



GATE DEFENDER
OEM INSTALLATION MANUAL

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Introduction

This document provides the information for the installation of the Gate Defender. The stroke for the Gate Defender is 18" and the load is 750 lbs.

Note: Images used in this document are for reference only when assembling, installing and/or operating this product. Actual appearance of provided and/or purchased parts and assemblies may differ.

Safety

Read and understand all instructions before installing or operating this product. Adhere to all safety labels.

This manual provides general instructions. Many variables can change the circumstances of the instructions, i.e., the degree of difficulty, operation and ability of the individual performing the instructions. This manual cannot begin to plot out instructions for every possibility, but provides the general instructions, as necessary, for effectively interfacing with the device, product or system. Failure to correctly follow the provided instructions may result in death, serious personal injury, severe product and/or property damage, including voiding of the Lippert limited warranty.

Note: The images in this manual are designed to illustrate the installation procedure only and may not represent the exact trailer being worked on. The appearance of some components may vary from trailer to trailer.

WARNING

The "WARNING" symbol above is a sign that a 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

Failure to follow instructions provided in this manual may result in death, serious personal injury and/or severe product and property damage, including voiding of the component warranty.

⚠ CAUTION

The “CAUTION” symbol above is a sign that a safety risk is involved and may cause personal injury and/or product or property damage if not safely adhered to and within the parameters set forth in this manual.

⚠ CAUTION

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

⚠ CAUTION

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

Resources Required

- Cordless or Electric Drill or Screw Gun
- Appropriate Drive Bits
- 9/16" Combination Wrench
- Torque Wrench

Installation

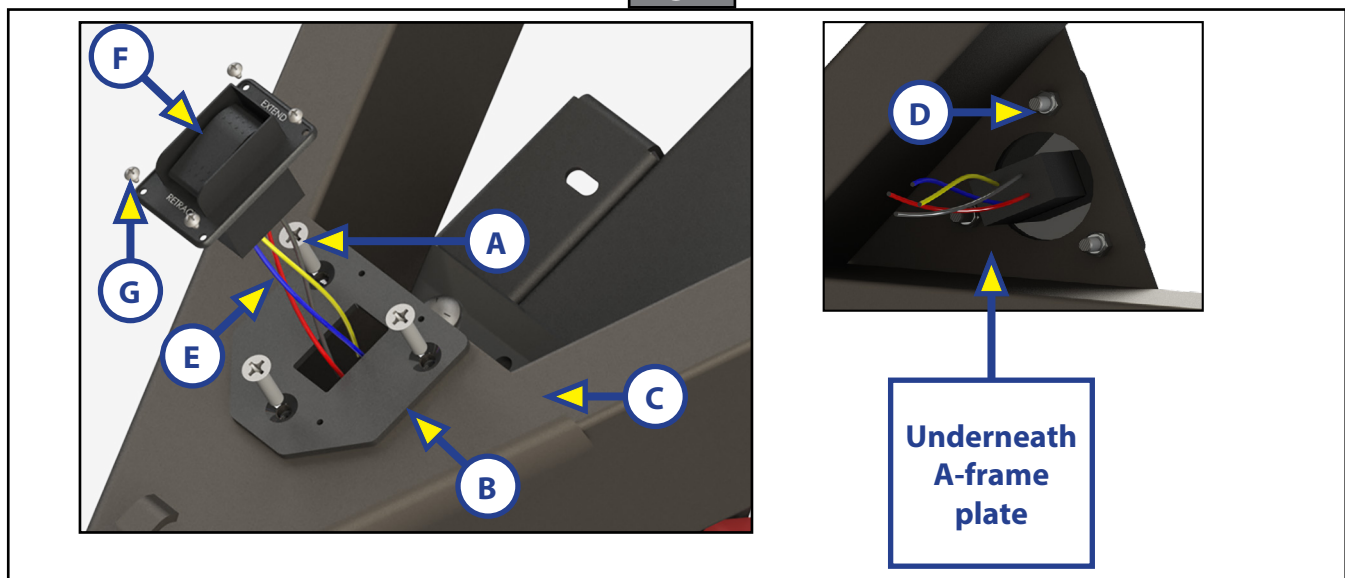
Switch Plate and Switch

1. Insert three provided screws (Fig. 1A) through the switch plate (Fig. 1B) and the A-frame plate (Fig. 1C). Secure with three provided nuts (Fig. 1D) underneath the A-frame plate.
2. Route the switch wires (Fig. 1E) through the hole in the switch plate (Fig. 1B) and place the switch (Fig. 1F) flatly on top of the switch plate (Fig. 1B).
3. Secure the switch (Fig. 1F) with four screws (Fig. 1G) to the switch plate (Fig. 1B).

