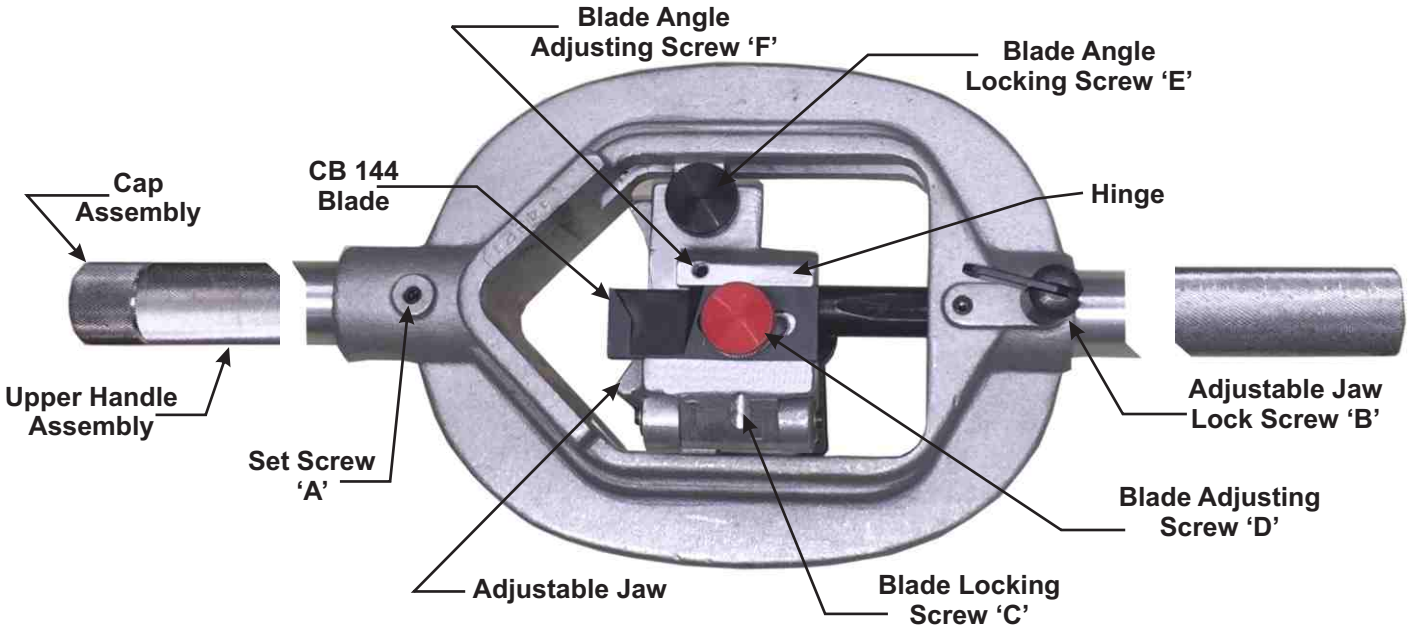
WS57
Adjustable High Voltage End Stripper
Instruction Sheet

Warning! **<u>This tool should not be used on live electrical circuits.</u>** **<u>It is not protected against electrical shock!</u>** 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.



<u>Tool Functions</u>

The WS57 Adjustable High Voltage End Stripper is designed to remove the jacket as well as the insulation from underground power cables. The size range of the cable diameter for this tool is 2" to 4.25". It is a hand operated tool which allows for complete adjustment in order to handle a wide range of cable specs. Adjustments can be easily made in the following areas; size of cable, jacket and/or insulation diameter. Blade depth is adjustable from 1/64" to a maximum of 1". The lead angle of the stripping blade is adjustable to allow for the amount of insulation being removed. The tool weight is approximately 7 pounds and is 24" long.

<u>SETTING UP THE TOOL</u>

A. In order to allow for compact shipping, the tool has been shipped to you in two parts. The upper handle assembly must be inserted into the body housing and secured with set screw "A". A 5/32" hex wrench has been supplied for your use.

B. Description of various tool Adjustments are as follows:

<u>Adjustable Jaw lock screw "B"</u>
Loosening this lock screw allows for the repositioning of the adjustable jaw component to fit various cables.

<u>Blade Adjusting Screw "D"</u>
Loosening this screw allows the end stripping blade to be adjusted and positioned in place.

<u>Blade Locking Screw "C"</u>
This screw is used to lock the stripping blade location after it has been correctly adjusted in place with Blade Adjusting Screw "D". A hex wrench is supplied for your use and is part of the cap assembly found in the upper handle.

Blade Angle Adjusting Screw "F"
This set screw allows for the angular adjustment of the blade into the cable insulation. A hex wrench is part of the cap assembly in the upper handle. This adjustment is used in conjunction with the blade angle locking screw "E".

Blade Angle Locking Screw "E"
This allows for a permanent lock-up of the adjustable hinge.

CABLE PREPARATION

The end of the cable should be cut square with a proper cable cutter (curved jaw design) or with the use of a saw. It is important not to flatten the round conductor appearance.

Using a silicon lubricant on the cable diameter will allow a much smoother operation by minimizing the friction between the tool and cable.

USING THE ADJUSTABLE END STRIPPING TOOL

1. Loosen the adjustable jaw lock screw (B) and open the adjustable jaw opening so it will fit over the cable. Position the tool over the cable, adjust the jaw to fit the cable diameter and tighten Lock Screw B locking the jaw in place. Check for proper rotating clearance by rotating the tool in a clockwise (CW) direction for a full revolution. This will check for any out of round condition that will cause binding of the tool. If too much binding is incurred, then re-adjust the clearance of the jaw assembly by loosening and retightening the Lock Screw B.

