

Myst Enterprise

CUSTOM ELECTRIC RV BED LIFT SYSTEM

PRODUCT MANUAL

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1. Introduction

This manual provides important information for the safe and correct installation and operation of your Custom Electric Lift Bed with a built-in electric lift mechanism. Please read these instructions carefully and thoroughly before use. Failure to understand or follow these instructions may result in damage to the electric lift bed mechanism or personal injury. If you have any questions, please consult a technical engineer.

2. Safety Warnings & Mechanism Characteristics

It is critical to adhere to the following safety guidelines and understand the characteristics of the electric lift bed to ensure safe operation and prevent damage.

2.1 General Safety Precautions

Weight Limit: The total weight limit for the entire electric lifting bed is 60 kg. Do not exceed this limit.

Support: When the electric lift bed is in the lowered position, ensure there are at least four points of support. Failure to do so will damage the mechanism.

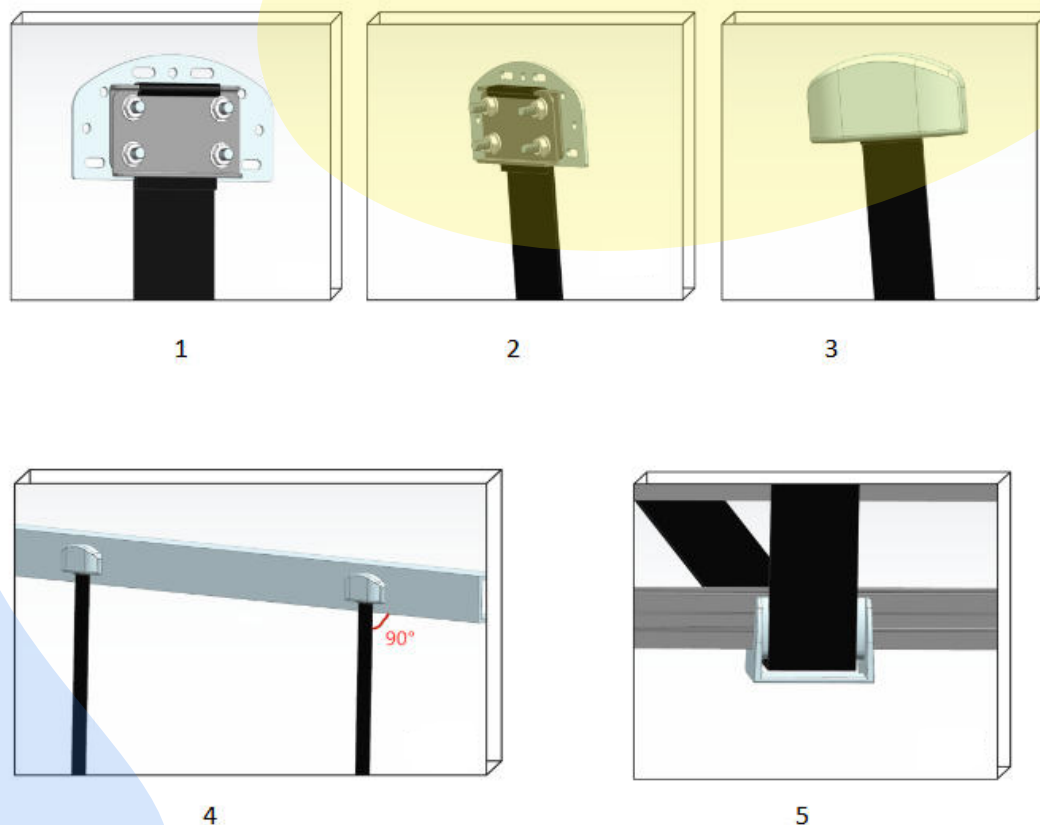
Clearance (Rising): Before raising the bed, ensure all foreign objects are removed from the bed surface.

Clearance (Descending): Before lowering the bed, visually confirm that there is no one, nothing, or any obstruction under the bed.

Children/People Safety: If necessary, install a blocking curtain to ensure the safety of people and children who might be in a deep sleep state under the bed.

2.2 Mechanism Characteristics

- The electric lifting bed mechanism is designed solely for vertical lifting within the vehicle. The system has a maximum weight capacity of 60 kg.
- Ensure four support points are engaged when the bed is lowered to prevent mechanism damage. Clear the bed of all objects before lifting.
- Always check for obstructions or persons beneath the bed before lowering.
- Upper and lower limit adjustments require professional technical assistance. Consult a technical engineer for details. The slide rail requires specific installation placement. Consult a technical engineer for details.
- The optimal installation method for the sling's fixed point involves secure attachment. (Refer to Original Manual Pictures 1, 2, 3 for visual examples of fixed points).
- The sling of the electric lift bed must be positioned at a 90-degree angle relative to the vehicle and the bed. (Refer to Original Manual Pictures 4, 5 for visual examples of the 90-degree angle).

