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› LeMotech IP65 ABS Plastic Junction Box Instruction Manual (7.9 x 4.7 x 2.2 inch)

LeMotech Im201709251051

LeMotech IP65 ABS Plastic Junction Box Instruction Manual

Model: Im201709251051 | Size: 7.9 x 4.7 x 2.2 inch (200 x 120 x 56 mm)

1. INTRODUCTION

This manual provides instructions for the LeMotech IP65 ABS Plastic Junction Box. This enclosure is designed to protect electrical connections and components in various environments. Its IP65 rating ensures protection against dust ingress and low-pressure water jets from any direction.

The junction box is constructed from durable ABS plastic, offering resistance to moisture, sun exposure, and corrosion, ensuring long-term use. It is suitable for both indoor and outdoor electrical and communication applications.



Image 1.1: LeMotech IP65 ABS Plastic Junction Box (7.9 x 4.7 x 2.2 inch).

2. SAFETY INFORMATION

Always observe the following safety precautions when working with electrical enclosures:

- Ensure all power sources are disconnected before installing or servicing components within the enclosure.
- Only qualified personnel should perform electrical installations.
- Verify that the enclosure's IP65 rating is appropriate for the intended environment.
- Do not modify the enclosure in a way that compromises its structural integrity or sealing capabilities.
- Use appropriate personal protective equipment (PPE) during installation and maintenance.

3. INCLUDED COMPONENTS

The LeMotech IP65 ABS Plastic Junction Box package includes:

- 1 x ABS Plastic Enclosure (Base and Lid)
- 4 x Lid Screws (with brass inserts for secure fastening)
- 1 x Rubber Gasket for sealing the lid



Image 3.1: Interior view of the junction box with mounting points and brass inserts.

4. SPECIFICATIONS

Feature	Detail
Brand	LeMotech
Model Number	Im201709251051
Material	ABS (Acrylonitrile Butadiene Styrene), Rubber
Color	Pale Gray
Outer Dimensions (L x W x H)	7.9" x 4.7" x 2.2" (200mm x 120mm x 56mm)
Inner Dimensions (L x W x H, Approx.)	7.6" x 4.5" x 2.0" (194mm x 114mm x 51mm)
Thickness	0.16" (4mm)
IP Rating	IP65 (Waterproof, Dustproof)
Net Weight	276g
Installation Type	Screw-In

