

MOD-101

Electric Sliding Step Set

Installation, operation and user instructions



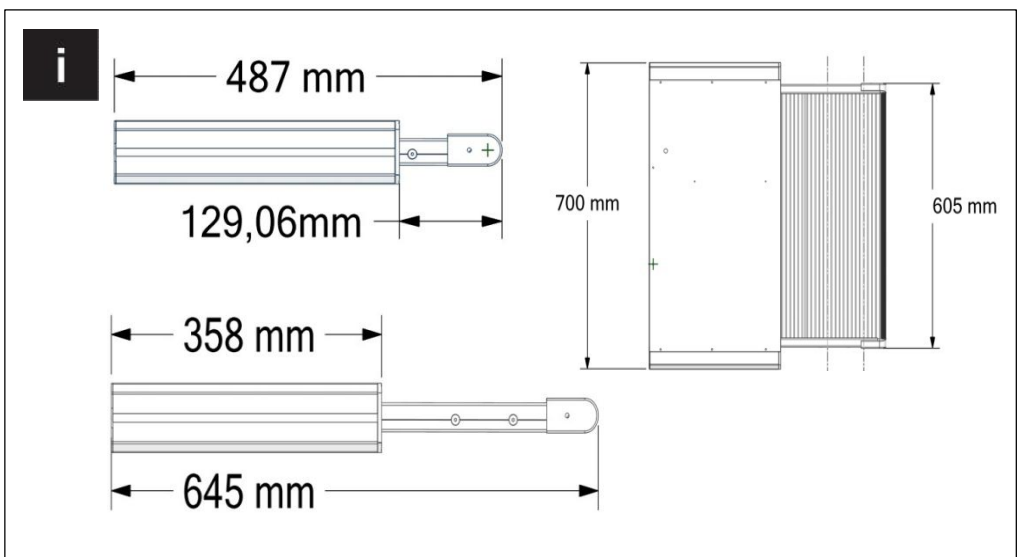
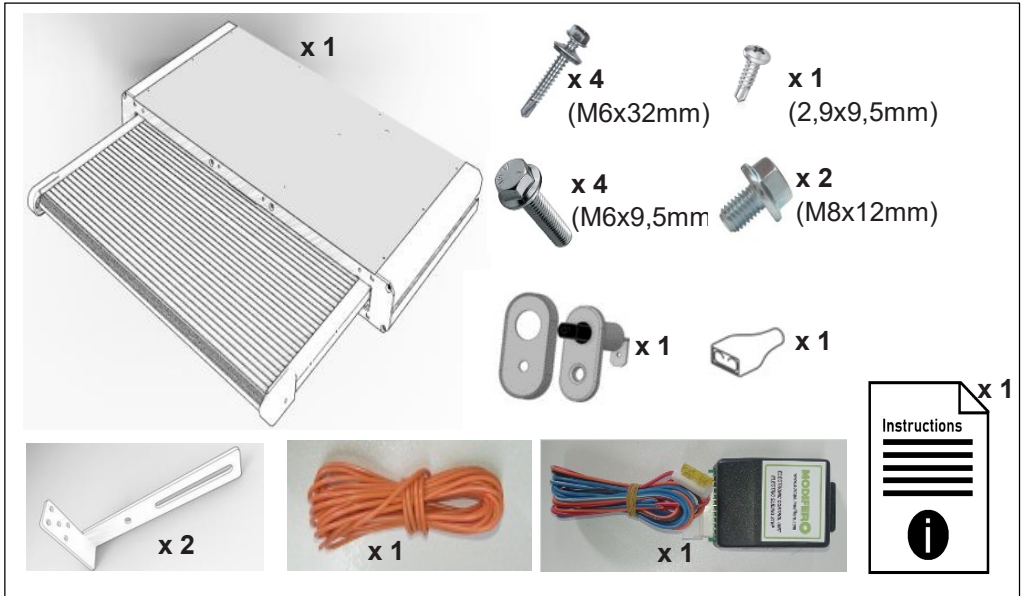
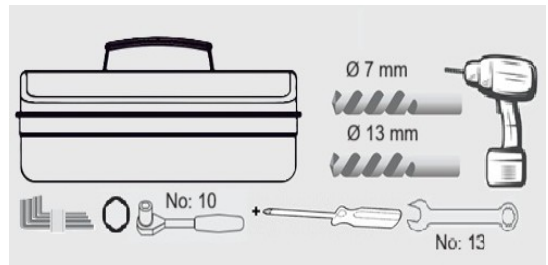
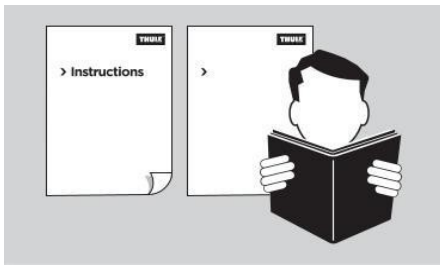
VEHICLE ACCESS SYSTEMS

