



**TREAD LITE® POWER STEP
OEM INSTALLATION MANUAL
(EU)**

**L I P P E R T
C O M P O N E N T S®**

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Introduction

This manual is provided to assist with the installation of 610 mm and 762 mm electrically powered Tread Lite® steps.

The control unit works as a current sensor as well as a switching device. When the door opens, the steps extend. When the door closes, the steps retract.



Safety

WARNING

The "Warning" symbol above is a sign that an installation procedure has a safety risk involved and may cause death or serious personal injury if not performed safely and within the parameters set forth in this manual.

WARNING

The coach must be supported per manufacturer's recommendations before working underneath. Failure to do so may result in death, serious personal injury, severe product or property damage or voiding of the component warranty.

WARNING

There is an electric shock hazard associated with this procedure. Disconnect power before working on this trailer. Failure to follow all safety procedures and all procedures in this manual could cause death, serious personal injury, severe product or property damage or voiding of the component warranty.

CAUTION

Before attempting any electric step assembly repair work, please read all of the following instructions. Disconnect the source power after the step is extended.

CAUTION

Always wear eye protection when performing this installation procedure. Other safety equipment to consider would be hearing protection, gloves and possibly a full face shield, depending on the nature of the installation procedure.

CAUTION

Moving parts can pinch, crush or cut. Keep clear and use caution.

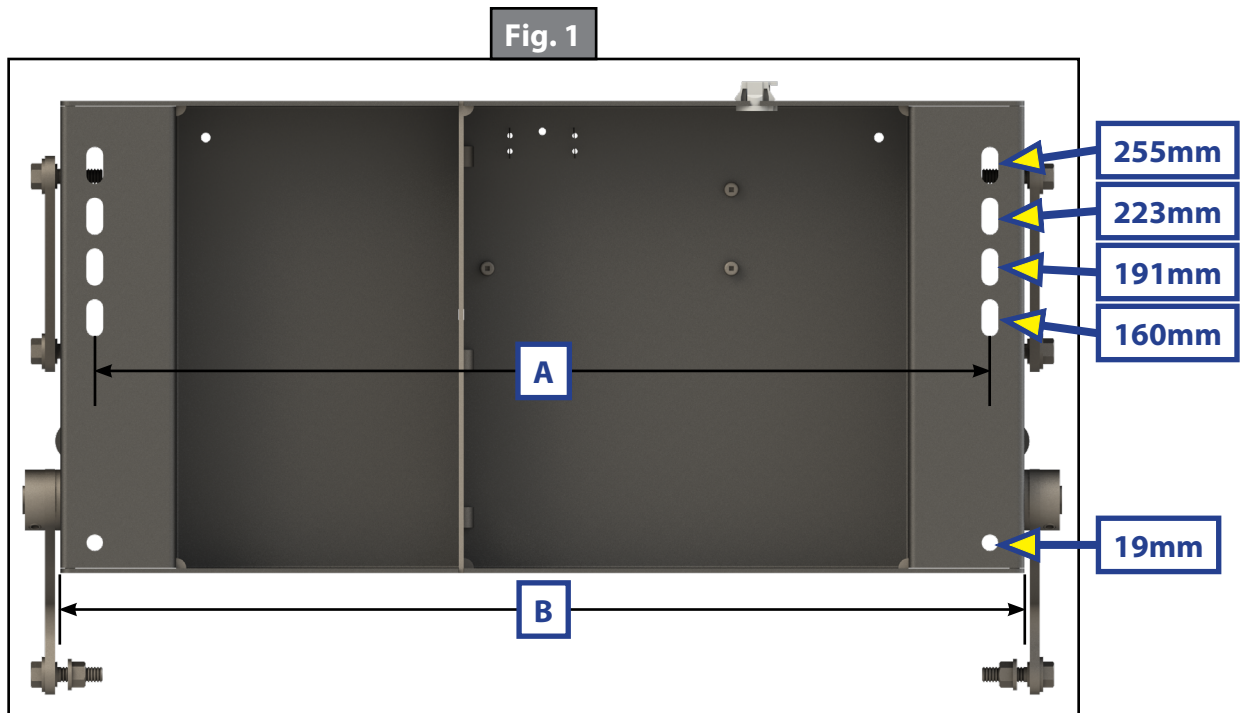
Preparation

Resources Required

- Cordless or electric drill or screw gun
- Socket and box end wrench
- 14 mm Socket
- Four M9.5-1.8 x 26 bolts, Gr2
- Four M9.5-1.8 flange nuts, Gr2
- Dry silicone spray lubricant
- Automotive primer paint
- Matching high gloss automotive paint

Installation

1. Verify the location and squareness of the steps against the provided structure.
2. Align the holes in the step (Figs. 1 and 2) with holes in the structure.
 - A. Insert two bolts and flange lock nuts per side.
 - B. Tighten until snug to allow for adjustments.
 - C. Re-verify squareness, then tighten the bolts to 27.12 Nm of torque.



