

# Lewmar 3 & 5 Button Wireless Remote Control

66300103 Issue 1

## Owner's Installation

**⚠ WARNING!** This manual forms part of the product and **MUST BE kept with boat documents.**

To the best of our knowledge, the information in this manual was correct when it went to press. However, Lewmar cannot accept liability for any inaccuracies or omissions it may contain. In addition, our policy of continuous product improvement may change specifications without notice. As a result, Lewmar cannot accept liability for any differences between the product and the manual.



## 1. Introduction

Thank you for purchasing a Lewmar Wireless remote control kit.

- Simple to install in new installations and retro-fit.
- Compatible with all Windlasses operated by a contactor.
- Compatible with TT Thruster installations.
- Watertight key-fob Transmitter unit
- Control from multiple transmitter units.

### 1.1 Product support

Lewmar products are supported by a worldwide network of distributors and Authorised Service Representatives. If you encounter any difficulties with this product, please contact your national distributor, or your local Lewmar dealer.

### 1.2 CE & FCC Approvals

For CE approval certificates contact Lewmar.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

### 1.3 Important information about this manual

Throughout this manual, you will see safety and product damage warnings. You must follow these warnings carefully to avoid possible injury or damage.

The type of warnings, what they look like, and how they are used in this manual are explained as follows:

**⚠ WARNING!** This is a warning against anything which may cause injury to people if the warning is ignored. You are informed about what you must or must not do in order to reduce the risk of injury to yourself and others.

**⊘ SAFETY SYMBOL.** When you see the safety symbol it means: "Do not..."; "Do not do this"; or "Do not let this happen".

## 2. Safety Notices

**⚠ WARNING!**

**IMPORTANT:** Read these notes before continuing.

### 2.1 Wireless remote general

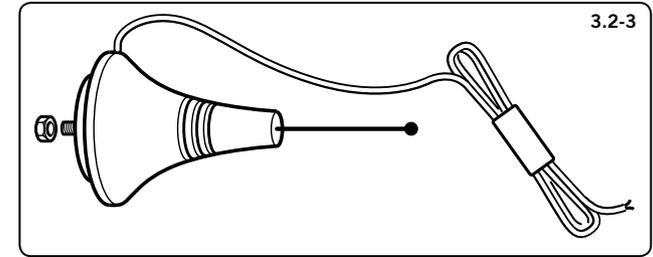
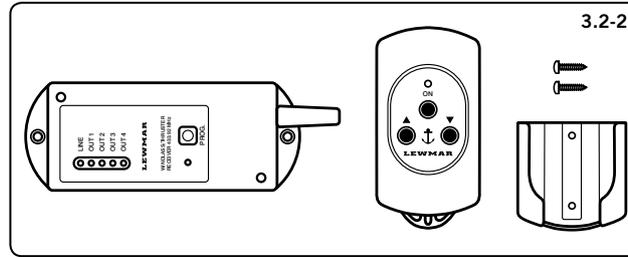
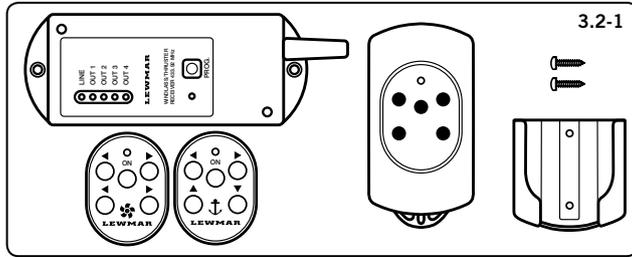
Please ensure that you thoroughly understand the operation and safety requirements of the wireless remote control system and the units operated before commencing the installation. Windlasses and Thrusters are powerful devices. Accidental or improper operation can cause personal injury or damage to boat and property. Please read the following precautions to limit the risk of accidental operation.

- The operator should always have a clear view of the windlass when operating.
- Insure all people on board are a safe distance from the Windlass, rode and anchor before operating.
- The wireless transmitter should be kept in its cradle or other protected place when not in use. The transmitter should never be placed in a pocket or other location where accidental unintended operation is possible.
- Windlass and Thruster system should always be switched off at the breaker panel or isolator when not in use to prevent unintended operation.
- Do not operate if under the influence of drugs or alcohol.
- Consult your Windlass and Thruster manual for other operational precautions.

**⊘ DO NOT use the wireless remote control system for any other purpose than those described in this manual.**

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### 3. Installation



#### 3.1 Basic requirements

Each installation requires:

##### TRANSMITTER AND RECEIVER

The following tools:

- Power drill with 2mm (5/64") drill
- Pozidriv screwdriver

##### WIRING

- Crimping Pliers/Wire Stripper
- Suitable electrical cable and crimp terminals

#### 3.2 Components

- **NOTE:** Wireless remote will only work with Lewmar products fitted with a contactor.

