

PROPER USE GUIDELINES

Cumulative Trauma Disorders can result from the prolonged use of manually powered hand tools. Hand tools are intended for occasional use and low volume applications. A wide selection of powered application equipment for extended-use, production operations is available.

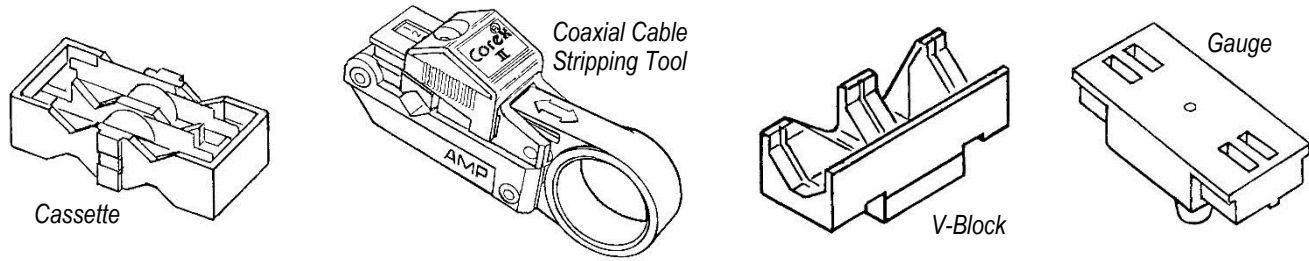


Figure 1

1. INTRODUCTION

Coaxial Cable Stripper Kits 603995-1 through -6 are capable of cutting and stripping five different sequential settings on three different areas of various coaxial cable sizes; see Figure 2. This sheet covers the cutting and stripping of the cable, the installation of new cutting blades, cassettes, adjustment gauge, V-blocks used for the various cable sizes, and adjustments and troubleshooting. See Figure 1.

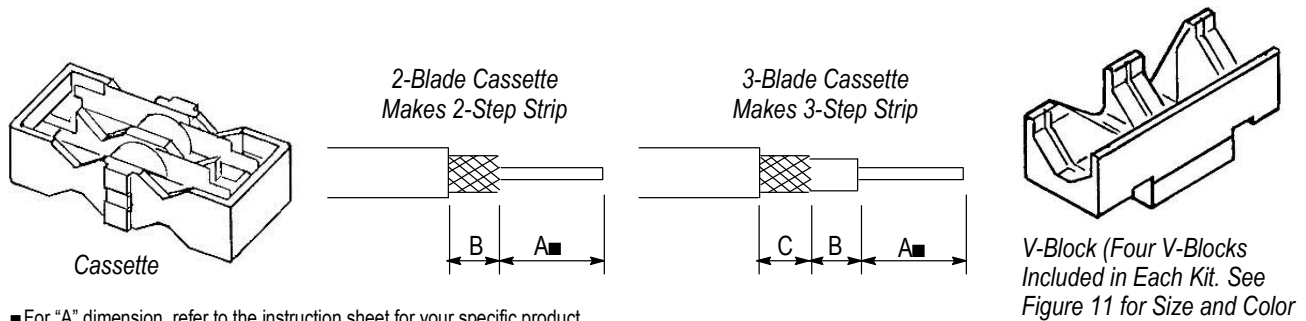
i NOTE
Dimensions on this document are in metric units [with U.S. customary units in brackets]. Figures and illustrations are for reference only and are not drawn to scale.

! CAUTION
Do NOT use stripping tool on coaxial cables with drain wires.

! CAUTION
A 3-step tool is not recommended for most styles of RG-62 cable, nor for many cable styles with cellular polyethylene or other soft dielectrics. Use 2-step tool instead.

Read these instructions thoroughly before using the tool.

Reasons for revisions to this document are provided in Section 9, REVISION SUMMARY.



■ For "A" dimension, refer to the instruction sheet for your specific product.

