

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.

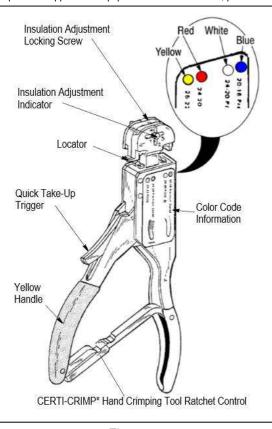


Figure 1

1. INTRODUCTION

This instruction sheet covers the use of T-HEAD Crimping Tools 59170, 59250, 59275, 59300, 69692-1, and 69693-1 (see Figure 1). These tools crimp:

- PIDG* vinyl and nylon terminals and splices on stranded copper wire sizes 26 through 14.
- STRATO-THERM* terminals on stranded copper wire sizes 26 through 14.
- PIDG Insulation Restricting Nylon Terminals on stranded copper wire sizes 26 through 14.
- PIDG insulation restricting terminals with TEFLON coating, used on stranded copper wire sizes 26 through 14.
- PIDG Radiation Resistant Terminals and Splices on stranded copper wire sizes 26 through 14.
- PLASTI-GRIP* Terminals on solid or stranded copper wire sizes 22 through 14.
- PLASTI-GRIP Butt Splices on solid or stranded copper wire sizes 26 through 22.
- Spare Wire Caps on solid or stranded copper wire sizes 22 through 14.

Read these instructions thoroughly before using the tool(s).

Reasons for reissue of this instruction sheet are provided in Section 9, REVISION SUMMARY.



NOTE

All dimensions on this instruction sheet are in millimeters [with inches in brackets]. Figures are not drawn to scale.



2. **DESCRIPTION**

The handles of the crimping tools are color-coded to match the color-coding of the product to be applied. The insulation adjustment indicator is used to control crimp height of the insulation barrel. It can be set at any of four positions corresponding to insulation diameter. Tools also feature a locator, quick take-up trigger, and color-code information.

The CERTI-CRIMP hand crimping tool ratchet control ensures complete and consistent crimping of the product. Once engaged, the ratchet will not release until the tool has fully cycled.



CAUTION

The crimping dies bottom before the ratchet releases. This is a design feature that ensures maximum electrical and tensile performance of the crimp. DO NOT re-adjust the ratchet.

3. COLOR AND DOT-CODING

Note that tool handles and terminal, splice and cap insulation are color-coded for a given wire range as listed in Figure 2. Crimp the color-coded terminal, splice or cap in the matching color-coded portion of the tool. For example, when using Hand Tool 59275, yellow-coded PIDG terminals and splices and red-coded pre-insulated seated splices must be crimped in that portion of tool displaying the red and yellow coded dots and yellow handle (see Figure 1).



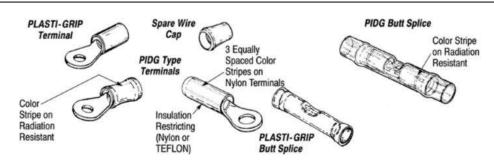
NOTE

Refer to tool label for color-code information. Note that Figure 2 indicates the number of dots that appear embossed on a crimped terminal, splice or cap. Observe the dot code on finished crimp to insure the correct product and tool combination was used.



NOTE

Dot code will disappear after heat sealing environment sealed splices.



