BOB is a company that produces high-quality products, which encourage a healthy, outdoor, car-free lifestyle. In addition to building trailers, we also make full suspension in-line trailers and yaks. Please check the website for complete line of products. Before attempting to assemble or use any new trailer, please read the entire manual to ensure complete safety to the assembly and operation. If you are unsure on any point, contact your dealer or BOB before use.
5. WHEEL REFLECTORS: The trailer comes with two spoked reflectors which mount onto the spokes of the trailer wheel. 

A) Reflectors should be mounted 90 degrees from the valve stem, Fig. 13. The reflectors should be installed by weaving them through the spokes. Take the spoke with the white slotted attachment “screw”, Fig. 14. Remove attaching screw from reflector. Using a screwdriver, turn screw 90 degrees clockwise to lock reflector in place. Repeat the above steps for the other wheel. 

B) Install nut, Fig. 14. Place reflector in position between wheel spokes and centered to a spoke approximately 90 degrees from valve stem. 

6. YAK & IBEX WHEEL INSTALLATION USING QR (Fig. 15) NOTE: Follow all instructions exactly. If you are unsure how to operate the quick release, please consult your bicycle dealer or contact BOB. Fig. 15 shows the anatomy of the quick release.

A) Remove adjust nut and one spring from the quick release.
B) Insert the quick release rod through the hole in the axle.
C) Install the second spring with the small end pointing towards the hub then install adjust nut.
D) Slide wheel into the dropouts, Fig. 16, and confirm wheel is centered between the wheel stays.

IMPORTANT: The quick release is NOT a nut and bolt system. It is a cam-activated tightening mechanism. Tighten the QR as follows:

E) Move the QR lever perpendicular (at a 90 degree angle) to the trailer, Fig. 17. Tighten the adjust nut by hand (it is not necessary to use tools) one or two more turns in the clockwise direction then move the quick release lever to the closed position, Fig. 17. While against the dropout, it requires 80-105 inch-pounds of torque to move the lever to the fully closed position.

7. SAFETY FLAG: IMPORTANT: The flag is extremely important in making you and your trailer visible to others. Always make sure the flag is correctly installed when using your trailer.

A) Press the two metal ends (silver) of the flag sections together making sure they insert into one another completely.
B) Install completely into the flag tube. On the YAK, the flag tube is located to the left side of the center. On the IBEX, Fig. 18. On the IBEX it is located in the middle of the shock tower, Fig. 19. Place flag in position between wheel spokes and centered to a spoke approximately 90 degrees from valve stem.

8. BOB QUICK RELEASE (QR) 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 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, allowing 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 derailer side by a minimum of 3/8 inch (10mm) and maximum of 3/4 inch (19mm). Fig. 20 shows the anatomy of the BOB Quick Release.

A) 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-derailer side.
B) 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.
C) Check for a small gap between 1/8mm (1.5mm) and maximum 3/16 inch (5mm) of threaded rod extending past the dropout face, Fig. 21. 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 Manual later at the end of this manual to find the correct QR for your bike. If the amount of rod extending past the dropout face is greater than 11mm, see the next section.

9. TRIMMING THE BOB QR ROD: If you do not understand this section, contact your local bike dealer or call BOB for help.

A) Install the 2nd conical spring onto the QR rod and turn while holding the adjust nut.
B) With the QR lever perpendicular (at a 90 degree angle) to the frame, Fig. 22. Tighten the adjusting nut clockwise until it is snug against the dropout, it requires 60-85 inch-pounds of torque to move the lever to the fully “OPEN” position.

10. TRAILER ATTACHMENT: Now that the BOB quick release is correctly installed, attach the trailer to the bike. Do this correctly, follow the steps below:

A) The stainless steel pivoting BOBBINS on the quick release skewer are asymmetrical as shown in Fig. 20. This and vibration make the BOBBIN to be reversed, allowing for a variance of approximately 12mm in outside dimensional span of the bike’s dropouts.
B) 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. 25, 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. 26 shows a situations where the hooks do not fit as shown in the BOBBINS. 

C) With the quick release installed, and using a 4mm Allen wrench, remove the BOBBIN retaining screws, Fig. 20, on both the left and right sides. Remove the BOBBINS and reverse them as previously shown for the lock and flat washers.
D) With the BOBBINS reversed, reinstall the retaining screws and lock washers. Tighten the retaining screws securely.

E) Attach and trimming the slots of the BOBBINS with the slots in the fork hooks. Fig. 27 shows the fork hooks correctly installed on the BOBBINS.
F) With the trailer hooks placed on the bobbins, insert the pin in the hole in the front edge of the hook and insert the pin and hook into the hole in the back edge of the hook. Rotate the pin up, toward the bottom head post on the hook. To secure the pin, it is necessary to press it forward and down into the hook. When it is properly installed, the pin fits between the hook and the head on the bottom head post, as shown in Fig. 28. 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 be removed from the bicycle and cause a severe accident. Please see your dealer or call BOB if you do not understand the pin installation procedure.