PRODUCT

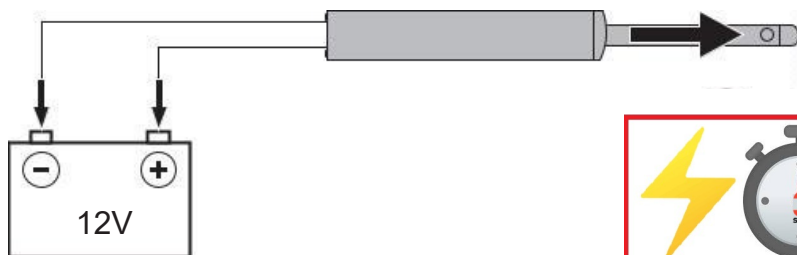
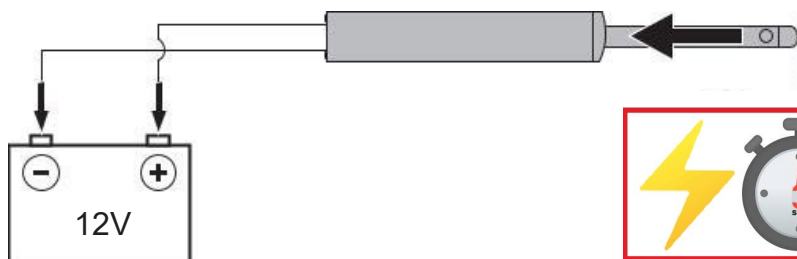
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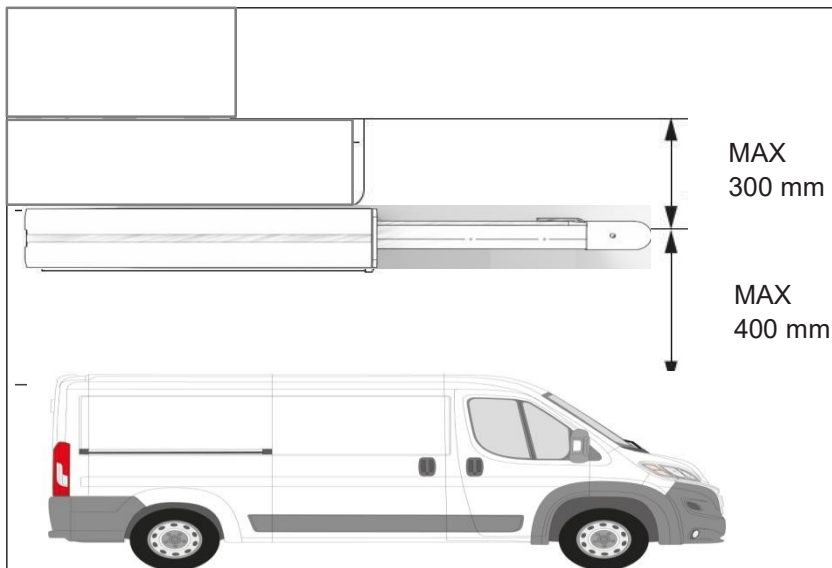
Installation & User Manual