	TOOL NO. AND	207	WIRE RANGE	WIRE INSULATION	INCIII ATION	WIRE STRIP LENGTH			
PRODUCT	HANDLE COLOR CODE	CODE		DIAMETER INSULATION COLOR CODE	Terminals		Splices		
THE PERSON NAMED IN		CODE	OR SIZE	RANGE	COLON CODE	Min.	Max.	Min.	Max.
PIDG INSULATION RESTRICTING NYLON		ONE DOT	26	0.66-1.40 [.026055]	YELLOW W/3 BLACK STRIPES	5.57 (6.11)	7.11 [.28]		·—
TERMINALS MS 7928/1-1 through -10		ONE DOT	24	0.79-1.40 [.031055]	YELLOW W/3 BLUE STRIPES	6.35 [.25]			
PIDG TERMINALS MS 25036-143 through -147 (Class 1 Only)	59170 59250 RED AND BLUE		192 27		YELLOW	5.08 [.20]	5.84 [.23]	-	
PIDG RADIATION RESISTANT TERMINALS MS 7928/4-143 through -147		ONE DOT	26 - 24		NATURAL W/YELLOW STRIPE				
PIDG VINYL & NYLON TERM. OR	59275 YELLOW AND WHITE	ONE DOT	26 - 22		YELLOW	4.06 [.16]	4.83 [.19]	4.32 [.17]	5.08 [.20]
SPLICE & 26-22 AWG PLASTI-GRIP BUTT SPLICE		TWO DOTS	24 - 20	_	WHITE	4.83 [.19]	5.59 [.22]	5.59 [.22]	6.35 [.25]
PIDG VINYL AND	59300	TWO DOTS	24 - 20	_	WHITE	4.83 [.19]	5.59 [.22]	5.59 [.22]	6.35 [.25]
NYLON TERMINALS	RED AND WHITE	ONE DOT	22 - 16		RED	5.08 [.20]	5.84 [.23]	6.35 [.25]	7.11 [.28]
AND SPLICES ALSO PLASTI-GRIP	59170	ONE DOT	22 - 16	_	RED	5.00 (.00)	E 0 4 I 221	6 25 1 251	7.11 [.28]
22-16 AND 16-14 TERMINALS	59250 RED AND BLUE		BLUE	3.00 [.20]	5.08 [.20] 5.84 [.23]	6.35 [.25] 7	7.11 [.20]		

Figure 2 (Continued)

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	TOOL NO. AND		WIRE WIRE INSULATION			WIRE STRIP LENGTH			
PRODUCT	HANDLE	CODE	RANGE	DIAMETER	INSULATION COLOR CODE	Terminals		Spli	ces
	COLOR CODE		OR SIZE	RANGE	COLON CODE	Min.	Max.	Min.	Max.
	59275 YELLOW	ONE DOT	26 - 24	SPLICE ONLY	NATURAL W/YELLOW STRIPE	-		4.32 [.17]	5.08 [.20
	AND WHITE	TWO DOTS	24 - 20	_	NATURAL W/WHITE STRIPE	4.83 [.19]	5.59 [.22]	5.59 [.22]	6.35 [.25
PIDG RADIATION	59300	ONE DOT	26 - 24	TERMINALS ONLY	NATURAL W/YELLOW STRIPE	5.08 [.20]	5.84 [.23]	_	
RESISTANT TERMINALS AND	RED AND WHITE	TWO DOTS	24 - 20		NATURAL W/WHITE STRIPE	4.83 [.19]	5.59 [.22]	5.59 [.22]	6.35 [.25
SPLICES		ONE DOT	22 - 16		NATURAL W/RED STRIPE	5.08 [.20]	5.84 [.23]	6.35 [.25]	7.11 [.28
	59170 59250 RED AND BLUE	ONE DOT	26 - 24	TERMINALS ONLY	NATURAL W/YELLOW STRIPE	5.08 [.20]	5.84 [.23]	-	_
			22 - 16		NATURAL W/RED STRIPE	F 00 I 00)	5.84 [.23]	6.35 [.25]	7.11 [.28]
		TWO DOTS	16 - 14	-	NATURAL W/BLUE STRIPE	5.08 [.20]			
	59275 YELLOW AND WHITE	ONE DOT	26	0.66-1.40 [.026055]	YELLOW W/BLACK STRIPE	4.83 [.19]	5.59 [.22]	i	n—a
		ONE DOT	24	0.79-1.40 [.031055]	YELLOW W/BLUE STRIPE				
			22	0.97-2.79 [.038110]	RED W/GREEN STRIPE				
PIDG INSULATION RESTRICTING	59300 RED AND WHITE	ONE DOT	20	1.17-2.79 [.046110]	RED W/RED STRIPE				
NYLON	1120 11110 1111112		18	1.42-2.79 [.056110]	RED W/WHITE STRIPE				
TERMINALS			22	0.97-2.79 [.038110]	RED W/GREEN STRIPE	6.35 [.25]	7.11 [.28]		_
	59170	ONE DOT	20	1.17-2.79 [.046110]	RED W/RED STRIPE	0.00 (2.0)			
	RED AND BLUE		18	1.42-2.79 [.056110]	RED W/WHITE STRIPE				
	Posterio de Caración de Caraci	TWO DOTS	16	1.60-3.30 [.063130]	BLUE W/BLUE STRIPE				
		14000013	14	1.98-3.30 [.078130]	BLUE W/GREEN STRIPE				

