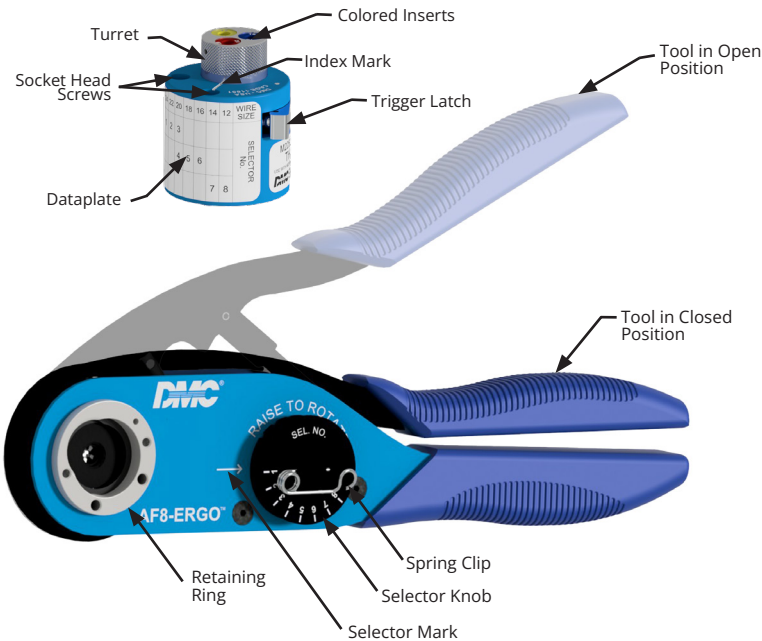
AF8-ERGO™

Instruction Manual



DANIELS MANUFACTURING CORPORATION®

www.dmctools.com



GENERAL INFORMATION

This instruction manual provides technical information for the AF8-ERGO™ (M22520/1-01) which is a manual indent crimp tool designed for precision and reliability in wire termination applications. Built on the legacy of the original AF8®, the AF8-ERGO introduces ergonomic enhancements to reduce fatigue while optimizing mechanical efficiency. The AF8-ERGO contains four symmetrically arranged precision indenters to ensure uniform crimping. A positive ratchet mechanism guarantees the completion of the full crimp cycle before the tool can be reopened, promoting consistent performance and process integrity. Selector settings allow the user to control the depth of the indenters, accommodating a range of contact and wire sizes. The AF8-ERGO is suitable for use in high-reliability environments where consistent, repeatable crimps are critical.

Crimp Application	Machined Contacts
Crimp Range	26 to 12 AWG
Power Supply	Manual
Ratchet Configuration	Full-cycle, not releasable
Turret Type	TH series, TP series, and UH2-5
Dimensions L X W X H	9.3” x 2.4” x 1.1”
Weight	15 oz

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INSTALLATION / REMOVAL OF ACCESSORIES

TURRET INSTALLATION

1. Squeeze the handles to fully open the tool. (Fig. 1)
2. Locate the pin at the bottom of the turret and align it with the hole in the retaining ring. (Fig. 2)
3. Tighten the socket head screws in the turret head using a 9/64" hex key. (Fig. 3)



Fig. 1



Fig. 2



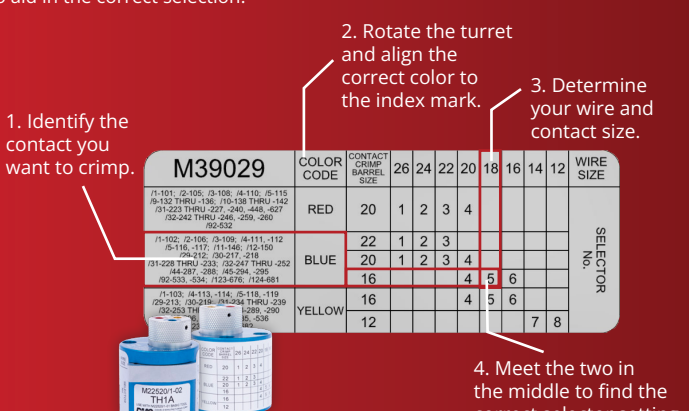
Fig. 3

TURRET REMOVAL

1. Squeeze the handles to fully open the tool.
2. Press the trigger latch to release the turret.
3. Loosen the screws until disengaged from retaining ring and remove with a straight lifting motion.

HOW TO READ A TURRET

Technicians must take into consideration contact part number and wire size in order to determine the correct insert and selector setting. Smaller selector settings create a tighter crimp. DMC has included a dataplate on each turret head and turret positioner to aid in the correct selection.