Measurement	610mm Step	762mm Step
Fig. 1A	559mm	724mm
Fig. 1B	602mm	767mm

Wiring Diagram

There are four operational inputs to the step controller consisting of:

- A door proximity switch input
- Hold/cycle step input
- Porch light input
- Ignition on input

Outputs are bi-directional motor drive current and 12V DC brake release.

Porch Light

This input can be wired to a porch light switch. Any time the porch light is on, the step light will remain on (Fig. 2A).

Chassis Ground

This input connects to the chassis' ground (Fig. 2B).

Door Proximity Switch

Each time the door is opened, this input (wired to a step proximity switch) extends the step. When the door is closed, the step retracts (Fig. 2C).

Hold/Cycle Input

This is wired to a switch which is in turn wired to 12V DC. When the switch is Closed (Cycle), the step extends and retracts each time the door is open or closed. When moved to the Open (Hold) position, the step will remain extended until the switch is once again closed, or the ignition switch is turned on with the door closed (Fig. 2D).

Ignition On

This input is wired to the vehicle ignition system so when the ignition is turned on, and the vehicle door is closed, an extended step will retract, regardless of the position of the Hold/Cycle switch (Fig. 2E).

12V DC

This input connects to 12V DC power supply (Fig. 2F).

LED Wire (Factory Pre-Wired)

This input is wired to the step LED lights (Fig. 2G).

Motor Brake (Factory Pre-Wired)

This input plugs into the step motor brake (Fig. 1H).

Motor Plug (Factory Pre-Wired)

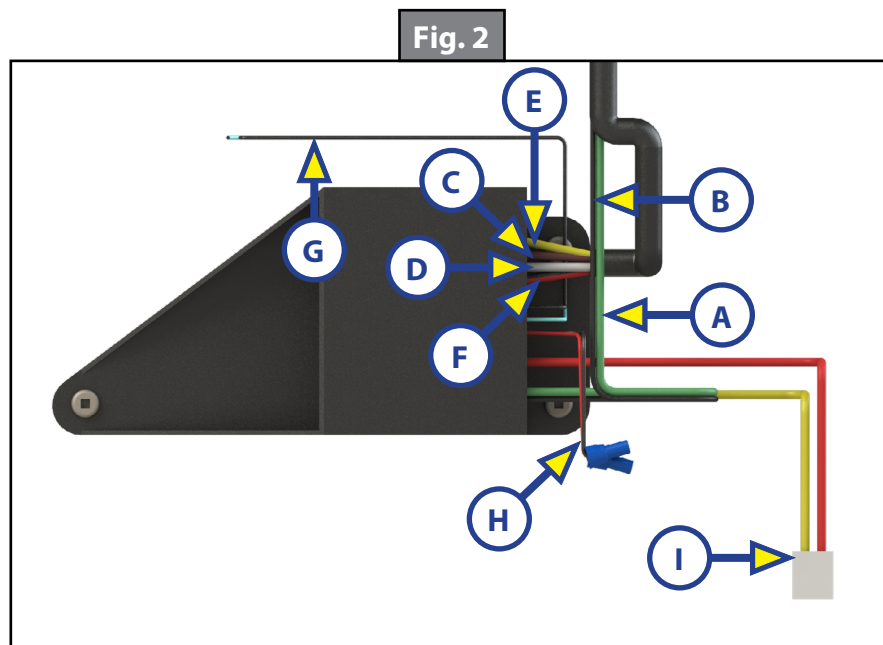
This input connects to the step motor (Fig. 2I).

Safety Shut Off

The step shuts off at the end of an extension or retraction cycle by sensing the spike in motor current. Such a spike will also occur, and the motor will shut off, if the step encounters an obstruction; rock, tree, person, etc. The step can then be retracted and the obstruction cleared.

Operating Current Draw

- 2.5 - 3.0 Amps extending
- 2.8 - 3.5 Amps retracting
- 6 - 8 Amps spike current on start up
- 11 - 12 Amps spike current on shut off



Post-Install Inspection

Scratches

1. Clear any chipped paint or material adhering to scratched areas.
2. Apply automotive grade primer to scratches.
3. Paint primed area with matching automotive high gloss paint.

Lubrication

1. Remove all dirt and foreign matter from hinge areas.
2. Use a dry silicone lubricant to lubricate hinge areas in between the sheet metal portions of the steps.

NOTE: Do not use a wet lubricant. Wet lubricants will attract dirt and possibly cause damage to the hinge areas.



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