11. SHOCK STIFFNESS ADJUSTMENT (IBEX ONLY) The IBEX trailer has three shock stiffness settings depending on the weight of the load you are carrying. It is important to correctly adjust the shock each time you change the load in the trailer to keep from bottoming out the suspension system. Repeated bottoming out of the suspension system will shorten the life of the trailer frame, swing arm, and shock assembly. To adjust the stiffness settings proceed as follows:

A) Unweight the trailer wheel by lifting the trailer to the fully “OPEN” position.
B) Measure from the tip of the QR rod and cut the rod with a metal cutting saw.
C) Using a file, shape the end of the rod into a conical shape.
D) Remove the nut (or die) and verify the QR rod has been cut to the appropriate length. Repeat steps B and C in the previous section then complete QR installation by following steps D through G in previous section.
YAK/IBEX OWNER’S MANUAL

(800) 893-2447  www.bobgear.com
13501 South Ridge Drive Charlotte, North Carolina 28273

PARKING TIPS

• If possible park your bike and trailer on level ground.
• Rest trailer on a curb against the parking skid (Fig. 1) lean it against a building, fence, or sign
• PARK MODE: Fig. 31 shows the bike and trailer in “Park Mode”. Turn the bike 90 degrees to the trailer with handlesbars turned 90 degrees to the bike. Lower trailer frame to the ground, contacting the parking skid (Fig. 1) and the trailer will stand up on its own. NOTE: This feature works best when the trailer is loaded and does not work on all bikes.
• To “un-park” your bike, place one hand on the handlesbars, and one hand on the seat while walking forward and pulling the seat towards you as the trailer will stabilize in the horizontal position.
• A standard kick stand for your bicycle works well in most circumstances to keep the bike and trailer upright.

LIMITED WARRANTY

BOB Trailers Inc. takes pride in its workmanship and strives to manufacture the best products possible. Therefore, we warranty our YAK and IBEX trailers 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 original parts of trailer by the frame. This should be done with the trailer empty.
• B) Fully depress the shock adjustment button on the right side, Fig. 29.
• C) While holding down the button, slide the shock to the desired setting.
• D) Release the button and pull swing arm back and forth until the button snaps into place.

Position 1 (forward most position) is the softest setting and Position 3 (rearward most position) is the stiffest. As a general rule use the following guidelines when setting up the suspension system:
Position 1: 0 - 25 lbs (0 - 11 kg) of cargo.
Position 2: 25 - 45 lbs (11 - 20 kg) of cargo.
Position 3: 45 - 70 lbs (20 - 32 kg) of cargo.

12. DRY SAK: Loading tips: Make sure all sharp objects are covered to prevent punctures of the DRY SAK wall. Place heaviest objects in the bottom for maximum stability.

Closing procedure to insure DRY SAK is watertight:
A) Load Bag, Fig.30
B) Bring the 2 black plastic strips together at the rim of the DAK.
C) Roll strips together as you would a paper bag and snych tight with the end buckles.
D) Connect center buckle over the 2 handles and snych tight.

Securing in trailer:
E) Place black section of SAK towards rear. Hook spider bungee to frame tubes and / or trailer tongue as shown in Fig. 33.

BOB Trailers products to be free from defects in materials and workmanship subject to the following conditions and limitations.
• Frame is warranted for five years.
• 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.

