



# Quick Release instructions

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BOB is a company that produces high quality products, which encourage a healthy, outdoor, car-free lifestyle. In addition to trailers, we also make full suspension jogging strollers. See www.bobgear.com for our complete line of products.

## ⚠ WARNINGS ⚠

- BOB trailers can be attached to bicycles with wheel sizes between 20" and 28". Please see the Trailer/Bike Compatibility chart at the end of your trailer manual to determine which trailer is compatible with your bike. If you have questions about your wheel diameters or trailer compatibility with your bicycle, consult your bicycle dealer or call us at BOB.
- Our trailers are intended to carry cargo only.
- Do not carry children or live animals.
- Cargo capacity: 70 pounds (32 kilograms)
- BOB QR must be correctly sized to your specific bicycle to insure safe operation.
- SPEED LIMIT: 25 mph (40 kph) A bike with trailer attached, steers and feels different. Ride cautiously. Speed wobbles (and loss of control) can occur if speed limit is exceeded.
- Some variables that can affect the control of your bike and trailer: improper installation of BOB QR / improper installation of trailer fork retaining pins / improper installation of trailer fork to YAK & IBEX frame / road conditions / wind speed and direction / cyclist's skill level / weight of rider relative to the amount of weight in trailer / center of gravity of cargo / integrity of all wheels (proper spoke tension and bearing adjustment)

## BOB QR MODELS

QR Model	A Rod Length	B Threaded Length	C Dropout Inside Dimension	D Allowable Dropout Outside Dimension
BOB QR	165mm*	32mm	126.5 - 140mm**	140 - 156mm
BOB 145 QR	175mm*	35mm	145mm**	145 - 164mm
BOB Santana QR	190mm*	30mm	160mm**	165 - 180mm

\*Measurement is with QR lever in closed position

\*\*Dropout inside dimension (C) to measure the same as bicycle hub's axle over locknut dimension.

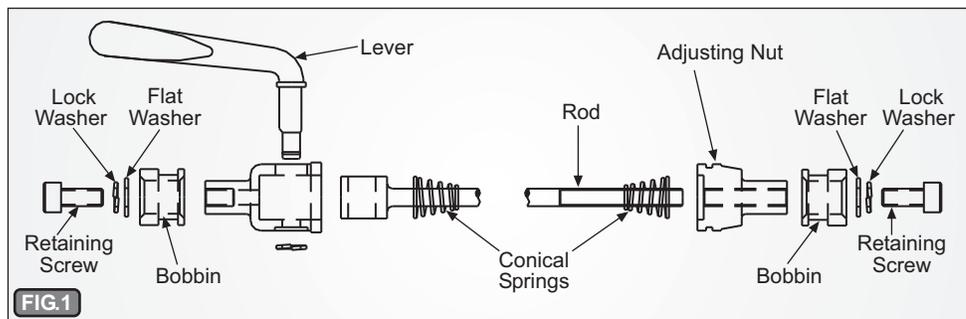


FIG.1

BOB QR Anatomy

## Installation

**IMPORTANT:** Bicycle manufacturers use a large variety of components and materials to build their bikes and the thickness of the rear wheel dropouts vary greatly. It is extremely important to have your BOB QR sized to the appropriate length and correctly installed on your bike. Please note the dropout inside dimension assumes that the dropouts are firmly pressed against the hub axle over locknuts, alleviating any gap between the two and allowing for an accurate measurement. The QR's primary role is to secure the rear wheel to your bike, and secondarily, it is the structural link between the bike and trailer. For a QR to work properly, the QR rod must extend past the dropout on the derailleur side by a minimum of 3/8 inch (10mm) and maximum of 3/4 inch (19mm). Fig. 1 shows the anatomy of the BOB Quick Release.

1) Remove the bike's rear QR. Remove the adjust nut and one conical spring from the BOB QR and install into the rear wheel axle hole on the non-derailleur side.

2) With the QR cam lever in the closed position (note that "CLOSE" is visible on the cam lever) push the quick release through the bike's rear axle until it contacts the bike frame dropout face.