COAXIAL CABLE STRIPPER KIT		CASSETTE COLOR	BRAID STRIP DIMENSION		PRODUCT	CABLE DIA RANGE
STYLE	PART NO.		"B"	"C"		
2-Step	603995-1	Red	6 [.24]	---	Single Crimp BNC	2.54-7.62 [.100-.300]
	603995-2	Blue	6.8 [.27]	---	Commercial BNC	
	603995-3	Yellow	12 [.48]	---	UHF	
3-Step	603995-5	Black	5.5 [.22]	5.5 [.22]	Dual Crimp BNC	
	603995-6	White	2.5 [.10]	6.8 [.27]	Dual Crimp Commercial BNC	

Figure 2

2. DESCRIPTION

The Coaxial Cable Stripping Tool automatically strips coaxial cable with jacket diameter of 2.54 to 7.62 mm [.100 to .300 in.], with minor adjustments. Shipped with the tool is one color-coded cassette, four V-blocks and a hex wrench.

Kits come in two styles: a 2-step kit for 2-step stripping, and a 3-step kit for either 2-step or 3-step stripping. (The 3-step kit will accommodate both 2-step and 3-step cassettes.)

Cassettes have pre-set strip lengths. Refer to instruction material for your connector to determine your strip requirements, then refer to Figure 2 to find which cassette meets your strip requirements.

Note the parts of the coaxial cable stripping tool in Figure 3.

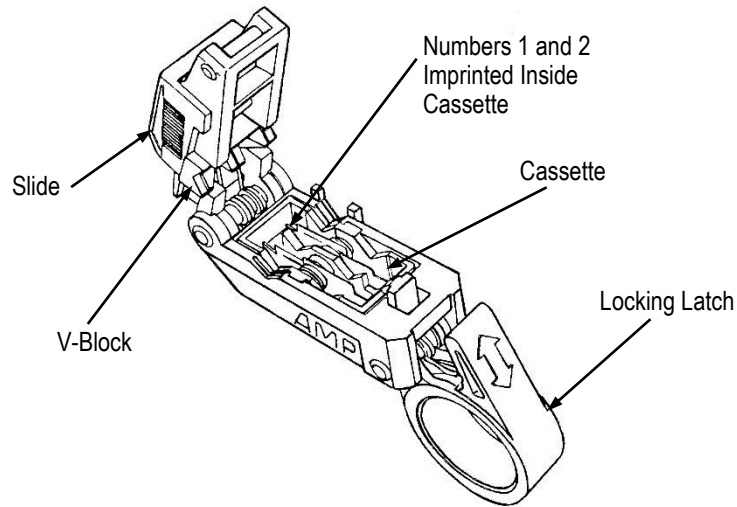


Figure 3

3. STRIPPING PROCEDURE

Follow these steps when stripping with the Coaxial Cable Stripping Tool:

1. Adjust slide to position 4 or 5.
2. Open tool by rotating locking latch downward, as shown in Figure 4.
3. Mark jacket of cable for center conductor length. (If you have a simple wire cutter, ignore this instruction. You can cut center conductor to length after the strip or use conductor stop C-ST).
4. Hold the tool with the handle toward you and insert cable from left into the groove position. Close and latch tool. See Figures 5 and 6.