	TOOL NO. AND	DOT	WIRE	WIRE INSULATION	INCIN ATION		WIRE STR	P LENGTH	
PRODUCT	HANDLE	CODE	RANGE OR SIZE	DIAMETER INSULATION COLOR CODE	Terminals		Splices		
	COLOR CODE			RANGE	COLON CODE	Min.	Max.	Min.	Max.
	69692-1 BLACK AND	ONE DOT	26 - 24		BLACK	4.06 [.16]	4.83 [.19]	::	
PIDG STRATO-THERM	GREEN	TWO DOTS	22 - 20	_	GREEN		4.03 [.13]		
TERMINALS	69693-1	ONE DOT	18 - 16	_	ORANGE	5.08 [.20]	5.84 [.23]	_	
	ORANGE AND WHITE	TWO DOTS	14		WHITE				
	69692-1 BLACK	ONE DOT	26	0.66-1.40 [.026055]	BLACK	4.83 [.19]	5.59 [.22]		-
		ONE DOT	24	0.79-1.40 [.031055]	BLUE				
PIDG INSULATION	AND GREEN	GREEN TWO DOTS	22	0.97-2.79 [.038110]	GREEN	6.35 [.25]	7.11 [.28]	55 5	_
RESTRICTING TEFLON	1900 1900 12.0		20	1.17-2.79 [.046110]	RED				
STRATO-THERM TERMINALS	69693-1	ONE DOT	18	1.42-2.79 [.056110]	WHITE	6.35 [.25]	7.11 [.28] —	-	_
	ORANGE AND	ORANGE ONE DOT	16	1.60-3.30 [.063130]	BLUE				
	WHITE	TWO DOTS	14	1.98-3.30 [.078130]	GREEN				

PRODUCT	TOOL NO. AND	DOT CODE	WIRE RANGE	SEAL LINER COLOR CODE	INSULATION COLOR CODE	WIRE STRIP LENGTH	
	HANDLE COLOR CODE					Min.	Max.
SPARE WIRE CAP NO. 328307	59250 AND 59170 RED AND BLUE	ONE DOT	22 - 18	1-1	RED		
SPARE WIRE CAP NO. 328308		TWO DOTS	16 - 14	1-	BLUE	7.87 [.31]	8.64 [.34]

Figure 2 (End)

4. WIRE STRIPPING AND CRIMPING PROCEDURES



NOTE

Refer to Section 5 for insulation crimp adjustment.



CAUTION

NEVER re-terminate terminals or splices.

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4.1. PIDG and PLASTI-GRIP Terminals and Splices

1. Strip wire to dimensions listed in Figure 2.

i

NOTE

DO NOT use wires with nicked or missing conductor strands.

- 2. Open crimping dies by closing handles until ratchet releases (see Figure 1). **Note**: once ratchet is engaged, handles cannot be opened until the tool has fully cycled.
 - Crimp the color-coded terminals and splices in the matching color-coded portion of the tool (refer to Section 3).
- 3. Place terminal in crimping dies so that terminal tongue slides under locator (see Figure 3).

