



Monoprice™
**Radio Frequency Remote Kit for
Stealth Motorized Recessed Projector Lift (15495)**

Model **GF123-5 (Remote Control) & 1GD-868MnIII (Receiver)**
User Manual

SAFETY WARNINGS AND GUIDELINES

Please read this manual carefully before use to prevent potential damage to the product caused by improper operation. Please keep this manual in a safe place for future reference.

Receiver

- This device is intended for indoor use only.
- Do not expose this device to water or moisture of any kind. If water does get in or on the device, unplug it from its power source and allow it to fully dry before reapplying power.
- Use only in a well-ventilated area. Do not use in close, confined spaces.
- Do not expose this device to excessively high temperatures. Do not place it in, on, or near heat sources, such as a fireplace, stove, radiator, etc. Do not leave it in direct sunlight.
- Do not place or install this device in an area where it can be exposed to excessive amounts of dust, humidity, oil, smoke, or combustible vapors.
- This device requires a grounded/earthed power connection for safe operation.
- Take care to prevent damage to the power cord. Do not allow it to become crimped, pinched, walked on, or become tangled with other cords. Ensure that the power cord does not present a tripping hazard.
- Never unplug the unit by pulling on the power cord. Always grasp the connector head or adapter body.
- Use only accessories provided by the supplier.
- Unplug this device from the power source when not in use.
- This device has no user-serviceable parts. Do not attempt to repair or disassemble this device.
- Do not touch the device, the power cord, or any other connected cables with wet hands.
- Ensure that power is turned off and disconnected before making any electrical connections.

Remote Control



WARNING

- **INGESTION HAZARD:** This product contains a button cell or coin battery
- **DEATH** or serious injury can occur if ingested.
- A swallowed button cell or coin battery can cause **Internal Chemical Burns** in as little as **2 hours**.
- **KEEP** new and used batteries **OUT OF REACH of CHILDREN**
- **Seek immediate medical attention** if a battery is suspected to be swallowed or inserted inside any part of the body.
- Identity of battery type: CR2032
- Nominal voltage: 3V



- Remove and immediately recycle or dispose of used batteries according to local regulations and keep away from children. DO NOT dispose of batteries in household trash or incinerate.
- Even used batteries may cause severe injury or death. Call a local poison control center for treatment information.
- Identification of compatible battery type: CR2032
- Nominal battery voltage: 3V
- Non-rechargeable batteries are not to be recharged.
- Do not force discharge, recharge, disassemble, heat above manufacturer's specified temperature rating, or incinerate. Doing so may result in injury due to venting, leakage, or explosion resulting in chemical burns.
- Ensure the batteries are installed correctly according to polarity (+ and -).
- Do not mix old and new batteries, different brands or types of batteries, such as alkaline, carbon-zinc, or rechargeable batteries.
- Remove and immediately recycle or dispose of batteries from equipment not used for an extended period of time according to local regulations.
- Always completely secure the battery compartment. If the battery compartment does not close securely, stop using the product, remove the batteries, and keep them away from children.

Table of Contents

SAFETY WARNINGS AND GUIDELINES	2
Receiver	2
Remote Control	3
RECEIVER (1GD-868MnIII)	4
Technical Features	5
Specifications	5
Installation	5
Wiring Instructions	6
REMOTE CONTROL (GF123-5)	8
Functions	8
Specifications	8
Programming Code Setup (Step-by-Step)	8
Programming Code Clearing (Step-by-Step)	8
Manual Switch Instructions for Receiver	9
Manual Control for Motor Direction Adjustment (SW1)	9
Battery Replacement Instructions	9
TROUBLESHOOTING	9
REGULATORY COMPLIANCE	10
Notice for FCC	10
Radio Notice for FCC	11
Notice for ISED Canada	11

RECEIVER (1GD-868MnIII)

The receiver functions as the control interface between the power source and the motorized projector lift, enabling control over the lift's movement (up, down, or stop). It provides three methods for controlling the lift:

1. **RF Remote Control:** Use the RF remote to control the lift. This remote is designed to work exclusively with the receiver, offering an effective operating range of up to 50 meters.
2. **On-Box Control Button:** Press the button located on the receiver box to move the lift up, down, or to stop its motion.
3. **External Switch Control:** Connect the receiver to an external dry-contact switch for an alternative control option, allowing the lift to be raised, lowered, or stopped.

