

The main reason Noodler's uses so many biodegradable materials in its pens (cotton butyrate, ebonite/hard rubber, etc...) is due to experiences with such materials in vintage pens over many years. Cotton butyrate lasts and is extremely crack resistant and holds colors well over long periods of time – and it only biodegrades if composted in moist soil...yet if kept in your dry desk drawer it will last decades. Ebonite can take even longer to biodegrade, for despite being tree sap...many ebonite safety pens survived being in the trenches of World War I long after their owners by several decades. The non-biodegradable plastics of World War II are desired by a different segment of the market – those people who want a gem or mineral like feel and appearance to the pen material over earlier biodegradable materials that are more natural in their warmth and feel...mahogany vrs. agate...it is a matter of preference and choice. Thus I introduce the first Konrad acrylic pens: Rattlesnake and Adrenaline, Baikal, Himalayan Ruby, and John Mung.







**To fill: remove both cap and end cap, cover the nib and feed completely with ink and turn the filler knob counterclockwise until it stops and then clockwise until it stops, remove pen from ink and clean off excess with a paper towel. Occasionally fill/empty/rinse pen with 1/3<sup>rd</sup> ammonia and 2/3<sup>rd</sup> tap water to clean.**



Rear Filler Unit -remove counterclockwise, replace clockwise

Not a single component of the Konrad pen is German made (being handmade of natural ebonite and biodegradable plastics – with components from India, New York, Maryland, and Massachusetts). Yet, its design is extremely German – and is based upon the engineering that went into the state of the art of all German piston filling mechanisms from the postwar Adenauer period (an era when every German expected the utmost practicality and robustness of engineering in their pens). The feed and nib are original Noodler's designs and are friction fit to enable the maximum variety in nib installations, though one may note the clip is pure Adenauer era as is the rounded cap band. The nib is tipped with platinum group metals and is high grade stainless steel

(Noodler's will not issue gold nibs until the current inflation has passed as the current price is viewed as unconscionable and impractical). We assume that we will not be here in 200 years, but would like to think that this design is so intuitive to maintain that there will never be a need for a repair department beyond the limit of our time on earth. Ebonite (feed) can last more than 100 years when well cared for as has been proven by vintage pens. Clips and bands can be replaced by any jeweler worth their salt...and the seal is the same seal used for faucets and can be found at your local hardware store for between \$0.40 and \$1.35 (2012 US est. – no need for the \$45 repair fees and a proprietary seal with this pen!). Unlike plastic feeds, ebonite feeds can be heat set to fit a multitude of both modern and vintage nibs – and the advanced pen user can adjust flow in an ebonite feed to their personal preference (the flex nib on this pen can write with a standard line or a very wet artistic flow). If excessive air in the chamber expands due to the heat of your hand – it can be expelled by twisting the mechanism forward with nib point skyward...likewise additional ink can flood the feed fins if needed for extra wet flexing.

Replacing the seals is as simple as unscrewing the filler counterclockwise and removing the old seals with a paperclip end...matching at the hardware store with a size that works (the design is forgiving of some slight variation) and replacing by slipping the new o-rings in place. Use plumber's faucet lubricant (pure silicone grease) to lubricate the mechanism (fill the gap between the o-rings with the grease before installing) which can be obtained for approx. \$2 at the local hardware store. Unlike many modern pens, this pen is threaded throughout and can be disassembled and reassembled by the owner as needed – just as the pens of the Adenauer era could be!

We believe the rational mind in the age of reason seeks the best in writing instruments in terms of: robust engineering, practicality/utility, and adaptability – and it is with particular pleasure that this pen retails for what I myself would have paid for one in 1987....yet in 2014 Dollars !

