RIPLEY®

US01-7200

ADJUSTABLE 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.

Features

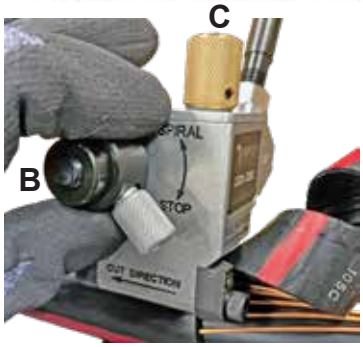
- Adjustable from 0.5” to 2.5” cable diameter
- Range of 600v-35kv cables
- Insulation thickness of .060” to .420”
- Ring and Spiral cut selector switch
- Unique clamping design
- Belleville springs for secure clamping
- Adjustable blade depth
- End strip capability
- Midspan stripping capability
- Concentric jacket remover capable
- Nylatron bearing surfaces for smooth turning
- Insulation chip deflector
- XLPE, PE, EPR insulation removal
- Universal single blade
- Ergonomic handles for turning leverage
- Removable handles to strip in tight locations
- Easy blade change out

Stripping Functions

- Jacket Removal
- Insulation Removal
- Overhead Insulation Removal (Midspan Stripping)

Operating features

1. Adjustable for different cable diameters
   - Rotate thumb knob (A) to draw the jaws together around cable diameter
2. Blade Angle Lever
   -The tool will strip the cable on the Spiral setting, or square off and end a strip on the **Stop** setting. (B)
3. Blade Depth Adjustment
   - Rotate the Blade Depth screw (C) for the desired depth setting.



Part Numbers

US01-7200	Adjustable Stripper
US01-7205	Adjustable Stripper with Stop Bar
US01-7504	Blade Depth Gauge Kit
US01-7507	Stop Bar Retrofit Kit

Insulation End Stripping

To end strip 5-35kv insulation these steps are recommended.

1. Insulation materials. For XLPE and PE insulated cable, use any of the US01 tool models. It is recommended to remove the semi-con first and then strip the insulation from the conductor.

XLPE cable - remove semi-con first

EPR cable - remove semi-con and insulation together

2. Secure the tool onto the cable.

3. Set the blade depth approx 1/32" - 1/16" above the conductor. Fig.8

4. Blade Angle Lever
The tool will strip the cable on the Spiral setting, or square off and end a strip on the Stop setting. Rotate tool back slightly to relieve pressure when changing setting. Fig.9

Fig.8

Fig.9

Insulation Midspan Stripping

To midspan strip, these steps are recommended

A) 5 and 15kv cable

1. Establish the blade depth.

a. If a scrap piece of cable is available, set the depth about 1/32" above the conductor similar to the end stripping instruction.
The blade depth can be set on an active wire in the following way:
b. Before securing the tool on the cable, retract the blade fully upward and set the blade angle to Stop.
c. Position the tool on the wire at the strip location and clamp tool on securely.
d. Turn the blade depth knob 1 to 2 turns to drop the blade. Rotate the tool to remove a thin segment of insulation. Continue dropping the blade incrementally and cut a deeper channel until the conductor is exposed. Fig.13

Fig.13

2. Operation. The tool is now ready for operation.

a. Set the blade angle to Spiral setting. Rotate the tool to start the stripping action Fig.14. Carefully observe the blade depth and readjust if necessary.
b. Stop the tool by re-adjusting the blade angle to Stop and turn until the insulation chip breaks off.

3. Repeat operation. The blade depth is now OK for repeat work.

a. Clamp the tool on the cable at the Stop blade angle setting.
b. Rotate the tool to make the channel cut and expose the conductor.
The insulation can be channel cut in one full piece on 5 and 15kv cable.
c. Proceed to strip a length of insulation by adjusting the blade angle.

Insulation Strip Lengths

1. Establish the conductor strip length (L)

a. Similar to jacket stripping, determine where the tool will finish the end strip cut. As shown in Figure 10, '**L**' is the length of the exposed conductor.

b. Mark the spot appropriately

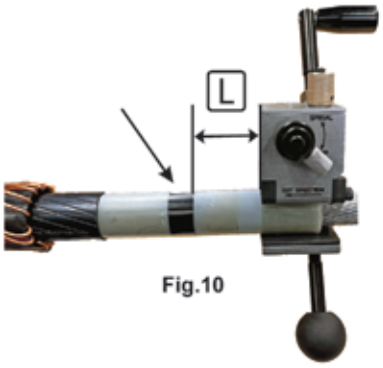
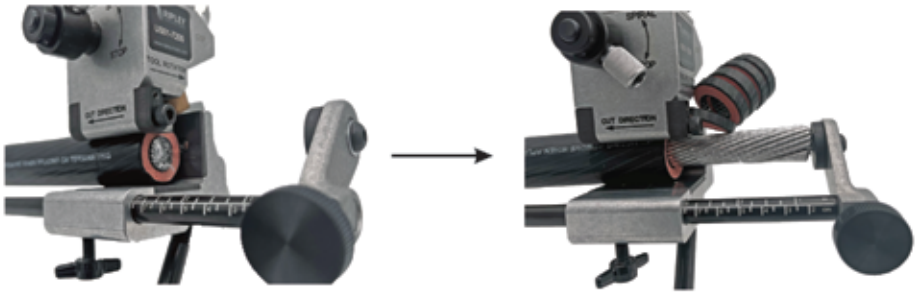


Fig.10



1.5 Set strip length with the optional Strip Stop

Adjust strip stop to desired strip length with the blade edge touching the cable end. Conductor will reach the stop plate at the determined length.

