, Titanic craft guide, modelmaker's manual, scale model ship, Titanic model assembly

PERIOD SHIP MODELMAKING AN ILLUSTRATED MASTERCLAS

Period ship modelmaking an illustrated masterclass

Creating period ship models is a rewarding and intricate craft that combines historical research, craftsmanship, and attention to detail. Whether you're a seasoned model maker or a passionate beginner, mastering the art of period ship modelmaking allows you to bring maritime history to life.

This comprehensive masterclass aims to guide you through the essential steps, techniques, and tips to craft authentic, visually stunning ship models representing different historical eras. From choosing the right materials to finishing touches, this guide offers an illustrated, step-by-step approach to elevate your modeling skills.

Understanding the History and Significance of Period Ship Models

The Importance of Historical Accuracy

Creating a period ship model is not just about assembling parts; it requires a deep appreciation of the historical context. Accurate details reflect the ship's purpose, era, and design features, making your model a true miniature representation of maritime history.

Common Types of Period Ships

- Medieval Ships: Galleys, cog ships, and carracks.
- Age of Discovery Ships: Caravels, early galleons.
- Pirate and Privateer Vessels: Frigates, schooners.
- Naval Warships: Ships of the line, frigates from the 17th to 19th centuries.
- Steam and Ironclads: 19th-century technological advancements.

Understanding these ship types helps in selecting your project and gathering accurate reference materials.

Planning Your Ship Model Project

Before diving into construction, proper planning ensures precision and efficiency.

Research and Reference Gathering

- Historical Documents: Blueprints, ship plans, paintings, and photographs.
- Model Kits and Scale Plans: Use authentic plans or modify existing kits.
- Museum Collections: Visit maritime museums or browse online archives.
- Expert Consultations: Connect with historians or experienced modelers.

Choosing the Scale and Materials

- Scale Selection: Common scales include 1:48, 1:72, or 1:96.

- Materials:
- Wood (balsa, basswood, mahogany)
- Plastic (for detailed parts)
- Metal components (brass fittings)
- Cloth or paper (for sails and flags)

Tools and Supplies Needed

- Hobby knives and scalpels
- Fine files and rasps
- Pin vises and drills
- Clamps and tweezers
- Sandpaper (assorted grits)
- Glue (wood, plastic, or epoxy)
- Paints and brushes
- Rigging cords and thread
- Decals and photo-etched parts

Step-by-Step Guide to Period Ship Modelmaking

1. Creating the Ship's Framework

- Construct the Keel: The backbone of the ship, usually from a sturdy piece of wood.
- Add Bulkheads and Frames: These give the hull its shape; use scaled plans to ensure accuracy.
- Planking the Hull: Attach thin wooden strips along the frames, starting from the keel outward.

Use appropriate fasteners and gluing techniques.

2. Detailing the Hull

- Carving and Sanding: Smooth out the planking, remove excess material.
- Applying Fittings: Install gunports, stern galleries, and decorative elements based on period details.
- Painting and Antiquing: Use appropriate colors and weathering techniques to give an authentic aged look.

3. Constructing the Deck and Superstructure

- Deck Planking: Use fine wood strips, aligned and glued carefully.
- Adding Structures: Cabin, forecastle, and other superstructures should reflect period-specific designs.
- Installing Masts and Spars: Construct from dowels or rods, ensuring correct proportions.

4. Rigging and Sails

- Rigging: Use fine thread or specialized rigging cord to mimic ropes and lines.
- Sails: Fabric or paper sails should be cut to scale and attached with miniature blocks and pulleys.
- Detailing: Add flags, banners, and other period-specific accessories.

5. Final Touches

- Lighting and Weathering: For display models, optional lighting enhances realism.
- Display Base: Mount your model on a wooden or acrylic stand with a descriptive plaque.
- Documentation: Keep detailed notes and photographs throughout the process for future reference or sharing.

Techniques for Authentic Period Ship Models

Historical Accuracy Tips

- Color Matching: Use period-appropriate paint colors, often muted or earthy tones.
- Decorative Elements: Research and replicate period-specific carvings, figureheads, and fittings.
- Rigging Style: Understand the rigging systems used during the ship's era?square-rigged, lateen sails, etc.

Advanced Detailing Methods

- Photo-Etched Parts: Add fine details like railings, gun mounts, and fittings.
- Weathering Techniques: Use washes, dry brushing, and pigment powders to simulate age and wear.
- Decals and Flags: Apply period-appropriate flags and markings for added authenticity.