3) Check for a minimum of 3/8 inch (10mm) and maximum 3/4 inch (19mm) of threaded rod extending past the drop out face, Fig. 2.

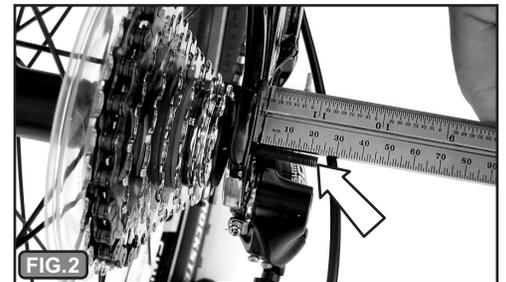


FIG.2

Measuring threaded QR rod extending past drop out face (QR must be in the closed position)

**IMPORTANT:** If the amount of rod extending past the dropout face is less than 10mm, you will need a longer quick release. Please consult the BOB Quick Release Model table to find the correct QR for your bike. If the amount of rod is greater than 19mm, see the next section: "TRIMMING THE BOB QR". If you do not understand this section, contact your local bike dealer or call BOB for help.

4) Install the 2nd conical spring onto the QR rod (small hole first) and then the adjust nut.

5) With the QR lever perpendicular (at a 90 degree angle) to the frame, Fig. 3, tighten the adjusting nut clockwise until it is snug against the dropout face.

6) Move the QR lever until "CLOSE" is visible on the lever, Fig. 4, and it is parallel to the frame.



FIG.3

QR lever perpendicular to drop out face

**IMPORTANT:** highest strength requires considerable pressure to close the QR lever when it is properly adjusted and tightened.

7) If you do not feel this resistance turn the quick release lever back to the adjusting position (Fig. 3) and tighten the QR adjust nut by hand (no tool necessary) one or two more turns in the clockwise direction. Proper adjustment requires 80 to 105 inch - pounds of torque to move the lever to the fully "CLOSED" position.



FIG.4

QR lever closed

**IMPORTANT:** If your QR rod measurement (see above section, step "3") exceeds 3/4 inch (19mm), proceed with the following:

## TRIMMING The BOB QR

If your measurement is 25 mm (for example), subtract 19 mm (max. length) to determine length of rod to be cut. (25 - 19 = 6mm.) As a general rule, it is recommended to maximize the length of the rod.

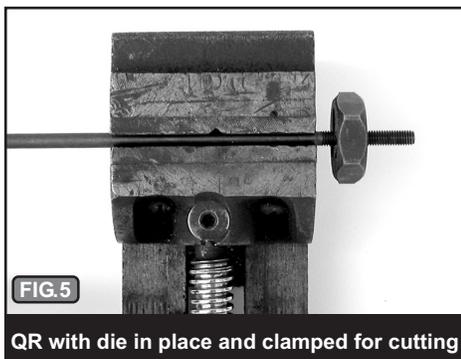
1) Thread a 5mm x .8mm nut or threading die onto the QR rod past the area to be cut. (after trimming the QR rod, the nut / die will clean up the threads when it is removed).

2) Clamp the QR rod in a vise, being careful not to damage the threads, **Fig. 5**.

3) Measure from the tip of the QR rod and cut the rod with a metal cutting saw.

4) Using a file, shape the end of the rod into a conical shape.

5) Remove the nut (or die) and verify the QR rod has been cut to the proper length by repeating steps 2 and 3 in the previous section then complete QR installation by following steps 4 through 7 in previous section.



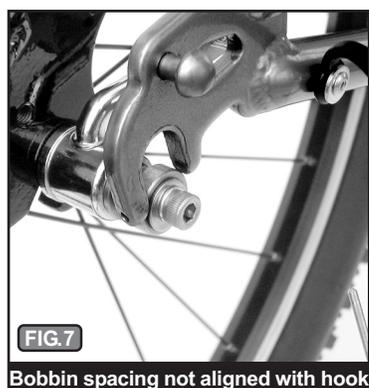
Now that the BOB QR is installed, attach the trailer to the bike. To do this correctly, follow the steps below:

## ⚠ Caution ⚠

Attach and detach the trailer **ONLY** when it is in a straight line with the bike. You can bend the fork otherwise. It is easiest to attach and detach trailer when it is unloaded.

