Replacing a Broken Wire.

Unfortunately, wires can break, but hopefully this handout may help. There are many ways to tie-off wires on a guitar peg. The following describes the method I use at Modish. You don't have to use this exact method – the main thing is to make the wire loop around and through the hole a couple of times from both directions and try to wind the wire tightly around the peg.

Please wear safety glasses as the wire used is springy and has sharp ends. The ends will easily stab your finger tips, so take care. You may wish to wear leather gloves.

I typically use three types of pliers - linesman, long nose and diagonal pliers and constantly swap between them while working. You can check out a Youtube video https://youtu.be/qtR46aDGDFc to watch the process described below.

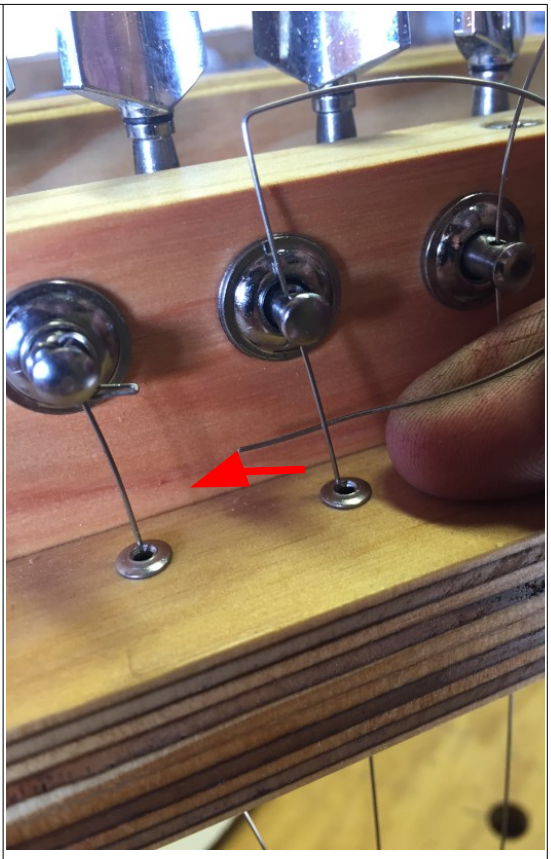
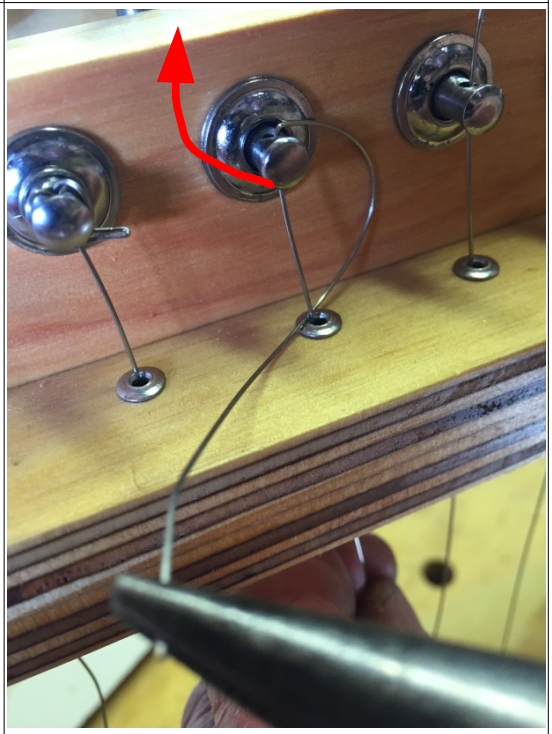
If you watch this and feel you'd rather not tackle it yourself, I can easily re-do a wire on one of our cutters at no cost, however, you would have to pay for the shipping to Timaru and the return shipping to you.

