# SpinLock Operation and Maintenance

*Left: 101163 - SpinLock with 101179-Ramp and 101144-Riser.*
*Center: 101163-SpinLock with 101171-Riser.*
*Right: 101163-SpinLock*



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# INSTALLATION & OVERVIEW

The installation of the SpinLock requires thought and planning. Easy access for the cyclist to embark and disembark with minimal disturbance to other passengers and efficient placement of bicycle are all issues to consider including:

- Rack Height
- Ceiling Height
- Aisle Clearance
- Rack Spacing/Stagger

Please review the *SpinLock Generic Layout* document at www.sportworks.com/product/spinlock to understand recommended space requirements. Carefully read and understand the following information regarding the positioning of the rack in coach or car before beginning the installation process.

## Risers and ramps

Vertically staggering adjacent SpinLocks will help reduce the rack-to-rack spacing and increase bike density. The SpinLock can be paired with risers of different heights to accomplish this vertical stagger. For the tallest riser a ramp is available to help users roll their bike into the rack instead of lifting. Please see the *SpinLock Generic Layout* document at www.sportworks.com/product/spinlock for more information on how these parts can be used in different layouts.

## Rack Height, Ceiling Height

The SpinLock is well suited for height-constrained areas as the bicycle is kept mostly horizontal. The rack height and necessary ceiling height will depend on the risers. Please see the *SpinLock Generic Layout* and the *SpinLock Dimensions* document at www.sportworks.com/product/spinlock for more information on space requirements and rack dimensions.

## Installation Angle, Aisle Clearance, Spacing

The SpinLock can be installed either perpendicular to a wall or at an angle. Typical recommended rack-to-rack spacing varies depending on the installation angle and amount of vertical stagger, but can be as high as 24” to accommodate wide, flat handlebars. To increase density, adjacent SpinLocks can be staggered vertically using risers of different heights. This can reduce the rack-to-rack spacing to about 16”.

For more detailed information on space planning prior to installation, see the *SpinLock Generic Layout* document at www.sportworks.com/product/spinlock.

## Mounting the SpinLock

The SpinLock can be bolted directly to the floor, or if a riser is used, the SpinLock will directly bolt to the riser, which will directly bolt to the floor. Risers share the same mounting hole pattern as the SpinLock.

## General Torque Specs

The SpinLock is installed to either a riser or the floor with 18-8 SS 5/16-18 PHCS.

Recommended torque values are:
For 5/16-18 = 132 IN-LB (15 Nm)

# OPERATION OF THE SPINLOCK

## Loading Bikes

When used properly the SpinLock is quick and easy to load.

1. Simply roll the bike into the ratcheting wheel support.
2. The rear of the bike can then be positioned as desired.

## Unloading Bikes

Users should wait until the coach or car has come to a stop.