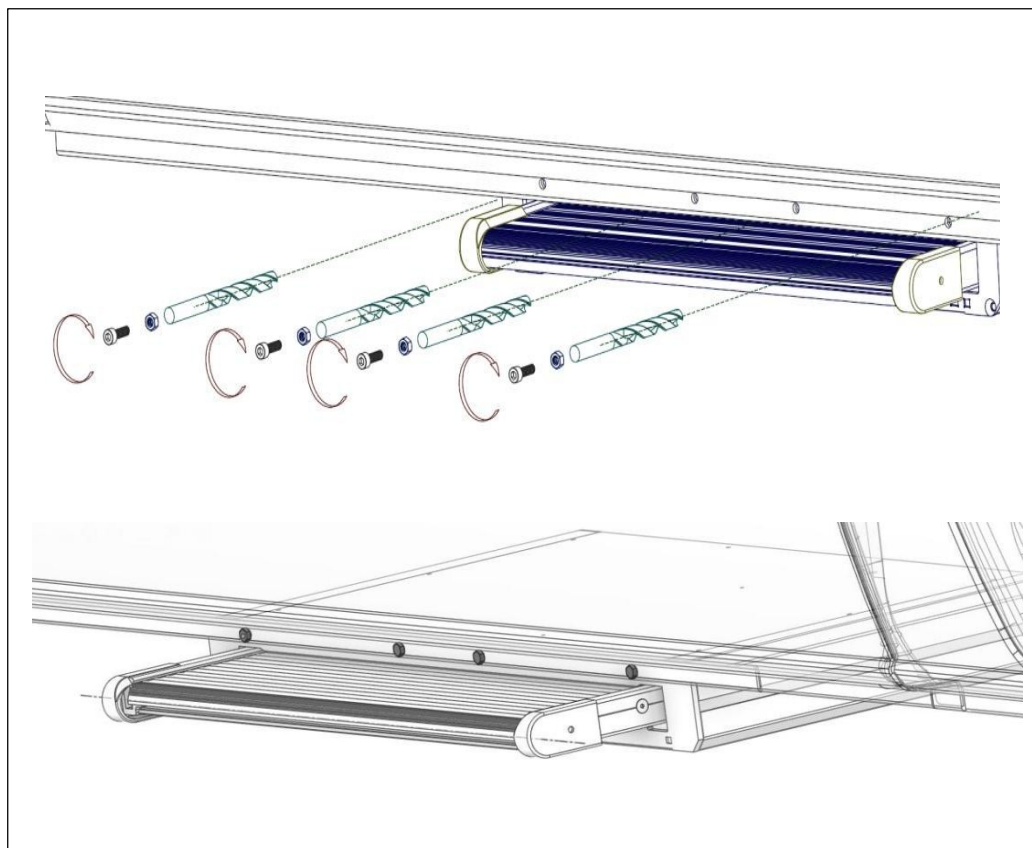
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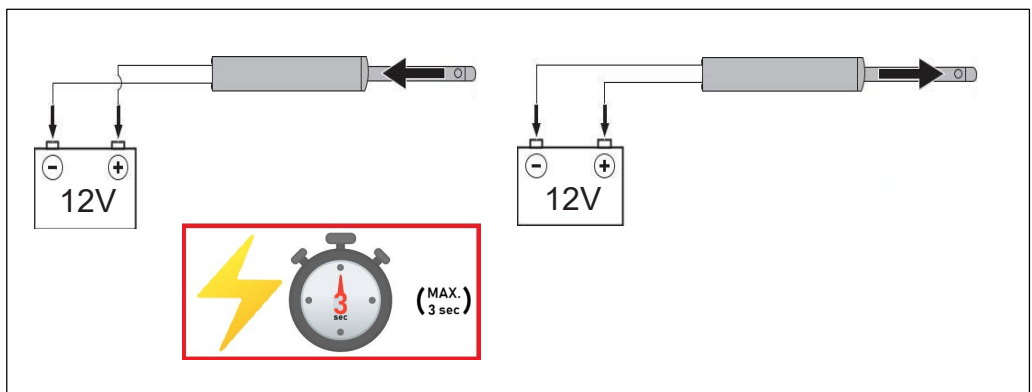
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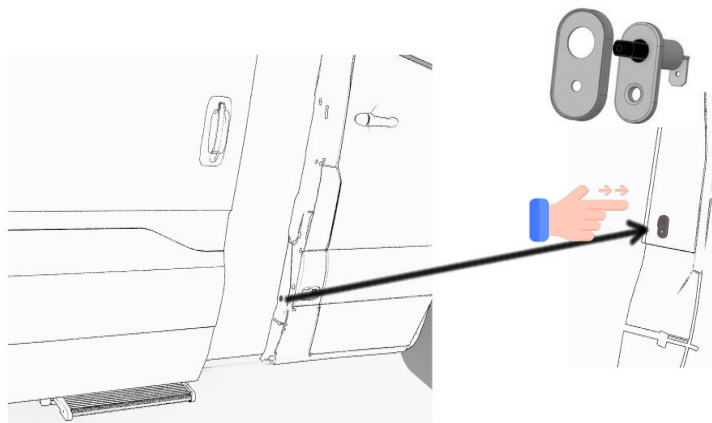
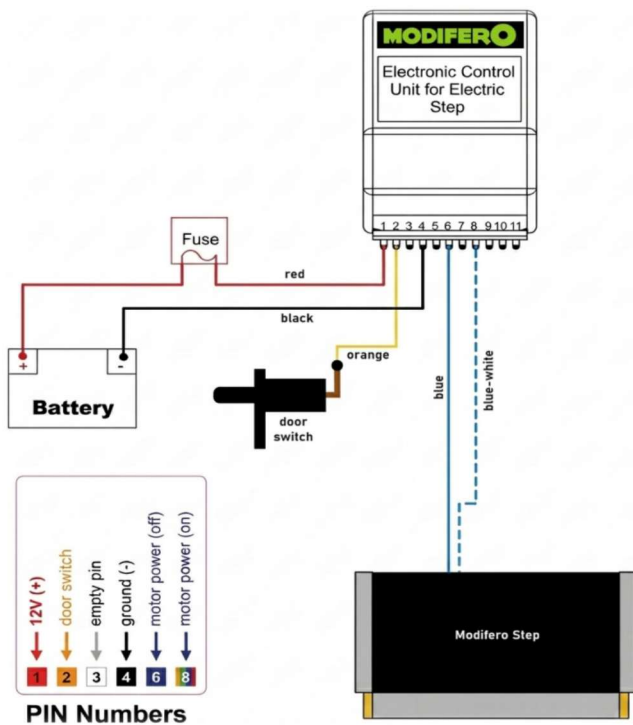


