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VEVOR 14' Outboard Steering Kit

VEVOR 14-Foot Boat Steering Control Cable System

Model: 14' Outboard Steering Kit

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your VEVOR 14-Foot Boat Steering Control Cable System. Please read this manual thoroughly before installation and use to ensure proper function and safety. This system is designed for mechanical/manual steering in various waterborne vehicles such as yachts and fishing boats.

2. Product Overview & Components

The VEVOR boat steering system kit is designed for marine applications, providing accurate steering control. It includes a 14-foot steering cable, a standard 3/4-inch tapered shaft, a swivel helm, a 90-degree bezel kit, and necessary hardware.

Included Components:

- 1 x Rotary Helm
- 1 x 14' Steering Cable
- 1 x 3/4" Tapered Shaft
- 1 x Bezel Kit
- 1 x Fixing Bolts And Screws Kit

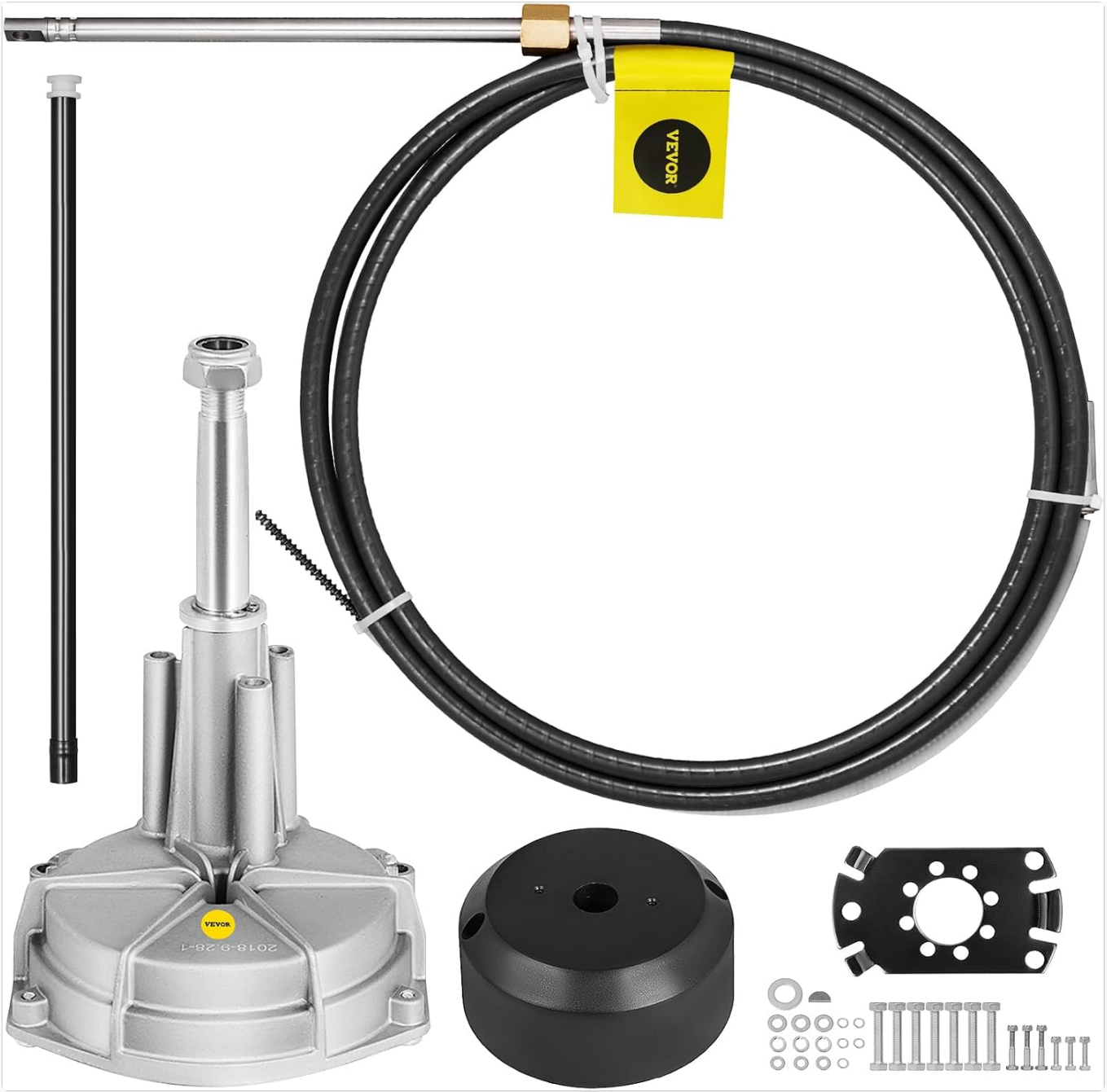


Figure 2.1: All components of the VEVOR 14-Foot Boat Steering Control Cable System.

