

How to use a torque wrench.

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The torque wrench is an often misunderstood tool.

The EAA video's have a good video explaining the click-type torque wrench. I strongly recommend watching it.

[Click here for the video link.](#)

Some additional information on using torque wrenches:

A torque wrench exists in different types: there is the one in inch/pounds which you need for the regular kit and there is also a version in foot/lbs which is used for heavier application like torqueing the propellor bolts.

It's also one of the more expensive tools and is a high precision instrument.

They come calibrated with a certificate.

In Belgium you need this in order to be allowed to use it.

Some often used torque values will be 20-25 inch/lbs for AN3 bolts in combination with AN365-1032 nuts and 50-70 inch/lbs for AN4 with AN365-428 nuts. (the values can be looked up in the standard aircraft handbook or "the bible" (being the AC43.13 1B chapter 7 from page 6 which you can [find here](#))

- A torque wrench is a calibrated device. In principle it has to be regularly re-calibrated.

- Whenever you are finished working with it, make sure to re-adjust it to the zero position so the pressure is off the spring.

- When attaching a nut, first use a regular wrench to fasten the nut, then switch to the torque wrench to do the last part.

- Always torque the Nut, not the bolt head.

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- First tighten the nut on the bolt with a regular key. Only use the torque wrench to do the final adjustment to the correct torque setting.

- Apply seal immediatly on nut and a fixed struture once you torqued a nut. If you don't you will question yourself if you already torqued it or not at a later date, which means you will apply some pressure to check with the torque wrench and inadvertibly torque it a bit more before the click kicks in. Then later, an inspector might do the same and before you know, you will end up with 40 inch/lbs instead of the intended 25 inch/lbs prescribed.

You might also be interested on [this video about applying torque seal laquer](#) once to torqued to the correct value.