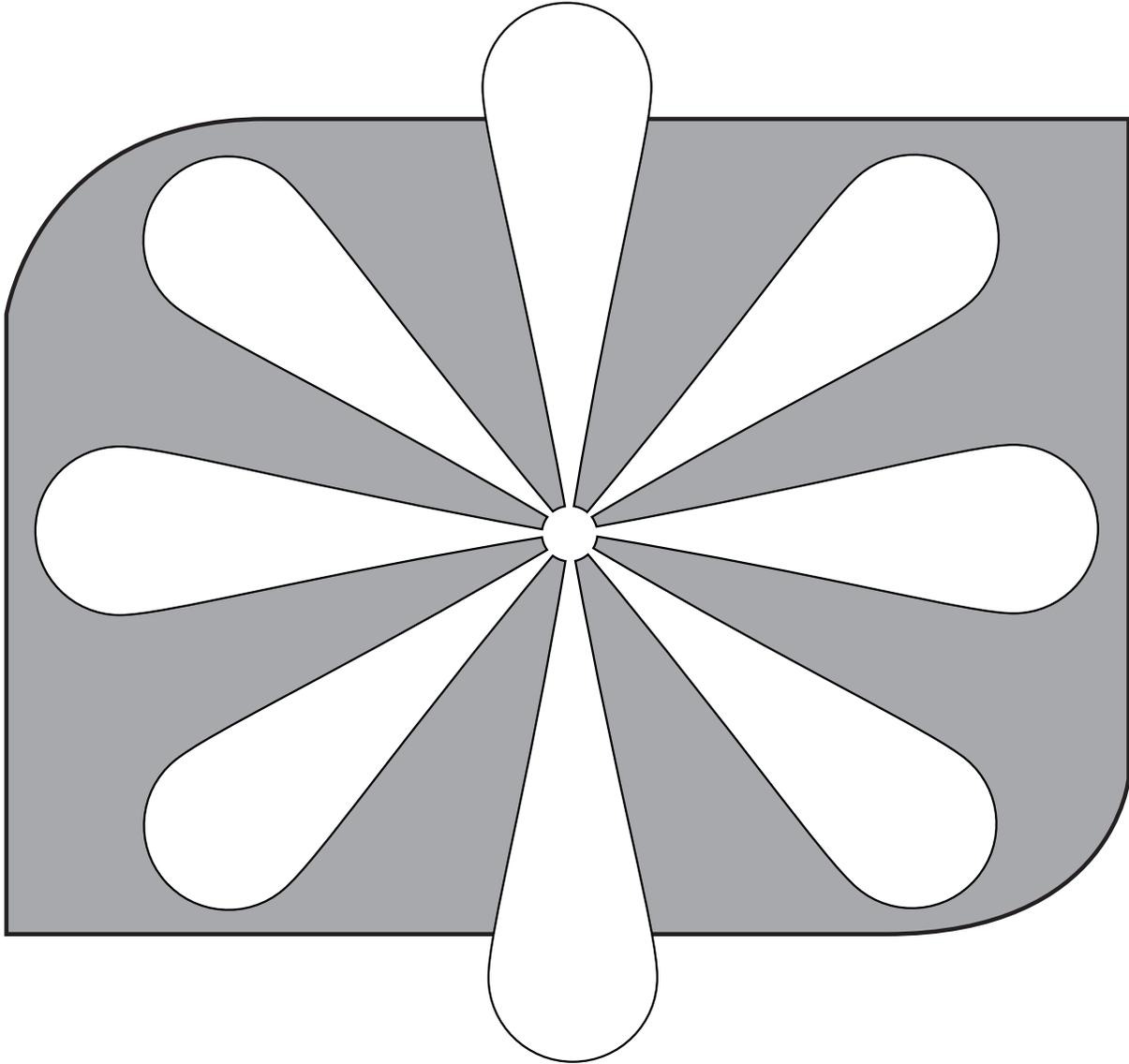


SUN
bicycles



Tug-A-Bug
owner's manual

Sun Bicycles Tug- A-Bug User's Manual

Please read and understand the information in this manual before installing and using your new Sun Bicycles Tug-A-Bug trailer.

Compatibility:

This trailer is designed, and should only be attached to adult bicycles with a 26", 27" or 700C rear wheel. It connects to the seat post which must be 25.4mm, 27.2mm, 28.6mm, or 31.6mm in diameter. The bottom of the hitch once attached must be at least 25 inches from the ground. The towing bicycle must have a steel or alloy seat post.