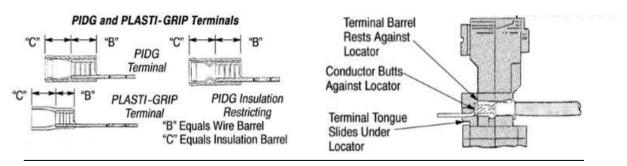


Figure 3

4. Raise locator and place splice under locator as shown in Figure 4 (splice window indent faces top of tool).



NOTE

To properly position pre-insulated sealed splice, apply and maintain pressure against end of splice until Step 5 is completed. See Figure 4.

- 5. Press quick take-up trigger and close handles until terminal or splice is held firmly in place. Do not deform terminal or splice wire barrel.
- 6. Insert stripped wire into terminal until conductor butts against locator (see Figure 3). Insert stripped wire into splice until conductor butts against splice wire stop (see Figure 4).



NOTE

Do not allow wire insulation to enter wire barrel.

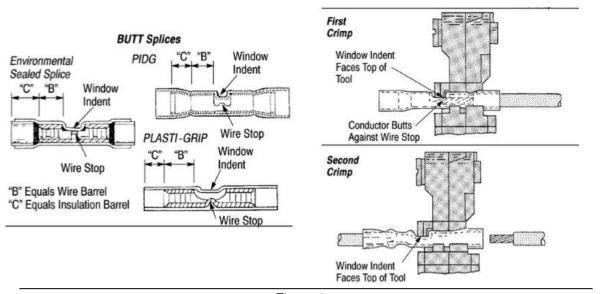


Figure 4

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- 7. Hold wire in position and complete crimp by closing handles until the ratchet releases.
- 8. Refer to Section 6 and Figure 6 or Figure 7 for terminal or splice "Crimp Inspection" procedure.

4.2. Spare Wire Caps

1. Strip wire to dimensions listed in Figure 2. Crimp the color-coded portion of the tool. Refer to Section



NOTE

Do not use wire with nicked or missing conductor strands.

- 2. Place tool insulation adjustment indicator in Position 4.
- 3. Close tool handles until crimping jaws partially close but leave enough space for cap to be inserted between dies.
- 4. Raise locator so that end of cap rests against the recessed surface of the locator as shown in Figure 5.

Spare Wire Caps

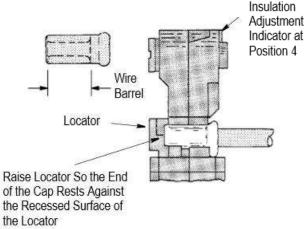


Figure 5

- 5. Squeeze quick take-up trigger and close handles until cap is held firmly in place. Do not deform cap wire barrel.
- 6. Insert stripped wire into cap until conductor bottoms in cap.
- 7. Hold wire in position and complete crimp by closing handles until the ratchet releases. Handles will open automatically allowing crimped cap to be removed.
- 8. Refer to Section 6 and Figure 7 wire cap crimp inspection procedure.

5. INSULATION CRIMP ADJUSTMENT

5.1. PIDG Terminals and Splices



PIDG terminals and splices feature a wire "insulation grip".

Each tool has four insulation crimp positions. See Figure 1.

- 1. Loosen insulation adjustment locking screw (see top of tool) and turn indicator to Position 4.
- 2. Place terminal or splice in tool dies.
- 3. Insert UNSTRIPPED wire into ONLY the insulation barrel (see Figure 3 or Figure 4) of terminal or splice.

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- 4. Perform a crimp (Section 4). Remove crimped terminal or splice and check insulation grip as follows: Bend the wire back and forth once. Terminal or splice should retain grip on wire insulation.
- 5. If wire pulls out, set insulation adjustment indicator to next tighter position Position 3.
- 6. Perform a crimp and repeat adjustment as necessary until desired insulation grip is obtained. Do not use a tighter setting than required.
- 7. Tighten insulation adjustment locking screw (see top of tool).

5.2. PLASTI-GRIP Terminals and Splices



NOTE

PLASTI-GRIP terminals and splices feature a wire "insulation support" only.

