

## Generic Fitting Instructions

With the reintroduction of the Vortek Products Tuning Kits, Piston Seals and Ancillaries as readily available products within the UK we thought that an overview of the product range would be of benefit to allow people to refamiliarize themselves with a premier class leading product that has been absent for too long.

For the sake of this guide please be advised of the following notifications



This is used as an informational advisory, to make you aware of product specific information.



This is a warning that should you not be careful you could render your items void of warranty / inoperable / illegal.

The Vortek Products tuning kits consists of

- A front top hat, with a stepped spacer to locate the spring end in
- An appropriate Vortek Products spring
- A steel rear external guide tube, a rear top hat & stepped spacer that are retained within the guide tube
- Some kits may contain additional spacer washers that can be used to fine tune power (If required, these are to be fitted in the piston, in front of the top hat)



Vortek piston seals are not part of the tuning kit but a recommended option that can be readily fitted at the same time as installing the kit.

Before you start, you need to be aware of the following points:



1. Please ensure you have both the ability and tools to be able dismantle / reassemble your rifle to install this kit. You will also need to own, or have access to, a chronograph, to ensure your rifle remains legal after installing the kit.
2. Some of the kits may contain springs with high preload. Please ensure you have the necessary equipment to be able to deal with this.

**NB: - We strongly recommend the use of a spring compressor.**



3. If your rifle is fitted with a piston sleeve (factory spec or aftermarket) you will need to remove it to be able to install the kit.
4. Kits are not calibre specific. You may need to make adjustments to spring length.



### **Att. Weihrauch Owners**

If your Weihrauch model is fitted with an "old type" cocking shoe, you will need to replace this with a new style cocking shoe. As the older style shoe if retained would contact and hinder the outer steel guide.

**If you have any doubts about your ability to carry out this installation, we suggest you get a professional to carry out the work for you.**

### Fitting instructions:

Basic Instructions are available on the Vortek website and printed instructions are supplied with the tuning kit; however, this guide is intended to provide additional help should you choose to install yourself.

1. Dismantle your rifle including removing

- The existing guide, top hat, spring and any spacers / weights
- If a piston sleeve is fitted this will also need to be carefully removed  
NB: - Check very carefully to see whether your piston contains a sleeve. If you try to install the kit with a sleeve fitted, you will damage both the steel guide and the piston sleeve, rendering the kit unserviceable and voiding any warranties offered by Vortek Products. **Please be advised.**



**Att. Weihrauch Owners**

- If your rifle is a Weihrauch running an old-style cocking shoe, remove this and fit a new style shoe. Having removed your piston sleeve, the old-style shoe, if left fitted would contact and damage the rear guide. **Please be advised.**

2. Thoroughly clean any residue of grease / lube from your rifle piston and compression tube. Now is also the time to deburr any roughly machined slots that may damage a seal on installation.



**Att. Weihrauch 50/99 Owners**

It's now time to carry out an anti-galling fix, or all your hard work will be for nothing.



**Att. Weihrauch Owners**

When deburring we recommend that you do not forget the internal edges of the piston slot which interfaces with the cocking shoe.

3. Apply the supplied lubrication in line with the included Vortek instructions. Less is better to start with.

4. Insert top hat first, into the piston. When performing this it is worthwhile to ensure that the cocking arm is lifted up; to allow the steel guide to pass unhindered, not doing this and allowing them to collide will likely damage the guide. Ensure that the rear external guide is accurately located in the piston before you begin to compress the spring.



If it doesn't locate properly, the external steel guide will be damaged.  
**Please be advised.**

5. If you purchased the optional seal, fit this, lubricating as per the supplied Vortek instructions.

6. Carefully reassemble and test using a chronograph.

**If you have any doubts about your ability to carry out this installation, we suggest you get a professional to carry out the work for you.**

### Should you need to adjust power

#### Lowering Power



You will have to remove the front top hat and spacer to be able to cut the spring to the desired length. We suggest you make very small cuts. You can always cut more off, but you can't put any back.

If you shorten the spring you must ensure that the cut is square to the end coil and thoroughly deburred otherwise you will damage the top hat / guide.

Be extremely careful when trying to remove the top hat, they are intentionally tight by design. If you damage the top hat on removal, it will render the kit unserviceable and void any warranties offered by Vortek Products. **Please be advised.**



#### Raising Power

If power needs raising, some kits contain additional spacers to go in the piston in front of the top hat.

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