Technical Features

- Equipped with STM microcontroller with damp-proof processing for enhanced durability
- Automatically powers down if inactive for one minute to conserve energy
- Includes certified connectors to ensure user safety and compliance
- Each receiver can store and recognize up to 20 unique codes, allowing control by up to 20 separate RF emitters
- Each receiver is designed to connect to and control only one motorized projector lift



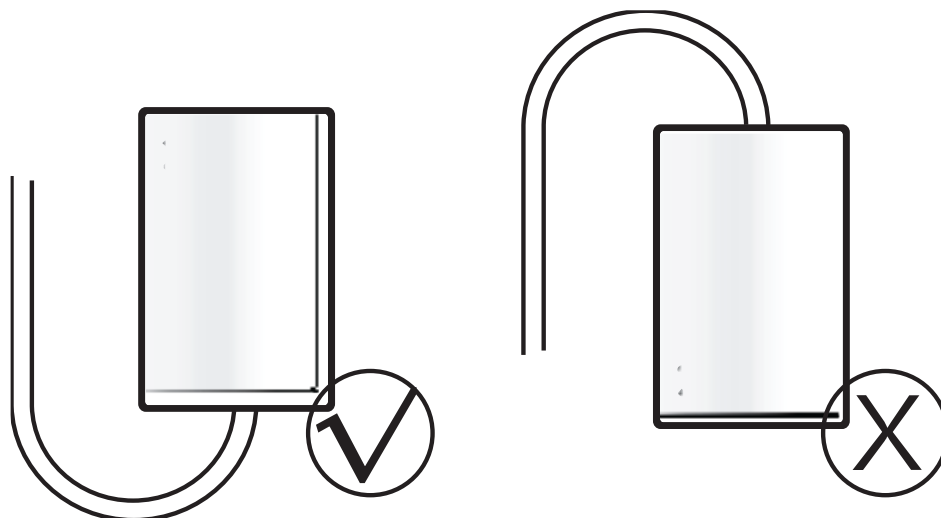
Specifications

- **Power Source:** AC 230V / 50Hz or 120V / 60Hz
(refer to the parameter sticker on the receiver box for the exact model specification)
- **Operating Temperature:** -20°C to +80°C
- **Maximum Load Capacity:** 600W
- **Operating Frequency:** 868 MHz

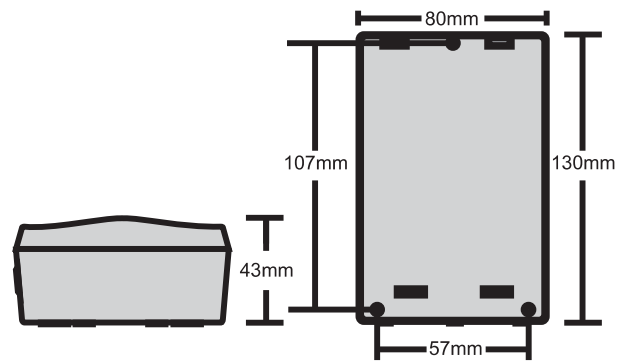
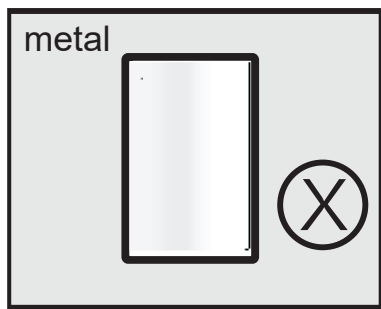
Installation

Please read the following instructions carefully before installing the receiver:

- Ensure that the cable exit faces downward to prevent potential water infiltration.



- Keep the receiver away from large metal objects to avoid frequency interference.