⚠ NOTICE

All electrical wiring harnesses shall be loomed and secured to prevent possible damage and installed in accordance with RVIA electrical standards.

Fig. 1



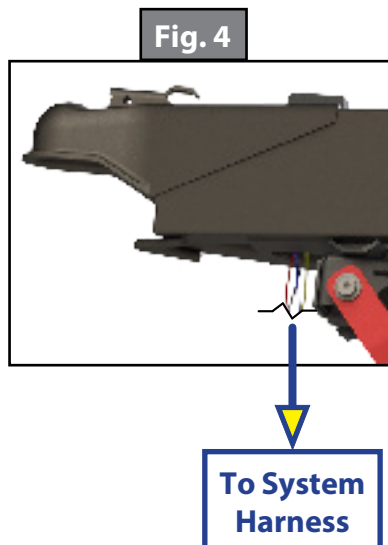
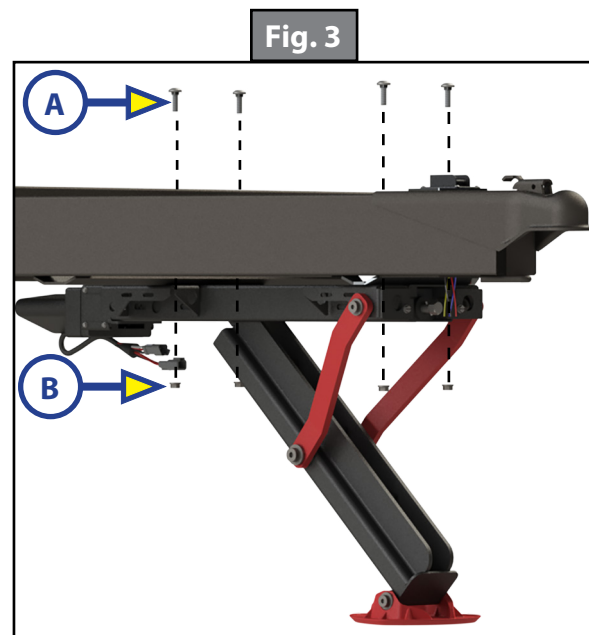
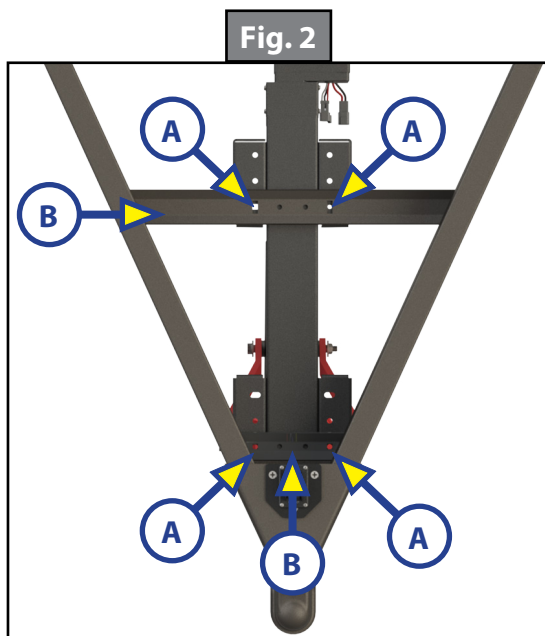
⚠ WARNING

The trailer **MUST** be supported per manufacturer's recommendations before working underneath.
Failure to do so may result in death or serious injury.

Gate Defender

1. Align the jack assembly mounting holes (Fig. 2A) with the holes on the mounting bracket assembly (Fig. 2B).
2. Insert four 3/8" - 16 x 1-1/4" bolts provided (Fig. 3A) through each set of aligned mounting holes.
3. Secure the bolts with a 3/8" - 16" provided nut. Tighten to 23 ft-lbs (Fig 3B).
4. System harness will be connected from Gate Defender motor wires (Fig. 4) to OEM configured power system.

