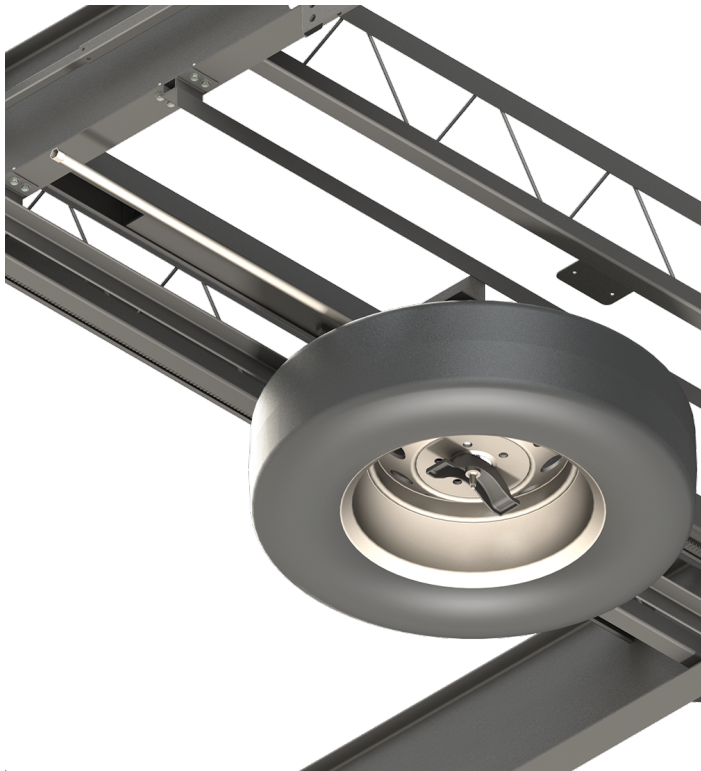




# Spare Tire Carriers

## Installation and Owner's Manual

(For Aftermarket Applications)

### Spare Tire Carrier Aftermarket Kits

| Part #                 | Description                                                                                                                            |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| <a href="#">146384</a> | 69" overall width tire carrier with offset winch and 35.5" extension                                                                   |
| <a href="#">159041</a> | 71" overall width tire carrier with offset winch and 35.5" extension                                                                   |
| <a href="#">216793</a> | 77" overall width tire carrier with offset winch and 35.5" extension; also has Part # <a href="#">285324</a> scissor jack crank handle |

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## Introduction

The spare tire carrier is attached to the underside of a trailer chassis and features a winch to raise and hold the spare tire in the stowed position.

A winch extension is turned using a manual crank handle or a hand wrench to raise the tire in the stowed position and to lower it for use. The spare tire carrier has a maximum weight rating of 150 pounds.

Additional information about this product can be obtained from [lci1.com/support](http://lci1.com/support) or by using the LippertNOW app. Replacement kits can be ordered from <https://store.lci1.com/> or by using the LippertNOW app.

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## Safety

### ⚠ WARNING

THE "WARNING" SYMBOL ABOVE IS A SIGN THAT AN INSTALLATION PROCEDURE HAS A SAFETY RISK INVOLVED AND MAY CAUSE DEATH, SERIOUS PERSONAL INJURY OR SEVERE PRODUCT OR PROPERTY DAMAGE IF NOT PERFORMED SAFELY AND WITHIN THE PARAMETERS SET FORTH IN THIS MANUAL.

### ⚠ WARNING

THE TRAILER MUST BE SUPPORTED PER MANUFACTURER'S RECOMMENDATIONS BEFORE WORKING UNDERNEATH. FAILURE TO DO SO MAY RESULT IN DEATH, SERIOUS PERSONAL INJURY OR SEVERE PRODUCT OR PROPERTY DAMAGE.

### ⚠ CAUTION

MOVING PARTS CAN PINCH, CRUSH OR CUT. KEEP CLEAR AND USE CAUTION.