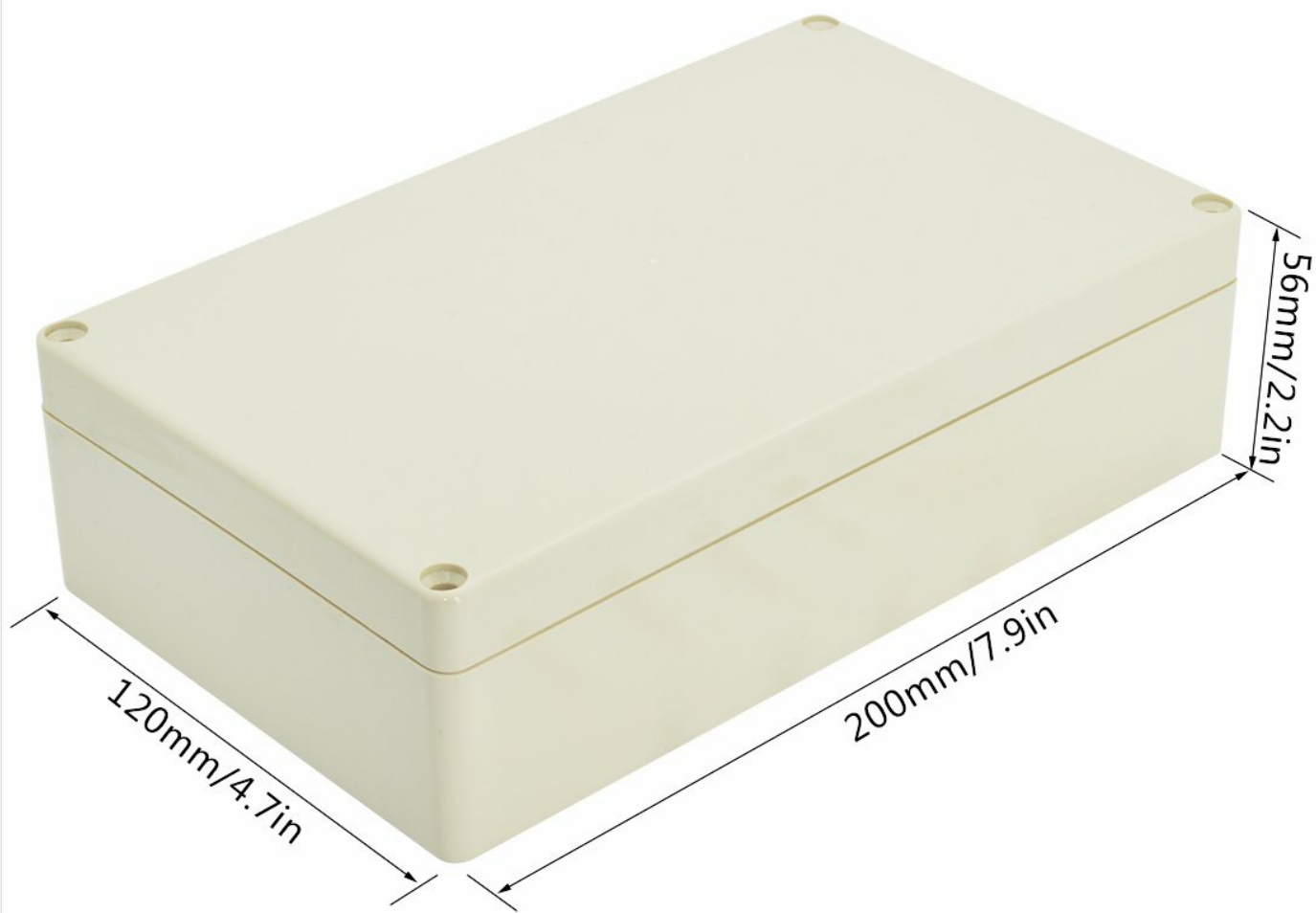
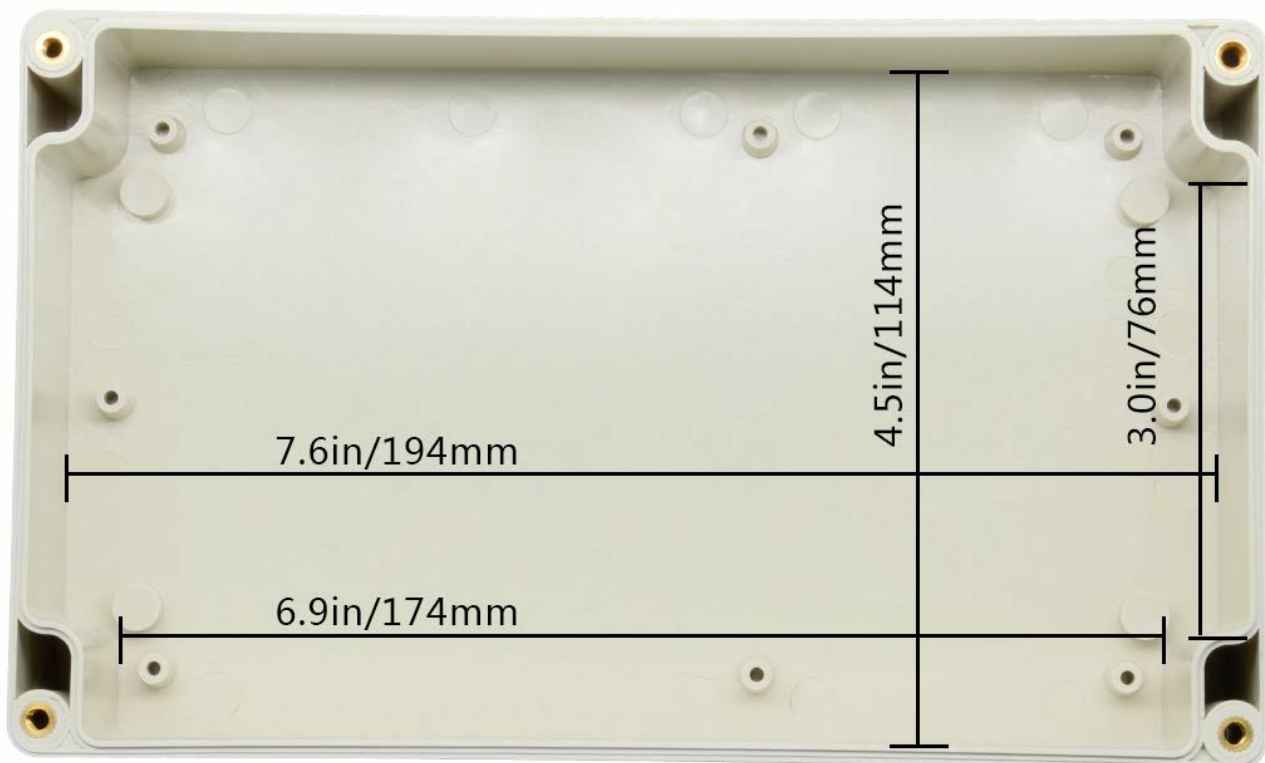