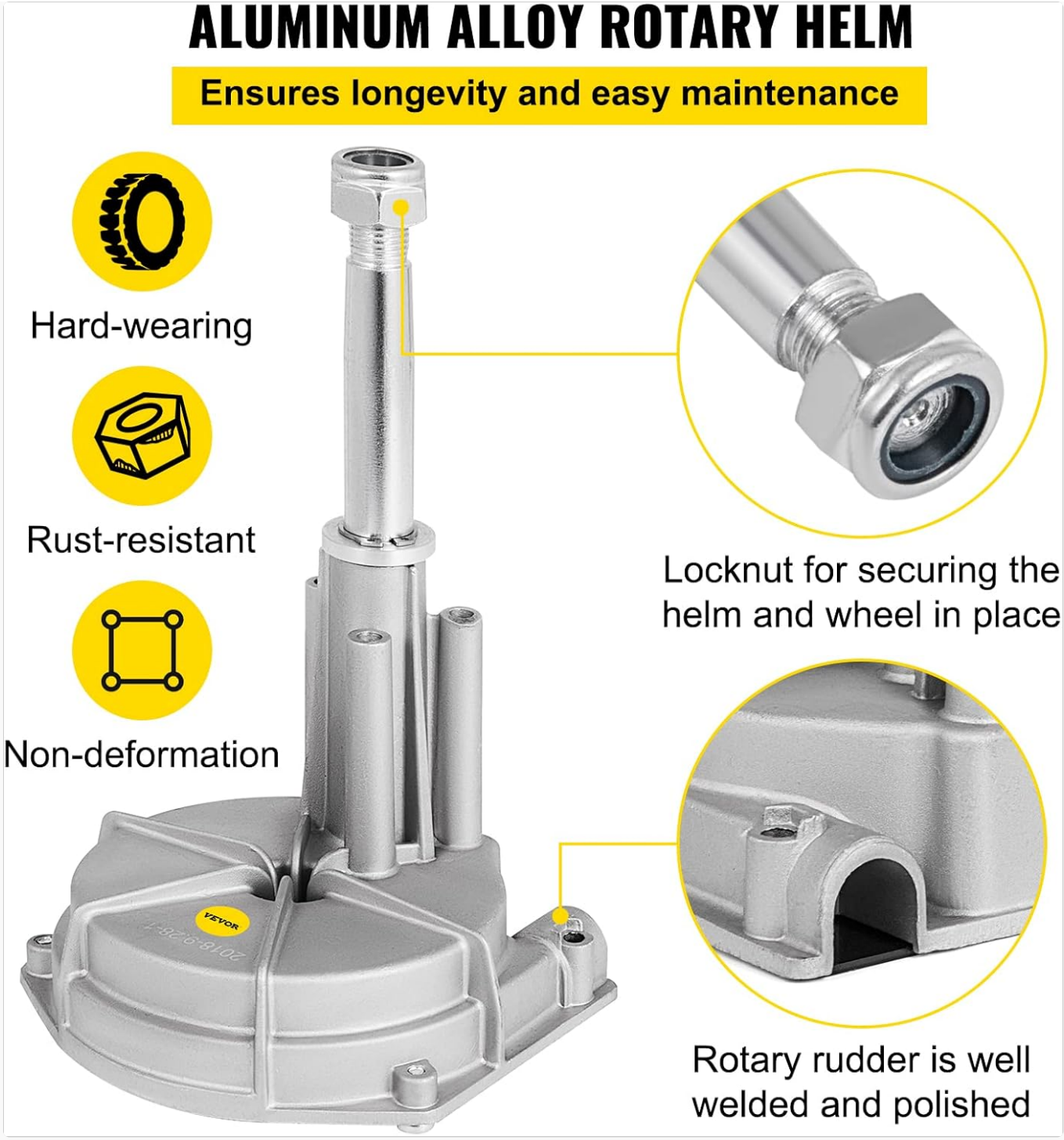


Figure 2.2: Detailed view of the aluminum alloy rotary helm, highlighting its robust construction and securing locknut.