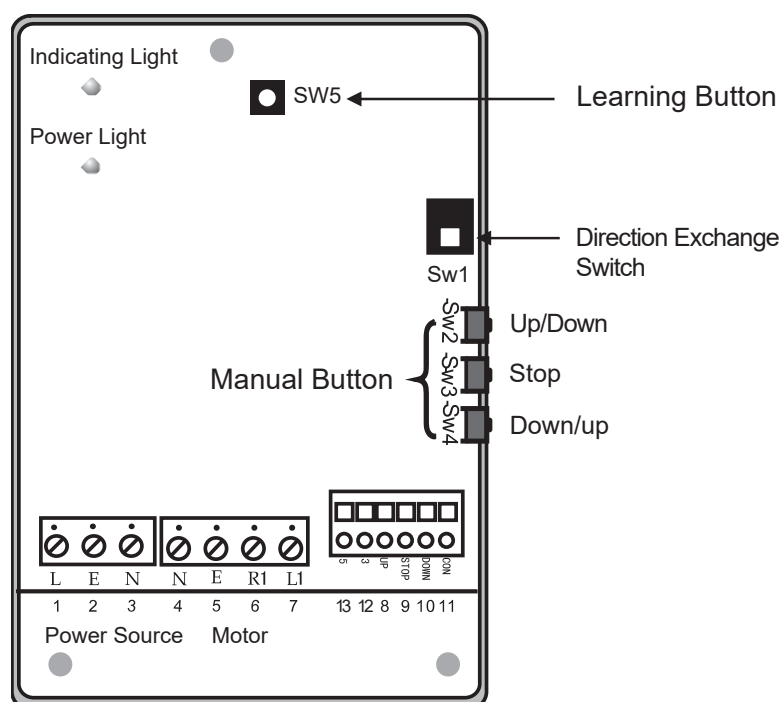
Dimension

- Maintain a minimum distance of 20 cm between multiple receivers to ensure optimal performance.

Wiring Instructions

Please refer to the diagram below for correct wire connections, and follow these guidelines during installation:

- Ensure that the power is fully disconnected before starting any wiring.
- Take precautions against static electricity, as it can damage sensitive electronic components.
- Select and use cables that meet local safety standards.
- Proper grounding is essential for safe operation.
- Ensure that the loop resistance is less than 20Ω . If the cable runs near strong current sources, use shielded wire to reduce interference. For total cable lengths up to 100 meters, a qualified UTP cable is recommended, with a typical resistance of 9.2Ω over this length.



Wiring

Model	No.	ID	Name	230V Color	115V Color
Power Line	1	L	Live Wire	Brown	Black
	3	E	Earth Wire	Yellow Green	Green
	2	N	Null Wire	Blue	White
Motor Line	4	N	Null Wire	Blue	Blue
	5	E	Earth Wire	Yellow Green	Yellow Green
	6	R	Up/Down Wire	Brown	Brown
	7	L	Up/Down Wire	Black	Black
External Switch	8	Up	Up Wire	Wall switch wiring diagram	
	9	Stop	Stop Wire		
	10	Down	Down Wire		
	11	Con	Concentric Wire		
	12	3	RS232-TXD		
	13	5	RS232-GND		

Attention: Please ensure that all wiring is completed exactly as shown in the provided diagram. The wiring diagram is designed specifically for this product model and may not be compatible with other devices.

If the lift moves in the opposite direction (e.g., pressing "**Up**" lowers the lift and pressing "**Down**" raises it), open the receiver and swap the connections for **R1** and **L1**.

RS485/RS232 Configuration

Central Control Protocol

1. Communication Protocol:

DATA BITS: 8 Digits	INITIAL DIGITS: Digit 1	STOP DGITS: Digit 1	BAUD RATE: 2400
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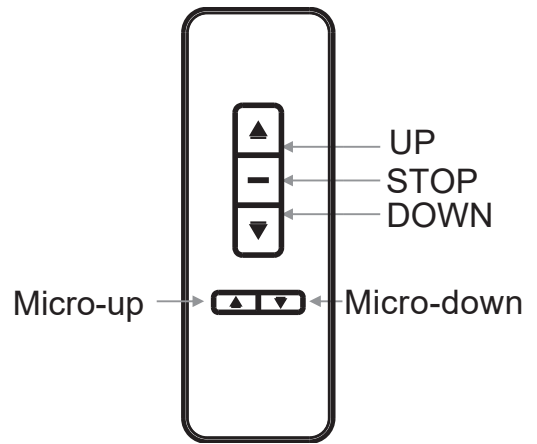
2. UP: 0xFF 0xEE 0xEE 0xEE 0xDD
3. STOP: 0xFF 0xEE 0xEE 0xEE 0xCC
4. DOWN: 0xFF 0xEE 0xEE 0xEE 0xEE
5. MICRO-UP: 0xFF 0xEE 0xEE 0xEE 0xC9
6. MICRO-DOWN: 0xFF 0xEE 0xEE 0xEE 0xE9
7. Initial Code: 0xFF 0XX 0XX 0XX 0xAA

REMOTE CONTROL (GF123-5)

The remote control is compatible with the receiver and communicates via radio waves at a frequency of 868 MHz.

Functions

1. Press ▲ to raise the lift.
2. Press - to stop the lift.
3. Press ▼ to lower the lift.
4. Use the **Micro Switch** to raise or lower the lift in small increments for precise positioning.



Specifications

- **Operating Temperature:** -5°C to +40°C
- **Protection Rating:** IP40
- **Battery Storage:** To prevent leakage, remove the battery if the remote will be stored for an extended period without use.

Programming Code Setup (Step-by-Step)

1. Press the receiver's programming button (**SW5**). The LED indicator (**FD1**) will blink green, indicating programming mode.
2. Release the programming button, then press the **Up/Stop** button on the remote control until the LED (**FD1**) lights up solidly. Release the button, indicating successful programming.