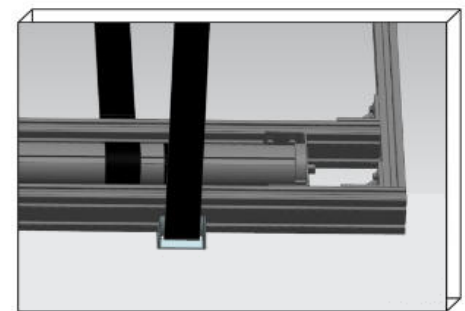
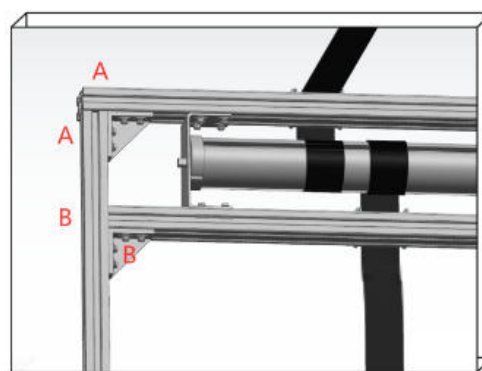
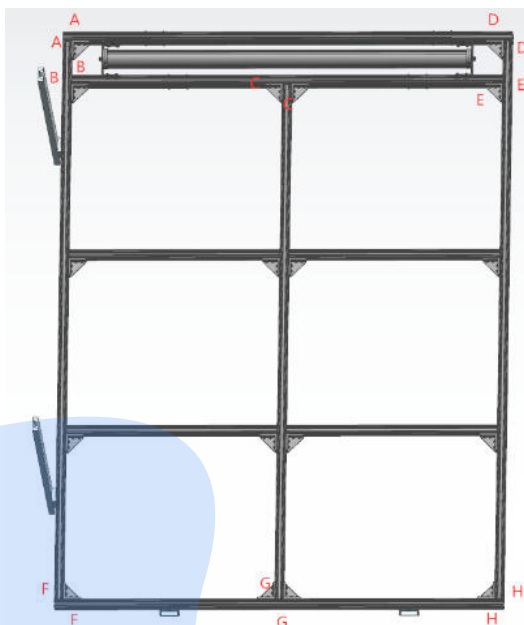
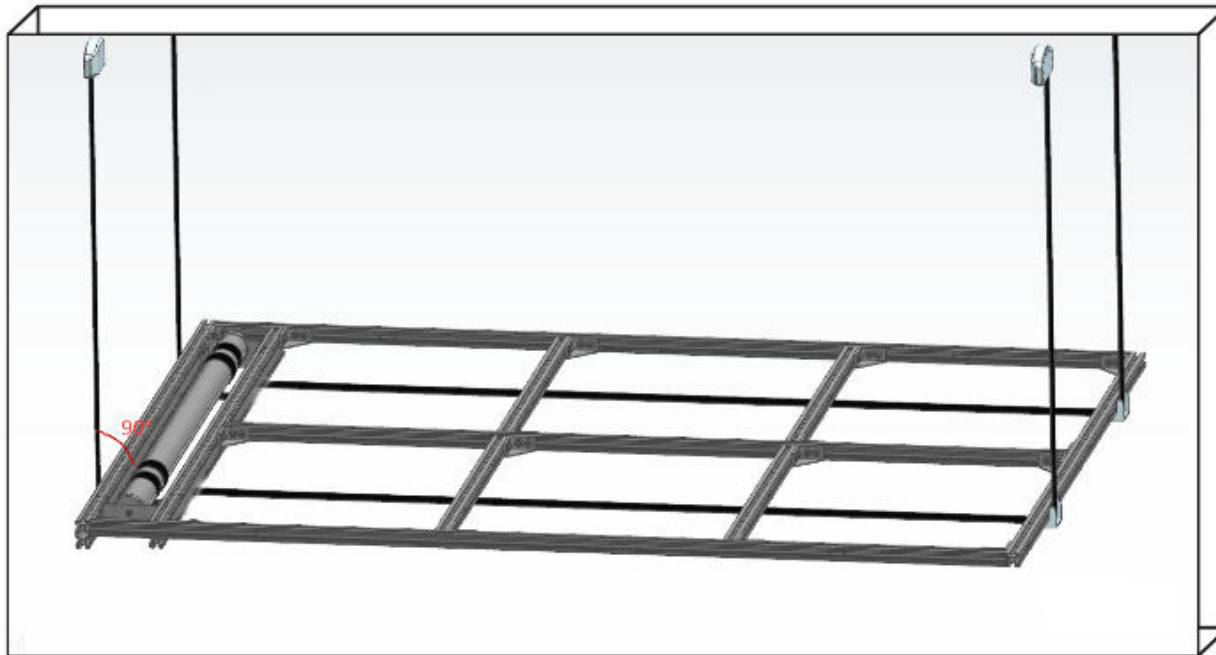


3. Electric Lift Bed Installation Instructions

Follow these steps carefully for proper installation. (Refer to Original Manual Diagram 1 for an overall view and Original Manual Diagram 2 for detailed bracket markings.)

