



BOB NUTZ - INSTRUCTIONS

ENGLISH

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

⚠ WARNING ⚠

BOB Trailers can be attached to most bicycles with wheel sizes between 20" and 29". 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 contact BOB.

- Our trailers are intended to carry cargo only.
- Do not carry children or live animals.
- Cargo capacity: 70 pounds (32 kilograms)
- BOB Nutz 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. The bike and trailer should not be ridden at a speed greater than is reasonable and prudent under the conditions and having regard to the actual and potential hazards then existing.
- Some variables that can affect the control of your bike and trailer: improper installation of BOB Nutz / improper installation of the Pin (shown in FIG. 7) which holds the Trailer to the BOB Nutz / 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 NUTZ MODELS

Non IGH BOB Nutz have special Identification Grooves (FIG. 1a) that correspond to the axle size for each particular BOB nut (Table 1). FIG. 1a and 1b also show the anatomy of BOB Nutz which will assist you during the installation process.

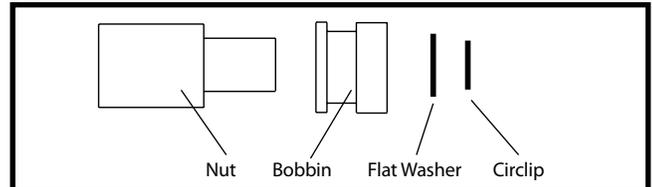
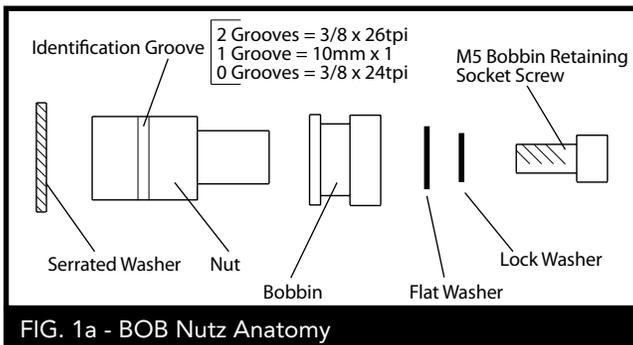


FIG. 1b - BOB Nutz Anatomy - IGH (Internal Gear Hub)

	Model	Axle Diameter	Thread Pitch	Common Applications
FIG. 1a	3/8 x 24	3/8"	24 tpi	Single speed coaster brake hubs
	3/8 x 26	3/8"	26 tpi	Shimano Nexus 4 and 7 speeds, Shimano 3 speed coaster brakes, English & Japanese solid axle.
	10 x 1	10 mm	1mm	ISO and Japanese solid axles
FIG. 1b	IGH*	10.5 mm	1mm	Sachs multi-speed hubs with indicator chain shifting
		13/32"	26 tpi	Stutmeier Archer multi-speed hubs with indicator chain shifting

*IGH should be installed using manufacturers parts and maintain correct axle length.

INSTALL BOB NUTZ

Before attempting to attach or use your new trailer, please read and understand these instructions completely to ensure proper assembly and operation. If you are unclear on any point, contact your dealer or BOB before use.

1) Measure Exposed Axle Length

With the bike dropouts fully compressed against the axle lock nuts, measure the length of exposed axle from the outer face of the dropout to the end of the axle (See FIG. 2). The exposed axle length should be between the minimum and maximum values on Table 2. Repeat this process on both sides of the axle.

⚠ WARNING Please see your local bike shop or contact BOB if you are unclear or cannot take this measurement accurately.

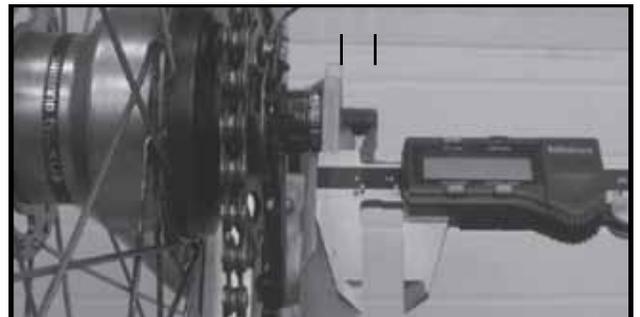


FIG. 2 - Measure Axle Length

Product	Minimum Axle Length Inches (mm)	Maximum Axle Length Inches (mm)
BOB Nutz 3/8 x 24 tpi	3/8" (9.5 mm)	7/8" (22.2 mm)
BOB Nutz 3/8 x 26 tpi	3/8" (9.5 mm)	9/16" (14.3 mm)
BOB Nutz IGH	9/32" (7.1 mm)	15/32" (11.9 mm)
BOB Nutz 10 x 1	3/8" (9.5 mm)	9/16" (14.3 mm)

⚠ WARNING If you find that the axle length on either side does not fall between the minimum and maximum values, do not continue the installation and see your local bike shop or contact BOB.

Axle Thread Specification	Overdrop Dimension Range	
	Inches	Millimeters
3/8 x 24	4-1/2" to 5-3/32"	(114 mm - 129 mm)
3/8 x 26	5-5/16" to 5-7/8"	(135 mm - 149 mm)
10 mm x 1	5-5/16" to 5-7/8"	(135 mm - 149 mm)
13/32 x 26 or 10.5 x 1 mm	4-7/16" to 5"	(113 mm - 127 mm)

2) Wheel Overdrop

BOB Nutz are designed to work with bicycles having rear wheel Overdrop Dimension Ranges listed in Table 3.

a. To determine your frame's Overdrop Dimension, measure the outside dimension of the rear wheel dropouts using a tape measure, ruler or a pair of calipers as shown in FIG. 3.