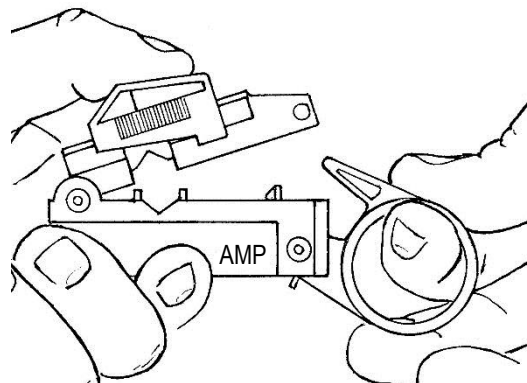


Figure 4

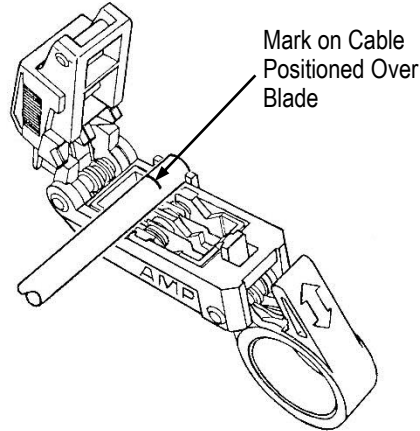


Figure 5

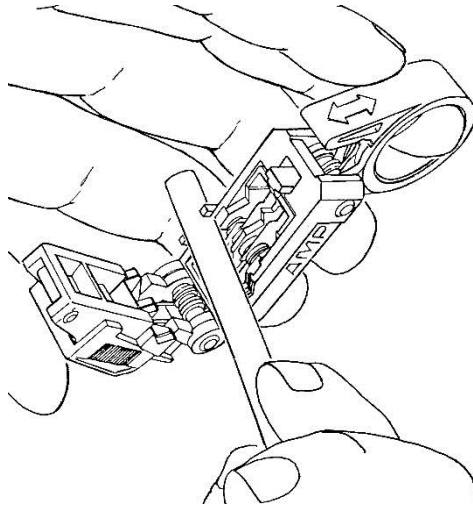


Figure 6

RECOMMENDED SETTINGS

COAXIAL CABLE	V-BLOCK	SLIDE POSITIONS
RG-58	Blue	3, 2, 1
RG 59, 62	Blue	5, 4, 3
RG 174, 188, 316	White	4, 3
RG 6	Yellow	5, 4, 3
BELDEN 8281	Yellow	5, 4
RG 195, 180	Red	4, 3, 2

Figure 7

5. Push slide forward to appropriate start position (see Figure 7). Make sure proper V-block is installed.
6. Rotate tool around cable about five times (see Figure 8). Push slide forward to next position in sequence. Rotate tool again. Then push slide forward to final position and rotate tool final five times.
7. Move slide back one position. Then pull cable out carefully while squeezing tool (see Figure 9). If there is too much resistance or strip is imperfect, refer to Section 4.

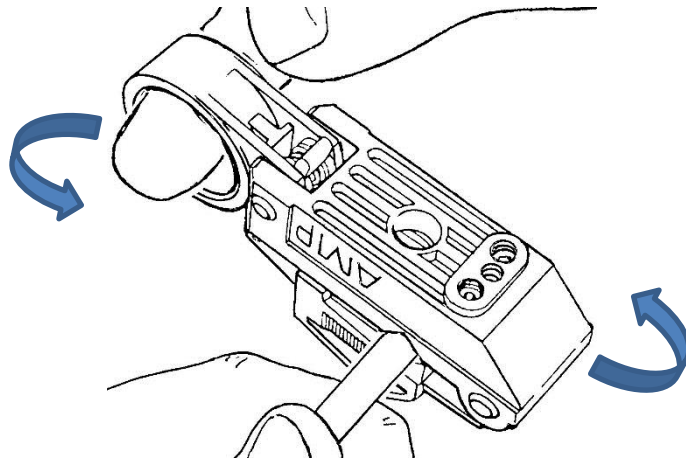


Figure 8

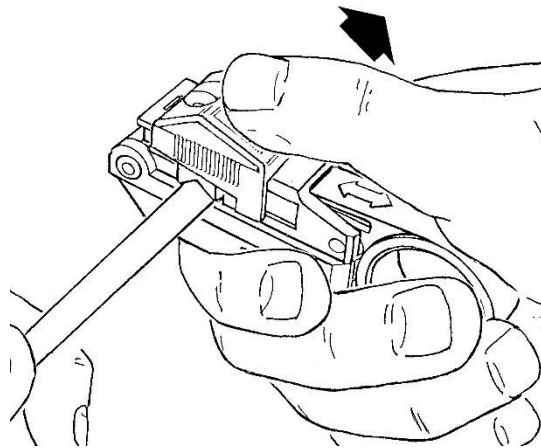


Figure 9

4. ADJUSTING THE TOOL

1. Inspect your first strip. Determine how deeply each blade has scored the cable. See Figure 10 for the proper direction you may have to adjust.
2. Adjust blade depth to match your cable by turning hex screws at base of tool (see Figure 10).