Image 4.1: External dimensions of the junction box.



*** The product has a backplane wiring hole design, please kindly check before purchasing.**

*** For more specific data, please download the PDF/CAD File in product detail part. (Allowable error= ± 2 mm)**

Image 4.2: Internal dimensions of the junction box.

5. SETUP AND INSTALLATION

5.1 Gasket Installation

Proper installation of the rubber gasket is crucial for maintaining the IP65 rating.

1. If the provided gasket appears shorter than the lid's groove, gently stretch it to the appropriate length.
2. Carefully press the gasket into the groove around the perimeter of the lid, ensuring it is fully seated and forms a continuous seal.
3. Verify that the gasket is completely filled around the lid for a perfect seal.

TIPS

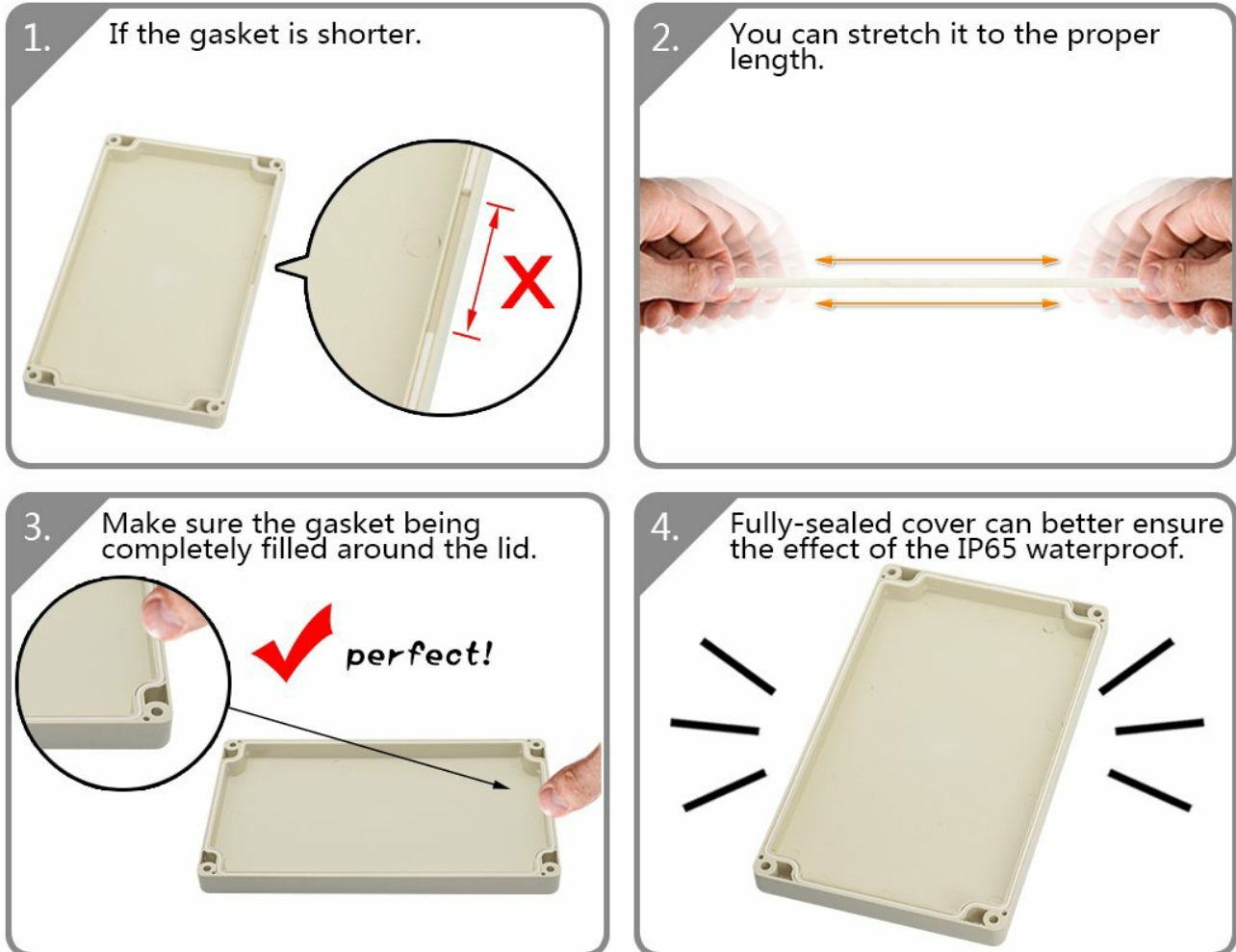


Image 5.1: Gasket installation tips for ensuring a waterproof seal.

5.2 Customization and Mounting

The ABS plastic material allows for easy drilling and cutting to accommodate cable glands, connectors, and other components. Plan your modifications carefully before proceeding.

- **Internal Mounting:** The box features molded standoffs on the interior base for mounting circuit boards or other components.
- **External Mounting:** Four recessed mounting points are available on the backside for securing the box to a surface using self-tapping screws (not included).

5.3 Securing the Lid

After placing your components and ensuring the gasket is correctly seated, align the lid with the base and secure it using the four provided screws. Tighten the screws evenly to compress the gasket and achieve a watertight seal.

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6. OPERATING GUIDELINES

Once installed, the LeMotech junction box provides a protective enclosure for your electrical or electronic components. No specific operational steps are required for the box itself, as its function is passive protection.

- Ensure all internal wiring and connections are secure and properly insulated before closing the box.
