

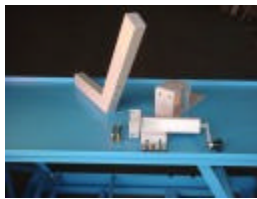
## Mounting Instructions for Bike-Vise : 16 photos with FAQ



[Photo 1:](#)

### Tools for Installation

- Drill and a 11/32" bit for drilling holes.
- 16mm socket and wrench (5/8" can be used).
- Measuring tape to "square" unit to trailer walls
- Pencil
- Bike Vise kit hardware
- "Thread Lock" may be used, if so desired, in place of lock-nuts.



[Photo 2:](#)

### Assemble Left Side of Bike Vise First

- Use the 4 shortest bolts to mount the screw jack shaft to the mount.
- Use 2 Long bolts to mount the Left Leg to the yoke.
- Secure all bolts with 2 nuts (i.e. a "locking nut") provided with kit.



[Photo 3:](#)

### Placement of Bike Vise

- Allow adequate distance from the side of the trailer to turn handle.
- Allow for motorcycle clearance from side of trailer.
- Mark & Drill the hole indicated by the YELLOW pencil first.
- Place a bolt into drilled hole for vise alignment.
- Go to next photo



[Photo 4:](#)

### Resquare Bike Vise prior to drilling 2nd hole

- Mark and Drill the 2nd hole as indicated by yellow pencil.

WHY only drill those 2 holes? 2 Holes will align the top and underside plates. THEN, you can use the plates as "templates" for drilling straighter holes.

- Go to next photo



[Photo 5:](#)

Place bolts in the 2 drilled holes for alignment.

- Grab your tools, Drill with bit and Underside Reinforcing Plate.
- Go underneath trailer to mount reinforcing plate.

Note: If doing this by yourself, you may want to place a box-end wrench on the bolt-head so you can tighten the nuts while underneath the trailer.  
"Righty tighty-Lefty Loosey" still applies.



[Photo 6:](#)

Mounting Underside Reinforcing Plate

- Using the 2 bolts you placed in the 2 drilled holes, attach underside plate.
- Tighten down bolts/nuts to 20 ft lbs.
- Partially drill remaining holes from the underside using the reinforcing plate as a template.

WHY only partially drill holes from the bottom? Because it is VERY difficult to drill straight holes that will align with the top mount. It is easier and more accurate if you finish drilling from the holes topside.

WHAT'S the purpose of the "Reinforcing Plate"? The Reinforcing Plate distributes the load when used on wood trailer beds. The Reinforcing Plate also serves to prevent "tear-out" of the bolt/nut through the metal or wood flooring especially under high side loads imposed during a Mach 2 turn that some folks make while towing a trailer.



[Photo 7:](#)

Finish Drilling All holes and Install Hardware

- Install remaining bolts and hardware.

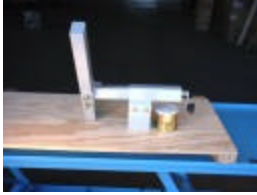
Note: Make sure U-Bolt remains "level" to keep it from binding.  
It may be necessary to "tap" with hammer to seat U-Bolt.



[Photo 8:](#)

#### Left Side Reinforcing Plate Installed

- Secure reinforcing plate with "lock-nuts" (2 nuts per bolt) as shown in photo.
- Note: On wood beds thicker than 1" locking nuts cannot be used.



[Photo 9:](#)

#### Extend Shaft for Lubrication

- Extend shaft out about  $\frac{3}{4}$  its overall length.
- Remove handle attaching bolt using a 10mm wrench.
- CAREFULLY slide inside tube out of outside tube.
- Do not loose or drop small bearing pack on end of shaft (see photo).

WHY aren't these threads lubricated at the factory? They are lubricated at the factory, but, you need to know how this is done when you lube it next year AND it is always better to "know" it is greased properly.



[Photo 10:](#)

#### Lubricate Threaded Shaft and Bearing Pack

- Use a good quality grease and lubricate shaft and bearing pack.
  - Reassemble in the reverse order and attach handle.
- Note: You cannot use too much grease. Grease annually.



