



# #749-006-612 Sinclair Case Neck Sorting Tool

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*Congratulations! You have purchased another fine Sinclair reloading product. Please take a couple of minutes to read the following instructions prior to using your new Sinclair product.*

Your new Sinclair Case Neck Sorting Tool is designed to sort cases by neck wall thickness uniformity. If you do not require measurements finer than .001" (one thousandth), it will also allow you to check case neck thickness in lieu of a ball or case neck micrometer. It is intended for use with either a .001" (one thousandth) reading dial indicator or digital indicator, both with a  $\frac{3}{8}$ " shank. This tool will not accept most .0001" (one ten-thousandth) reading dial indicators.

New cases may vary in thickness by as much as .005" (five thousandths) around the neck circumference. Most good shooting rifles will be able to distinguish variances exceeding .003" (three thousandths). Cases that exceed this amount should either be neck turned or culled for use as plinking or fouling rounds.

## Instructions For Using The Sinclair Neck Sorting Tool

**Left-Handed Users:** You may want to switch the location of the indicator to the left side of the tool body. To accomplish this simply use a  $\frac{3}{16}$ " hex wrench to remove the screw located at the top of the tool body. Remove the top of the tool body and rotate it so that the indicator hole is on the left side of the tool. Re-install and tighten the screw using the same  $\frac{3}{16}$ " hex wrench and you are ready to complete assembly of the tool.

Prior to use, cases should have their casemouths deburred and chamfered, and flash holes should be deburred or reamed. Cases must not be primed. Trimming to length is not required, but is a good idea.

The tool consists of two major components, not counting the indicator and neck pilot; the tool body and the support rod as assembled when received.

- 1) Remove the support rod from the frame by loosening the thumbscrew. Note: 17 and 20 caliber shooters: read forward to the section headed "For Use With 17 & 20 Caliber Cases"
- 2) Select a neck pilot of the correct caliber and slip it over the support rod with the small diameter end toward the end of the support rod that has two steps. Do not tighten the setscrew in the neck pilot.



- 3) Slip a case over the neck pilot. Using the case, push the neck pilot down the support rod until the case stops with the end of the support pin protruding through the flash hole.
- 4) Using a  $\frac{5}{64}$ " hex wrench (17 & 20 Caliber neck pilots require  $\frac{1}{16}$ " hex wrench), tighten the neck pilot set screw to the support rod and insert the support rod (with the case) into its hole until the neck pilot stops against the tool body. Do not tighten the thumbscrew.
- 5) Install your dial or digital indicator as shown in the photo until the indicator makes contact at the top of the frame. Then back it off slightly, a few thousandths is plenty. Secure the indicator into the tool body by tightening the thumbscrew (At this point the indicator tip should be making contact with the case somewhere between the case mouth and the shoulder/body junction.)
- 6) Adjust the location of the indicator tip on the case neck by sliding the support rod in or out of the hole. When the indicator is approximately in the middle of the neck tighten the thumbscrew at the bottom of the tool body to secure the support rod. You are now ready to use the tool.

To use this tool, simply spin the case slowly on the neck pilot while watching the indicator. This will tell you the amount of variance each case has in neck thickness.

### **For Use With 17 & 20 Caliber Cases**

17 and 20 caliber cases require the use of a special support rod and neck pilot(s). These parts are available separately and in kit form.

- 1) Remove the standard support rod from the tool frame and slip it into the hole at the back of the tool body. Tighten the thumbscrew to lock the rod in place.
- 2) Find the small caliber support rod hole located just above the standard hole. Remove the thumbscrew that secured the standard rod and thread it into the hole on top of the tool body.
- 3) Follow the standard instructions listed above using the small support rod and  $\frac{1}{16}$ " hex wrench in place of the standard support rod and  $\frac{5}{64}$ " hex wrench.