## Parts List

### Spare Tire Carrier Aftermarket Kit Part # 146384

| Letter | Part #                 | Description                | Qty |
|--------|------------------------|----------------------------|-----|
| A      | <a href="#">146384</a> | 69-inch spare tire carrier | 1   |

### Spare Tire Carrier Aftermarket Kit Part # 159041

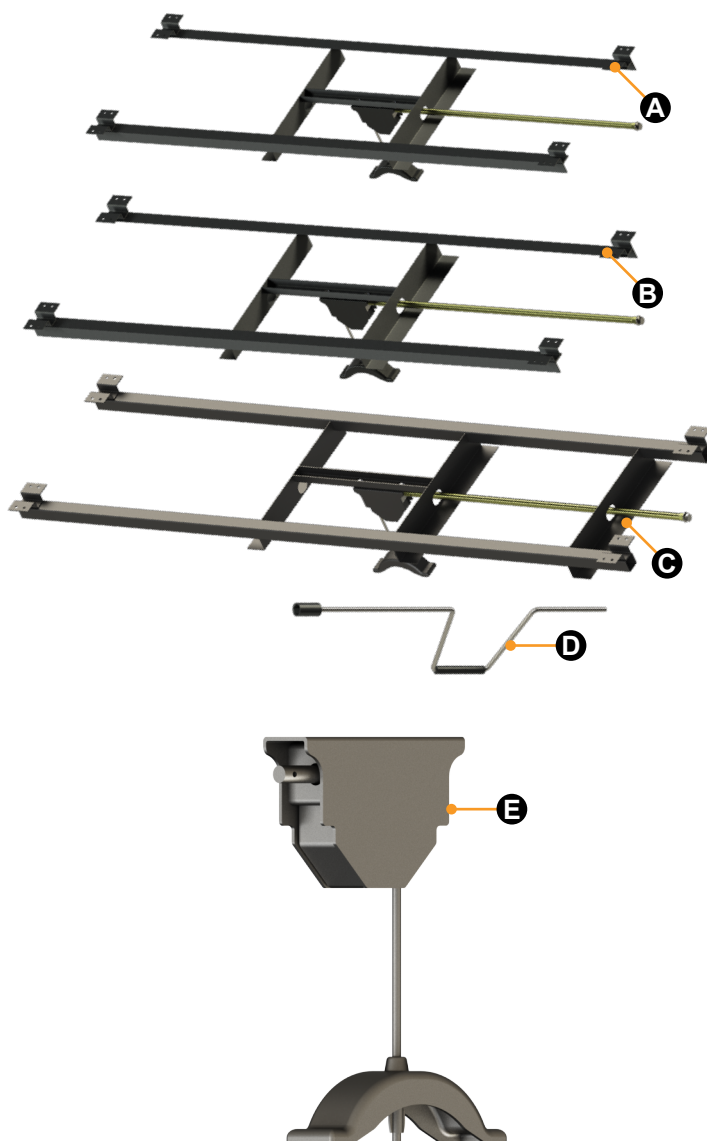
| Letter | Part #                 | Description                | Qty |
|--------|------------------------|----------------------------|-----|
| B      | <a href="#">159041</a> | 71-inch spare tire carrier | 1   |

### Spare Tire Carrier Aftermarket Kit Part # 216793

| Letter | Part #                 | Description                | Qty |
|--------|------------------------|----------------------------|-----|
| C      | <a href="#">216793</a> | 77-inch spare tire carrier | 1   |
| D      | <a href="#">285324</a> | Scissor jack crank handle  | 1   |

## Replacement Parts

| Letter | Part #                 | Description                   | Qty |
|--------|------------------------|-------------------------------|-----|
| E      | <a href="#">159056</a> | Spare winch with offset cable | 1   |



## Resources Required

- Cordless or electric drill or screw gun
- Appropriate drive bits
- Appropriate drill bits
- Eight 5/16" x 3/4" self-drilling screws
- Eight 5/16" - 18 x 1" bolts Grade 5 minimum
- Eight nylon lock nuts
- 1/2" wrench
- Hand crank or socket wrench to turn winch



# Spare Tire Carriers

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## Installation

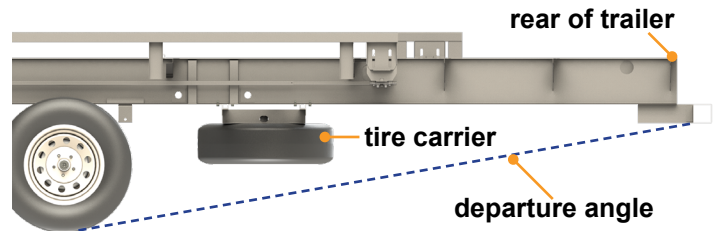
**NOTE:** For safety reasons, Lippert recommends curbside installation of the tire carrier so the winch extension is accessible from the curbside.