Figure 2.3: Close-up of the high-quality rubber cable, showing its water resistance, weatherproof, and corrosion resistance features, along with the flat interface design.

3. Specifications

Feature	Specification
Brand	VEVOR
Model Number	14' Outboard Steering Kit
Steering Cable Length	14 feet
Shaft Type	3/4" Standard Tapered Shaft
Material (Helm)	Cast Steel, Stainless Steel (Alloy Marine-Grade)
Material (Cable Coating)	Flexible and waterproof polyethylene

Feature	Specification
Color	Black+Silver
Item Weight	15 Pounds (approx. 6.8 kg)
Helm Dimensions (approx.)	6 x 4 x 9 inches (15.2 x 10.2 x 22.9 cm)
Compatible Vehicle Type	Boat (Yachts, Fishing Boats, Waterborne Vehicles)



Figure 3.1: Product dimensions for the rotary helm and steering cable.

4. Safety Information

- Always wear appropriate personal protective equipment during installation.
- Ensure the boat is securely docked or trailered before beginning any work.
- Verify all connections are tight and secure before operating the vessel.
- Consult a qualified marine technician if you are unsure about any installation steps.

- Do not operate the vessel if the steering system feels loose, stiff, or unresponsive.

5. Installation Guide

Proper installation is crucial for the safe and effective operation of your steering system. Follow these steps carefully.

5.1. Determine Cable Length

Measure the required cable length using the following formula: A + B + C. Round up to the next whole foot for optimal fit.

- **A**: Distance from the steering wheel to the transom.
- **B**: Distance across the transom to the center of the engine.
- **C**: Distance from the center of the engine to the cable connection point.