Common Challenges and How to Overcome Them

- Maintaining Scale Accuracy: Regularly compare your work to reference images.
- Handling Small Parts: Use precision tools and magnification.
- Achieving Smooth Surfaces: Sand carefully and use primer before painting.
- Rigging Complexity: Practice on scrap before rigging the main model; use diagrams and tutorials.

Resources for Period Ship Modelmakers

- Books and Magazines: "The Ship Modeler's Manual," "Maritime History" journals.
- Online Communities: Forums, YouTube tutorials, and social media groups.
- Model Kits and Supplies: Specialty stores and online retailers specializing in maritime modeling.

Conclusion: Crafting Your Masterpiece

Period ship modelmaking is a meticulous but immensely satisfying hobby. With patience, research, and attention to detail, you can produce models that serve as historical artifacts, educational tools, or artistic displays. Remember that each ship tells a story, and your craftsmanship preserves maritime history for generations to come. Whether you focus on a legendary galleon or a sleek frigate, this illustrated masterclass provides the foundation to elevate your modeling skills and achieve authentic, captivating results.

Start your journey today and bring history to life through the art of period ship modelmaking!

Period ship modelmaking an illustrated masterclass offers an in-depth journey into the meticulous art of recreating historical vessels through detailed model construction. Whether you are a seasoned modeller or a beginner eager to delve into maritime history, this comprehensive guide provides invaluable insights, step-by-step instructions, and illustrative visuals to elevate your craft. The masterclass aims to blend historical accuracy with technical skill, making it an essential resource for anyone passionate about ship modeling and maritime history.

Introduction to Period Ship Modelmaking

Ship modelmaking has long been a cherished hobby that combines artistry, engineering, and history. Creating models of period ships?naval vessels from the Age of Sail, cargo ships from the 19th century, or even ancient vessels?requires patience, precision, and a deep appreciation for maritime heritage. This masterclass not only teaches you how to build these models but also immerses you in the stories and contexts behind each vessel.

Key Features of the Masterclass:

- Focus on historical accuracy
- Step-by-step illustrated instructions
- Techniques for different materials (wood, plastic, metal)
- Tips for weathering and aging to enhance realism
- Resources for sourcing authentic parts and references

Understanding the Historical Context

Before beginning any model, understanding the ship's history, design, and purpose is crucial. The masterclass emphasizes research?learning about the vessel's construction, armament, rigging, and role within its historical period.

Research and Reference Gathering

- Consulting ship plans, blueprints, and historical documents
- Using museums, online archives, and maritime books
- Collecting photographs and paintings for visual reference

Benefits:

- Ensures accuracy in scale, details, and decorations
- Provides inspiration for unique features and finishes

Challenges:

- Limited availability of detailed plans for some vessels
- Variations in ship design over time and region

Choosing the Right Model Kit or Starting Point

A core decision in ship modelmaking is whether to purchase a pre-made kit or start from scratch. The masterclass covers:

Kit-Based Modeling

- Advantages:
- Ready-to-assemble components

- Suitable for beginners and those short on time
- Often includes detailed instructions
- Disadvantages:
- May lack customization options
- Can be less accurate if not carefully chosen

Scratch Building

- Advantages:
- Complete control over design and details
- Excellent for custom or rare vessels
- Disadvantages:
- Time-consuming and technically demanding
- Requires advanced skills and tools

The masterclass guides you through evaluating kits and planning a scratch build, emphasizing that beginners might start with a kit before progressing to more complex projects.

Materials and Tools

A comprehensive understanding of materials and tools is fundamental. The course details:

Common Materials:

- Wood (balsa, basswood, mahogany)
- Plastic or styrene sheets
- Metal fittings
- Fabric for sails
- Thread or cord for rigging

Tools Required:

- Cutting tools (hobby knives, saws)
- Files and rasps
- Sandpaper and polishing equipment
- Clamps and gluing implements
- Rulers, calipers, and templates

Features & Tips:

- Using fine-quality tools for precision
- Selecting appropriate adhesives for different materials
- Maintaining a clean workspace to prevent damage

Construction Techniques

The masterclass provides detailed tutorials on constructing various parts of the ship:

Hull Construction

- Framing and planking methods
- Carving and shaping techniques
- Waterproofing and finishing the hull