Weight Limits:

The trailer can carry 1 rider with the maximum weight of 85lbs. The front rider must be at least 150lbs to maintain proper control of both the bicycle and the trailer when in motion. The Sun Bicycles Tug-A-Bug is not a baby seat. It is for use with children that are already able to ride a bicycle without training wheels.

Proper Operation:

This trailer is designed for paved roads. Use on rough roads could cause loss of control. Do not exceed 12mph. Riding faster than 12mph could cause loss of control and possible injury or death to either rider. This trailer is not designed for and should not be used at night.

Installation

To install the hitch to the towing bicycle:

1) Remove the hitch from the trailer by removing the quick release binder. Be careful not to lose the plastic washers.

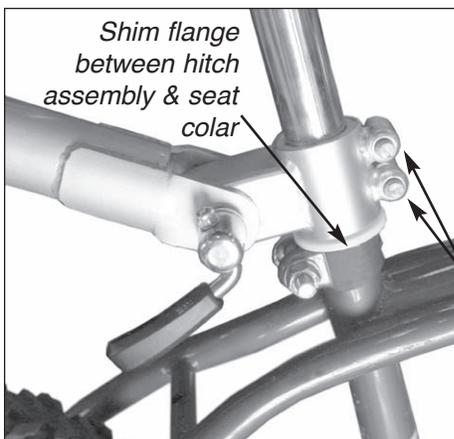
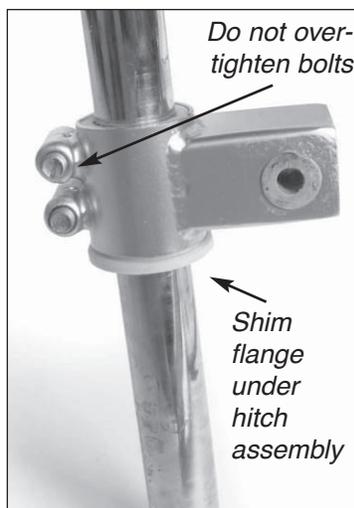
2) Remove the seat post from the towing bicycle and confirm it is made of steel or alloy and then determine the diameter. Slide the proper sized plastic shim on the seat post and install the hitch over the shim, on the seatpost. The protruding ridge on the shim (flange) should be at the base of the hitch. This will keep the plastic shim from rising up out of the hitch during operation and protect your frame from damage. The plastic ridge must rest against the top of your bicycles seat post clamp to insure the hitch will not lower itself during operation. **IMPORTANT: DO NOT TIGHTEN COMPLETELY THE BOLTS SECURING THE HITCH ASSEMBLY TO THE SEAT POST.** Tighten enough to eliminate play, however, the hitch assembly must swing freely from right to left.

3) Install the seat post back into the bicycle and clamp securely. There must be a minimum of 3" of seat post inside the frame. Tighten the bolts on the hitch to remove play while at the same time allowing the hitch to swing from left to right.

4) Re-attach the trailer to the hitch with the quick release binder bolt. Use the original supplied binder bolt. Do not substitute the supplied binder bolt with any other type of binder. Make sure to re install the safety pin. This will insure the quick release binder bolt's nut does not come loose.



Pictured top is the hitch assembly disassembled. Below left is the seatpost with part of the hitch assembly attached. Pictured right is the nut and bolt of the quick release opposite the lever. PIN MUST BE FULLY ENGAGED.



Left is the entire hitch assembly attached to the bicycle's seat post.

Do not over-tighten bolts. Tighten enough to allow the hitch to swing.

Quick Release Lever Operation

CAUTION: Never fasten the Sun Bicycles Tug-a-Bug to the seat post by tightening the quick release lever as though it were a wing nut. Simply rotating the lever in a circular motion until tight will not fasten the hitch to the seat post. Detachment of the Tug-a-Bug as a result of improper quick release installation can result in serious bodily injury.

NOTES

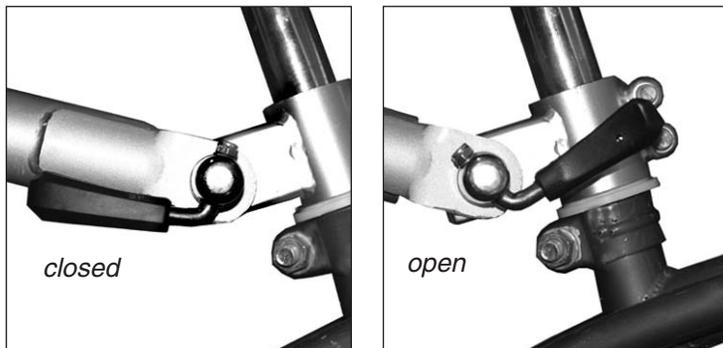
If the quick release lever can be easily pushed to the CLOSED position, this means the clamping strength is insufficient. Return the quick release lever to the position perpendicular to the bicycle frame. And again turn the adjusting nut clockwise to increase the clamping strength. Push the quick release lever back to the CLOSED position.