- 1. Set insulation adjustment indicator in Position 4 for wire having a large insulation diameter.
- 2. Set insulation adjustment indicator in Position 3 for wire having a medium insulation diameter.
- 3. Set insulation adjustment indicator in Position 2 for wire having a small insulation diameter.
- 4. Set insulation adjustment indicator in Position 1 for wire having thin wall insulation. Terminal or splice insulation should ideally be in contact with wire insulation.

6. CRIMP INSPECTION

Inspect crimped terminals, splices and spare wire caps by checking the features described in Figure 6 or Figure 7, as applicable.

Use ONLY the crimped items that meet the conditions shown in the ACCEPT column.

REJECT terminals, splices, and spare wire caps can be avoided through careful use of instructions and by performing regular tool maintenance as instructed in this document.



NOTE

Locators in Crimping Tools 69692-1 and 69693-1 are locked in the down position. Refer to Instruction Sheet 408-7424 for crimp height inspection of these tools.

7. MAINTENANCE AND INSPECTION

TE recommends that a maintenance/inspection program be performed periodically to ensure dependable and uniform terminations. Tools should be inspected at least once a month. Frequency of inspection may be adjusted to suit your requirements through experience. Frequency of inspection is dependent upon:

- The care, amount of use, and handling of the tool.
- The type and size of the products crimped.
- The degree of operator skill.
- The presence of abnormal amounts of dust and
- dirt.
- Your own established standards.

All tools are inspected before packaging. Since there is a possibility of tool damage in shipment, new tools should be inspected in accordance with Section 7 when received in your plant. Due to the precision design, it is important that no parts of these tools be interchanged except those replacement parts listed in Figure 13.

7.1. Cleaning

The tool should be immersed (handles partially closed) in degreasing compound to remove accumulated dirt, grease, and foreign matter.



NOTE

Make certain the degreasing compound does not attack paint or plastic materials.

Remove remaining degreasing compound with a lint free cloth. When degreasing compounds are not available, tool may be wiped clean with a lint free cloth. Re-lubricate tool, as instructed in Paragraph 7.3 before placing it back in service.

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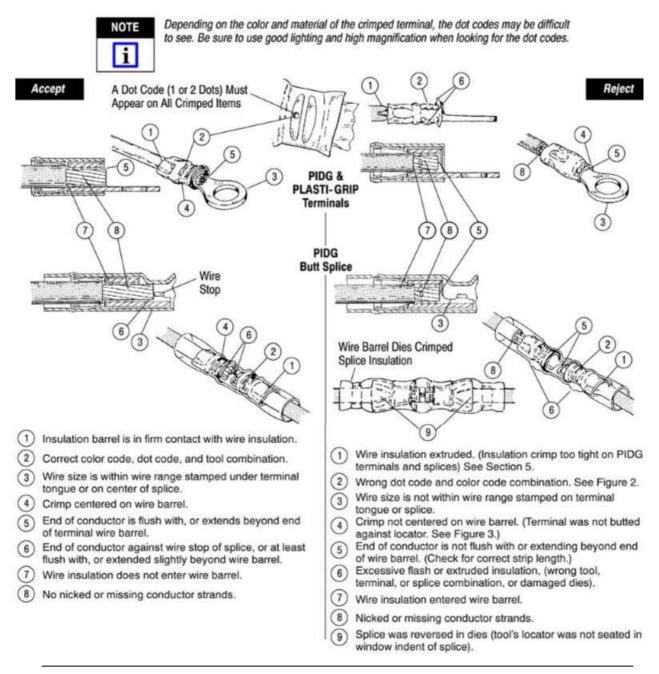