Bracket Marking: The lifting bed bracket features English letter markings. Match these markings according to the provided picture to ensure correct orientation.

Nut Installation: Before mounting, insert the square nut into the designated bracket opening. **Rope Winding:** Wrap the four ropes around the motor casing in the same direction, clockwise.



4. Electric Lift Bed Controller

This section details the power requirements and operation of the custom RV Electric Lift Bed Controller. (Refer to Original Manual Diagram for RV Electric Lift Bed Controller for button layout).

4.1 Power Supply and Wiring Requirements

Voltage Range: The controller operates within a voltage range of 11V to 16V. If the voltage drops below 10V or exceeds 16V, the control panel protection will activate (out of control), and the indicator light will flash.

Power Supply Wiring: The power supply wiring requires a minimum of 1.5 square meters gauge.

Insurance Selection: The recommended fuse (insurance) selection is approximately 15A. The maximum load current should not exceed 10A.

Signal Lines: The controller utilizes both positive and negative signal lines. Connect any one of these signal lines for activation. If the connected signal line is disconnected, the indicator light will flash, and the control panel protection will activate. Examples of valid signal inputs include:

- Power supply 12V ACC (Accessory)
- Handbrake signal
- Switch signal
- Seat belt signal

4.2 Control Panel Operation Process

Power On: Press and hold the "main switch" (power button) for 2 seconds until the touch panel function buttons activate.

Ascent (Up):

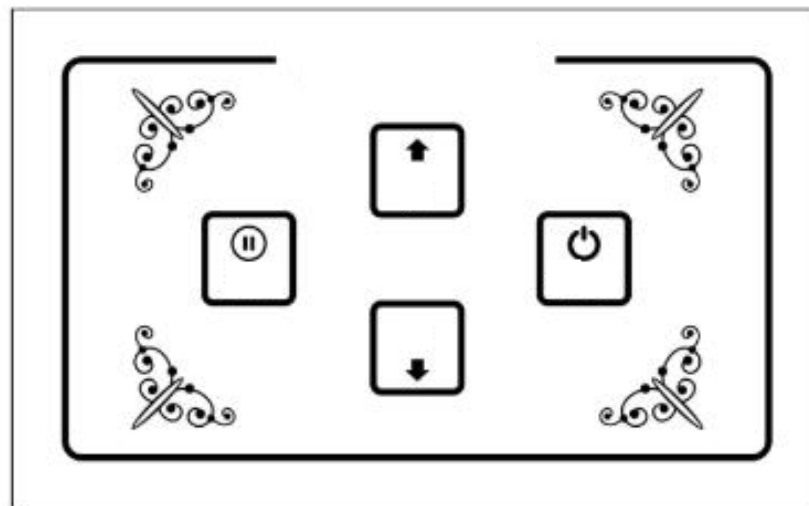
Short press the "Up" button. The lifting bed will begin to rise. The bed will automatically stop when it reaches its upper limit switch.

At any point during ascent, you can short press the "Stop" button or allow a 2-minute delay for automatic shutdown.

Descent (Down):

- ✧ Short press the "Down" button. The lifting bed will begin to descend.
- ✧ The bed will automatically stop when it reaches its lower limit switch.
- ✧ At any point during descent, you can short press the "Stop" button or allow a 2-minute delay for automatic shutdown.

Automatic Shutdown: After the touch panel has been in standby for 2.5 minutes, the main switch will automatically turn off.



5. Recommended Instructions for Electric Lift Bed Operation

For safe and smooth operation, follow these detailed steps.

5.1 Descending the Electric Lift Bed

Clear Underneath: Visually confirm there is no one or nothing under the bed before beginning descent.

Open Buckles: Open the double safety buckles of the lift bed.

Activate Power: Press and hold the power button for 3 seconds. The red LED of the power switch indicator light will illuminate.

Initiate Descent: Press the "Down" button on the switch. The electric lift bed will descend to its pre-set bed frame support position.

Confirm Position: Verify that the electric lift bed has fully descended to and rests on the support position of the bed frame.

Normal Use: Once the operation is complete and the bed is securely in place, the entire bed can be used normally.

Safety Curtain (Optional): If needed, install the blocking curtain to ensure the safety of people and children who might be under the bed.

5.2 Ascending the Electric Lift Bed

Clear On Top: Visually ensure there is no one or anything on the bed before initiating ascent.