If the clamping strength is adjusted too strong and the quick release lever cannot be pushed to the CLOSED position, turn the adjusting nut in a counter-clockwise direction to reduce the clamping strength. When doing this, do not fully release the adjuster nut.

Turn it 1/8 of a revolution, and then try to push the lever to CLOSED, to set the maximum clamping strength with which you can push the quick release lever to the CLOSED position.

POSITIONING OF THE QUICK RELEASE LEVER

For safety, the quick release lever should be pointing backwards, running along the trailer hitch arm when in the CLOSED position.



Pictured above left is the quick release lever in the closed position. Above right is the quick release in the open position. **IMPORTANT: DO NOT TIGHTEN THE QUICK RELEASE LEVER AS THOUGH IT WERE A WING NUT.** Tighten and then press the lever firmly into closed position.

Adjustment and pre ride check:

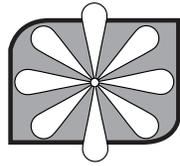
Prior to each use, the following must be checked to insure a safe ride.

- 1) Check that the hitch is in the lowest position on the seat post and the plastic shim is properly installed.
- 2) Check to insure the quick release hitch pin is properly installed and tight, and that the safety pin is installed.
- 3) Check that the trailer's seat is tight and level. Adjust the saddle height so that the rider's leg is slightly bent when the pedal is in the lowest position.
- 4) Check the trailer's handlebar. Make sure it is tight and does not slip under pressure. Adjust the position so the rider can rest their hands comfortably with a slight bend in their elbow while seated in an upright position.
- 5) Check the tire pressure, which should be 35-to-40psi.

Inspect all bolts, nuts, and the frame and hitch of your trailer for wear. If any wear exists contact your local Sun Bicycles Tug-A-Bug dealer for replacement parts and do not use your trailer until those parts have been replaced. Serious injury or death could occur to either rider in the event of a failure.

Protective Apparel:

The rider of the bicycle and the rider of the trailer must always wear a helmet. Unlike operating a bicycle without a trailer, there is more chance for a loss of control leading to an accident. It is recommended that elbow and knee pads also be worn for protection.



SUN
revolutions for the planet

J&B Importers, Inc.
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info@sunbicycles.com

J&B Importers, Inc. ("Sun Bicycles & Origin-8 bicycles"), a Florida Corporation located at 11925 SW 128th St., Miami, FL 33186, makes the following Limited Warranty concerning Sun Bicycles & Origin-8 bicycles:

LIMITED 90-DAY WARRANTY ON COMPLETE BICYCLE

Subject to the following limitations, terms and conditions, Sun Bicycles & Origin-8 warrants to the original owner of each new Sun Bicycles or Origin-8 bicycle that this bicycle when new is free of defective materials and workmanship. This warranty shall expire 90 days from the date of the original purchase from a Sun Bicycles or Origin-8 dealer and is conditioned upon the bicycle being operated under normal conditions and use, and properly maintained. This warranty is void if the bicycle was not purchased new from or not properly assembled by a Sun Bicycles or Origin-8 dealer.

LIMITED LIFETIME WARRANTY ON STEEL BICYCLE FRAMES AND LIMITED FIVE (5) YEAR WARRANTY ON ALL OTHER BICYCLE FRAMES

Also subject to the following limitations, terms and conditions, Sun Bicycles & Origin-8 warrants to the original owner for the lifetime of the original owner of each new steel framed Sun Bicycles or Origin-8 that the bicycle frame when new is free of defective materials and workmanship. Sun Bicycles & Origin-8 limited warranty for all other bicycle frames, including aluminum based bicycle frames, shall expire five (5) years from the date of purchase from a Sun Bicycles or Origin-8 dealer. The lifetime limited warranty and the five (5) year limited warranty are conditioned upon the bicycle being operated under normal conditions and use, and properly maintained. This limited warranty does not apply to paint/finish or components attached to the bicycle/frameset such as front forks, wheels, drive train, brakes, seat post, handlebar and stem or any suspension related parts or components. Paint/ finish, components attached to the bicycle such as front forks, wheels, drive train, brakes, seat post, handlebar and stem or any suspension related parts or components are covered under the limited one (90) day warranty. This warranty is void if the bicycle was not purchased new from or not properly assembled by a Sun Bicycles or Origin-8 dealer.

