

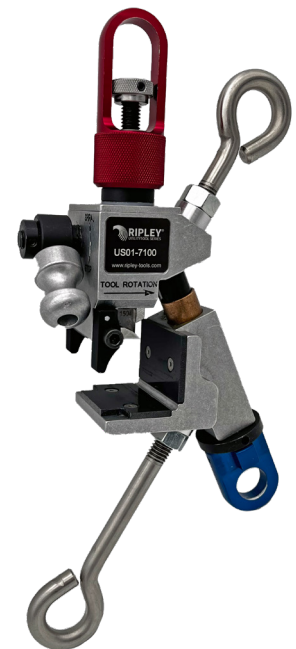


US01-7100

STICK OPERABLE ADJUSTABLE OVERHEAD MIDSPAN & END STRIPPING TOOL

WARNING! THIS TOOL IS NOT PROTECTED AGAINST ELECTRICAL SHOCK! Always use OSHA/ANSI/CE 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.

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



US Patent 10,630,062

Product Overview

The US01-7100 is a fully adjustable insulation removal tool for medium voltage overhead cables. This tool works on all typical XLPE insulated overhead cables with a #2 thru 795mcm conductor range, and 15-35kv insulation thicknesses. The US01-7100 can either midspan or end strip the cable insulation. The tool can be operated on an energized line using a compliant hotstick and switch stick. The US01-7100 is also capable of jacket and insulation removal from underground medium voltage cables.

Product Features

- fully adjustable from 0.5" to 2.5" cable diameter
- insulation thickness range 125 to 350 mils (15-35kv)
- nylatron bearing surfaces for smooth turning
- midspan and end strip capable
- operable with a hotstick and switch stick on a live line
- glove operable, as desired
- easy blade change out

Operating Instructions

1. Working parts of the US01-7100 tool

A. Lock Knob (blue). Held with a shotgun and rotated to open and close the tool to clamp the tool onto the cable and remove it when the strip is completed.

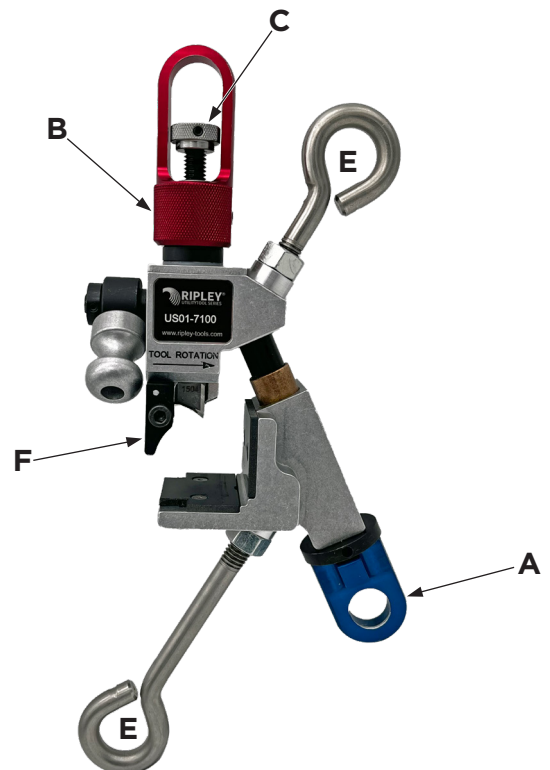
B. Blade Depth Adjusting Knob (red). Rotate this knob to set the blade 1/32" above the conductor diameter.

C. Blade Depth Stop Knob. Position this knob to maintain the stripping blade depth for repeated strips of the same cable.

D. Blade Angle Lever. Two blade angle settings. The tool will strip the cable on the Spiral setting, or square off and end a strip on the Stop setting.

E. Drive Handles. Traditional overhead ring form to rotate the tool with a shotgun or switch stick.

F. Cable Holders. Designed to keep the tool mounted on the cable while tightening to the Lock Knob.



2. Follow the steps in 2.1 to strip a 15kv cable.
 On the following page, see the steps in 2.2 to strip a 25kv or 35kv cable. Or follow the steps in 2.3 for stripping a cable with an unknown conductor and insulation thickness.

2.1 Midspan strip a 15kv cable.

A. Initial Tool settings.

1. The Blade Angle Lever should be in the Stop position.
2. The Blade Depth Stop knob should be about 1/2" above the Blade Depth Adjusting Knob surface.
3. The Blade Depth Adjusting Knob is rotated fully counter clockwise for a full UP blade position.

B. Refer to the depth setting label on the tool. For a 15kv cable, the red Blade Depth Adjusting Knob is to be rotated clockwise 3 turns deep from the full up position. (Fig 4)

D. Secure the tool into a shot gun using the Lock knob (A) and clamp the tool onto the cable from behind. The Blade Angle Lever will be facing forward. (Fig 2a)

E. With a switch stick, rotate the tool backwards (CCW) to feel the clamping tension. The tool should be snug on the cable, but still turn relatively easy. Adjust the Lock Knob tension if needed.

