

MTRTH and MTRTLS

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MRT and MRS METAL CABLE TIE RETAINED TENSION INSTALLATION TOOLS OPERATION INSTRUCTIONS

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INTRODUCTION

The MTRTH Retained Tension Installation Tool is used for installing *PANDUIT* MRT and MRS Ball Lock Ties in widths of 5/16" (7.9mm) Heavy (H) cross-sections.

The MTRTLS Retained Tension Installation Tool is used for installing *PANDUIT* MRT and MRS Ball Lock Ties in widths of 3/16" (4.6mm) Standard (S) cross-sections. Included with this tool is an anvil, which can be changed for installing MRT and MRS ties in widths of 1/4" (6.4mm) Light-Heavy (LH) cross-sections.

Changeover Kits are available (listed on Page 7), which allow installation of all three cross-sections of MRT and MRS Ties with either tool.

Note: This tool is not intended for other uses such as cutting or tensioning other types of fastening devices.

SAFETY PRACTICES



ALWAYS wear safety glasses when using this tool.



DO NOT place fingers near cutting blade during tool actuation. Fingers may be pinched or injured by cutter blade.



DO NOT use tool on live electrical sources.

TOOL FEATURES

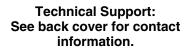
- A. Ball Set / Cutting Handle Lever
- B. Upper Handle
- C. Tension Indicator Window
- D. Tension Handle
- E. Adjustment Knob
- F. Tensioning Split Mandrel
- G. Detent and Setshear Finger
- H. Anvil

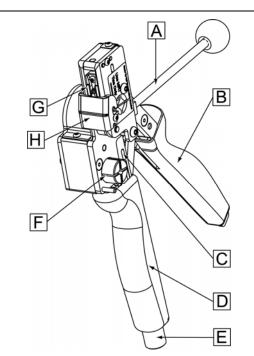
NOTE: In the interest of higher quality and value, *PANDUIT* products are continually being improved and updated.

Consequently, pictures may vary from the enclosed product.

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MTRTH and MTRTLS TOOL MAINTENANCE

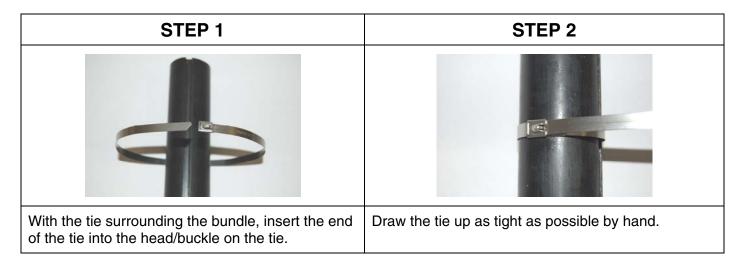
TO INHIBIT CORROSION AND MAINTAIN PERFORMANCE OF THE TOOL, KEEP THE METAL SURFACES COATED WITH A LIGHT OIL (3-IN-ONE, OR EQUIVALENT).

STRAP SIZE	SETTING
3/16" (4.6mm)	S
1/4" (6.4mm)	LH
5/16" (7.9mm)	Н

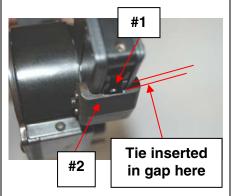


The tool must be set to the proper tension range based on ties to be installed. Per the above chart, turn the tension knob, so that mark is aligned with correct setting on Tension Setting Label (see above).

MTRTH and MTRTLS OPERATION INSTRUCTIONS



STEP 3







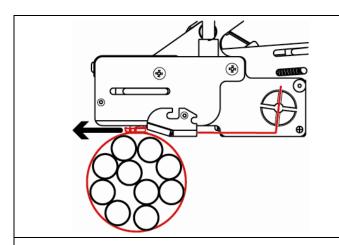
Insert the end of the tie into the tool between Setshear Finger (#1) and Anvil (#2).

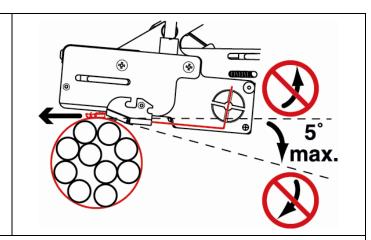
STEP 4





As the tie end is fed through the tool insert the tie end through the Tensioning Split Mandrel. Pull tool tight to bundle.





CRITICAL: Tool Must Be In-line with the Tie Head

STEP 5







STEP 5 (continued)





Actuate Tension Handle by squeezing the Tension Handle and Upper Handle together.

Continue to do so until the tie is drawn up tight against the bundle.

Continue to squeeze the Tension Handle.

There will be a noticeable click when the tool has reached the preset tension.

The handles will snap together. At this point, the tie is held in the preset tension.

STEP 6







Holding the handles together, grasp the Cutter Handle Lever and move it forward. This action will set ball and cut off the excess tie length flush with the tie head.

STEP 7



This step completes the tie installation. If installed correctly, the tie should be tight on the bundle.



CAUTION: Cut Stainless Steel can have very sharp edges.

STEP 8







Remove the wound up excess tie length piece.