Deck and Superstructure

- Assembling decks with accurate detailing
- Creating decks with planking or sheet materials
- Building superstructures, cabins, and forecastles

Rigging and Sails

- Understanding ship rigging terminology
- Step-by-step rigging sequences
- Making and aging sails for authenticity

Pro Tips:

- Use magnification for fine rigging
- Employ jigs and templates for consistent assembly
- Practice knot and rigging techniques beforehand

Finishing and Detailing

A model's realism hinges on finely detailed finishing touches. The masterclass emphasizes:

- Painting and staining wood parts for aged or weathered effects
- Applying decals and insignia accurately
- Adding rigging lines, chains, and other fittings
- Weathering techniques to simulate salt, wear, and aging

Features:

- Use of washes and dry brushing for depth
- Techniques for creating realistic water effects and bases
- Incorporating authentic flags and figureheads

Photographing and Displaying Your Model

Once completed, presentation enhances the appreciation of your work. Tips include:

- Proper lighting to highlight details
- Using stands or display cases
- Creating dioramas or maritime scenes

The masterclass suggests ways to document your work for portfolios, competitions, or sharing online.

Pros and Cons of the Masterclass

Pros:

- Comprehensive Coverage: The course covers every aspect from research to finishing.
- Illustrated Instructions: Clear visuals aid understanding.
- Historical Accuracy Focus: Ensures models are authentic and educational.
- Suitable for Various Skill Levels: From beginner to advanced techniques.
- Resource Recommendations: Guides for sourcing authentic materials and references.

Cons:

- Length and Depth May Overwhelm Beginners: The detailed approach requires patience.
- Cost of Materials and Kits: Quality supplies and references can be expensive.
- Time-Intensive Process: Completing a detailed historic ship model can take weeks or months.
- Limited Focus on Modern or Fantasy Ships: Primarily centers on traditional period vessels.

Conclusion: Is This Masterclass Right for You?

If you are passionate about maritime history and dedicated to creating highly detailed, accurate ship models, period ship modelmaking an illustrated masterclass is an invaluable resource. It combines technical skills with historical storytelling, enabling hobbyists to produce works that are both aesthetically impressive and historically meaningful. While it demands time, patience, and investment, the rewards are profound, culminating in a stunning display of craftsmanship that pays homage to our seafaring heritage.

For those new to ship modeling, starting with simpler kits and gradually progressing through the techniques outlined in this masterclass can build confidence and skill. Experienced modellers will appreciate the depth of research and authenticity guidance, elevating their projects to new levels of realism and historical fidelity.

In essence, this masterclass is more than a tutorial; it is a voyage into the art and history of shipbuilding, inviting enthusiasts to explore the majestic vessels that once sailed the oceans. Whether displayed in a home, museum, or competition, your completed model will stand as a testament to your craftsmanship and passion for maritime history.

Question What are the essential tools required for creating a period ship model in the illustrated masterclass? The masterclass recommends tools such as precision knives, files, tweezers, clamps, brushes, and specialized modeling materials like wood and resin to accurately craft period ship models. How does the masterclass guide beginners in understanding historical ship designs? It provides detailed illustrations, historical context, and step-by-step instructions to help beginners grasp the architectural features and design elements of period ships. What materials are best suited for making authentic period ship models as per the masterclass? The class suggests using high-quality wood, metal fittings, rigging materials, and historically accurate paints to ensure authenticity in the model-making process. Are there specific techniques taught in the masterclass for detailing and finishing the ship models? Yes, the masterclass covers techniques such as precise carving, painting weathering effects, rigging, and applying decals to achieve realistic and detailed finishes. How long does it typically take to complete a period ship model following this masterclass? The duration varies depending on the complexity of the model and the skill level, but most projects take between several days to a few weeks to complete thoroughly. Does the masterclass include tips on sourcing authentic materials and references for period ship models? Yes, it provides guidance on where to find authentic materials, historical references, and scale diagrams to enhance the accuracy of your model. Can this masterclass help advanced modelers improve their skills or

focus mainly on beginners? While it is designed to be accessible for beginners, advanced modelers can also benefit from the detailed techniques and historical insights to refine their craftsmanship.

Related keywords: period ship, model making, illustrated masterclass, ship models, maritime modeling, shipbuilding techniques, model ship kits, naval modeling, ship replica crafting, boat model tutorials

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