

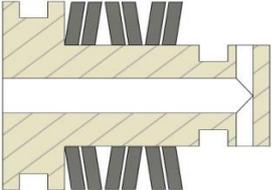
# Huma regulator revision guide

Just like your PCP rifle, our regulator also contains several o-rings.

The piston o-rings are dynamically used so they need service and replacement after several 1000 shots

The outer- and setscrew o-rings are only used static, so they won't wear very fast

**Service of the regulator is only necessary when you notice degraded performance.**

<p style="text-align: center;"><b>1</b></p>  <p>Remove your regulator out of the rifle. Make sure you empty the pressure tube totally by dry-firing and/or de-presurizing your rifle You can use the fitting instructions as guide line</p>	<p style="text-align: center;"><b>2</b></p>  <p>Separate the regulator body from the plenum Some models are treaded, some are plug-ing</p>
<p style="text-align: center;"><b>3</b></p>  <p>Read the pressure setting of the reg from the scale and write it down. Then measure the exact length of the regbody incl. setscrew (you need this to restore the set-pressure)</p>	<p style="text-align: center;"><b>4</b></p>  <p>Remove the C-clip on the backside of the regbody</p>
<p style="text-align: center;"><b>5</b></p>  <p>The backside of the piston has a M3 tread in it. You can screw in a M3 screw or bolt to pull out the piston. After that you can unscrew the setscrew of the body</p>	<p style="text-align: center;"><b>6</b></p>  <p>Inside the set-screw is an tiny m3 allen bolt. Please unscrew it before cleaning. Now remove all o-rings of the body, piston and setscrew. Do not change the spring order</p>
<p style="text-align: center;"><b>7</b></p>  <p>Clean all parts with some brake cleaner, and make sure all grease residue is gone. Dry all parts before you continue.</p>	<p style="text-align: center;"><b>8</b></p>  <p>Inside the rebuild kit there is a special type of silicone grease, replacement o-rings and valve disk. Apply a royal layer of grease inside the walls of the regulator's body. Put a bit grease on the o-rings and belleville springs Replace the springs in the right stacking back on the piston and place the new o-rings Push the piston carefully into the reg-body and replace the C-clip</p>
<p style="text-align: center;"><b>9</b></p> <p>Put the valve disk on top of the piston and screw the set-screw back in place. Screw the M3- allen bolt back into the setscrew, turn it to the bottom and then screw it back 2 turns. Then measure the total length of the regulator incl. setscrew and adjust it to the exact same length you measured before. It should be very near to the right pressure on the scale. Of course there can be some difference in the pressure setting due to the use of the new materials.</p>	<p style="text-align: center;"><b>10</b></p>  <p>Replace the outer o-rings of the body and plenum and place the regulator back into the rifle following the fitting instructions.</p>