SOLAR SYSTEM TOOL FOR MC4 S&F CONNECTIONS

VISUAL AID

THE SOLAR SYSTEM TOOL IS DESIGNED FOR CRIMPING MC4 (PV-SP4/6, PV-BP4/6) MALE AND FEMALE TERMINALS

This Rennsteig tool is designed to meet the TESLA valid specifications and perform a perfect crimp with the wire mentioned in the tool matrix. (Page 4)

CAUTION!

This tool may be used only for the intended application and in strict compliance with all applicable safety rules, regulations and practices. It must be properly maintained, undamaged and in good working order. Unauthorized modification is prohibited and voids the manufacturer's warranty. TERMINALS MAY HAVE SHARP EDGES. USE FINGER PROTECTION TO AVOID CUTS. DO NOT PLACE FINGERS IN TOOL AREAS, WHICH MAY PINCH DURING CRIMP CYCLE. USE SAFETY GLASSES TO AVOID EYE INJURY.

Step 1

1. Tool   2. Die Set   3. Locator

Step 2

Compress handles until ratchet releases to open handles. Select cable size as shown on top of crimp plate.

Step 3

The Locator offers a wire stop which also holds the terminals in the right position. Make sure the wire stop is open before you insert the terminal.
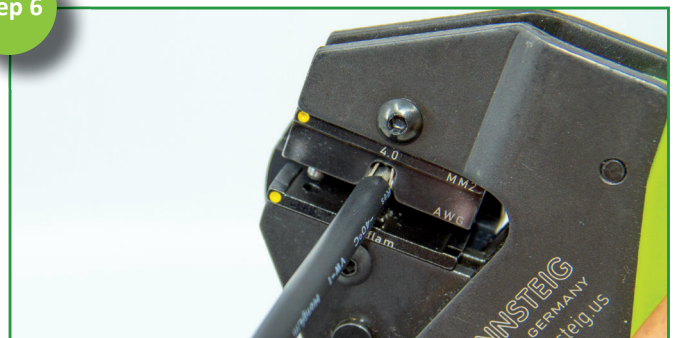
Step 4

Hold tool so that the terminal can drop into the Locator. Make sure the terminal is fully seated in the Locator and wire stop is closed to orient the terminal.

Step 5

Press handles together until terminal wings are properly positioned. Hint: Do not over crimp the handle such that terminal insulation wings interfere with wire placement.
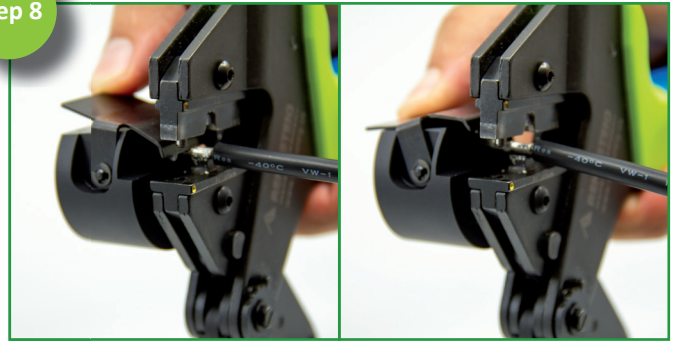
Step 6

Position stripped end in the terminal and compress handles observing that terminal wings do not twist. Recommended length can be found on page 3.
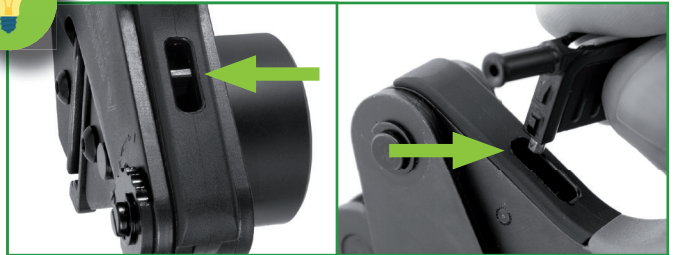
Step 7

COMPRESS THE HANDLES UNTIL THE RATCHET AUTOMATICALLY RELEASES. CRIMPING PROCESS IS COMPLETED.