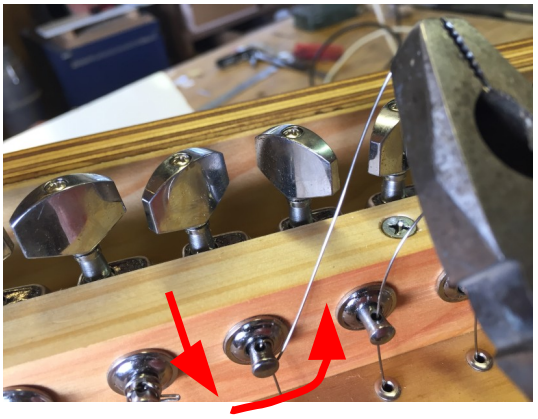
Removing the broken wire from the peg takes a bit of work – it's simply a case of "snipping" the old wire where you can and bending the pieces straight so they can be removed.

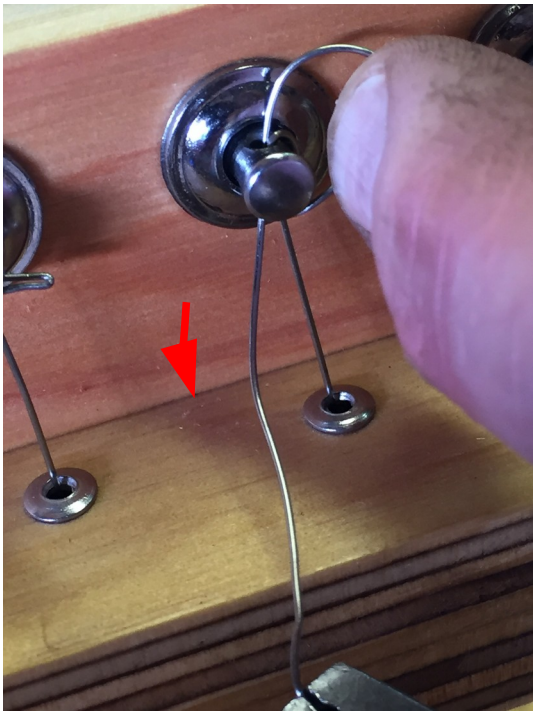
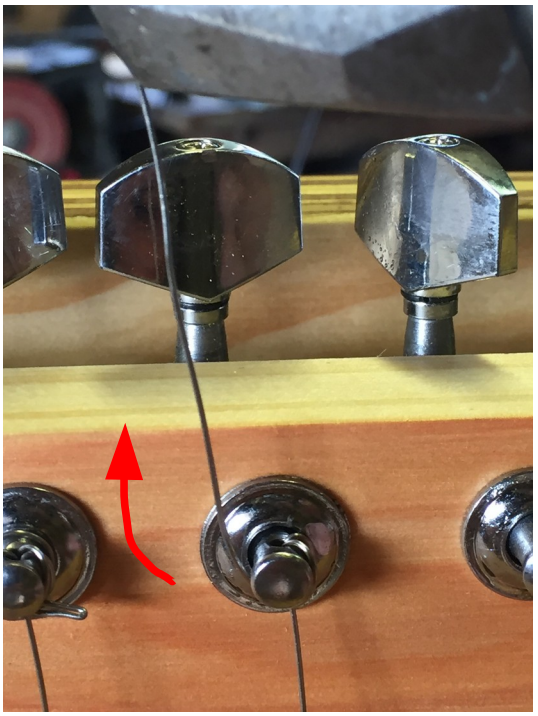
To replace-