Figure 6

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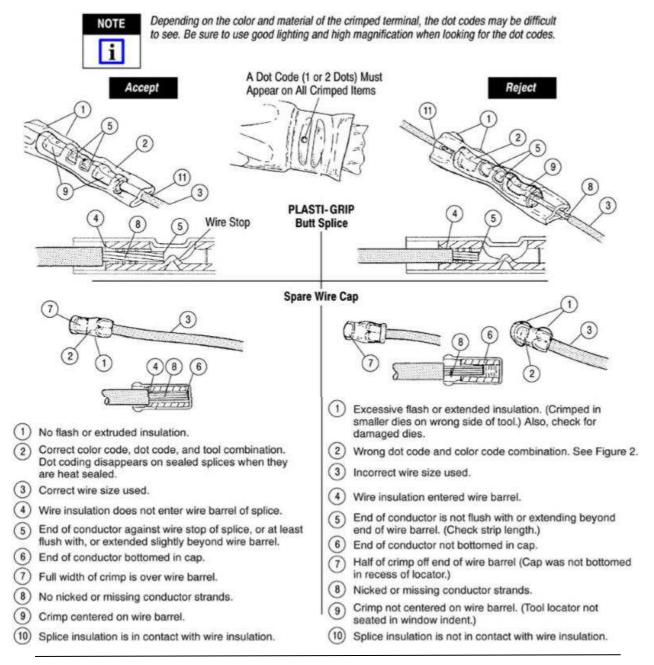


Figure 7

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7.2. Visual Inspection

- 1. Visually inspect the tool for missing parts, then operate the tool and note the return action of the spring-loaded handles. If parts are missing or defective, refer to Figure 13 for customer replaceable parts.
- 2. Visually inspect the die closure surfaces for flattened, broken, pitted, or chipped conditions. Although dies may gage within permissible limits, worn or damaged die closure surfaces are objectionable and can affect the quality of the crimp.

Examples of possible damaged die closure surfaces are shown in Figure 8.

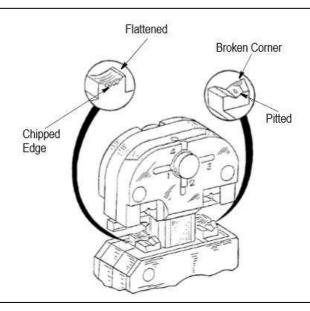


Figure 8

7.3. Lubrication

Lubricate all pins, pivot points, and bearing surfaces with SAE 20 motor oil as follows:

Tools used in daily production: Lubricate daily
 Tools used daily (occasional): Lubricate weekly
 Tools used weekly: Lubricate monthly

Wipe excess oil from tool, particularly from crimping area. Oil transferred from the crimping area onto certain terminations may affect the electrical characteristics of an application.

7.4. Gaging the Crimping Chamber

Each tool is inspected for proper die closures before packaging. An inspection should be performed periodically to check the tool die closures for excessive wear.



NOTE

The following plug gaging information for insulation crimping chambers is provided for customers specifically requiring this information. If plug gaging is not required, inspect the die closures using an alternate procedure, i.e., performing the "Insulation Crimp Adjustment" (see Section 5) and "Visual Inspection" (see Paragraph 7.2).



NOTE

Refer to the table in Figure 11 for alternate hard gage dimensions for tools 69692-1 and 69693-1.

A. Gaging the Crimping Chamber Using A Plug Gage

This inspection requires the use of plug gages conforming to the dimensions listed in Figures 9 and Figure 10. TE Connectivity does not manufacture or market these gages. Refer to Instruction Sheet 408-7424 for information concerning plug gages.

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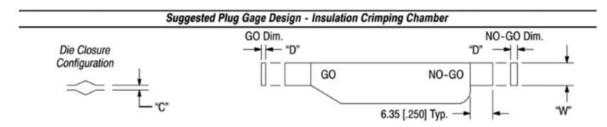


Suggested Plug Gage Design - Wire Barrel Crimping Chamber Die Closure Configuration GO Dim. "B" Dia. "B" Dia. 50.8 [2.00] Min. Typ.