[Photo 11:](#)

#### Position Right Leg, Locate Underside Reinforcing Plate

- Right Leg should be placed a maximum of 7" (165mm) from Left Leg.
- Using a tape measure, square the 2 legs to each other.
- Drill Hole #1 as indicated by the Yellow Pencil.
- Place a Long Bolt in drilled hole and "resquare" the 2 legs.
- Drill the 2nd hole.
- Insert Long Bolt in the drilled hole.

WHY 7" from leg to leg??? Currently (7/02), the largest front tire known is 150mm (@25.4mm per inch, 150mm =6"). You may make it less wide from inside-to-inside measurement, if desired. But the vise opening needs to be at least  $\frac{1}{2}$  wider than your front tire so you can get into the vise.



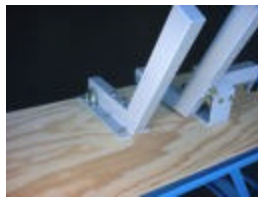
[Photo 12:](#)

#### Attach Underside Reinforcing Plate

- Grab wrenches, Drill with bit and the Underside Reinforcing Plate..
- Go underneath trailer bed and attach Underside Reinforcing Plate.
- While under the trailer, PARTIALLY drill remaining holes.

Note: Only drill partially thru the wood going "up". The holes will align better if you finish drilling holes from topside.

Note: The 2 Long Bolts cannot be fitted with Lock-Nuts when used on wooden trailer beds.



[Photo 13:](#)

#### Finish Drilling All holes and Install Hardware

- Install remaining bolts and hardware from the topside.

Note: When installing U-Bolts make sure U-Bolt remains "level" to keep it from binding in the drilled holes. It may be necessary to "tap" U-Bolt with a hammer to seat.

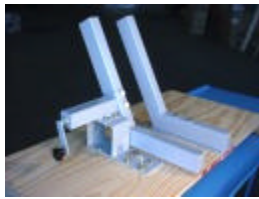


[Photo 14:](#)

#### Install Remaining Hardware on Reinforcing Plate

- Install washers/ lock-washer/ lock-nuts as applicable.

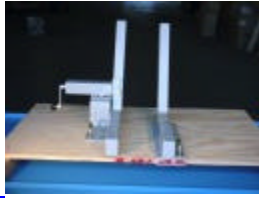
WHY use lock-nuts? 1). Lock-nuts prevent loss of torque. 2). Lock-nuts make it more difficult for thieves trying to unbolt your Bike-Vise from the topside if they wish to get at your bike. The extra minute or two it takes them to find the tools to unbolt the 2 locked-nuts may be important to you. If you prefer, you may use "thread-lock" in lieu of a lock-nut. Again, the 2 Long Bolts cannot utilize a lock-nut when used on wooden beds.



[Photo 15:](#)

Bike-Vise Installed (side view)

-The 2 white items on the left leg are plastic covers over the bolt-heads to prevent disk rotor contact.



[Photo 16:](#)

Bike-Vise Installed (rear view)

WHY the U-Bolts? U-Bolts are used for tie-down strap hooks to secure your bike to keep it from "backing" out of the vise during long trips down rough roads. They also serve to lock chains, or steel cables, securing your bike to the vise itself. These U-Bolts will be as difficult to cut through as your security cables, or chains, that you attach to your frame and, if desired, through your rear wheel.

HOW much space does the Bike-Vise occupy? Approximately 2' by 2' area when installed. This mounting example is on a 2' x 4' piece of  $\frac{3}{4}$  plywood.

I have multiple bikes. How can I use this vise easily? Please refer to the photo on greasing the threaded shaft: You can mark the inside shaft with a Marking Pen to show where the shaft should be for your BMW, Honda, Harley tire and then you just open/close the vise leg until reaching your "mark" for that bike tire.

Any other questions? Please [email us](#) from this site and we will gladly reply. Thanks.