1. Determine location for spare tire carrier to permit curbside access to the winch extension. The carrier can be located behind the rear jacks of the trailer but must remain within the departure angle of the trailer (**Fig. 1**).

**NOTE:** To measure departure angle, run a string line from the meeting point of the tire and ground up to the lowest point on the rear of the trailer — shown in **Fig. 1** as a dotted line.

2. Peel back the underbelly material to make sure there are no electrical, gas, hydraulic or sewage lines that will be damaged by the spare tire carrier installation. Move the mounting location or relocate the underbelly components if there are conflicts with the installation.

3. Use a non-permanent marker to mark the locations on



**Fig.1**

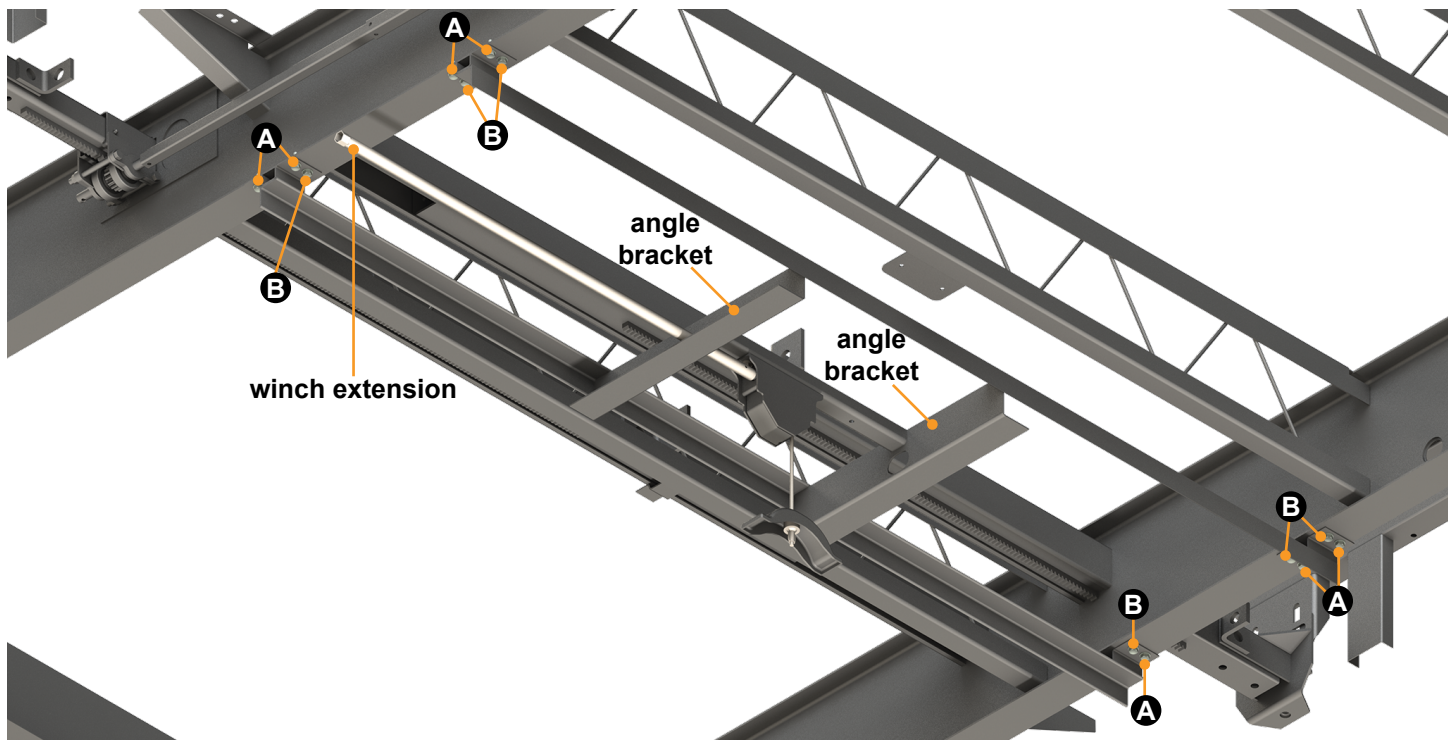
the I-beam where the self-drilling screws will be installed.