FIG. 3 - Measuring Overdrop

The Overdrop Dimension must fall in the range listed in Table 3.

3) Threading Instructions

a. For IGH models skip to step C.

b. Place the Serrated Washers provided with BOB Nutz over the axle.

c. Thread on both BOB Nutz in a clockwise direction and tighten simultaneously to 20-25 ft-lbs (27-34 N-m) of torque. If there is difficulty, double check to ensure the axle is clean, that you have the proper size BOB Nutz, and you have not crossed threaded them.

Now that the BOB Nutz are installed, you are ready to attach the trailer to the bike.

⚠ CAUTION Attach and detach the trailer ONLY when it is in a straight line with the bike or you may bend the fork. It is easiest to attach and detach the trailer when it is unloaded.

CHECK BOBBIN SPACING

1) 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 non-drive side of the bike facing towards the trailer. Allow the bike seat to rest against

you. Bend at the hips and lift trailer with both hands, FIG. 4, and place the Fork Hooks on the BOB Nutz Bobbins.



FIG. 4 - Correct Position for Trailer Attachment

a. If the Fork Hooks fit into the Bobbin slots by expanding or compressing of the fork slightly, skip to the ATTACH TRAILER section of this manual.

b. If the Fork Hooks do not fit into the Bobbin slots by slightly expanding or compressing the fork, it will be necessary to adjust the Bobbin spacing as described in the ADJUST BOBBIN SPACING section of this manual. FIG. 5 shows a situation where the Fork Hooks do not fit easily and the Bobbin spacing needs to be adjusted.



FIG. 5 - Bobbin Spacing NOT Aligned with Fork Hook

ADJUST BOBBIN SPACING

1) The stainless steel pivoting Bobbins on the BOB Nutz are asymmetrical as shown in FIG. 1a and 1b. This asymmetrical design allows the Bobbins to be reversed, allowing for a variance of approximately 1/2" (12.7 mm) in outside dimensional span of the bike's dropouts.

For IGH Models do the following in lieu of steps 1) and 2) below:

Use a pair of external snap ring pliers to remove the Circlip on both the right and left sides. Remove the Bobbins and reverse them noting the positions of the Flat Washer. Then re-install the Flat Washer and Circlip so it completely engages the slot in the Bobbin. (Go to step 4)

For Non IGH Models Only:

2) With the BOB Nutz installed, and using a 4mm Allen Wrench, remove the M5 Bobbin Retaining Socket Screws, FIG. 1a, on both the left and right sides. Remove the Bobbins and reverse them noting the position of the Lock Washer and Flat Washer.

3) With the Bobbins reversed, reinstall the Flat Washer, Lock Washer, and M5 Bobbin Retaining Socket Screw. Tighten the M5 Bobbin Retaining Socket Screws to 35-45 in-lbs (4-4.5 N-m).

4) Attach the trailer by aligning the slots of the Bobbins with the slots in the Fork Hooks. FIG. 6 shows the Fork Hooks correctly installed on the Bobbins.

ATTACH TRAILER

With the Fork Hooks placed on the Bobbins, insert the Pin in the hole in the front edge of the Fork Hook. Slide the Pin under the Bobbin and into the hole in the back edge of the Fork Hook. Rotate the Pin up, toward the Button Head Post on the Fork Hook. To secure the Pin, it is necessary to press it downward and toward the Fork Hook. When properly installed, the Pin fits between the Fork Hook and the head on the Button Head Post, as shown in FIG. 7. The rubber Lanyard retains the Pin when it is not installed.



FIG. 6 - Fork Hook Correctly Installed

⚠ WARNING The Pins are critical to keeping the trailer attached to the BOB Nutz. 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 contact BOB if you do not understand the Pin installation procedure.

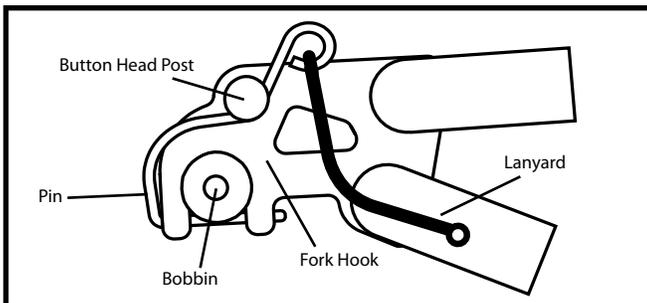


FIG. 7 - Pin Correctly Installed

LIMITED WARRANTY

BOB Trailers, Inc. takes pride in its workmanship and strives to manufacture the best products possible. Therefore, we warranty our BOB Nutz 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.

BOB Trailers, Inc. warrants BOB Nutz to be free from defects in materials and workmanship subject to the following conditions and limitations:

- Warranty is only valid for the original purchaser.
- BOB Nutz are warranted for one year from date of original purchase.
- 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, Inc. 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, Inc. Any implied warranties, including warranties of merchantability and fitness shall be limited in scope and duration in accordance with this limited warranty.