Note: Lippert recommends zip tying the wire harnesses tight against the mounting bar to prevent damage to the wire harnesses.



Note: System Harness contains 21 Amp manual reset breaker for main power

Basic Jack Operation

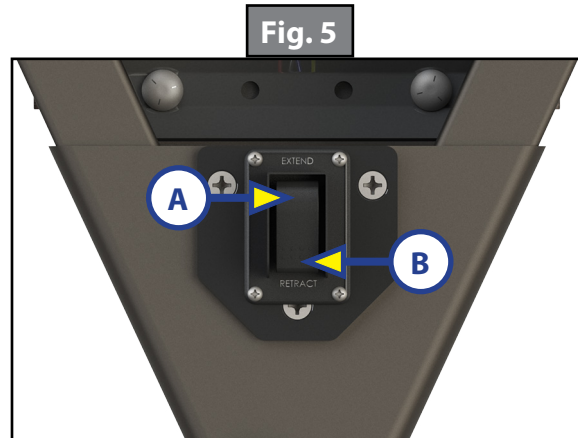
⚠ WARNING

Be sure to park the trailer on solid and level ground. Prior to operation, clear all jack landing locations of debris and obstructions. The locations should also be free of surface depressions and moisture. When parking on extremely soft surfaces, utilize load distribution pads under each jack.

Note: The Gate Defender is designed for vertical movement of the trailer only.

Unhitching from Tow Vehicle

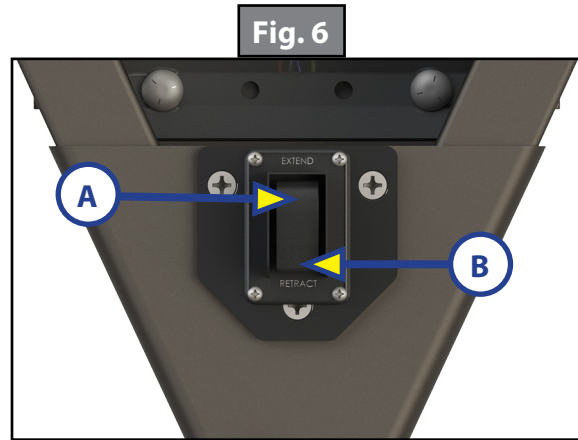
1. Chock the tires of the trailer.
2. Make sure the ground surface under the Gate Defender tongue jack is firm and level.
3. Push EXT (Fig. 5A) to extend the Gate Defender tongue jack until the footpad touches the ground and the coupler clears the hitch ball.



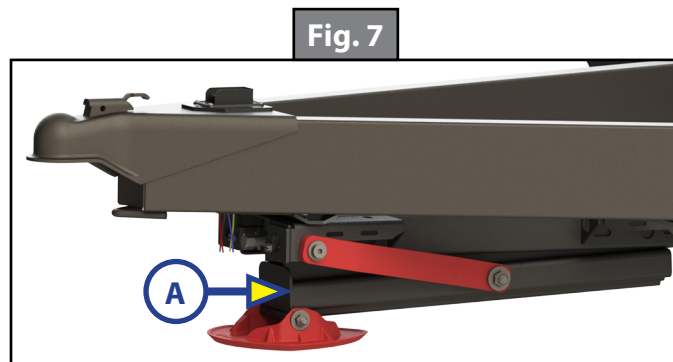
4. Disconnect all electrical and mechanical connections between the trailer and tow vehicle.
5. Move the tow vehicle away from the trailer.
6. Push RET (Fig. 5B) as needed to return the front of the trailer to level.

Hitching To Tow Vehicle

1. Chock the tires of the trailer.
2. Press "EXT" (Fig. 6B) if needed to allow the coupler to clear the hitch ball.
3. Push "RET" (Fig. 6A) to retract the Gate Defender jack until the coupler properly mounts the hitch ball and the leg of the Gate Defender jack is fully retracted.
4. Latch the tow vehicle and connect any wires, chains or sway control that may be equipped between the tow vehicle and trailer.