Step 8

Make sure the wire stop is open before you remove the crimped terminal and wire.

Step 9

DO NOT USE CRIMPED TERMINAL IF RATCHET/JAM RELEASE IS USED SINCE THIS TERMINAL MAY NOT BE COMPLETELY CRIMPED. The function of the ratchet is to make sure the tool is completey closed.

Caution: If jam occurs slightly compress handles and us an appropriate tool to press ratchet release to unlock. DO NOT INSERT APPROPRIATE TOOL TO DEEP INSIDE THE EMERGENCY RELEASE TO PREVENT DAMAGE TO THE SPRING.

Products shown are for illustration purposes only. Actual product may differ slightly than product images displayed.
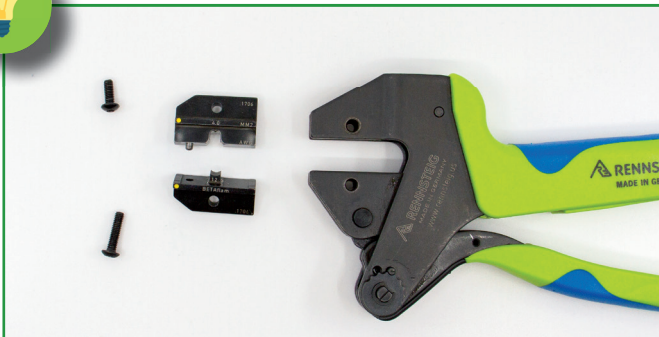
Prepare to insert the Die Set. Don't close the tool completely. **Note:** If you've purchased the tool w/o a Locator, both screws have the same length.
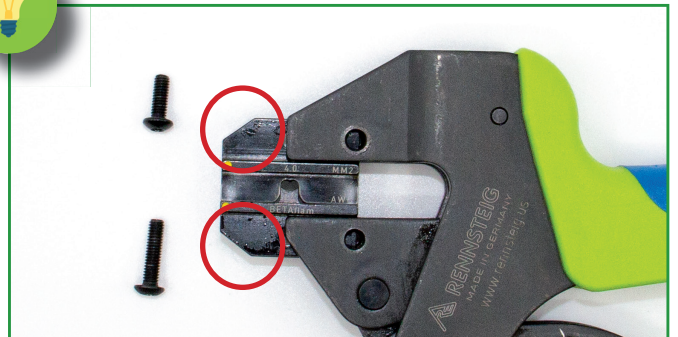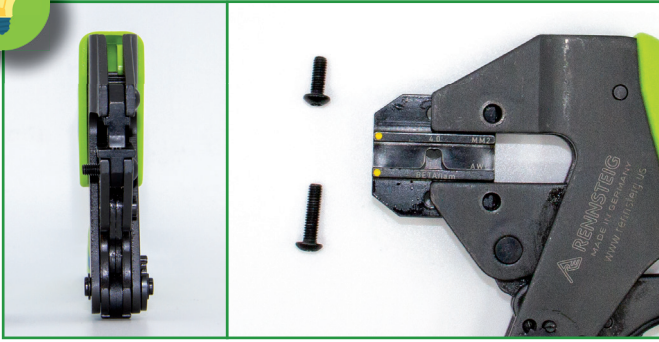

Assemble the upper and lower Die Set together before you insert it.
Be sure that the beveling side points to the left.

Start to tighten the screws slightly.
Remember: Don't close the tool completely.

Close the tool completely and hold it. Now the Dies are adjusted. Fasten the screws.

Check: Shorter screw for upper Die. Longer screw for lower Die. **Note:** If you've purchased the tool w/o a Locator, both screws have the same length.

Start to add the Locator on the longer screw by turning clockwise. After three turns (360°) use Allen Key (2.5 mm) to tighten the Locator completely.