ADDITIONAL CONDITIONS

This Limited Warranty is made only to the original owner of this new Sun Bicycles or Origin-8 bicycle purchased from a Sun Bicycles or Origin-8 dealer, and it shall remain in force only as long as the original owner retains ownership of the Sun Bicycles or Origin-8 bicycle. This Limited Warranty is not transferable. In order to exercise your rights under this limited warranty, the bicycle must be presented to a Sun Bicycles or Origin-8 dealer, together with a receipt, bill of sale or other appropriate written proof of purchase which identifies the bicycle by serial number. Should this bicycle or any part be determined by Sun Bicycles or Origin-8 to be covered by this warranty, it will be repaired or replaced, at Sun Bicycles or Origin-8 sole option, which will be conclusive and binding. The original owner shall pay all labor charges connected with the repair or replacement of all parts. Under no circumstances does this limited warranty include the cost of travel or shipment to and from a Sun Bicycles or Origin-8 dealer. Such costs, if any, shall be borne by the original owner. This limited warranty does not apply to normal wear and tear or to claimed defects, malfunctions or failures that result from abuse, neglect, improper assembly, improper maintenance, alteration, collision, crash or misuse. This bicycle has not been designed, engineered, distributed, manufactured, or retailed to be equipped with a motor of any kind, for uses in trick riding, ramp riding, jumping, aggressive riding, riding on severe terrain, riding in severe climates, riding with heavy loads, commercial activities, or any similar activities; such uses may damage the bicycle, and can cause serious injury to the rider, and in all cases will void this warranty.

USEFUL PRODUCT LIFE CYCLE

Every Sun Bicycles and Origin-8 bicycle and frameset has a useful product life cycle. The length of that useful product life cycle will vary with the construction and materials of the bicycle or frameset, the maintenance and care the bicycle or frameset receives over its useful product life cycle, and the type and amount of use the bicycle or frameset is subject to. Uses in competitive events, trick riding, ramp riding, jumping, aggressive riding, riding on severe terrain, riding in severe climates, riding with heavy loads, commercial activities and other types of non-standard use can dramatically shorten the useful product life cycle of a Sun Bicycles or Origin-8 bicycle. Any one or a combination of these conditions may result in an unpredictable failure of a Sun Bicycles or Origin-8 bicycle that would not be covered by this warranty. All Sun Bicycles and Origin-8 bicycles should be periodically checked by a Sun Bicycles or Origin-8 dealer, for indicators of stress and/or potential failure, including cracks, deformation, corrosion, paint peeling, dents, and any other indicators of potential problems, inappropriate use, or abuse. These are important safety checks and very important to help prevent accidents, bodily injury to the rider and shortened useful product life cycle of a Sun Bicycles or Origin-8 bicycle.

THIS IS AN INTEGRATED AND FINAL STATEMENT OF Sun Bicycles and Origin-8 LIMITED WARRANTY. Sun Bicycles and Origin-8 DOES NOT AUTHORIZE OR ALLOW ANYONE, INCLUDING ITS DEALERS, TO EXTEND ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, FOR Sun Bicycles or Origin-8. NO OTHER REPRESENTATION, AND NO STATEMENT OF ANYONE BUT Sun Bicycles or Origin-8, INCLUDING A DEMONSTRATION OF ANY KIND BY ANYONE SHALL CREATE ANY WARRANTY REGARDING THIS BICYCLE. ALL OF THE REMEDIES AVAILABLE TO THE ORIGINAL OWNER ARE STATED HEREIN. IT IS AGREED THAT Sun Bicycles and Origin-8 LIABILITY UNDER THIS LIMITED WARRANTY SHALL BE NO GREATER THAN THE AMOUNT OF THE ORIGINAL PURCHASE PRICE AND IN NO EVENT SHALL Sun Bicycles or Origin-8 BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.

DISCLAIMER

All other remedies, obligations, liabilities, rights, warranties, express or implied, arising from law or otherwise, including but not limited to, any claimed implied warranty of merchantability, any claimed implied warranty arising from course of performance, course of dealing or usage of trade, and any claimed implied warranty of fitness, are disclaimed by Sun Bicycles and Origin-8 and waived by the original owner. Some states, jurisdictions, countries, provinces, do not allow some or all of the limitations set for herein, or the exclusion or limitation of incidental or consequential damages. If any provision is found unenforceable, only that provision shall be stricken and all others shall apply. This limited warranty does provide the original owner with certain legal rights and recourse and the original owner may possess other rights or recourse, depending on the state, jurisdiction, country or province.