

## White Industries Pedal Installation

Tools required: Park AB4 axle pedal vise, 9mm socket / set of sockets with wrench, Park red handle pin wrench, soft-faced mallet, bearing puller, bearing press,

### Disassembly

1. Loosen the acorn nut by holding the adjusting locking collar in place with Park red handle pin wrench, Use a 9mm socket and back off bronze acorn nut (Fig 1). Use pin wrench and remove adjustable locking collar (Fig 2). Keep track of small washer nestled in locking collar.



Fig.1 Loosening acorn nut.



Fig.2 Removing adjustable locking collar.

2. Slide spindle out of the pedals platform. (Fig.3). If the spindle will not slide out by hand, use the mallet to tap it through the platform. Pedal will be disassembled with bearings remaining in platform (Fig 4)



Fig.3 Slide out spindle.



Fig.4 Pedal disassembled

3. Once the spindle is removed, check the bearings in the hub shell for roughness. If it is determined that the bearings are in need of replacement, pull the bearings from the bearing bore utilizing a bearing removal/puller tool. If new bearings are needed, send to White Industries for bearing replacement.

## Assembly

1. Locate the spindle that corresponds and matches to the corresponding platform: right spindle to the right platform, left spindle to the left platform. There is a L (left) or R (right) engraved on the spindle wrench flat. Find the corresponding platform and match with the correct spindle. When determining the right or left side of the pedal platform, the raised shoe stop tab will be closest to the frame.



Fig.8 Spindle with demarcation.



Fig.9 Platform right / left position

2. Install the pedal dust shield onto the spindle. The rounded side should be facing outward (towards the pedal/ crank threaded interface) and the flat side inwards (facing the bearing) (Fig.10). Push the dust shield in place (Fig.11). Insert spindle into pedal (Fig.12 & 13).



Fig.10 Installing dust shield .



Fig.11 Proper orientation for dust shield.



Fig.12 Inserting spindle into platform



Fig.13 Spindle installed.

4. Once spindle is in place and installed in platform, thread on the adjustable locking collar. (Fig.14) With your Park red handle pin wrench tighten the locking collar until you can feel it seat against the bearing, then back it off about a quarter of a turn. Next slide the small washer onto the spindle. It will seat in the adjustable locking collar (Fig.15). Install bronze acorn nut and snug down with finger tips(Fig.16).

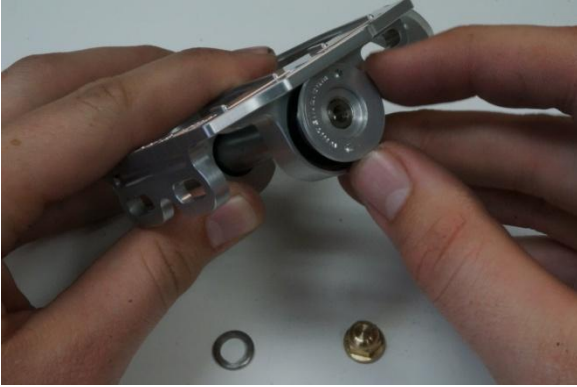


Fig.14 Thread on adjustable locking collar



Fig.15 Slip on small washer.



Fig.16 Thread on acorn nut.

5. Put the Park axle/pedal vice tool in your vice and insert pedal with spindle (Fig.17). Once again, with your Park pin wrench tighten down the adjustable locking collar and then back off a half a turn (Fig 18). While holding the adjustable locking collar in place with pin wrench, use a 9mm socket, place it on the acorn nut and tighten down (Fig 19).



Fig.17 Pedal axle vice with pedal.



Fig.18 Snug down adjustable locking collar .



Fig.19 Snug down acorn nut.

6. Remove pedal from vice. Use your mallet and tap both sides of the spindle. Check for end play. The spindle should be secure. If there isn't any detectable end play, then check to make sure the spindle spins freely. You should feel the secured spindle with the spindle spinning smoothly if the pedal is adjusted properly. If you do feel some play, or if bearings are preloaded and too tight, then loosen the acorn nut and locking collar and return to step #4. If pedal is smooth and secure (Fig. 21), you are ready to ride or start on the other side.



Fig.20 Adjustment with mallet.

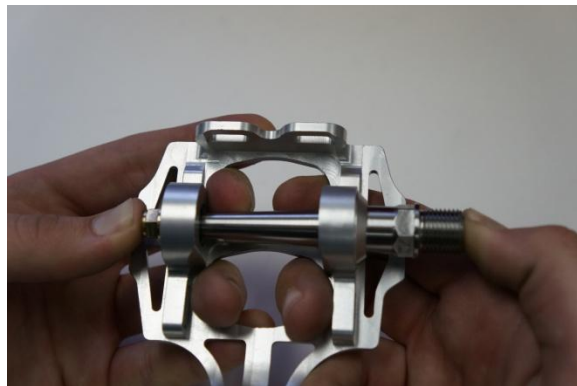


Fig 21 Final result

**WARRANTY:** This warranty applies to all products sold by an authorized White Industries Dealer to the original owner. It covers any and all material and workmanship defects for one year from the date of purchase. Bearings are the exception and are warranted for 60 days from the date of purchase. With proper maintenance bearings should last much longer. White Industries limited warranty does not cover 1) normal wear and tear 2) damage, failure or loss caused by misuse, accident, improper assembly or installation 3) parts subjected to use not consistent with the use originally intended for the product.