

BLACKSPIRE DESIGNS LIMITED

# PEDALS

## TRACTION PIN

### HEIGHT ADJUSTMENT

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(SUB 3 / SUB 4 / ROBUSTO)

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REVISION	DATE	APPROVED BY:
IR	10/16/13	AH
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REVISION	CHANGES
IR	-INITIAL PRELIMINARY RELEASE.
A	-RELEASED FOR ONLINE PUBLICATION.

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## TOOLS REQUIRED FOR TRACTION PIN HEIGHT ADJUSTMENT

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- Flat Tipped 3mm Hex Key Wrench or Hex Screwdriver



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## MATERIALS REQUIRED FOR TRACTION PIN HEIGHT ADJUSTMENT

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- Traction Pin Spacers (Included with Pedal Purchase)
- Loctite 222™ Low Strength Purple Threadlocker or Loctite 242™ Medium Strength Blue Threadlocker



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## TRACTION PIN HEIGHT ADJUSTMENT PROCESS

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1. Check that the traction pins on the pedal body has an overall length of 11.8 mm. Traction pins with an overall length of 8.6 mm are not applicable.

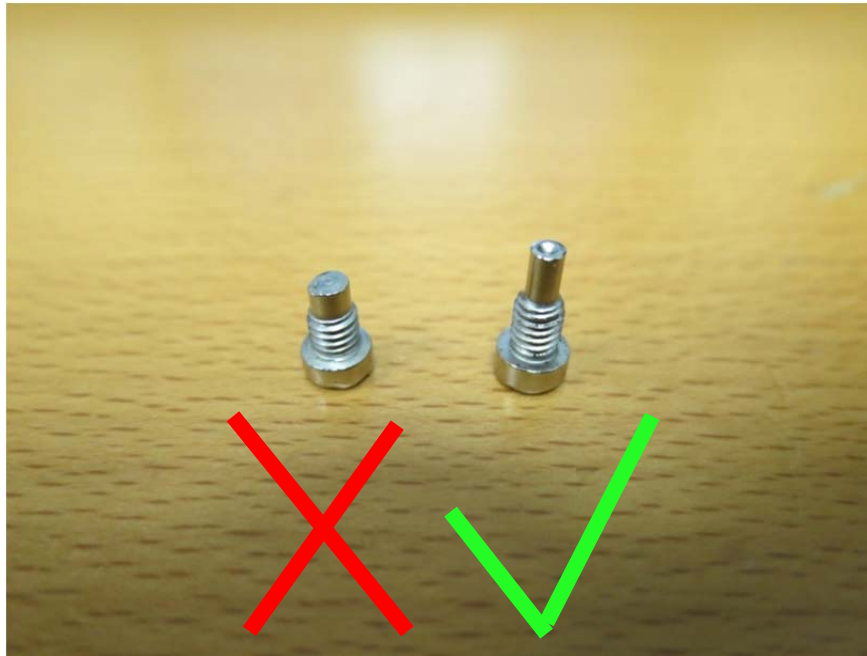


Figure 1: 8.6 mm long traction pin (left) and 11.8 mm long traction pin (right).

2. Loosen the desired traction pin(s) from the pedal body using the flat tipped 3 mm hex key wrench.

**WARNING:** Do not use a ball end 3 mm hex key wrench as the ball end will strip the head of the traction pin.



Figure 2: Loosening the traction pins from the pedal bodies using the flat tipped 3 mm hex key wrench.

- Sleeve only one traction pin spacer over the threads of the traction pin.  
**WARNING:** Sleeving more than one traction pin spacer onto a traction pin will not provide the adequate amount of thread engagement between the traction pin and the pedal body.



Figure 3: Traction pin spacer sleeved over a traction pin.

- Apply the chosen Loctite over the threads of the traction pin.



Figure 4: Loctite applied on the threads of the traction pin.

5. Tighten the traction pin with spacer back into the pedal body to a torque specification of 3 Nm.

**WARNING:** Do not use a ball end 3 mm hex key wrench as the ball end will strip the head of the traction pin.



Figure 5: Tightening the traction pin with traction pin spacer into the pedal body using the flat tipped 3 mm hex key wrench.

6. Wait a full 24 hours before using the pedals to ensure that the Loctite is fully cured and that the traction pin will not be accidentally unthreaded.



Figure 6: Final traction pin height configuration may differ from the one depicted above depending on rider's preference.