TOOL	WIRE SIZE	GAGE ELEMENT DIMENSION "B"				
NUMBER	AWG	GO	NO-GO			
0170 and E00E0	22 - 16	2.769 - 2.776 [.10901093]	2.918 - 2.921 [.11491150]			
59170 and 59250	16 - 14	3.023 - 3.030 [.11901193]	3.172 - 3.175 [.12491250]			
50075	26 - 22	1.600 - 1.608 [.06300633]	1.750 - 1.753 [.06890690]			
59275	24 - 20	2.261 - 2.268 [.08900893]	2.410 - 2.413 [.09490950]			
50000	24 - 20	2.261 - 2.268 [.08900893]	2.410 - 2.413 [.09490950]			
59300	22 - 16	2.769 - 2.776 [.10901093]	2.918 - 2.921 [.11491150]			

TOOL NUMBER	WIRE SIZE AWG	SOLDER SLUG CRIMP HEIGHT	SOLDER SLUG DIAMETER REFERENCE
69692-1	26 - 24	2.34 ± 0.05 [.092 ± .002]	1/8 Diameter
	22 - 20	2.69 ± 0.05 [.106 ± .002]	1/8 Diameter
69693-1	18 - 16	3.35 ± 0.05 [.132 ± .002]	#18 - 1/8 Dia. #16 - 3/16 Dia.
	14	3.86 ± 0.05 [.152 ± .002]	3/16 Diameter

Figure 9



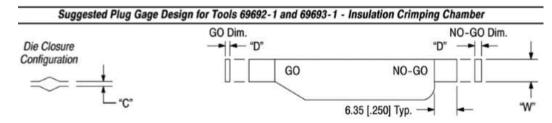
TOOL	WIRE SIZE	GAGE ELEMENT	WIDTH		
NUMBER	AWG	GO	NO-GO	"W" (Max.)	
50170 and 50050	22 - 16	0.762 - 0.770 [.03000303]	2.791 - 2.794 [.10991100]	3.18 [.125]	
59170 and 59250	16 - 14	1.016 - 1.024 [.04000403]	3.045 - 3.048 [.11991200]		
50075	26 - 22	0.700 0.7701.0000 00001	2 202 2 202 (2702 2023	10001000	
59275	24 - 20	0.762 - 0.770 [.03000303]	2.029 - 2.032 [.07990800]	2.36 [.093]	
50000	24 - 20	0.700 0.770 (.0000	0.704 0.704 (4000 4400)	0.40[405]	
59300	22 - 16	0.762 - 0.770 [.03000303]	2.791 - 2.794 [.10991100]	3.18 [.125]	

Use solder slug and crimp height comparator. (Reference 408-7424) DIE CLOSURE DIM'S. "C" TOOL **WIRE SIZE** WIDTH **SOLDER SLUG** Set Insulation Adj. Indicator Set Insulation Adj. Indicator AWG DIAMETER REFERENCE NO. "W" (MAX.) at No. 1 Posn at No. 4 Posn 26 - 24 0.635 [.0250] Min. 1.905 [.0750] Max. 1/8 Diameter 69692-1 2.36 [.093] 22 - 20 0.889 [.0350] Min. 2.159 [.0850] Max. 1/8 Diameter #18 - 1/8 Dia. #16 - 3/16 Dia. 18 - 16 O.762 [.0300] Min. 2.794 [.1100] Max. 69693-1 3.08 [.125] 14 1.016 [.0400] Min. 3.048 [.1200] Max. 3/16 Diameter

Figure 10

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Tool No.	Wire Size AWG	Set Insulation Adj. Indicator at No. 1 Posn (GO)	Set Insulation Adj. Indicator at No. 4 Posn (NO-GO)	Width "W" (Max.)
00000 4	26 - 24	0.635-0.643 [.02500253]	1.902-1.905 [.07490750]	D. C. Williams Construction (C.)
69692-1	22 - 20	0.889-0.897 [.0350-0.353]	2.156-2.159 [.08490850]	2.36 [.093]
69693-1	18 - 16	0.762-0.770 [.03000303]	2.791-2.794 [.10991100]	0.00 [405]
09093-1	14	1.016-1.024 [.04000430]	3.023-3.048 [11901200]	3.08 [.125]

Figure 11

To gage the crimping area(s), refer to Figure 12 and proceed as follows:

- 1. Clean oil or dirt from the crimping chamber and plug gage.
- 2. Close handles of tool until wire barrel dies are bottomed. Do not apply additional pressure to tool handles.
- 3. With wire barrel dies bottomed, inspect the wire barrel crimping chamber using the proper plug gage. Lift the spring-loaded locator up and hold gage in straight alignment with the crimping chamber. Carefully try to insert, without forcing, the GO element. See Figure 12, Detail A. The GO element must pass completely through the crimping area.

