

WS9A Semi-con Shaving Tool

Instruction Sheet

Warning! This tool should not be used on live electrical circuits. It is not protected against electrical shock! Always use OSHA/ANSI or other industry approved eye protection when using tools. This tool is not to be used for purposes other than intended. Read carefully and understand instructions before using this tool.



The *Utility Tool* WS9A shaving tool is used to remove bonded semi-con insulation screen from URD cables that are typically, but not limited to cables rated from 5 - 35kv. The tool is applicable to cable with a semi-con diameter of .55" - 2.25" (13.97 - 57.15mm)

Tool Set Up

1. Use a sample piece of cable cut with a hack-saw, to make blade adjustments.
2. Straighten and wipe cable clean.
3. Apply a film of silicon cable lubricant over area to be shaved.
4. There are two adjustments for the blade positioning: "A" Blade holder position, and "B" Blade depth position. (Fig.1)

To set Blade holder position:

Place cable in tool with the blade extending just over the cable end, and tighten adjusting knob "C", clamping cable firmly in the tool jaws. Position and tighten the blade holder so the cutting radius edge "D" of the blade is at 11:58 o'clock, in other words, just before "dead center" of the cable's vertical axis.

To set blade depth position:

The graduations on the blade holder are reference marks when re-setting positions. Looking into the cable end, Fig.1, set the blade depth so its cutting surface is just below the semi-con thickness, slightly into the insulation. Rotate the tool a few turns around the cable with a slight forward pressure. Note how much insulation is being shaved along with the semi-con. Back the blade depth adjustment out in minute stages until the least amount of insulation is removed with the semi-con. This will be the final Blade depth setting. (A few mils of insulation removal is not a detriment.)

5. The tool is now ready for use.
 - a. Be sure the cable is straight for the length to be shaved, and wipe clean.
 - b. Apply a film of silicone cable lube over area to be shaved.
 - c. Clamp tool firmly over cable.
 - d. Rotate tool around cable in a continuous motion, controlling the forward "travel" to produce a shaving width between 1/16" and 1/8" wide.
 - e. Occasionally pull off any accumulation of shavings that may bunch up ahead of the tool as the tool is rotated.
 - f. *Utility Tool* QC-2 stop clamp or a hose clamp can be used as a "stop" to produce a squared-off finish.
 - g. Loosen and remove tool.
 - h. Note that the WS9A tool produces a small corner radius between the insulation and semi-con as shown in Fig.2. If a tapered form is desired, *Utility Tool* WS9C will produce this.
6. If required, the insulation surface can be further smoothed by polishing with an Aluminum Oxide abrasive tape.

Fig.1

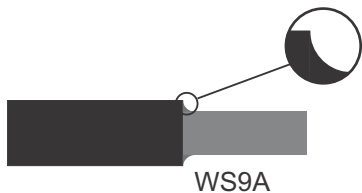


Fig.2



For best results, keep the cutting edge well honed. Ripley has available Model HS1, Honing Stone set for this purpose.

WS9A replacement blade: CB40X (p/n 21715)

WARRANTY: RIPLEY warrants its products against defective materials and workmanship for a period of one year from date of shipment from the RIPLEY factory provided the product is utilized in accordance with instructions and specified ratings.



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