## trailer attachment

1) The stainless steel pivoting BOBBINS on the quick release skewer are asymmetrical as shown in **Fig. 1**. This asymmetrical design allows the BOBBINS to be reversed, allowing for a variance of approximately 13mm in outside dimensional span of the bike's dropouts.



2) With the bike stabilized and the trailer unloaded, check the fit between the fork hooks and the slots of the BOBBINS. It is easiest to do this with the bike in the upright-position and trailer straight behind the bike. Stand on the left side of the bike facing towards the trailer. Allow the bike seat to rest against your hip. Bend at the hips and lift trailer with both hands, **Fig. 6**, and place the fork hooks on the quick release BOBBINS. If the hooks do not fit into the BOBBIN



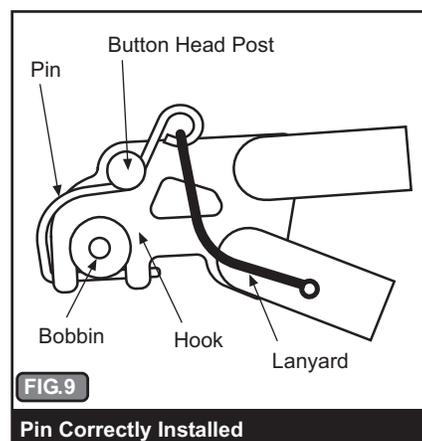
slots by slightly expanding or compressing the fork, it will be necessary to reverse the BOBBINS. **Fig. 7** shows a situation where the hooks do not fit easily and the BOBBINS need to be reversed.

3) With the quick release installed, and using a 4mm Allen wrench, remove the BOBBIN retaining screws, **Fig. 1**, on both the left and right sides. Remove the BOBBINS and reverse them noting the position of the lock and flat washers.

4) With the BOBBINS reversed, reinstall the retaining screws and lock washers. Tighten the retaining screws securely.

5) Attach the trailer by aligning the slots of the BOBBINS with the slots in the fork hooks. **Fig. 8** shows the fork hooks correctly installed on the BOBBINS.

6) With the trailer hooks placed on the bobbins, insert the pin in the hole in the front edge of the hook. Slide the pin under the bobbin and into the hole in the back edge of the hook. Rotate the pin up, toward the button head post on the hook. To secure the pin, it is necessary to press it downward and toward the hook. When properly installed, the pin fits between the hook and the head on the button head post, as shown in **Fig. 9**. The rubber lanyard retains the pin when not installed.



**IMPORTANT:** The pins are CRITICAL to keeping the trailer attached to the BOB Quick Release. Inspect pins for proper installation every time you ride. Incorrectly installed pins can allow the trailer to detach from the bicycle and cause a severe accident. Please see your dealer or call BOB if you do not understand the pin installation procedure.

## Limited warranty

BOB Trailers Inc. takes pride in its workmanship and strives to manufacture the best products possible. Therefore, we warranty our BOB QR against defects in material and workmanship subject to the conditions listed below. Since no product is indestructible, it does not cover defects attributable to or resulting from normal wear, abuse or alteration.

- Components are warranted for one year.
- Warranty is only valid for the original purchaser.
- Proof of purchase is required to exercise this warranty.
- Labor and transportation are not included.
- Normal wear, neglect, abuse, accidents, improper assembly or maintenance, or the installation of parts or accessories not compatible with the original intended use of the trailer, as sold, are not covered by this warranty.
- Warranty claims must be made through an authorized dealer.
- This warranty is limited to the replacement of the defective part. BOB Trailers shall in no event be responsible for consequential or special damages.
- This limited warranty is the only express or implied warranty applicable to BOB Trailers. Any implied warranties, including warranties of merchantability and fitness shall be limited in scope and duration in accordance with this limited warranty.