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CRIMPING INSTRUCTIONS

1. Reference the dataplate on the turret to select the turret color that corresponds with the contact part number. (Fig. 4)
2. With the tool in the open position, rotate the turret until the color coded insert is in line with the index mark. Press the turret down until it snaps. (Fig. 5) **To change the index, press the turret trigger latch to release the setting, then rotate to the new position.*
3. Identify the wire and contact size on the dataplate to determine the selector setting that corresponds with the contact being used. (Fig. 6*)*



Fig. 4



Fig. 5



Fig. 6

4. Remove the spring clip, then raise and rotate the selector knob to the appropriate setting. Reinsert the spring clip. (Fig. 7)
5. Insert the contact and prepared wire through the indenter opening into the turret. (Fig. 8)
6. Squeeze the handles together until the ratchet releases. The handle will return to the open position once fully crimped. (Fig. 9)



Fig. 7


Fig. 8


Fig. 9

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GAUGING INSTRUCTIONS

It is recommended to verify tool calibration using a Go/No-Go gage. This can be achieved by adjusting the selector setting and inserting the specified gage listed on the following page.





GO

1. Actuate the tool to the fully closed position.
2. With firm hand pressure on the tool handles, insert the “GO” gage end as shown. The gage must pass freely between the indenter tips.

⚠ DO NOT crimp the gage.



NO-GO

1. Actuate the tool to the fully closed position.
2. With firm hand pressure on the tool handles, try to insert the “NO-GO” gage end as shown. The “NO-GO” gage may partially enter the indenter opening, but must not pass completely through.

⚠ DO NOT crimp the gage.

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GAUGING SETTINGS

Use the chart below to pair the recommended GO/NO-GO gage with the indenter gauging limits.

Tool	Selector Setting	Gauging Limits	GO/NO-GO Gage
 **AF8-ERGO** M22520/1-01	1	.0280-.0330	G220
	2	.0320-.0370	G221
	3	.0360-.0410	G222
	4	.0390-.0440	G223 or G125
	5	.0450-.0500	G224
	6	.0520-.0570	G225
	7	.0590-.0640	G226
	8	.0680-.0730	G227

TOOL CARE

Virtually no maintenance is required for this tool; however, it's good practice to keep indenter tips free of residual deposits and other debris by using a small wire brush. We strongly recommend that you:

- DO NOT immerse tools in cleaning solution.
- DO NOT spray oil into tool to lubricate.
- DO NOT attempt to disassemble tool or make repairs.
- Only use tools for their intended purposes.

CALIBRATION & REPAIR

We offer comprehensive calibration and repair services. Our technicians will inspect the tool, replace worn components, and ensure it meets factory specifications.

To begin the calibration or repair process, scan the QR code. U.S. Customers will be directed to the appropriate forms to initiate service through DMC. Customers outside of the U.S. may contact authorized repair centers near them.

https://qrco.de/Calibrate

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SAFETY

Safety is essential in the use and maintenance of DMC tools and equipment. This manual and any markings on the tool provide information for avoiding hazards and unsafe practices related to the use of these tools. Observe all of the safety information provided below:



Use proper connector and cable combinations. Improper combinations can result in an incomplete crimp. Failure to observe this warning could result in severe injury or death.



Inspect tool before use. If any parts are worn or damaged, send the tool for repair.



Avoid use of any powered “press” as defined by OSHA CFR 1910.211 (46).



Ensure the tool is in the open position whenever the turret positioner is being installed or removed.

Limitation of Liability

DANIELS MANUFACTURING CORPORATION (DMC) IS NOT LIABLE FOR CONSEQUENTIAL OR SPECIAL DAMAGES OF ANY NATURE OR KIND RESULTING FROM THE USE, MISUSE, OF ANY OF ITS PRODUCTS. OWNERS AND USERS OF DMC PRODUCTS ASSUME FULL RESPONSIBILITY FOR INSTRUCTING THEIR EMPLOYEES IN THE PROPER AND SAFE USE OF SUCH PRODUCTS.

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Daniels Manufacturing Corporation (DMC) warrants each new product sold by it to be free from defects in material and workmanship under normal use and service. DMC’s obligation under this warranty is limited to the free correction or, at DMC’s option, the refund of the purchase price of any such product which proves defective in normal service within ninety (90) days after delivery to the first user, provided that the product is returned to DMC with all transportation charges prepaid and which shall appear to DMC’s satisfaction, after DMC’s inspection, to have been defective in material or workmanship, it being understood that DMC products are not consumer products. This warranty shall not cover any damage to any products which, in the opinion of DMC, was caused by normal wear, misuse, improper operation, tampering, neglect or accident. This warranty is in lieu of all other warranties express or implied. No warranty, express or implied, is made or authorized to be made or assumed with respect to products of DMC other than those herein set forth.

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Rev B