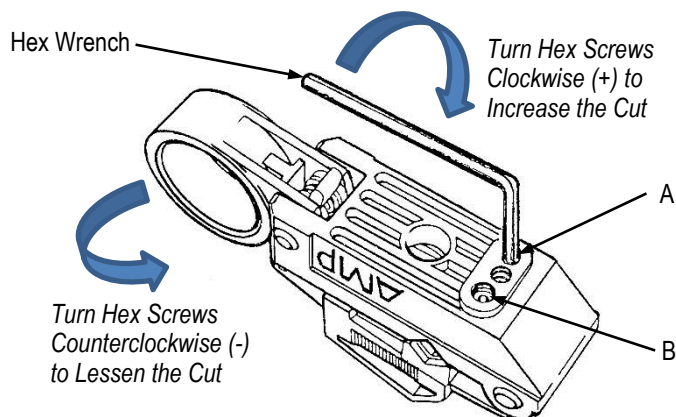


Figure 10

i **NOTE**
 If a blade is near its proper depth, turn its screw approximately one-quarter turn ($\pm 90^\circ$). If a blade is farther from its proper depth, turn its screw approximately three-quarter ($\pm 270^\circ$) to one complete turn ($\pm 360^\circ$).

i **NOTE**
 Adjust tool so that the appropriate slide progression works correctly (see Figure 7); develop your own 2- or 3- stage sliding sequence.

3. Try stripping again per Section 3, following Steps 1 through 7. If strip is still not acceptable, adjust blades again, following instructions in Steps 1 and 2.

5. SOLUTIONS TO TYPICAL PROBLEMS

If braid is twisting too much, turn hex screw to increase cut of braid-cutting blade one-quarter turn CLOCKWISE ($+90^\circ$), and turn hex screw for jacket-cutting blade one quarter turn COUNTERCLOCKWISE (-90°).

If, after repeated adjustment, most of the braid will not cut properly, the blade set is probably worn out. Reverse cassette to try new blade set.

With RG-174 or other very thin cable, very fine adjustment is needed. Expect to make several small adjustments, approximately one-twelfth turn ($\pm 30^\circ$), to reach proper blade depth. Use a fresh blade set. Use only high quality thin cable.

6. REPLACEMENTS

6.1. Replacement V-Block Selection

Select proper V-block by outside diameter of wire (see Figure 11).

V-BLOCK		
PART NUMBER	CABLE OUTSIDE DIAMETER	COLOR
603997-1	3.0-5.0 [.12-.20]	Red
603997-2	5.0-6.4 [.20-.25]	Blue
603997-3	6.4-7.6 [.25-.30]	Yellow
603997-4	2.5-3.0 [.10-.12]	White

Figure 11

6.2. Changing V-Block

1. Open tool fully (Figure 12) until the springs holding V-block release.
2. Pull out V-block and replace with selected V-block.

i **NOTE**
 With white V-block, you must position springs in holes.

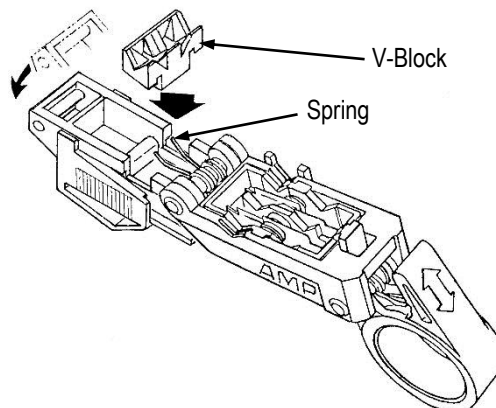


Figure 12

6.3. Cassettes

Each cassette contains 2 sets of cutting edges. Cassette can be reversed each time a blade set wears out. Numbers 1 and 2 are printed inside cassette to determine usage.