Note: Make sure the leg of the Gate Defender tongue jack (Fig. 7A) is fully retracted prior to moving the tow vehicle.



Troubleshooting

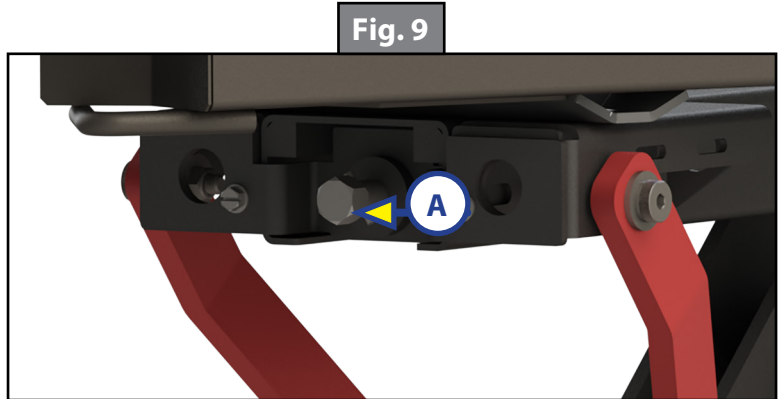
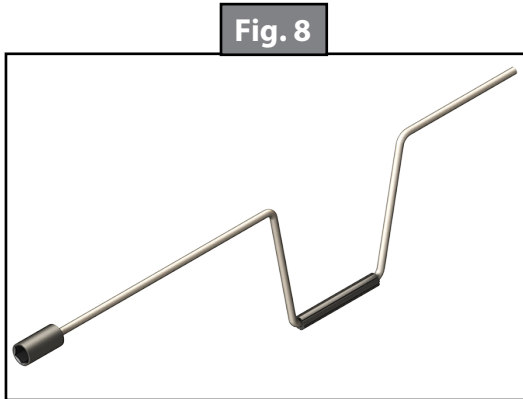
Manual Override

Note: Use of a 12-18 volt cordless screw gun or pneumatic screw gun is acceptable to manually override the jack. Do not use an impact screw gun to perform any of the override procedures, as this may damage the motor. If manual override is necessary there are two options:

Gate Defender Manual Override Nut:

Tools needed: Manual crank handle (Fig. 8) OR 3/4" socket and ratchet.

1. Locate the manual override nut (Fig. 9A).
2. Place socket end of manual crank handle OR 3/4" socket and ratchet over the manual override nut (Fig. 9A) and turn the override nut until the jack extends or retracts to desired position.



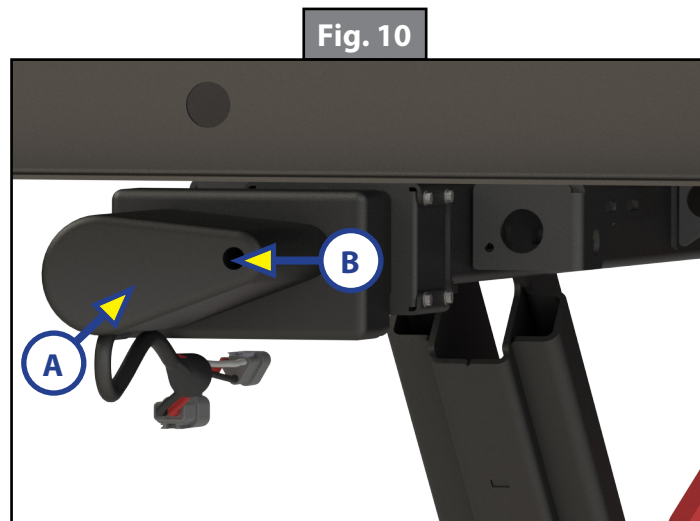
Gate Defender Motor Override Port:

Tools needed: 3/8" ratchet with a minimum 6" extension.

1. Find the port on the back side of the Gate Defender motor cover (Fig. 10A).
2. Remove the rubber plug (Fig. 10B).
3. Insert the extension and ratchet into the port.

Note: The square drive end of the extension needs to engage with the square receptacle on the gearbox. The extension might need to be twisted back and forth slightly while pushing in to make the engagement.

4. Turn the override until the jack extends or retracts to desired position.





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