Initiate Ascent: Press the "Up" button on the switch. The electric lift bed will begin to rise to its pre-set supporting position.

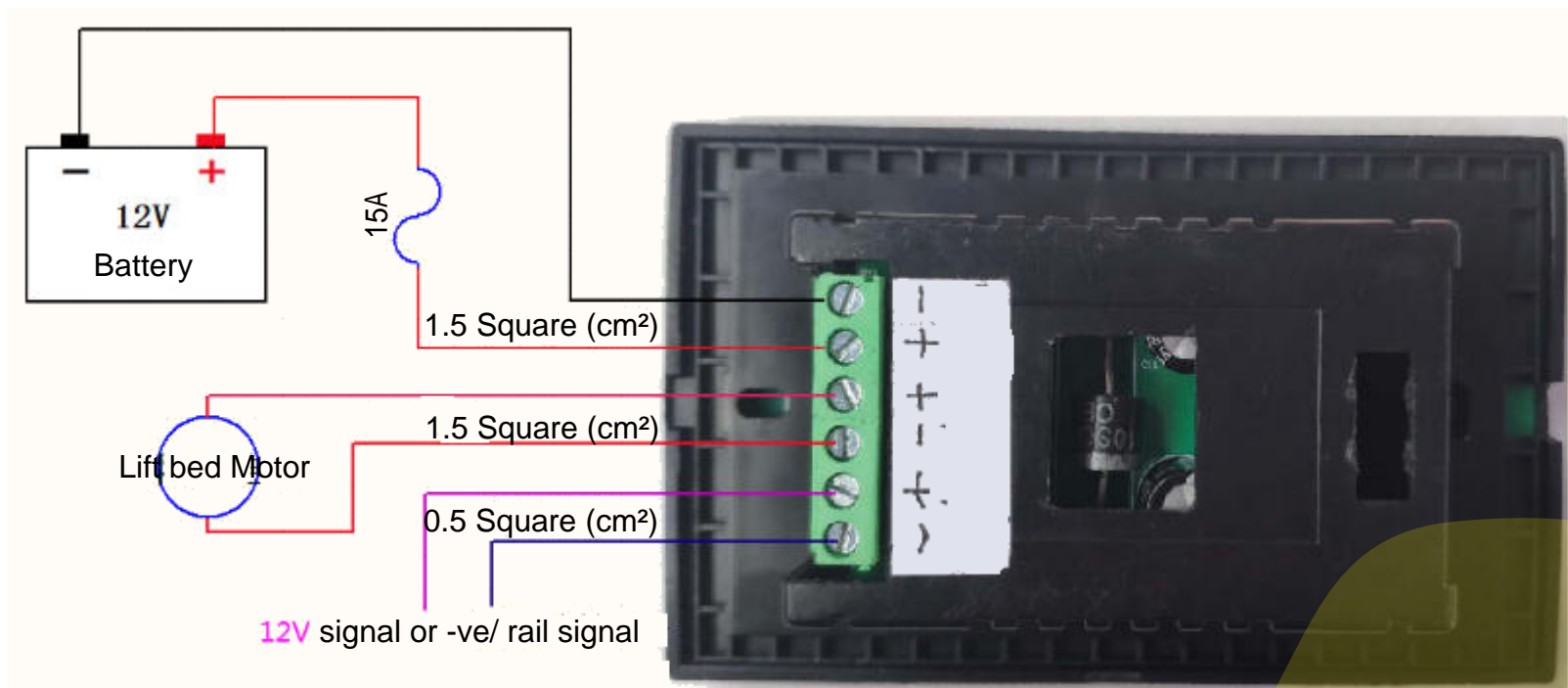
Confirm Position: Confirm that the electric bed has risen and reached its pre-set position.

Connect Buckles: Connect the double safety buckles of the lift bed to secure it.

6. Wiring Diagrams

Proper wiring is essential for the functionality and safety of the electric lift bed. (Refer to Original Manual Wiring Diagrams 1 & 2 for visual guidance.)

- Connection Order: First, connect the signal cable.
- Control Panel Activation: After connecting the signal cable, you can turn on the control panel.
- Signal Cable Functionality: Either one of the two connected signal cables will enable the control panel to work. Valid signal types include:
 - ✧ Power ACC (Accessory)
 - ✧ Handbrake Signal
 - ✧ Switch Signal
 - ✧ Safety Signal



7. Troubleshooting / Fault Indication

The system provides fault indications to alert you to potential issues.

Motor Overcurrent: If the motor current exceeds 30A, the control panel switch fault indicator light will illuminate.

Low Voltage: If the power input voltage is lower than 11V, the switch failure indicator lights will illuminate, and a buzzer alarm will sound.

Note: This manual is for normal function and troubleshooting. For highly specific technical details or troubleshooting beyond these instructions, please consult a qualified technical engineer or the product manufacturer.