A. To Change or Reverse Cassette

Move locking latch in direction of arrow, then push cassette out of tool by inserting wrench through hole in bottom of tool. Figure 13.

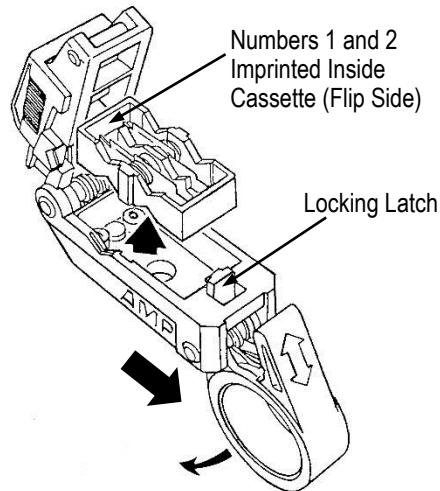


Figure 13

B. Step Strip with 2-Bladed Cassette

This procedure is recommended only in those cases where the 3-step strip you require is not available in one of the standard Series cassettes.

If your required strip length is as shown in Figure 14A, choose the 2-step cassette that matches your “C” dimension.

Mark cable at length “A+B” from end. Figure 14B.

1. Open tool, insert cable from left, and locate mark on cable over the right hand blade.
2. Close and latch tool and strip cable according to Section 3.



NOTE

An adjustment of the tool might be necessary. A correct strip is shown in Figure 14C.

3. Mark exposed dielectric at length “A” from end.

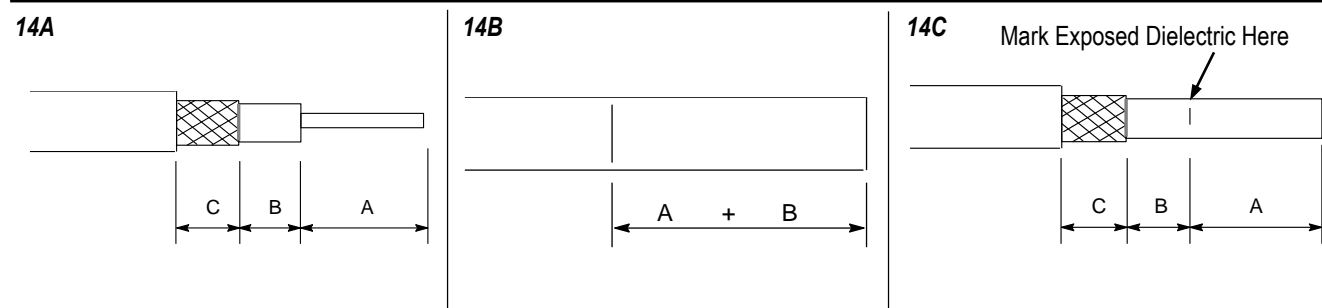


Figure 14

4. Remove dielectric at the mark with a simple wire stripping plier. See Figure 15.

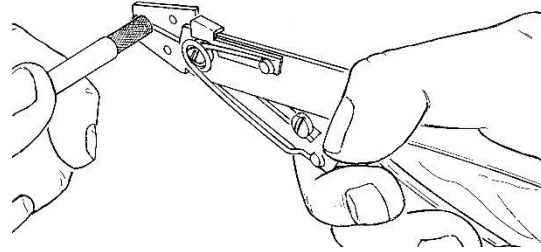


Figure 15

The slide is a unique and important part of the stripper. The slide allows you to ease the blades into the cable, reducing the friction on the braid and dielectric as you strip.

i **NOTE**
Always use your slide when you strip.

Adjust your tool for the appropriate slide progression. If your cable size does not appear in Figure 7, develop your own 2-or 3-stage sliding sequence.

i **NOTE**
Always step back to position 1 on slide before pulling out of tool.