- Regularly inspect the box for any signs of damage or compromise to the seal, especially in harsh environments.



Image 6.1: Examples of the junction box in various electrical applications.



Image 6.2: Additional examples showing the versatility of the junction box.

7. CARE AND MAINTENANCE

To ensure the longevity and continued performance of your LeMotech junction box:

- **Cleaning:** Clean the exterior of the box periodically with a damp cloth. Avoid abrasive cleaners or solvents that could damage the ABS plastic.
- **Inspection:** Annually inspect the gasket for cracks, hardening, or signs of wear. Replace if necessary to maintain the IP65 seal.
- **Screw Tightness:** Periodically check the lid screws to ensure they remain securely tightened.

8. TROUBLESHOOTING

If you encounter issues with the junction box's protective capabilities, consider the following:

- **Water/Dust Ingress:**
 - Check the gasket for proper seating and condition. Ensure it is not pinched or damaged.
 - Verify that all lid screws are tightened evenly and securely.
 - Inspect any drilled holes for proper sealing with cable glands or other accessories. Ensure these accessories also meet the required IP rating.
- **Lid Not Closing Properly:**
 - Ensure no internal components are obstructing the lid's closure.
 - Check if the gasket is correctly positioned in its groove.

9. WARRANTY INFORMATION

Specific warranty details for the LeMotech IP65 ABS Plastic Junction Box are not provided in this document. For information regarding warranty coverage, terms, and conditions, please refer to the product packaging or contact LeMotech customer support directly.

10. CUSTOMER SUPPORT

For technical assistance, product inquiries, or support, please visit the official LeMotech store or contact their customer service department. Contact information can typically be found on the product packaging or the manufacturer's website.

You can also visit the [LeMotech Store on Amazon](#) for more information and product offerings.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question