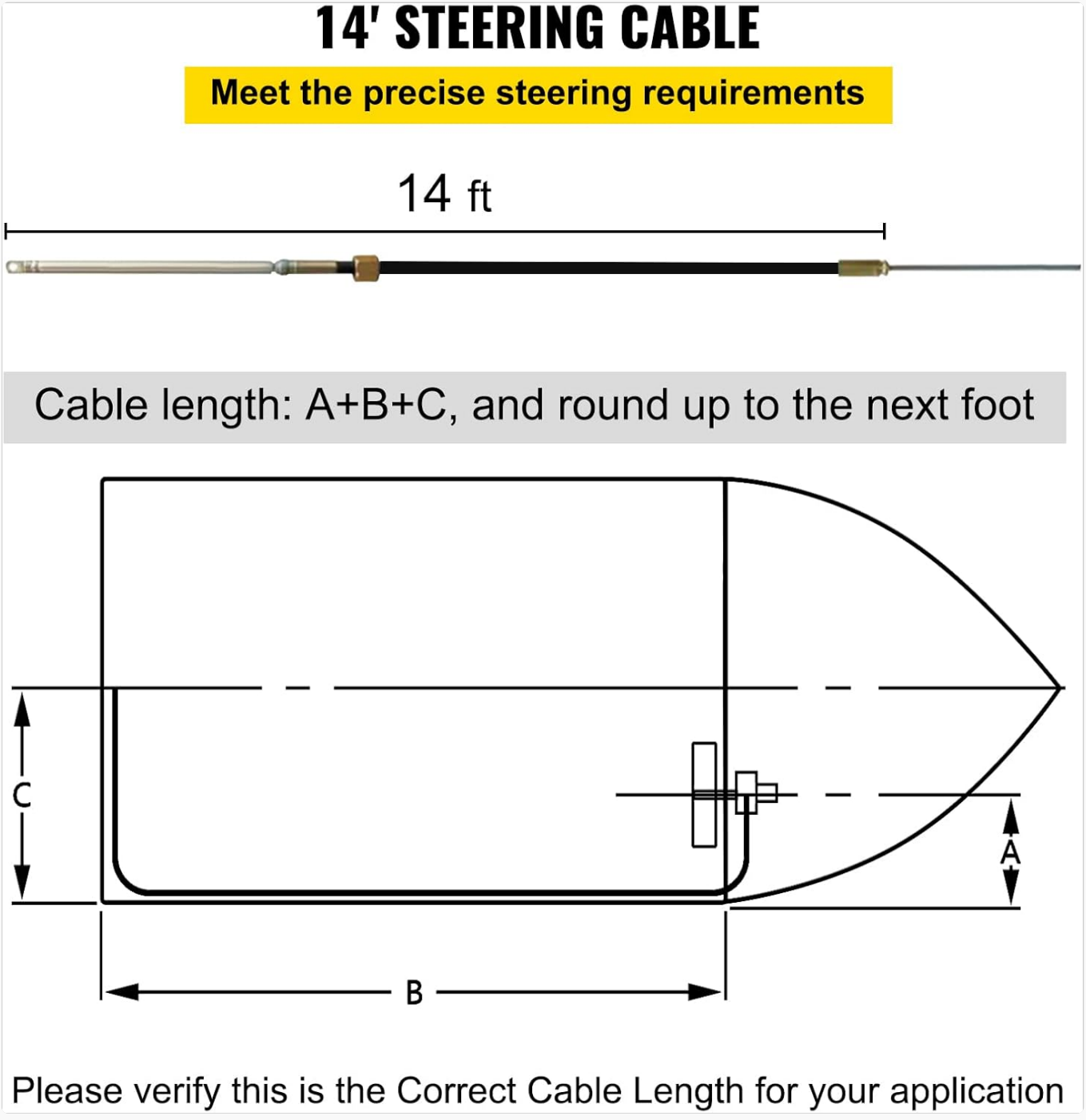


Figure 5.1: Diagram illustrating how to measure the correct steering cable length (A+B+C).

5.2. Mount the Rotary Helm

1. Select a suitable location for the helm, typically on the dashboard or console, ensuring clear access and operation of the steering wheel.
2. Use the bezel kit as a template to mark drilling points for mounting the helm.
3. Drill the necessary holes and secure the rotary helm using the provided fixing bolts and screws.

5.3. Connect the Steering Cable

1. Route the steering cable from the helm to the engine/rudder, avoiding sharp bends or obstructions.
2. Connect the helm end of the cable to the rotary helm using the snap-in cable connection.
3. Connect the engine end of the cable to the steering arm of your outboard or inboard engine. Ensure the connection is secure and allows for full range of motion.