2. Start the cut. Rotate the tool around the cable to start the cut. (Fig.11) Carefully observe the blade depth and adjust if necessary. Continue stripping until the tool edge reaches the end point.

Fig.11

3. End the cut.

Change the blade angle to "Stop" to end the cut at the desired length and square off the insulation. (Fig.12)

Fig.12

B) 25 and 35kv cable

1. Establish the blade depth. Similar to 15kv cable, a channel cut must be made to expose the conductor with the blade at the 0° angle. Start with the blade fully retracted, then remove the insulation in small segments, 2 to 3 blade depth turns at a time. Do not attempt to remove too thick a chip of insulation. More than 3 depth turns can break the blade. The final blade depth is approx. 1/16" above the conductor. The tool in Fig.14 is fitted with a positive depth stop. This accessory is useful for protecting the conductor and blade from damage and is detailed below.

2. Operation.

With the conductor exposed, change the blade angle to Spiral to strip a length of insulation. When the length is achieved, adjust the blade angle back to Stop to end the cut.

3. Repeat operation. The blade must be retracted fully after every operation and a channel cut must be made in small, thin segments for every prep. **The insulation on 25 and 35kv cable is too thick to channel cut in one piece.** It will typically require 2 or 3 depth cuts to reach the conductor on 25kv cable and 3 or 4 depth cuts on 35kv cable.

Fig.14

Fig.15

Fig.16

Jacket Stripping

1. **Establish the jacket strip length - (L)**
   Measure the jacket strip dimension from the inner side of the tool. (L) Mark this location on the cable (Fig.3) or place a tool stop there like the QC-2 Clamp or using the Stop angle setting. (Fig.4)

2. **Start the cut.** Rotate the tool around the cable to start the cut. Carefully observe the blade depth and adjust if necessary.

   After approx. 2" of stripping, **tape down the neutral wires** or shielding at the end of the cable to control spring back. See Fig.5

3. **To end the cut**, continue to rotate the tool up to end point. Using a stop clamp helps ensure a clean cut. Rotate the tool against the clamp or a gloved hand to break off the insulation chip and end the cut. Fig.6 Rotate tool back to relieve blade pressure when changing blade angle.

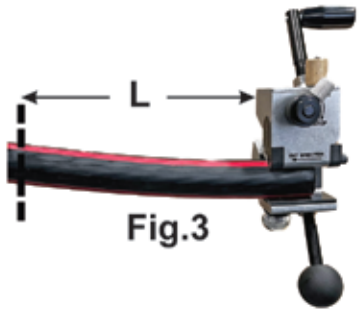


Fig.3

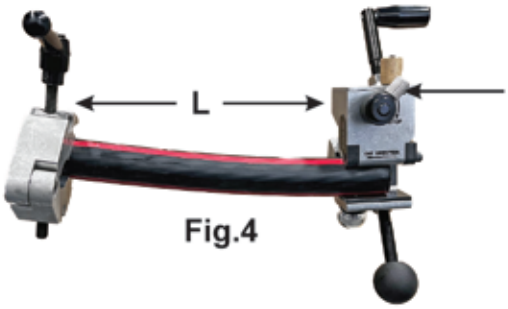


Fig.4

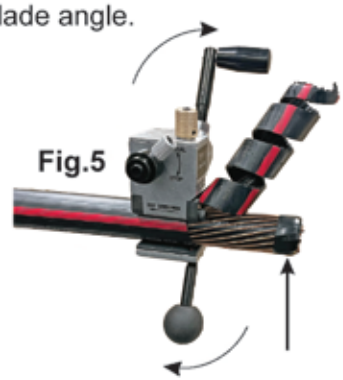


Fig.5


"Stop" Setting to Stop Strip

Fig.6

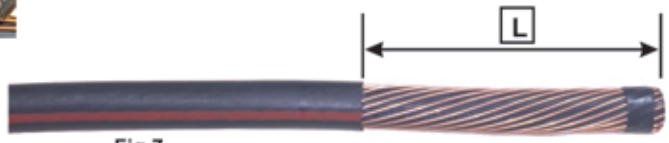


Fig.7

Blade Replacement

1. Lower the blade until the mounting screw is visible.
2. Remove the mounting screw with the 1/8" hex key.
3. Remove the blade and re-install the new blade.

Replacement blades are kept inside the blade compartment
The same 1/8" hex key can be used to remove cover.

RIPLEY® UTILITYTOOL SERIES
Ripley Tools
46 Nooks Hill Road
Cromwell, CT 06416
HUBBELL®
Phone: +1 (800) 528-8665 Fax: +1 (860)635-3631 Email: ripley_csr@hubbell.com www.ripley-tools.com

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