FIBER Flaring Instructions: LP Archery Products, LLC.

SPL = Sight Pin Light (part with wires, brass & connector at ends).

I use a high quality butane torch, but similar ones can be bought at Walmart or hardware stores for around $20-25. A good torch will have/create a blue color flame, and the flame length should be set to 1.5-2 inches long. But a propane torch or even a gas stove flame will work.

The holding time will vary some based on the Allen wrench size (measured across the flats) which is based on the fiber size I'm flaring. The size across flats of the Allen wrench for .010" Fiber should be (~.070") for flaring fiber at the end you look at, and (~.090") at the SPL end. The size across flats of the Allen wrench for .015" or .019" Fiber should be (~.090") for flaring fiber at the end you look at, and (~.110") at SPL end. You need to heat up an Allen wrench for a little while (20-40 seconds) using the small butane torch. You don't want the Allen wrench to be glowing red hot, but when you get it hot enough, it will flare the fiber as you get close to it, without even touching it. If it's not hot enough, the fiber won't flare at all or when you touch the fiber it just sticks to the Allen wrench and no flare.

I always flare the end of the fiber the archer looks at "without" touching the fiber; this creates the smoothest surface and brightest pin to look at. Since this is the end you look at, flare it to the size of pin you desire, less flare smaller pin. Basically I try to flare the fiber at the end that goes into our SPL to approximately 3 to 4 times the size of the fiber I'm flaring. I flare the end that goes into our SPL at first without touching it, then reheat the Allen wrench a little and flare it some more, for .010 I can usually do it without touching the fiber at all to get fiber flared at SPL end to about (.030"-.040"). For .019" fiber, you will need to touch fiber some to get it flared at the SPL end to about (.060"-.080").

As for fiber, there are a handful of companies who make/sell fiber and it's not at all equal. Some brands of fiber degrade while on the shelf. We buy and sell in our kits or separately, Nanoptics brand only. But, they make 2 types of fiber. One is a TSF (Tough) tie in a knot fiber; and one is a USF (Universal) fiber. The USF is still remarkably tough and durable but also much easier to flare and also brighter with or without a supplemental light, and is what we carry and sell.

For anyone redoing fiber that isn't very bright, your problem may be a combination of the old, possibly poor quality fiber, or it's a TSF Fiber; and/or when flaring the Allen wrench not being hot enough, or possibly too hot.

Best Regards and God Bless. Larry Popa.