TO REPLACE ANVIL

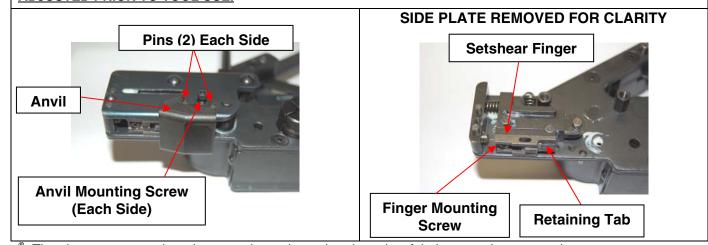
Remove two screws holding Anvil onto the tool. A 3/32" Allen Wrench will be required. The screws may be very tight as they have been installed with Loctite[®]. Once the screws are removed, slide the Anvil towards the front of the tool and downward away from the tool. Set aside old Anvil. ** Place new Anvil onto bottom of the tool. The Anvil must straddle the two plates and have the slots toward the rear. When the Anvil is slid backwards, the slots must engage the pins. If done correctly, the hole on each side of the Anvil will align with a tapped mounting hole below. Replace the screws applying a drop of Loctite[®] to each screw. See pictures below.

** IF SETSHEAR FINGER IS TO BE REPLACED AS WELL, NOW IS THE TIME TO REPLACE PER THE INSTRUCTIONS BELOW.

TO REPLACE SETSHEAR FINGER

Remove a single screw holding the Setshear Finger up onto the Sliding Detent Assembly. Use a 1/16" Allen Wrench to remove the screw. The screw may be tight as it has been installed with Loctite[®]. Once the screw is removed, slide the Setshear Finger toward the front of the tool. This should disengage it from the Sliding Detent Assembly. Pull the Finger down out of the bottom of the tool. Installation is the reverse of these steps. When replacing the Setshear Finger, the notch on the flat surface of the finger <u>must</u> engage the retaining tab on the Sliding Detent Assembly. See pictures below.

<u>WHEN COMPLETE, THE LOCATING SET SCREW ON THE FRONT OF THE TOOL WILL NEED TO BE</u> ADJUSTED PRIOR TO TOOL USE.



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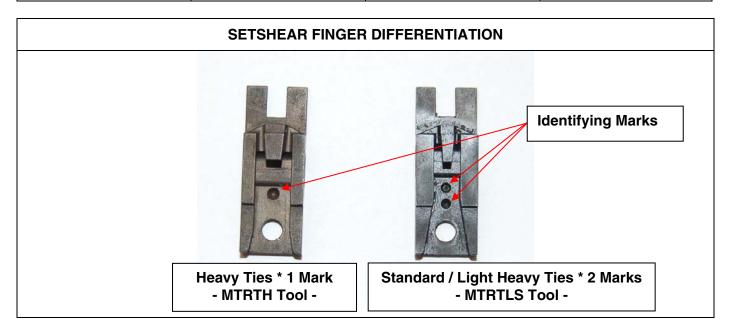
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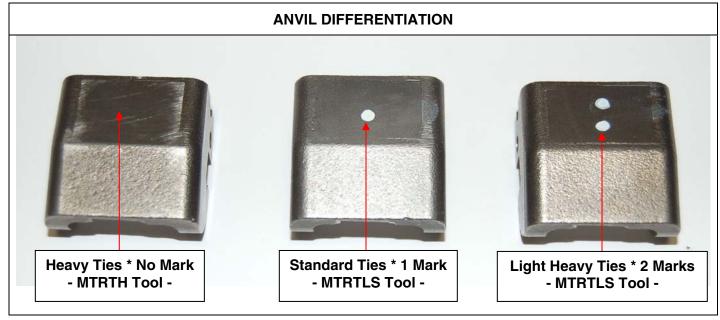
INSTALLATION OF ANVIL OR SETSHEAR FINGER

TO REPLACE ANVIL OR SETSHEAR FINGER:

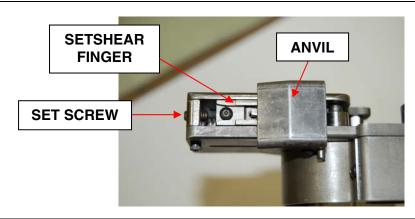
NOTE: Replace or install Anvil or Setshear Finger per table below.

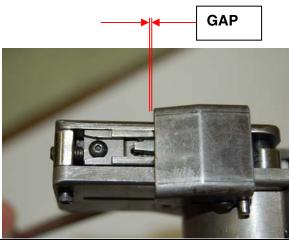
	MTRTH TOOL	MTRTLS TOOL	
	HEAVY	STANDARD	LIGHT HEAVY
ANVIL MARKS	0	1	2
SETSHEAR FINGER MARKS	1	2	2





SETSHEAR FINGER STOP ADJUSTMENT





After each Anvil change, it may be necessary to adjust the Set Screw Stop in the front of the tool. This stop is used for setting how closely the tie tail is cut off. With Cut-Off Handle moved forward, the Set Screw is turned inward or outward to adjust gap between Setshear Finger and Anvil. (CW from tool front moves Finger backwards, CCW moves Finger forward to front of tool.) To set the Set Screw, have Cut-Off Handle all the way forward. Turn the Set Screw CW until the Setshear Finger just touches the Anvil. Back the Set Screw out and place .004" feeler gage. Snug the set screw against the feeler gage. Recheck clearance. The Setshear Finger must not hit or scrape the Anvil. A gap that is too large will cause poor, or no tie cut-offs.

NOTE: SETSHEAR FINGER MUST CLEAR ANVIL.

CHANGEOVER KITS: (Sold Separately)

KMTRTH	Changeover kit allows for installation of heavy (H) cross-section MRT and MRS style ties in MTRTLS tool. Kit comes complete with one setshear finger (H), one anvil (H), three screws, thread-lock tube and installation instructions.	
KMTRTLS	Changeover kit allows for installation of standard (S) and light-heavy (LH) cross- section MRT and MRS style ties in MTRTH tool. Kit comes complete with one setshear finger (LS), two anvils (LH and S), three screws, thread-lock tube and installation instructions.	



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