7. ADJUSTMENT GAUGE

7.1. Opening the Tool and Retracting Adjustment Screws

1. Open the tool by rotating locking latch downward as shown in Figure 16.

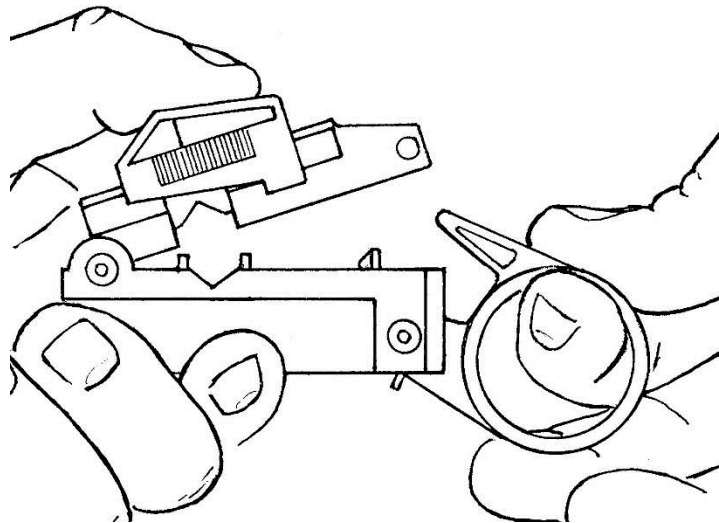


Figure 16

2. Push the cassette out of the tool by inserting the wrench, or appropriate object, through hole in the bottom of the tool. See Figure 17. Turn blade adjustment screws counterclockwise until they are fully retracted. See Figure 10.

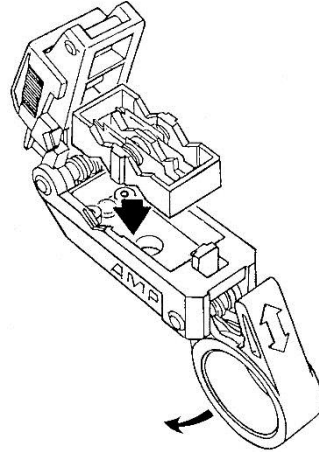


Figure 17

7.2. Installation of Adjustment Gauge

The gauge is marked with different cable types. Install gauge so that the markings, which correspond to the cable type to be stripped, are above the adjustment screws; see Figure 18. Close the tool.

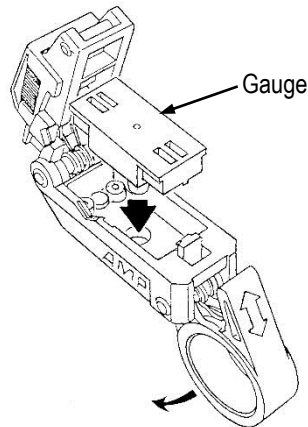


Figure 18

7.3. Screw Adjustment

1. Rotate the blade adjustment screws (A or B) clockwise until they touch the gauge; see Figure 19.
2. Open the tool and remove the gauge.
3. Install the cassette, and the tool is now ready for use.

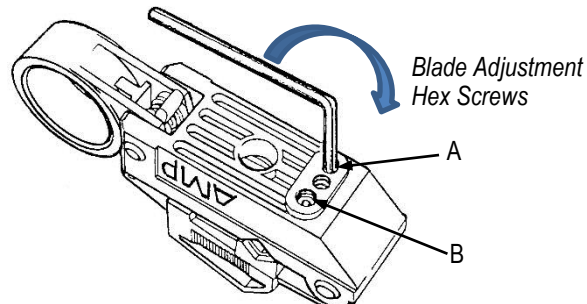


Figure 19

8. REPLACEMENT PARTS

Customer-replaceable parts are listed in Figure 11. Parts other than those listed should be replaced by TE to ensure quality and reliability. For customer repair service or to order replacement parts, call 1-800-522-6752, or fax your purchase order to 717-986-7605, or write to: Customer Service (038-035), Tyco Electronics Corporation, PO Box 3608, Harrisburg, PA 17105-3608.

9. REVISION SUMMARY

- Updated document to corporate requirements
- Deleted part numbers in table in Figure 2
- Combined Figures 14, 15, and 16 and renumbered
- Deleted referenced Figure 2 from Section 6