Programming Code Clearing (Step-by-Step)

1. Press and hold the receiver's programming button (**SW5**) for 5 seconds. The LED indicator (**FD1**) will start blinking slowly, then transition to faster blinking.
2. Release the button, then press it once more. When the LED (**FD1**) lights up solidly, the programming code has been cleared.

Note:

1. Complete the programming setup within 15 seconds after the LED (**FD1**) starts blinking green, or the programming will time out.

2. Do not initiate programming while the lift is moving.
3. During programming, the remote control will temporarily be inactive.

Manual Switch Instructions for Receiver

If the remote control is not functioning, you can use the **Manual Switch** on the receiver to control the lift (refer to the diagram on Page 6).

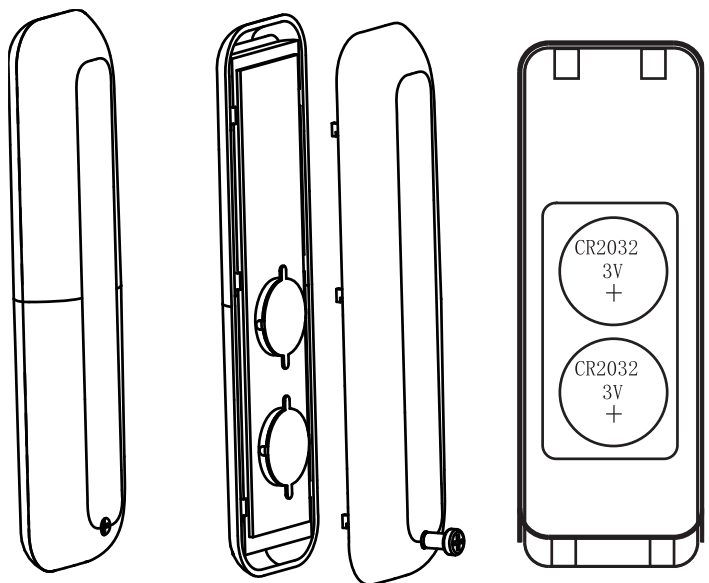
Manual Control for Motor Direction Adjustment (SW1)

If you notice that the lift moves in the opposite direction during manual control (e.g., pressing "**Up**" lowers the lift or pressing "**Down**" raises it), first ensure the remote control is being used correctly. If the issue continues, locate the **SW1** switch inside the receiver and toggle it. This will correct the lift's movement direction, allowing it to operate as expected.

Battery Replacement Instructions

If the remote control signal becomes weak, replace the batteries by following these steps:

1. Turn the remote control over and use a screwdriver to open the battery cover.
2. Insert two new batteries, ensuring the positive (+) and negative (-) terminals are aligned correctly, as shown in the diagram.
3. Close the battery cover and secure it with the screw.



TROUBLESHOOTING

If the remote control is not functioning correctly, follow these troubleshooting steps. If the issue persists or you don't find a solution that matches the symptoms, please contact your local distributor or our after-sales support team.

Symptom: The instruction light on the receiver does not light up.

Possible Causes:

1. Power is not connected properly.

2. Improper cable connection.
3. Blown fuse inside the receiver.

Solutions:

1. Ensure the power is connected correctly.
2. Verify cable connections according to the wiring diagram.
3. Replace the fuse with a new one if needed.

Symptom: The instruction light on the receiver is on, but it does not blink when pressing buttons on the remote control.

Possible Causes:

1. Batteries in the remote control are depleted, or they are installed with the incorrect polarity.
2. Incorrect programming or connection.
3. Possible damage to receiver components if manual control can still move the lift up and down.

Solutions:

1. Check battery orientation in the remote control according to the battery setup diagram. If the issue persists, replace the batteries with new ones.
2. Verify cable connections according to the receiver's wiring diagram.
3. Contact your local distributor for further assistance if the problem continues.

REGULATORY COMPLIANCE

Notice for FCC



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, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Modifying the equipment without Monoprice's authorization may result in the equipment no longer complying with FCC requirements for Class B digital devices. In that event, your right to use the equipment may be limited by FCC regulations, and you may be required to correct any interference to radio or television communications at your own expense.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency

energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Radio Notice for FCC



Caution

This FCC Part 15 radio device operates on a non-interference basis with other devices operating at this frequency. Any changes or modification to said product not expressly approved by Monoprice, including the use of non-approved antennas, could void the user's authority to operate this device.

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, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Notice for ISED Canada



This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.



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