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LeMotech lm201803261109

LeMotech ABS Plastic Junction Box User Manual

Model: lm201803261109

1. Product Overview

The LeMotech ABS Plastic Junction Box is a universal project enclosure designed to protect electrical components from environmental factors. It features an IP65 waterproof and dustproof rating, making it suitable for various indoor and outdoor applications. The box is constructed from durable ABS and PC materials, ensuring reliability and longevity.

Key Features:

- **IP65 Waterproof and Dustproof:** Provides excellent protection against water jets and total dust ingress.
- **Durable Construction:** Made from high-quality ABS and PC plastic for robust performance.
- **Transparent Cover:** Allows for easy inspection of internal components without opening the enclosure.
- **Easy to Operate and Repair:** Designed for convenient installation and maintenance.
- **Shock Resistance:** Offers protection against impacts.



Figure 1: LeMotech ABS Plastic Junction Box with transparent cover.

2. Setup and Installation

Proper installation is crucial to ensure the IP65 rating and the longevity of your electrical components. Follow these steps carefully:

2.1 Unpacking and Inspection

1. Carefully remove the junction box and its components from the packaging.
2. Verify that all parts are present: 1 x Junction Box, 4 x Screws (Note: Screws are not rustproof), 1 x Rubber Grommet.
3. Inspect the box for any signs of damage during transit. Do not use if damaged.

2.2 Mounting the Box

The junction box can be mounted using the pre-drilled holes or by drilling new holes as needed. Refer to the internal dimensions for precise component placement.



Figure 2: External dimensions of the junction box (115mm x 90mm x 55mm).

Figure 3: Internal view showing mounting points and potential wiring holes.