1. Push on the wheel loop to release the tire.
2. Roll bike out of rack.

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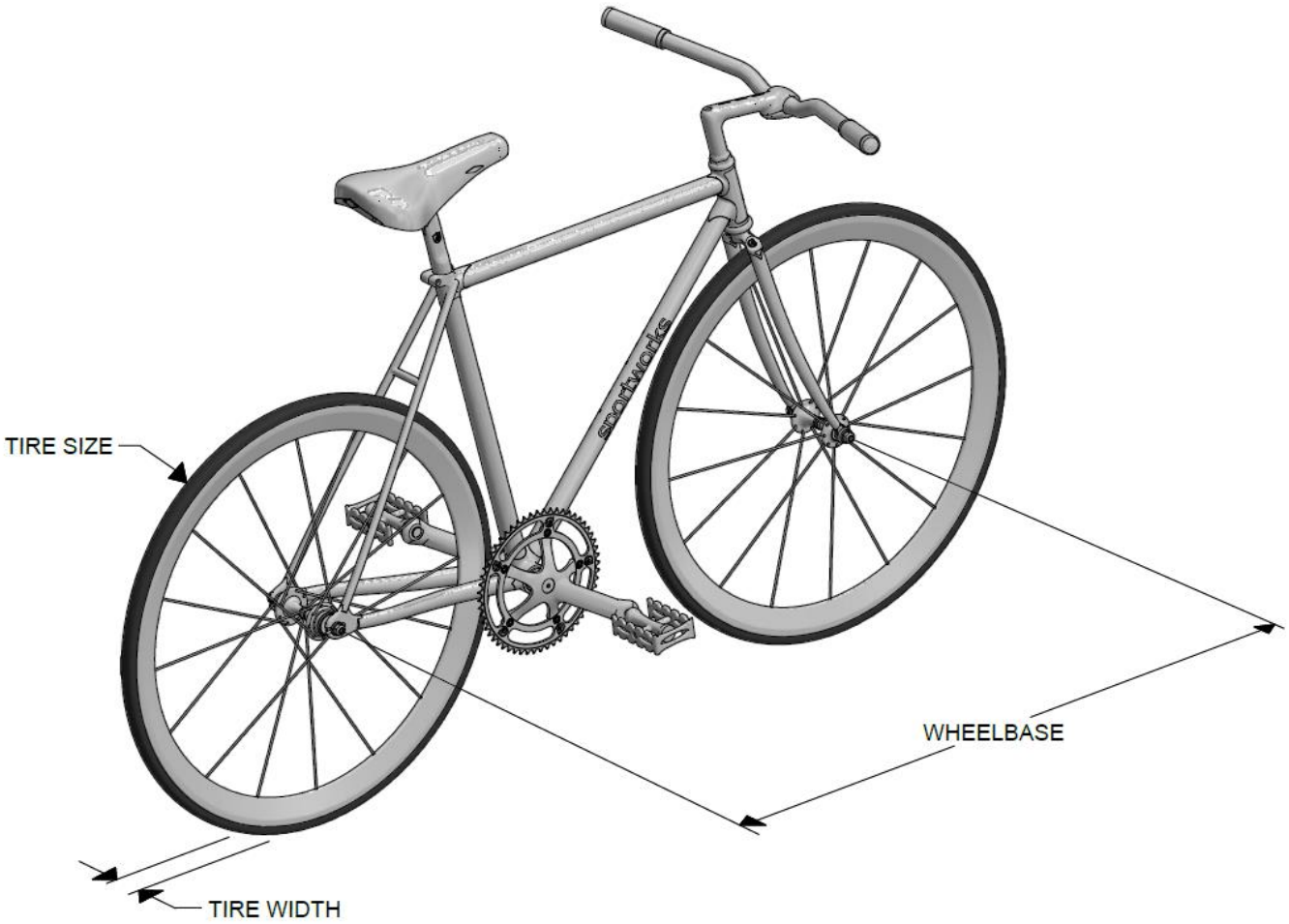
## Compatible Bike Dimensions and Weight

To ensure safe bicycle fit within the SpinLock bike rack, each bicycle must comply with the following:

- Wheelbase (max): Unlimited, to be determined by installation
- Tire width: (max): 2.75in
- Tire size (min-max): 16-29in (incl. 700c)



# VISUAL INSPECTION

## SpinLock Bike Rack Visual Inspection

The SpinLock does not require any periodic maintenance, however to ensure the bike rack has not been damaged and that it is working properly a periodic inspection is recommended. The following quick visual inspection will ensure an operable interior bike rack. Use this page as an inspection sheet for your transit operators.

Examine the items below before operating your coach. If the SpinLock bike rack does not function properly, service it before putting it into operation.

1) _____√ RACK STOWS COMPLETELY – Replace gas spring if faulty.

2) _____√ RACK DEPLOYS COMPLETELY – Replace gas spring if faulty.

3) _____√ RATCHETING WHEEL FUNCTIONS PROPERLY – Rotate rubber wheel as if inserting a bike tire. Ratchet mechanism should click in one direction and block rotation in the opposite direction. Replace latch mechanism if problems.

## SpinLock Bike Rack Visual Inspection Schematic

# DOCUMENT REVISION HISTORY

12/30/2020 – Initial release
09/27/2021 – Added Compatible Bike Dimensions and Weight section
06/03/2022 - Update to Compatible Bike Dimensions

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