CALCULATING STRIPPING LENGTH

CB = Conductor Brush
CL = Conductor Length
CD = Conductor Distance
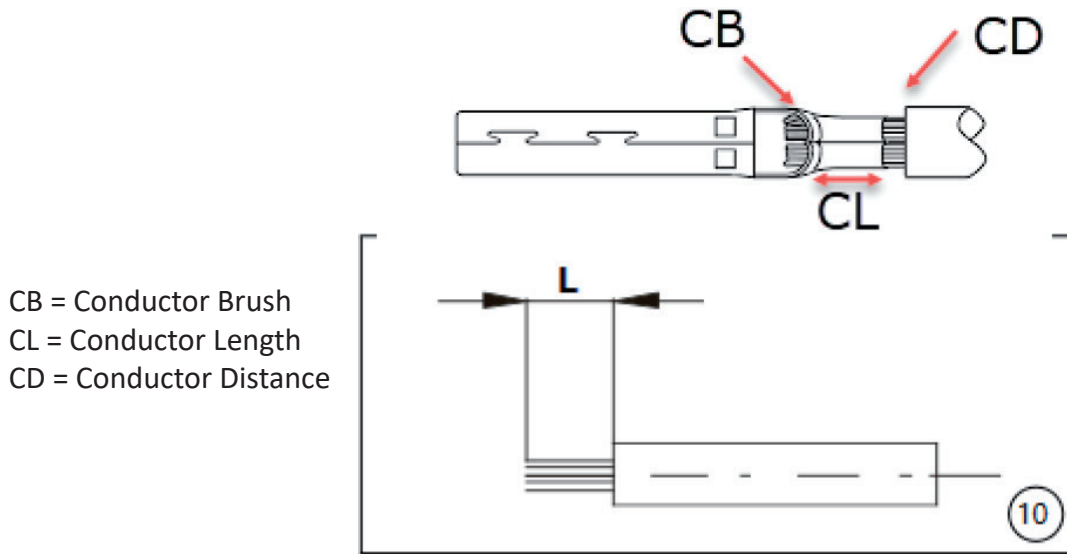
	min	max
CB	0.75 mm	1.3 mm
CL	4.4 mm (PV-BP4/6)	4.6 (PV-SP4/6)
CD	1 mm	1.5 mm

L (stripping length) min: 0.75mm + 4,4mm + 1mm = 6,15mm
L (stripping length) max: 1.3mm + 4,6mm + 1.5mm = 7,4mm

For die sets designed by Rennsteig for Tesla we recommend a stripping length between 6.15 mm to 7.4 mm to ensure best possible crimp results.

At Rennsteig, we stay on top of the market. When new connectors come out and gain ground, you can be sure we'll make die sets for them. What does this mean? It means you don't have to invest in a whole new crimp tool. You can just get an additional die set to fit your existing crimp tool, and you're ready to install the latest gear. TAKE A LOOK AT OUR WEBSITE WWW.RENNSTEIG.US FOR OUR COMPLETE PRODUCT RANGE.

MAINTAIN TOOL
TO MAINTAIN YOUR TOOLS JUST DIP A RAG (A CLOTH) IN SOME OIL AND COAT A THIN LAYER OF IT ON THE METALLIC PARTS FROM TIME TO TIME (DO NOT COME INTO CONTACT WITH PLASTIC PARTS). MAKE SURE TO COVER EVENLY AND LEAVE NO SPOT UNTOUCHED. HINT: DO NOT BE TEMPED TO ADD MULTIPLE THICK LAYER OF OIL. YOU DO NOT HAVE TO COAT IT AFTER EVERY USE. HOWEVER, IF YOUR USE IS VERY SPORADIC (I.E., USE TODAY THAN 4 MONTHS LATER), THE IT WOULD BE WORTH YOUR WHILE TO COAT IT EACH TIME.

LIMITATION OF LIABILITY
RENNSTEIG WERKZEUGE GMBH IS NOT LIABLE FOR CONSEQUENTIAL OR SPECIAL DAMAGES OF ANY NATURE OR KIND RESULTING FROM USE, OR MISUSE, OF ANY OF ITS PRODUCTS. OWNERS AND USERS OF RENNSTEIG WERKZEUGE GMBH PRODUCTS ASSUME FULL RESPONSIBILITY FOR INSTRUCTING THEIR EMPLOYEES IN THE PROPER AND SAFE USE OF SUCH PRODUCTS.