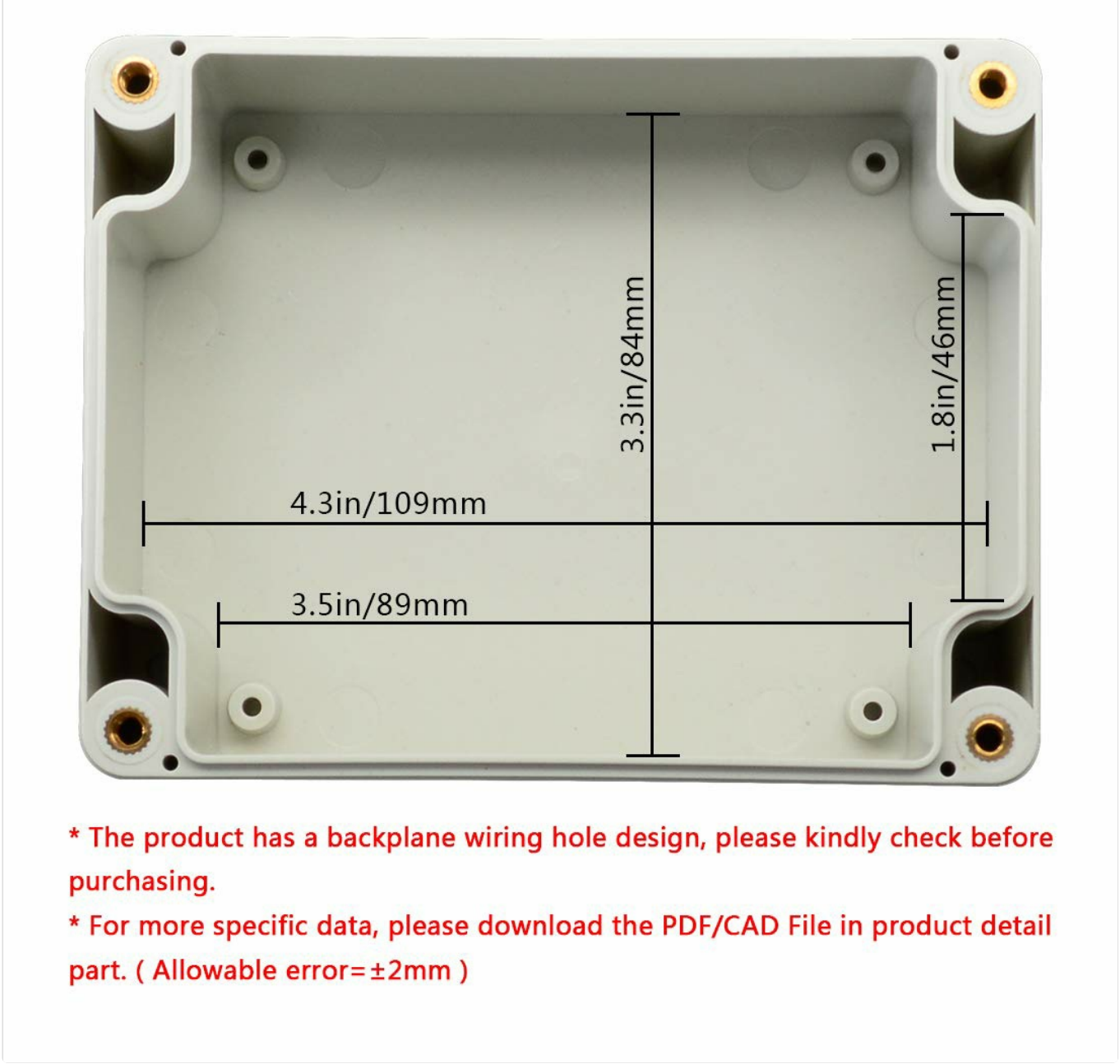


Figure 4: Internal dimensions for component placement (109mm x 84mm x 51mm).

- Identify the desired mounting location.
- Mark the positions for the mounting screws using the box as a template.
- Drill pilot holes if necessary, suitable for the provided screws or your chosen fasteners.
- Secure the base of the junction box to the mounting surface.

2.3 Wiring and Sealing

After installing your electrical components and routing wires, ensure the box is properly sealed to maintain its IP65 rating.



Figure 5: Detail of the waterproof rubber gasket.