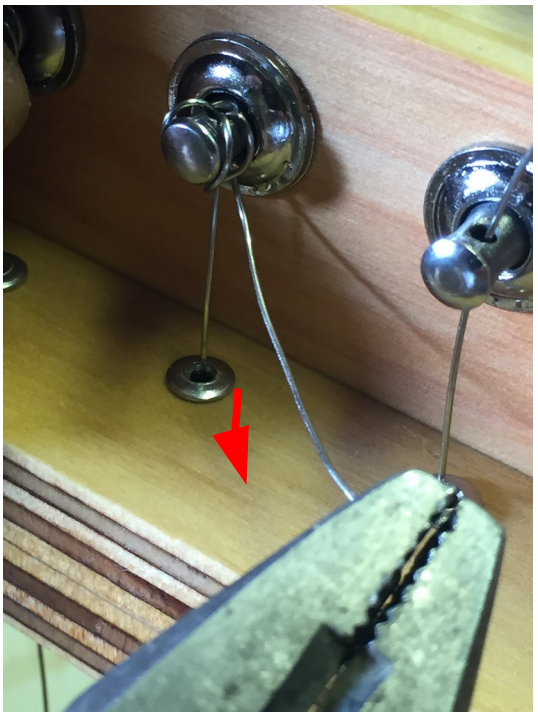
Start by creating some slack wire below the peg, inside the frame i.e. in the "cutting" space. The slack will be wound on later.

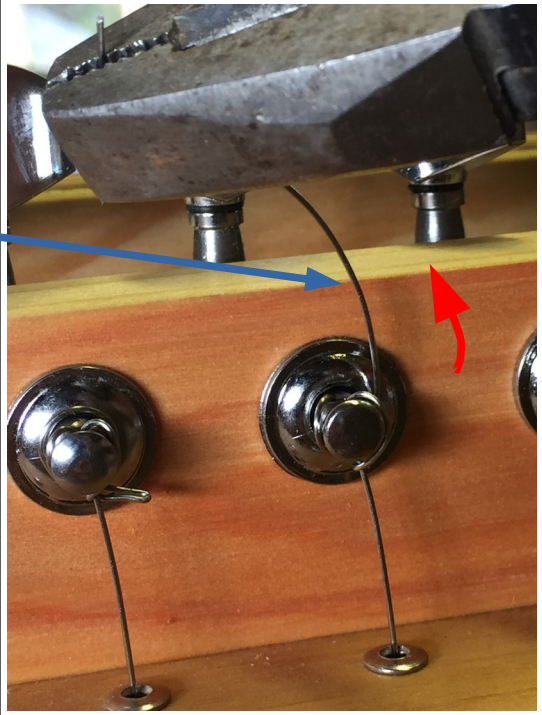
Make sure you still have some slack, then take the wire through the hole in the peg and make a right angle bend.

Loop the end of the wire down and around the **back** of the wire that went through the hole.	
Pull the slack wire down with one hand so the right angle you made before is at the top of the hole. While doing this, grab the end of the wire with pliers, and lift straight up as shown in red. Pull firmly so the wire sits tight against the curve of the peg.	

Using the pliers and while keeping a little pressure on the wire the whole time, swing the pliers towards you and down under the stub of the peg, and continue to take the pliers up to the right. The pliers should end up in the position shown here. You should find the wire has made a half-loop around the central wire, near the bottom of the hole.	
If the end of the wire has a kink in it, you may need to trim this off – this is quicker and easier than trying to straighten it. Then take the end of the wire and poke down through the hole at the top and out through the bottom. Grab it with pliers at the bottom.	

Use the pliers to pull the wire down quite firmly, while using your other hand to help guide the wire neatly around the curve of the peg. You want the wire to be tight around the peg and not falling off the end of the stub. You may also need to support the stub end of the peg while pulling firmly.	
Then take the pliers up to the left, again supporting the stub with your other hand.	

Then go back down through the top of the hole.	
Grab it with pliers at the bottom, pull firmly as before, supporting the stub end with your other hand.	

Swing the pliers to the right and up to the top. Once again, pull firmly to keep the wire neat against the peg and use your other hand to support the stub. Then trim the end about here	
For safety - bend a little bit on the end	

Then crimp this tightly. Bend this tag end over so it ends up in a hidden/safe position.