2. The blade hinge adjustment has been initially set at our factory. Final adjustment cab be made after the blade depth adjustment has been done. Optimum stripping results are obtained when this hinge adjusting is set so that the insulation chip (curl) thickness is approximately 1/8" to 3/16".

3. Blade setting for Jacket Removal
Blade positioning is achieved by loosening Blade Locking Screw "C" and then loosening Blade Adjusting Screw "D". With the tool assembly positioned over the cable end, slide the blade upward so the bottom of the blade is approximately 1/32" from either the concentric neutral stranding or wrapped metallic tape shield. At this position, tighten the blade locking screw "D" and then tighten screw "C".

Rotate the tool in a counterclockwise (CCW) direction and observe how the jacket material is being stripped off. Minor adjustments to the blade depth setting may need to be done. This is accomplished by loosening screw "C" and then screw "D", repositioning the blade and tighten screws "D" and "C" again.

If required, the blade hinge assembly can be adjusted to either increase or decrease the thickness of the jacket material. This is accomplished by loosening the Blade Angle Locking Screw "E" and repositioning the Blade Angle Adjusting Screw "F" either in or outward as desired. Once a setting has been chosen, then the Locking Screw "E" is tightened to hold this position.

4. Blade Setting for Insulation Removal
The cutting blade is positioned for depth and pitch in a similar way as jacket stripping. Start with a blade depth set about 1/32" above the conductor. Use the positioning and locking screws described above. It is likely the blade pitch will be set somewhat more aggressively that jacket stripping. Adjust the pitch with the locking screws described above.

5. Ending the stripping operation can be accomplished by either manually retarding the forward motion of the tool, or by setting a stop clamp on the cable diameter. A stop clamp will stop the forward motion of the tool automatically and can be positioned so an exact strip length is produced.

Blade Repacement

End Strip Blade - CB144 p/n 34327

1. Loosen Blade Locking Screw “C” approximately 3 turns, remove Blade Adjusting Screw “D” and remove blade from tool. Secure new blade in tool and adjust depth accordingly.

WS 57A End Strip/Semi Con Shaving Tool

Semi-con removal

Like the end strip blade, the WS57A shaving blade is an adjustable depth assembly. A two or three foot sample of cable is needed to preset the blade to a proper depth.
Before the tool is placed on the cable, make sure all blades are retracted away from their ability to cut. The CB144 should be set to its uppermost position. The shaving blade assembly should be set with the white line at the top of the jaw (FIG.1). Lubricate the cable where it will be shaved with silicon. Position the tool on the cable with the blade overhanging the cable end. A snug close fit will result in a smoother shaved surface. Flip the cam arm over to lower the shaving blade down into its operating position (FIG.2). Loosen the thumb screw to set the blade assembly about 1/8” deep (FIG.3). Retighten the screw. Be sure the first blade setting is deep enough to remove all the semi-con. Readjusting the blade upward (shallower) is easier than resetting it downward into the insulation.
Shave a couple inches of cable. Reset the blade depth with the thumb screw until a minimal amount of insulation is being removed with the semi-con.

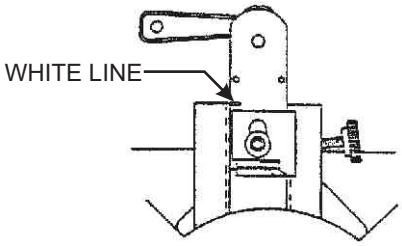


Fig.1

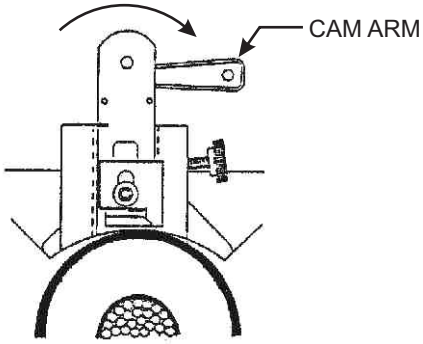


Fig.2

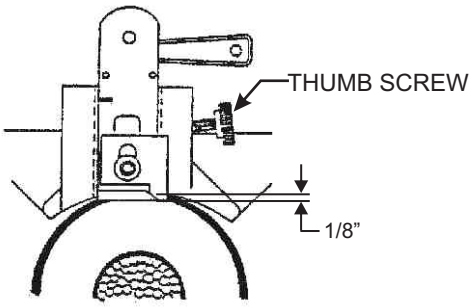


Fig.3

The replacement shaving blade is a CB-40X. After replacing, reassemble the limit block directly over the blade (FIG.4). The bottom notch should be even with the bottom of the blade. This part limits the width of the shaved chip.

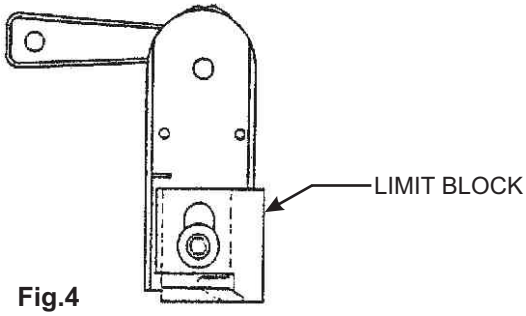


Fig.4

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