PERIODIC INSPECTION PROCEDURE
VISUAL INSPECTIONS SHOULD BE PERFORMED ON THE TOOL BASED ON THE AMOUNT OF USE, WORKING CONDITIONS AND OPERATOR SKILL AND CARE.
A. CLEAN TOOL DIE AREA WITH SOLVENT OR BRUSH.
B. CHECK CRIMP AREA OF DIES OF DAMAGE.
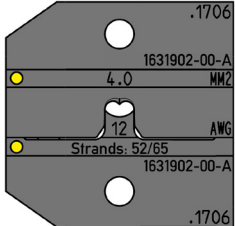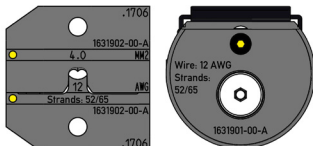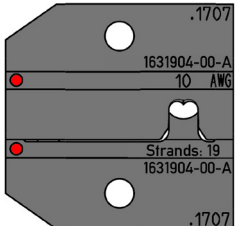C. IF TOOL JAMS OR LOCKS, CHECK RATCHET FOR DIRT AND LUBRICATION.
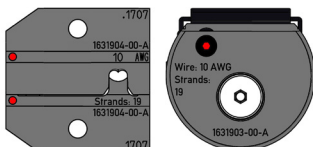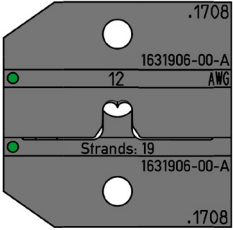
CARE OF TOOL
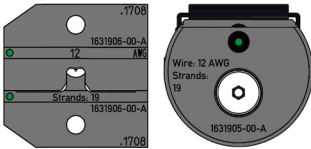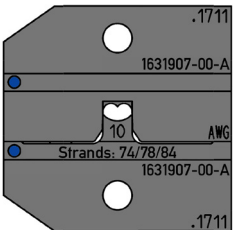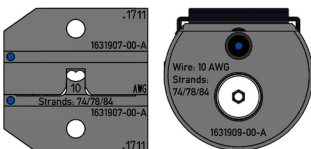WE STRONGLY RECOMMEND THAT YOU:
1. DO NOT IMMERSE TOOLS IN CLEANING SOLUTION.
2. DO NOT SPRAY OIL INTO TOOL TO LUBRICATE.
3. DO NOT ATTEMPT TO DISASSEMBLE TOOL OR MAKE REPAIRS.
THIS IS A PRECISION HAND CRIMPING TOOL AND SHOULD BE HANDLED AS SUCH.

TOOL MATRIX

Picture	Rennsteig P/N	Description	Capacity	Strands
	624 1706 3 0 RT	1x Crimping Die Set		
	624 1706 0 01 RT	1x Locator for Die Set #624 1706 3 0 RT	12 AWG 4 SQ-MM	52/65
	624 1706 3 01 RT	1x Crimping Die Set 1x Locator		
	624 1707 3 0 RT	1x Crimping Die Set		
	624 1707 0 01 RT	1x Locator for Die Set #624 1707 3 0 RT	10 AWG 6 SQ-MM	19
	624 1707 3 01 RT	1x Crimping Die Set 1x Locator		

Picture	Rennsteig P/N	Description	Capacity	Strands
	624 1708 3 0 RT	1x Crimping Die Set	12 AWG 4 SQ-MM	19
	624 1708 0 01 RT	1x Locator for Die Set #624 1708 3 0 RT		
	624 1708 3 01 RT	1x Crimping Die Set 1x Locator		
	624 1711 3 0 RT	1x Crimping Die Set	10 AWG 6 SQ-MM	74/78/84
	624 1711 0 01 RT	1x Locator for Die Set #624 1711 3 0 RT		
	624 1711 3 01 RT	1x Crimping Die Set 1x Locator		