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Modifero Step Installation Manual

Efficiency, Safety, and Precision in Every Step.

! Critical Safety Notice: High Voltage Warning

- **Voltage Requirement:** This product is designed to operate exclusively on 12V DC.
- **Danger:** Never connect to 220V AC mains. Connecting to high voltage will cause irreversible damage and immediately void your warranty.
- **Protocol:** Always follow the provided wiring and assembly diagrams precisely.

Phase 1: Pre-Installation Testing (12V DC)

Before full installation, perform a brief function test to verify motor integrity:

- **To Extend:** Momentarily touch the Blue cable to the **Negative (-)** pole and the Blue-White cable to the **Positive (+)** pole.
- **To Retract:** Momentarily touch the Blue cable to the **Positive (+)** pole and the Blue-White cable to the **Negative (-)** pole.
- **⚠ CRITICAL WARNING:** Do not perform a fixed connection. **As soon as the step begins to move or reaches its limit, immediately disconnect the cables from the power source.** Never energize the motor for more than 2-3 seconds to prevent permanent damage.

Phase 2: Regulatory Compliance

To ensure adherence to EN 1646-1 (motorhomes) and EN 1645-1 standards:

- The step height from the ground in the fully open position must not exceed 400 mm.
- And, The step should be 300 mm at the most from the next step, while in the fully open position

Phase 3: Mechanical Assembly

- **Safety Check:** Contact your manufacturer or local dealer before drilling to ensure no hidden cables or gas pipes are present.
- **Mounting:** Use the front connection plate as a template to drill four 7 mm holes into the vehicle skirt.
- **Clearance:** Maintain an 80 mm clearance from the frame when the step is retracted. Ensure the area is free from finger/foot entrapment hazards.
- **Structural Integrity:** Secure rear connection brackets to a solid chassis point, ensuring they are adjustable and easily detachable for future maintenance.

Phase 4: Final 12V DC Verification

Once mechanically fixed, re-verify the motor movement as described in Phase 1 to ensure no mechanical binding occurred during the installation process.

Phase 5: Electrical Configuration

- **Setup:** Route a 2x2.5 mm² cable from the battery to the Modifero Module. Connect the **Red cable to the 12V+ terminal** and the **Black cable to the Earth (-)**.
- **Alternative:** If the module is in close proximity to the battery, you may connect the module cables directly to the appropriate battery poles as illustrated in the provided wiring diagram.

- **Module Link:** Connect the motor cables (Blue & Blue-White) to the matching colored cables on the Modifero module using 4.8 F flat connectors.
- **Safety Protocol:** To prevent short circuits, **do not insert the 16A fuse** until all connections are finalized and verified.
- **⚠ IMPORTANT SAFETY WARNING:** Please be aware that the step may move unexpectedly once the electrical connection is completed. **Ensure that no body parts or objects are within the operating range of the step to prevent potential impact or entrapment injuries.**

Phase 6: Automatic Door Synchronization & Switch Installation

To comply with EMC standards (2004/108/EC), the step must be locked while the vehicle is in motion.

- **Switch Installation:** Mount the limit switch on the door frame opposite the sliding door, in a position where the door's opening/closing action triggers the switch.
- **Integration:** Connect the orange cable from the Modifero module to the switch (use the provided extension wire if needed).
- **Operation:** The system is now automated: The step extends when the door opens and retracts securely when the door closes.

Modifero – Moving with You.