4. Replace underbelly material.

5. Using a total of eight  $\frac{5}{16}$ " x  $\frac{3}{4}$ " self-drilling screws, attach the carrier to the underside of the chassis rails utilizing the inner holes of the brackets (**Fig. 2B**). Make sure the winch extension is visible underneath the main rails.

6. Drill  $\frac{11}{32}$ " mounting holes for bolts using the outer holes of the brackets for a guide (**Fig. 2A**).

7. Insert eight  $\frac{5}{16}$ " - 18 x 1" bolts in the outer holes of the brackets, and securely fasten with nylon lock nuts.



**Fig.2**



# Spare Tire Carriers

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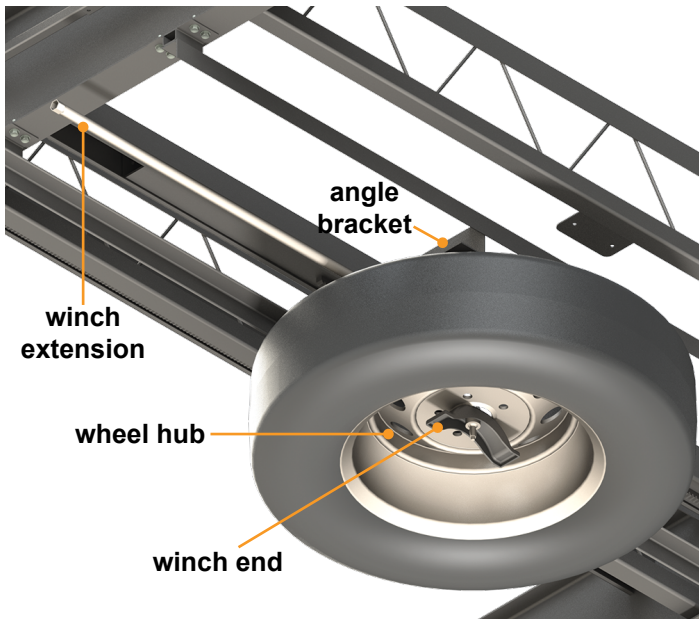


Fig.3

## Operation

### ⚠ CAUTION

DO NOT USE A POWER DRILL OR IMPACT WRENCH TO OPERATE THE WINCH EXTENSION. DO NOT CONTINUE TO ROTATE THE WINCH EXTENSION AFTER THE TIRE IS IN ITS PROPER POSITION. USE OF POWER TOOLS AND OVEREXTENSION OF THE WINCH CAN DAMAGE THE WINCH OR ITS CABLE, WHICH COULD RESULT IN THE SPARE TIRE DROPPING AWAY FROM ITS STOWED POSITION. A DROPPED TIRE CAN CAUSE DAMAGE TO THE TIRE, TIRE CARRIER AND/OR THE TRAILER.

#### Initial Tire Carrier Procedure

1. Using a scissor jack crank handle or a  $\frac{3}{4}$ " socket or wrench applied to the end of the winch extension (**Fig. 3**), unwind the winch cable by turning the winch extension counterclockwise until the winch end is on the ground. See following procedure To Stow Tire.

#### To Remove Tire

1. Using a crank handle or a  $\frac{3}{4}$ " socket or wrench applied to the end of the winch extension (**Fig. 3**), unwind the winch cable by turning the winch extension counterclockwise until the tire is on the ground.

2. Remove winch end from tire.

#### To Stow Tire

1. Place the tire underneath the spare tire carrier and thread the end of the winch inside the wheel hub opening and tire rim. (**Fig. 3**).

2. Use a crank handle or a socket wrench to turn the winch extension (**Figs. 2 and 3**) clockwise to increase tension against the wheel hub, and then raise the spare tire to the stow position.

**NOTE:** The spare tire must be raised high enough so the tire's sidewall firmly contacts the two angle brackets on the carrier and is torqued to a minimum of 300 in-lbs (25 ft-lbs) (**Figs. 2 and 3**).



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Follow proper safety practices. If in doubt, consult a professional RV technician.