MAINTENANCE SCHEDULE

<table>
<thead>
<tr>
<th>Part</th>
<th>Service</th>
<th>Period*</th>
</tr>
</thead>
<tbody>
<tr>
<td>B.O.B QR</td>
<td>Check tightness</td>
<td>Every ride</td>
</tr>
<tr>
<td>QR BOBBINS</td>
<td>Check retaining screw tightness</td>
<td>Every ride</td>
</tr>
<tr>
<td></td>
<td>Remove and clean bushing</td>
<td>Monthly</td>
</tr>
<tr>
<td>Hub Bearings</td>
<td>Replace</td>
<td>As needed</td>
</tr>
<tr>
<td>Retaining Pins</td>
<td>Inspect</td>
<td>Every ride</td>
</tr>
<tr>
<td></td>
<td>Replace*</td>
<td>As needed</td>
</tr>
<tr>
<td>Tire</td>
<td>Check Pressure</td>
<td>Weekly</td>
</tr>
<tr>
<td></td>
<td>Inspect for damage</td>
<td>Monthly</td>
</tr>
<tr>
<td>Fork</td>
<td>Check pivot screw tightness</td>
<td>Weekly</td>
</tr>
<tr>
<td>Fork Bushings</td>
<td>Check for looseness*</td>
<td>Yearly</td>
</tr>
<tr>
<td>Wheel</td>
<td>True*</td>
<td>As needed</td>
</tr>
<tr>
<td>Wheel QR</td>
<td>Check tightness</td>
<td>Every ride</td>
</tr>
<tr>
<td>IBEX only</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Swingsarm pivot</td>
<td>Check retaining bolt tightness</td>
<td>Weekly</td>
</tr>
<tr>
<td>Upper pivot bolt</td>
<td>Check bolt tightness</td>
<td>Weekly</td>
</tr>
</tbody>
</table>
*We recommend this service be performed by a trained bicycle mechanic at a professional bicycle dealership. This requires special tools and skill.
**May require more frequent service if you ride in wet, sandy, or dusty conditions. All the above frequencies are intended as guidelines. Depending on where you ride and your riding style, these services may need to be performed more frequently.

TRAILER/BIKE COMPATIBILITY

<table>
<thead>
<tr>
<th>Trailer Model</th>
<th>A - Dropout Spacing Compatibility</th>
<th>Included BOB Quick Release</th>
<th>Included BOB Fork</th>
<th>B - Fork Clearance</th>
<th>Wheel Diameter Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>IBEX / IBEX PLUS</td>
<td>126.5 - 140mm</td>
<td>Standard QR</td>
<td>Standard</td>
<td>360mm*</td>
<td>20” - 27”</td>
</tr>
<tr>
<td>YAK / YAK PLUS</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>YAK 28 / YAK 28 PLUS</td>
<td>126.5 - 140mm</td>
<td>Standard QR</td>
<td>Standard</td>
<td>420mm**</td>
<td>20” - 28”</td>
</tr>
<tr>
<td>IBEX 28 / IBEX 28 PLUS</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>YAK PLUS SANTANA</td>
<td>160mm</td>
<td>Santana QR</td>
<td>Santana</td>
<td>360mm*</td>
<td>20” - 27”</td>
</tr>
</tbody>
</table>

* Fits 20”, 26”, & 700C wheels without fork tips. ** Intended for bikes with 28” wheels or bikes with 700/27” wheels and full wrap fenders and reflectors.
**BOB NUTZ MODELS**

BOB Nuts are special adapters for bicycles with solid axles, replacing the original nuts and giving an attachment point at either extremity of the axle. We make four BOB Nutz models to fit different axle configurations (See chart below).

<table>
<thead>
<tr>
<th>BOB Nutz Model</th>
<th>Axis Diameter</th>
<th>Thread Pitch</th>
<th>Common Applications</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/8 x 24</td>
<td>3/8 inch</td>
<td>24 tpi</td>
<td>Single speed coaster brake hubs</td>
</tr>
<tr>
<td>3/8 x 26</td>
<td>3/8 inch</td>
<td>26 tpi</td>
<td>Shimano Nexus 4 and 7 speeds, Shimano 3 speed coaster brakes, English and Japanese solid axles</td>
</tr>
<tr>
<td>10 x 1</td>
<td>10mm</td>
<td>1mm</td>
<td>ISO and Japanese solid axles</td>
</tr>
<tr>
<td>IG4 (internal Gear Hubs)</td>
<td>10.5mm</td>
<td>1mm</td>
<td>Sachs multi-speed hubs with indicator chain shifting Sturmey Archer multi-speed hubs with indicator chain shifting</td>
</tr>
</tbody>
</table>

**BOB QUICK RELEASE MODELS**

The BOB Quick Release comes in three different models to fit a wide range of rear hub spacings.

<table>
<thead>
<tr>
<th>QR Model</th>
<th>A Rod Length</th>
<th>B Threaded Length</th>
<th>C Dropout Inside Dimension</th>
<th>D Allowable Dropout Outside Dimension</th>
</tr>
</thead>
<tbody>
<tr>
<td>BOB QR</td>
<td>160mm*</td>
<td>32mm</td>
<td>126.5-140mm**</td>
<td>140-150mm</td>
</tr>
<tr>
<td>BOB 145 QR</td>
<td>175mm*</td>
<td>35mm</td>
<td>145mm**</td>
<td>145-164mm</td>
</tr>
<tr>
<td>BOB Santana QR</td>
<td>190mm*</td>
<td>30mm</td>
<td>160mm**</td>
<td>165-180mm</td>
</tr>
</tbody>
</table>

*Measurement is with QR lever in closed position

**Dropout Inside dimension (C) to measure the same as bicycle hub’s axle over locknut dimension.**