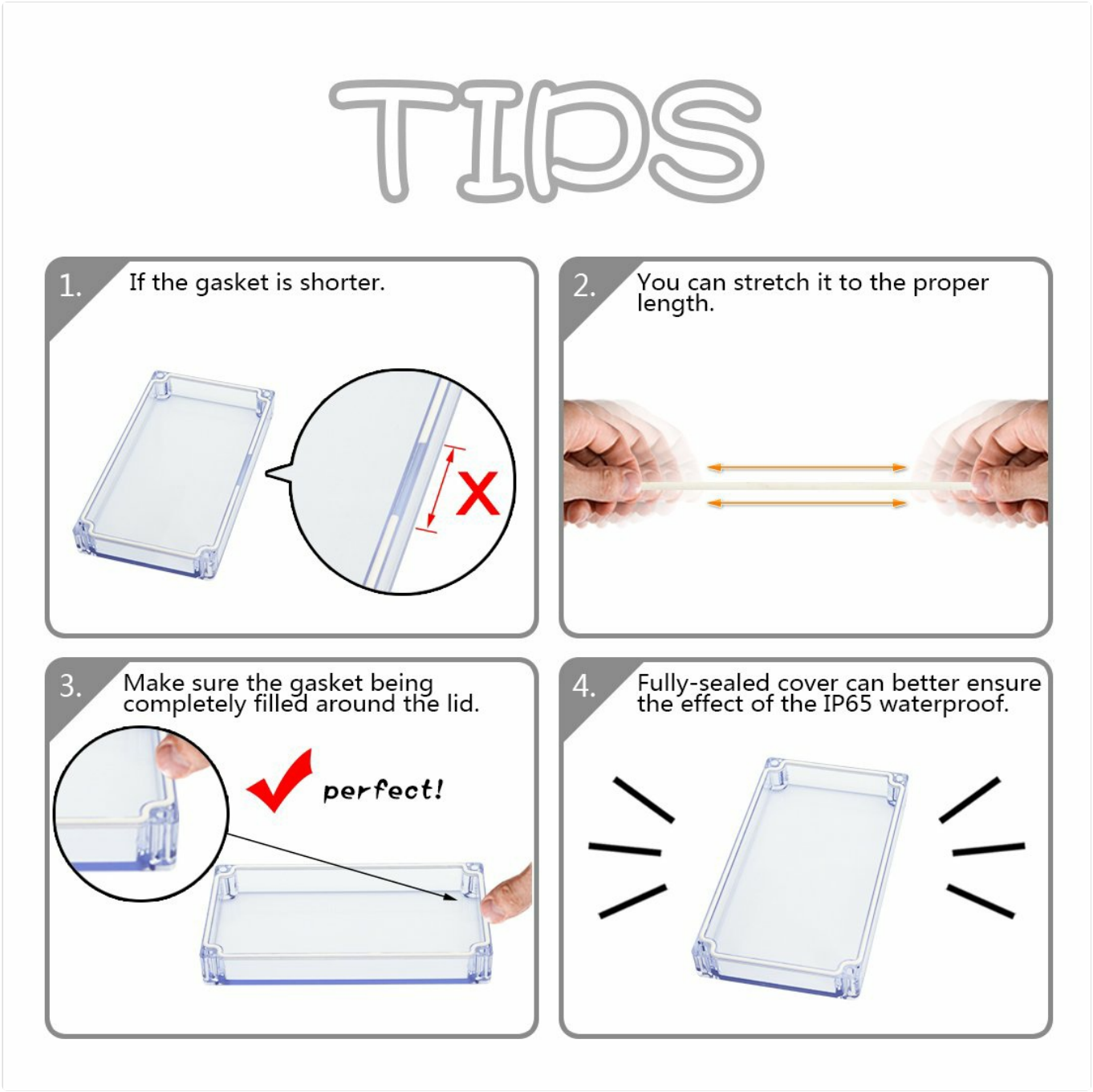


Figure 6: Visual guide for ensuring proper gasket placement and sealing.

1. Ensure the rubber gasket is correctly seated in the groove around the perimeter of the box opening. If the gasket appears shorter, gently stretch it to fit the entire groove.
2. Place the transparent cover onto the box, aligning the screw holes.
3. Secure the cover with the provided screws. Tighten screws evenly to ensure a uniform seal. Do not overtighten.
4. For cable entry, use appropriate waterproof cable glands (not included) to maintain the IP65 rating.

▶ **Watch video online**

LeMotech Junction Box IP65 with Clear Cover

Video 1: Demonstration of the LeMotech Junction Box's IP65 waterproof capabilities, showing it submerged in water.

3. Operating Instructions

Once installed and sealed, the LeMotech ABS Plastic Junction Box operates passively by protecting its internal contents. No active operation is required from the user. Ensure the cover remains securely fastened to maintain

environmental protection.

4. Maintenance

Regular maintenance helps ensure the continued protection offered by the junction box.

- **Periodic Inspection:** Annually, or more frequently in harsh environments, inspect the box for any signs of physical damage, cracks, or degradation of the gasket.
- **Gasket Check:** Ensure the rubber gasket is still pliable and fully seated. Replace if it shows signs of wear, cracking, or compression set.
- **Screw Tightness:** Periodically check that all cover screws are securely tightened.
- **Cleaning:** Clean the exterior of the box with a damp cloth. Avoid abrasive cleaners that could damage the plastic.

5. Troubleshooting

If you encounter issues with the junction box, consider the following:

Problem	Possible Cause	Solution
Water or dust inside the box	Gasket improperly seated or damaged; screws not tightened evenly; improper cable gland installation.	Re-seat or replace gasket. Tighten screws evenly. Ensure cable glands are correctly installed and sealed.
Cover does not close properly	Obstruction; deformed gasket; damaged cover.	Check for obstructions. Inspect gasket for deformation and replace if necessary. If cover is damaged, replace the unit.
Cracks or physical damage to the box	Impact; exposure to extreme temperatures or chemicals.	Replace the junction box immediately to maintain protection.

6. Specifications

Feature	Detail
Product Name	Junction Box
Model Number	lm201803261109
Brand	LeMotech
Material	ABS, PC, Rubber
Waterproof Protection Grade	IP65
Certifications	CE, RoHS
Main Color	Light Gray (Box Body), Transparent (Cover)
Outside Dimensions (L*W*H)	4.53" x 3.54" x 2.16" (115mm x 90mm x 55mm)

Feature	Detail
Inner Dimensions (L*W*H)	4.3" x 3.3" x 2" (109mm x 84mm x 51mm)
Thickness	0.12" / 3mm
Screw Thread Diameter	4mm / 0.16"
Net Weight	155g
UPC	726853211904

7. Warranty and Support

For warranty information or technical support, please contact LeMotech customer service through the retailer where the product was purchased or visit the official LeMotech website. Please have your model number (lm201803261109) and purchase details ready when contacting support.

LeMotech Store: Visit LeMotech on Amazon

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