##### 1. 68000968 - 5 button wireless remote kit

- 4 channel radio control unit supplied pre-programmed to the receiver unit.
- Transmitter supplied with 2 x 1.5V AAA alkaline batteries.
- Adhesive labels for thruster or windlass function.
- Support kit for transmitter.
- 2 x 3.5 x 13mm screws.
- Instruction manual.

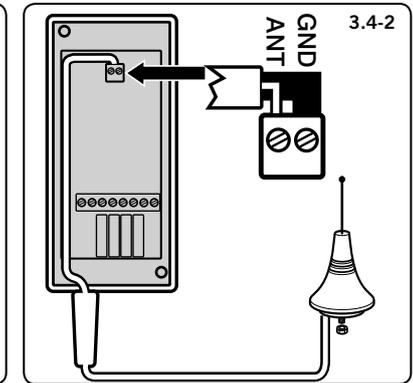
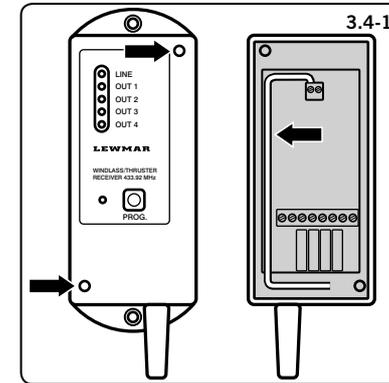
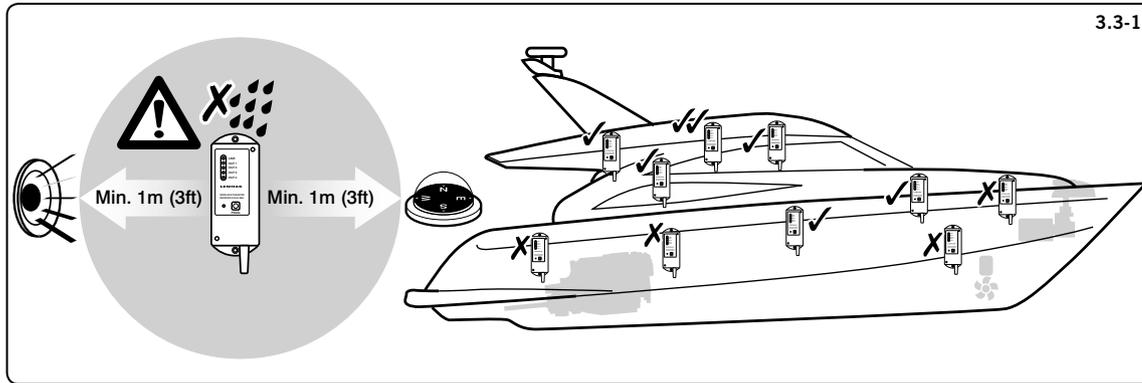
##### 2. 68000967 - 3 button wireless remote kit

- 2 channel radio control unit supplied pre-programmed to the receiver unit.
- Transmitter supplied with 2 x 1.5V AAA alkaline batteries.
- Support kit for transmitter.
- 2 x 3.5 x 13mm screws.
- Instruction manual.

##### 3. Remote antenna kit

- 68000969 - Antenna with 10m cable.
- **Spare Transmitters**
- 3 buttons - 68001005
- 5 buttons - 68001006

### 3. Installation



#### 3.3 Locating receiver

**⚠ WARNING!** Disconnect or isolate the battery before installation.

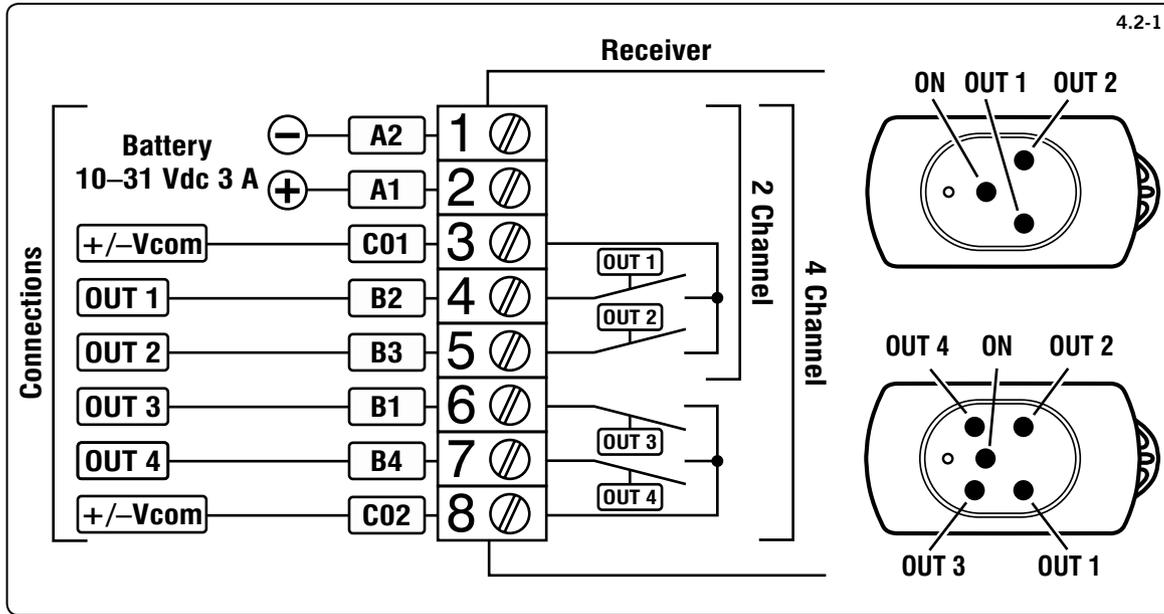
In both windlass and thruster installations, it is recommended that the wireless control system is not the sole control medium for each product. The windlass should also have deck/rocker switches installed as per windlass installation manual. The thruster should also have at least one TT control panel installed as per Thruster installation manual.

