



881170A15

Outboard Engine Remote Control Box User Manual

Model: 881170A15 | Brand: Generic

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of the Outboard Engine Remote Control Box, designed for Mercury/Mariner outboards and 1993 and newer Force outboards 40 hp and higher. Please read this manual thoroughly before installation and operation to ensure safe and efficient use of the product.



Figure 1.1: Outboard Engine Remote Control Box and its components.

2. SAFETY INFORMATION

Always prioritize safety when installing and operating marine equipment. Adhere to the following guidelines:

- **Emergency Stop Lanyard:** Always attach the kill cord safety lanyard to the operator's clothing, arm, or leg. In the event the operator falls or leaves the helm, the lanyard will pull out the clip, stopping the engine ignition and preventing runaway boat situations.
- **Professional Installation:** If you are unsure about any installation steps, consult a qualified marine technician.
- **Cable Routing:** Ensure all cables are routed correctly and securely to prevent pinching, chafing, or interference with moving parts.
- **Electrical Connections:** Verify all electrical connections are secure and properly insulated to prevent short circuits and corrosion.



Figure 2.1: Emergency Stop Cord and Clip for enhanced safety.

3. PACKAGE CONTENTS

Upon opening the package, verify that all the following items are included:

- 1 x Remote Control Box
- 1 x Kill Cord Safety Lanyard
- 1 x 15 FT (4.58 m) 8-Pin Harness
- 2 x Keys
- 1 x Instructions (this manual)
- Mounting Fittings (all included)

4. SETUP AND INSTALLATION

This remote control box is designed for side-mount installation. Follow these steps for proper setup:

1. **Mounting Location:** Select a suitable side-mount location on your boat that allows for comfortable operation and clear access to the control lever.
2. **Secure Mounting:** Use the provided mounting fittings to securely attach the control box to the chosen location. Ensure all bolts are tightened appropriately. Consider applying thread locker to bolts to prevent loosening from vibration.
3. **Harness Connection:** Connect the 15 FT (4.58 m) 8-pin harness to the control box. This harness is designed for power trim models and includes a built-in warning horn. The harness features obvious color coding, high temperature resistance, thermoplasticity, and insulation.
4. **Engine Compatibility:** This control box is compatible with all current Mercury/Mariner outboards (with integral power trim) and 1993 and newer Force outboards 40 hp and higher utilizing Mercury style cables (with power trim).
5. **Cable Connection:** Remote control cables require Gen I style to connect to this control box. For MY2005 and newer 8/9.9 Four Stroke outboards, SAE T/S cables must be used. For MY2005 and newer 8/9.9/15/20 FourStroke outboards, an adapter harness 84-892473A01 is required.
6. **Trim Leads:** The new design includes soft grip and power trim leads for a front mount switch.



Figure 4.1: Detail of the 8-pin harness connection.

5. OPERATING INSTRUCTIONS

The remote control box provides intuitive control over your outboard engine's throttle and gear shifting.

- **Simple Operation:** The control lever allows for exceptionally smooth operation. Gear shifting and accelerator control are initiated by operating this single lever.
- **Forward/Reverse:** To shift into forward or reverse, rotate the control lever downward from the neutral position. Further rotation downward will open the throttle, increasing engine speed.
- **Throttle Control:** The degree to which the lever is rotated downward determines the throttle opening and thus the engine's RPM.
- **Thumb-Operated Trim/Tilt Switch:** The power trim and tilt switch is conveniently located on the control lever grip. Pushing the switch **UP** trims up and tilts up the engine. Pushing it **DOWN** trims down and tilts down the engine.





Figure 5.1: Control lever positions for gear and throttle, and the integrated trim/tilt switch.

6. MAINTENANCE

Regular maintenance ensures the longevity and reliable performance of your remote control box.

- **Periodic Inspection:** Regularly inspect all cables, connections, and mounting hardware for signs of wear, corrosion, or looseness.
- **Cleaning:** Keep the control box clean from salt, dirt, and debris. Use a damp cloth and mild detergent if necessary, avoiding harsh chemicals.
- **Lubrication:** Periodically check and lubricate moving parts of the control lever mechanism as recommended by your outboard engine's manual.
- **Cable Condition:** Ensure throttle/shift cables are free from kinks or damage that could impede smooth operation.

7. TROUBLESHOOTING

If you encounter issues with your remote control box, consider the following common problems and solutions:

- **Loose Mounting Bolts:** If the control box feels loose or wobbly, check all mounting bolts. Tighten them

securely. It is recommended to use lock nuts or apply a thread-locking compound (e.g., Loctite) to prevent bolts from loosening due to engine vibration.

- **Trim/Tilt Switch Malfunction:** If the trim/tilt switch does not respond or only works in one direction, inspect the wiring connections to the switch and the engine's trim/tilt system. Ensure no wires are frayed or corroded. If the issue persists, the switch itself may need replacement, or professional electrical diagnosis may be required.
- **Difficulty Shifting/Throttle Response:** If shifting is stiff or the throttle response is inconsistent, check the condition and routing of the throttle/shift cables. Ensure they are not kinked, pinched, or corroded. Lubrication of the cable ends and control box mechanism may be necessary.
- **Engine Not Starting (with lanyard inserted):** Verify the emergency stop lanyard is fully inserted and making proper contact. Check the engine's ignition system independently if the issue persists.

For complex issues or problems not resolved by these steps, it is advisable to consult a qualified marine technician.

8. SPECIFICATIONS

Feature	Specification
Model Number	881170A15
Type	Boat Throttle Control
Connector	8-Pin
Action	Right Hand
Cable Length	15 FT (4.58 m)
Weight	10.3 lb (4.7 kg)
Dimensions (L x W x H)	16.9 x 11.5 x 5.5 inches (43 x 28 x 14 cm)
Material	Nylon or Rubber
Color	Black
Engine Type Compatibility	4 Stroke (specific models)
Operation Mode	Manual
Voltage	12 Volts (DC)
Mounting Type	Side Mount



Figure 8.1: Approximate dimensions of the control box.

9. WARRANTY AND SUPPORT

This product comes with a **1-Year Warranty** from the date of purchase, covering manufacturing defects.

We are committed to providing 100% perfect customer service. If you have any questions, concerns, or require assistance with your Outboard Engine Remote Control Box, please do not hesitate to contact us. Our support team is ready to assist you.