F. Strip the cable. With the Blade Angle Lever in the Stop position, rotate the tool 1 full turn with the switch stick to channel a cut to the conductor. (Fig 2b)

G. Observe the channel cut. If the bare conductor cannot be seen, rotate the blade depth knob up to one extra turn clockwise for a closer blade depth.

H. Bump the Blade Angle Lever to Spiral and rotate the tool to strip a desired section of the cable. (Fig 2c)

I. Bump the lever back to Stop. Then rotate the tool 1 extra turn to end the strip.

J. Leave the blade at this depth setting to perform more 15kv strips.



Fig. 2a



Channel Cut
 - Blade is 3 turns deep
 - Blade in Stop Position
 - Rotate tool 1 turn CW



Stripping Cut
 - Blade in Spiral Position
 - Resume Clockwise tool rotation

Fig. 2b

Fig. 2c

2.2 Midspan strip a 25kv or 35kv cable.

A. For 25kv and 35kv cables, the channel cut to the conductor will be done in two steps.

B. Follow the 15kv steps for securing the tool on the cable.

C. Strip the cable. Rotate the red Blade Depth Knob 3 clockwise turns from the full UP position.

D. With the Blade Angle Lever in the Stop position, rotate the tool one full revolution to channel 1/2 of the insulation. (see Fig. B at right)

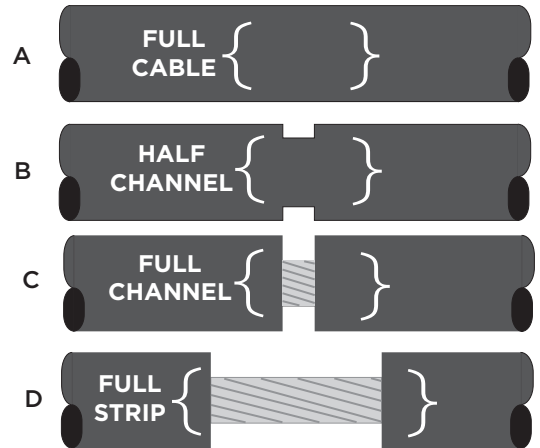
E. Leave the tool in the Stop position and rotate the Blade Depth Knob 2 more clockwise turns.

F. Rotate the tool to channel a cut to the bare conductor. (see Fig C)

G. Observe the full channel cut. If the bare conductor cannot be seen, rotate the Blade Depth Knob up to one extra turn clockwise for a closer blade depth.

H. Bump the Blade Angle Lever to Spiral and then rotate the tool to strip a desired section of the cable. Bump the lever back to Stop to end the strip (see Fig. D)

I. Remove the tool from the cable and back the Blade Depth Knob fully counterclockwise to full UP for the next strip.



2.3 Midspan strip an unknown conductor size and insulation thickness.

A. Follow the 15kv steps for securing the tool on the cable.

B. The blade depth will be established by channeling a cut to the conductor, one turn at a time.

1. With the blade in the Stop position, rotate the Blade depth knob 1 turn. Then rotate the tool around the cable 1 revolution.

2. Carefully repeat these 1 turn intervals together to remove thin sections of insulation. Continue until the conductor begins to show exposure. Avoid setting the blade too deep.

C. Strip the cable.

1. Move the Blade Angle Lever to spiral and rotate the tool forward to strip the cable.

2. When the desired strip is achieved, rotate the lever to Stop to end the cut.

3. Blade Depth Stop Knob

A. The Blade Depth Stop Knob is a useful tool feature to help maintain the blade depth setting on repeated strips.

B. On a properly adjusted tool, rotate the Blade Depth Stop Knob until it is snug against the blade depth knob.

C. This prevents conductor damage by ensuring the blade is not inadvertently adjusted too deep.

4. Spare Blade Holder

A. There is a spare blade located inside the spare blade compartment. (Fig. 5)

B. Remove the hex screw to access the compartment.

C. Change blade by fully extending blade depth to gain access to the hex screw and remove.



Fig. 3

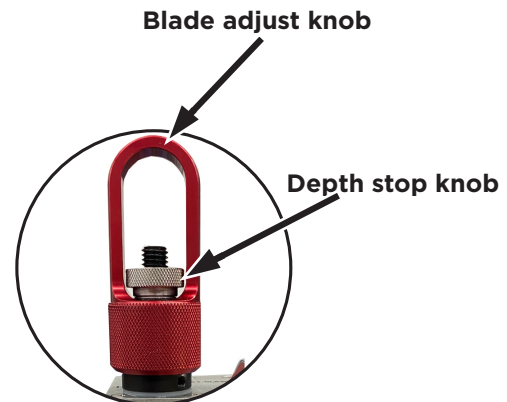


Fig. 4



Fig. 5

Replacement Blade: US01-7501

Page 3 of 3