



HOW TO PROPERLY INSTALL SAFETY WIRE

There are a couple of basic rules to follow when safety wiring something.

They are:

1. If you are safety wiring a nut or bolt **FIRST** torque the nut or bolt to its proper torque. Where possible align the holes that are going to be used to safety wire the units in place. **BUT DON'T OVER TORQUE or UNDER TORQUE** them to achieve this!
2. After installation the safety wire should be tight! So as not to allow the unit(s) to move.
3. Safety wire should always be installed so as to make the nut or bolt **"TIGHTEN"** itself when the safety wire has been installed. That is the safety wire should come around the top of head of the bolt/nut and back onto the securing unit so that the safety wire **PULL** is in a tightening direction!
4. **NEVER** over stress the safety wire. This weakens it, which could cause it to break under vibration or load. This is generally caused when you "over wind" the safety wire. Safety wire should never be nicked, or kinked.
5. When cutting the safety wire always leave 4 to 6 turns after the loop. **REMEMBER** always bring the safety wire **AROUND** the head of the bolt/nut in a tightening direction, in as small a contour to the bolt/nut as you can get.

A guide to using safety wire pliers!

After you have wrapped the safety wire around the object, grip both ends of the wire in the jaws of the safety wire pliers and slide the outer sleeve down with your thumb to lock the handles.

Now grasp the knob located in the middle of the pliers and gently pull out. This will cause the pliers handles to turn, twisting the safety wire!

When you have the amount of twists required, grasp the handles and squeeze. This will release the safety wire from the jaws of the pliers.

Use the cutters in the jaws to cut the safety wire to the proper length and then bend the end of the wires over so that you don't poke yourself on them the next time you reach into work on something.

See next pages for examples

HERE ARE SOME EXAMPLES OF PROPER SAFETY WIRE TECHNIQUES