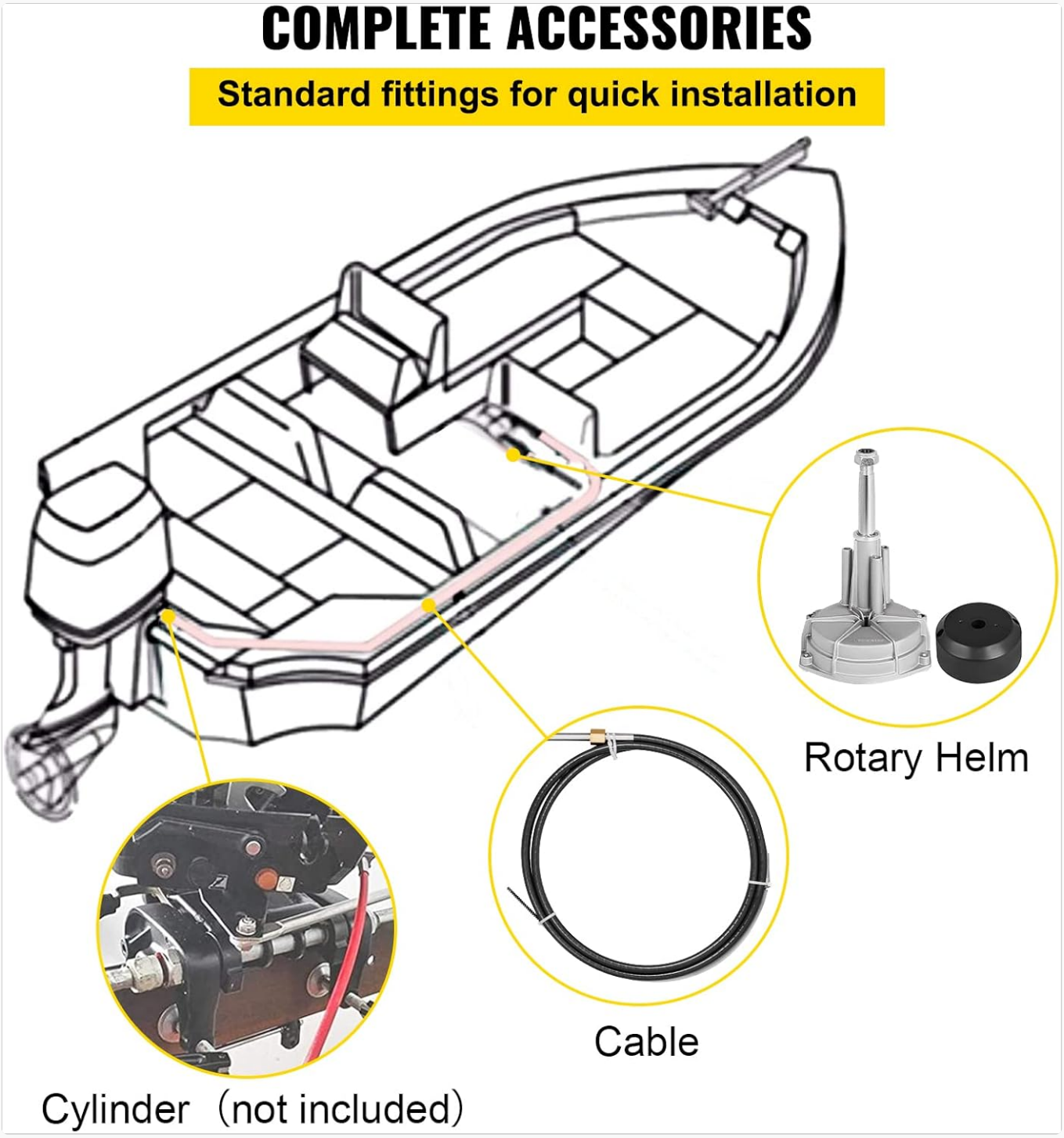


Figure 5.2: Illustration of the steering cable and rotary helm placement within a boat, connecting to the engine (cylinder not included).

5.4. Install Bezel Kit

Install the bezel kit around the helm to provide a finished appearance and protect the helm mechanism.

5.5. Final Checks

- Turn the steering wheel from lock to lock to ensure smooth operation without any binding or excessive friction.
- Verify that the engine/rudder responds correctly to steering wheel input.
- Double-check all fasteners for tightness.

6. Operation

Once installed, the steering system provides direct control over your vessel's direction. Turn the steering wheel clockwise to turn right and counter-clockwise to turn left. Ensure the steering operates smoothly and without excessive play. Avoid sudden, sharp turns at high speeds, as this can put undue stress on the steering components and the vessel.

7. Maintenance

Regular maintenance will extend the life of your steering system and ensure reliable performance.

- **Inspection**: Periodically inspect the steering cable for any signs of wear, fraying, or damage. Check the helm for corrosion or loose components.
- **Lubrication**: Lubricate moving parts of the helm and cable ends as recommended for marine equipment to prevent corrosion and ensure smooth operation.
- **Cleaning**: Clean the exterior components with fresh water after use in saltwater environments to prevent salt buildup and corrosion.

8. Troubleshooting

If you encounter issues with your steering system, refer to the following common problems and solutions:

- **Stiff Steering**:
  - Check for kinks or sharp bends in the steering cable.
  - Inspect the helm for internal binding or corrosion.
  - Ensure all connections are properly lubricated.
- **Excessive Play in Steering**:
  - Verify all fastening nuts and bolts are tight on the helm and cable connections.
  - Inspect the cable for stretching or damage.
- **No Steering Response**:
  - Check for a disconnected or broken steering cable.
  - Inspect the helm for internal failure.

Always address steering issues immediately and do not operate the vessel until repairs are complete.

9. Warranty and Support

For warranty information or technical support, please contact VEVOR customer service. Keep your purchase receipt and product model number handy for assistance. You can find contact information on the official VEVOR website or through your retailer.

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