

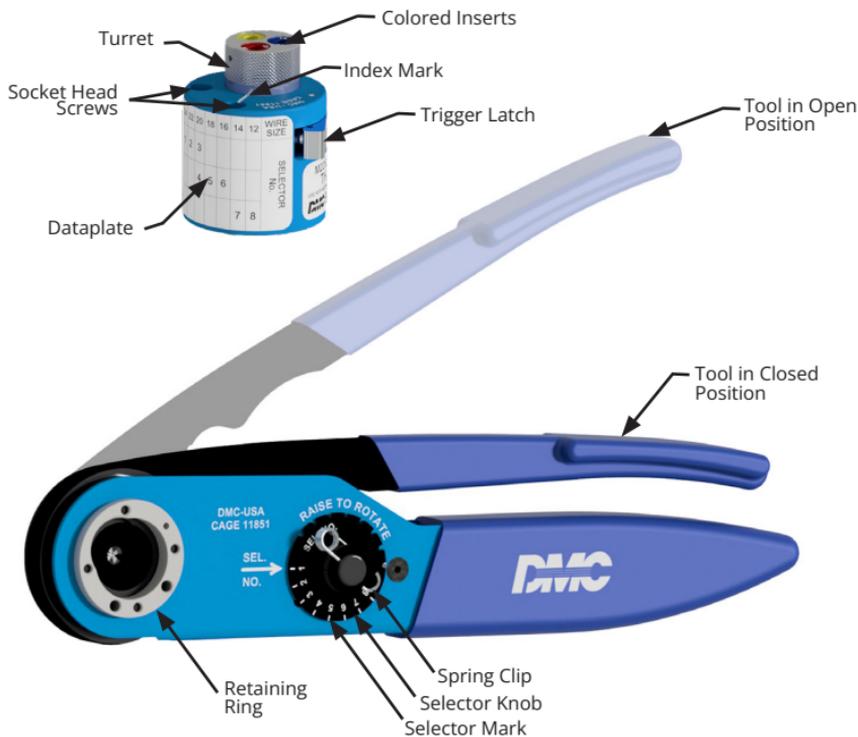
AF8® • FT8 • VM8

Instruction Manual



DMVC DANIELS
MANUFACTURING
CORPORATION®

www.dmctools.com



GENERAL INFORMATION

This data sheet provides technical information for a series of manual indent crimp tools designed for precision and reliability in wire termination applications. Each tool features 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 tools covered in this document are suitable for use in high-reliability environments where consistent, repeatable crimps are critical.

The information in this data sheet pertains to the AF8®, AF8-CC, FT8, and VM8.

Crimp Application	Machined Contacts
Power Supply	Manual
Ratchet Configuration	Full-cycle, not releasable

TOOL SPECS



AF8®

-  26 to 12 AWG
-  MIL M22520/1-01
-  TH, TP, and UH2-5 Turrets

Length	9.8"
Width	2.5"
Height	1.1"
Weight	15 oz



AF8-CC

-  26 to 12 AWG
-  TH, TP, and UH2-5 Turrets

Length	9.8"
Width	2.5"
Height	1.1"
Weight	19 oz



FT8

-  26 to 12 AWG
-  TP, SP, and TH Turrets

Length	9.8"
Width	2.5"
Height	1.1"
Weight	15 oz



VM8

-  22 to 16 AWG
-  VH Turrets

Length	9.8"
Width	2.5"
Height	2.6"
Weight	21 oz

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.

1. Identify the contact you want to crimp.
2. Rotate the turret and align the correct color to the index mark.
3. Determine your wire and contact size.
4. Meet the two in the middle to find the correct selector setting.

M39029	COLOR CODE	CONTACT GRIMP BARREL SIZE	26	24	22	20	18	16	14	12	WIRE SIZE
/1-101; /2-105; /3-108; /4-110; /5-115 /9-122 THRU /136; /10-138 THRU /142 /31-223 THRU -227; -240; -448; -627 /32-242 THRU -246; -259; -260 /62-532	RED	20	1	2	3	4					SELECTOR NO.
	/1-102; /2-106; /3-109; /4-111; /112 /5-116; /117; /11-148; /12-150 /26-112; /30-217; /218 /31-228 THRU -233; /32-247 THRU -252 /44-287; -289; /45-294; /295 /62-533; -534; /123-676; /124-681	BLUE	22	1	2	3					
		20	1	2	3	4					
		16				4	5	6			
/1-103; /4-113; /114; /5-118; /119 /25-213; /30-219; /31-234 THRU -239 /289; -290 /32-253 TH /6; -536	YELLOW	16			4	5	6				
		12						7	8		

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)
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)



SCAN FOR A VIDEO TUTORIAL.

https://qrco.de/_af8

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.

GAUGING LIMITS

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
 <p>AF8 AF8-CC FT8</p>	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
 <p>VM8</p>	1	.0380-.0430	G517
	2	.0420-.0470	G539
	3	.0460-.0510	G555
	4	.0490-.0540	G344
	5	.0550-.0600	
	6	.0620-.0670	
	7	.0690-.0740	G660
	8	.0780-.0830	

TOOL ENHANCEMENTS

Enhance your tool's functionality with the added benefit of a cycle counter. This feature provides a reliable method for monitoring tool usage, scheduling preventative maintenance, and conducting calibration verification.

AF8-CC



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>

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, removed, or released.

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.

Limited Warranty

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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