1. Position the receiver with the following precautions:
  - In a dry, accessible location.
  - As high up in the vessel as possible.
  - As far as possible from large metal masses, electrical motors or windlass.
  - At least 1m (3ft) away from electrical wiring, navigational and radio equipment.

#### 3.4 Connecting the optional external antenna

- Position the antenna in a suitable location on the vessel with the same precautions as the receiver.
1. Open the receiver and remove the internal antenna from the terminal board.
  2. Run the cable in the same space as the internal antenna and connect to terminal box:
    - Cable radio signal wire to ANT.
    - Cable shield to GND.

## 4. Electrical Wiring



### 4.1 Electric cable selection

Lewmar recommends the installer source and install cable that meets the requirements of the standards and regulations relevant to the installation and codes of practice.

### 4.2 Receiver wiring diagram

**⚠ WARNING!** Connect only to a DC power supply

- Figure 4.2-1 shows a typical installation wiring diagram.
- Receiver is supplied with 2 or 4 relay outputs with one or two common contacts. Common contact must be connected to positive or negative pole, according to the polarity of the load connected.
  - To avoid an overload due to short circuit a 3A fuse must be fitted.

Receiver / Transmitter	Supply	Frequency	Protection Rating	Operating Temperature	Maximum Load 10 - 30 V DC
2 & 4 Channel	10 to 30 Vdc	433.92 MHz	IP65	0 to +70 °C 32 to 158 °F	3 A
68001005 68001006	2 x 1.5 V AAA Alkaline	433.92 MHz	IP66		-

## 5. Operation

**⚠ WARNING!** Operate equipment only when in direct sight.

**⚠ WARNING!** Trapping, crushing or entanglement danger whilst operating windlass manually or under power.

### 5.1 Transmitter function

- **NOTE:** Transmitters supplied in the kit are already pre-programmed to the receivers.
- Press the ON button for 2 seconds, the LED will light. Release the button and the LED will blink slowly indicating the transmitter is operational but not transmitting a signal.
- When an operation button is pressed the LED will blink quickly indicating it is sending a signal. When released the LED will blink slowly.
- Transferring from one operating button to the opposite (UP to DOWN or LEFT to RIGHT) has a standard 1.5 second delay. Simultaneous use of NON opposite buttons is allowed (4 channel unit only).
- The transmitter will switch off automatically after 2 minutes if not used.

### 5.2 Receiver function

- When power is applied, the green LINE LED lights up. After 1 second the red PROG LED lights up as well.
- The red PROG LED keeps lit for 15 seconds. This is the time the receiver is ready to accept a new transmitter code and memorize it.
- When an operation button on the transmitter is pressed a yellow OUT LED on the receiver will light up corresponding to action requested.

### 5.3 Programming additional transmitters to the receiver

- To add a new transmitter to a device you already use follow these steps:
  1. Apply power to receiver, press the PROG button until the red LED lights and release, you will have 15 seconds to programme to receiver
  2. Press the new transmitter ON button for 2 seconds until the LED blinks.
  3. Press the bottom left (OUT 1) button and hold.
  4. Press the receiver PROG button.
  5. Release the button on the transmitter.
  6. If the code has been accepted the receiver's red PROG LED will blink 4 times and then turns off to confirm programming.
  7. Check the new transmitter functions correctly.

- It is possible to store up to 5 transmitters at the same time, when the memory is full any additional transmitters will overwrite the first code the receiver had programmed in its memory.

### 5.4 Battery replacement

**⚠ WARNING!** Isolate the windlass/thruster using circuit breaker/isolator.

- Unscrew the 6 screws on the transmitters rear cover and carefully remove.
- Replace batteries with 2 x 1.5V AAA Alkaline batteries taking care not to drop the circuit board and batteries. Check the batteries polarity match the + and – markings on the board.
- Reposition the rear cover and screw tight taking care not to over tighten the screws.

### 5.5 Troubleshooting

Windlass/thruster not working.

- Is the transmitter switched?
- Does the transmitter blink when operation button pressed. If not change the batteries.
- Move the transmitter closer to the receiver.
- Check installation.
- Follow troubleshooting instructions in windlass/thruster manual.