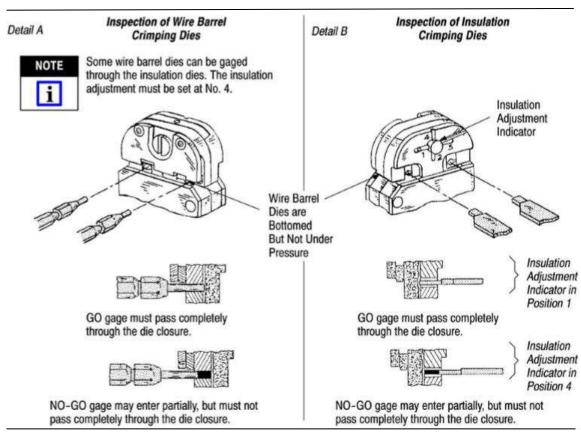


Figure 12

4. Try to insert the NO-GO element. The NO-GO element may enter partially but must not pass completely through the crimping area.

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- 5. Set insulation adjustment indicator in Position 1. Measure both insulation crimping chambers with the proper GO plug gages in the same manner as Steps 2 and 3. See Figure 12, Detail B.
- 6. Set insulation adjustment indicator in Position 4. Measure both insulation crimping chambers with the proper NO-GO plug gages in the same manner as Steps 2 and 4. See Figure 12, Detail B.

If the crimping areas conform to the gage inspection, the tool is considered dimensionally correct. If the crimping areas do not conform to the inspection, the tool must be repaired. Refer to Section 8, REPLACEMENT AND REPAIR.

B. Gaging the Crimping Chamber Using A Solder Slug and Crimp Height Comparator

This inspection requires the use of crimp height comparators, solder slugs, and the dimensions listed in Figure 10. TE Connectivity does not manufacture or market crimp-height comparators. Refer to Instruction Sheet 408-7424 for information concerning comparators.

To gage the crimping chamber using the solder slug, proceed as follows:

- 1. Clean oil or dirt from the crimping chamber.
- 2. Set insulation adjustment to Position 1.
- 3. Insert proper solder slug into one crimp chamber (see Figure 9 and Figure 10) and cycle tool.
- 4. Measure the compressed solder slug for the wire- barrel crimping chamber and check for compliance to dimensions in Figure 9.
- 5. Measure the compressed area for the insulation- crimping chamber and check for compliance to the GO dimensions in Figure 10.
- 6. Set the insulation adjustment to Position 4 and insert the appropriate solder slug into the insulation chamber.
- 7. Cycle the tool.
- 8. Measure the compressed area (of the solder) for the insulation-crimping chamber and check for compliance to the NO-GO dimensions in Figure 10.
- 9. Repeat the steps above for the second crimp chamber.

7.5. Ratchet Control Inspection

Obtain a .025-mm [.001-in.] shim that is suitable for checking the clearance between the bottoming surfaces of the crimping dies. To inspect the CERTI- CRIMP hand crimping tool ratchet control:

- 1. Perform a crimp using the largest wire size for your tool.
- 2. While holding the wire in place, squeeze the tool handles together until the ratchet releases. Hold the tool in this position, maintaining just enough pressure to keep the dies closed.
- 3. Check the clearance between the bottoming surfaces of the crimping dies. If the clearance is .025 mm [.001 in.] or less, the ratchet is satisfactory. If clearance exceeds .025 mm [.001 in.], the ratchet is out of adjustment, and must be repaired. Refer to Section 8, REPLACEMENT AND REPAIR.

If the tool conforms to these inspection procedures, lubricate it with a THIN coat of any good SAE 20 motor oil and return it to service.

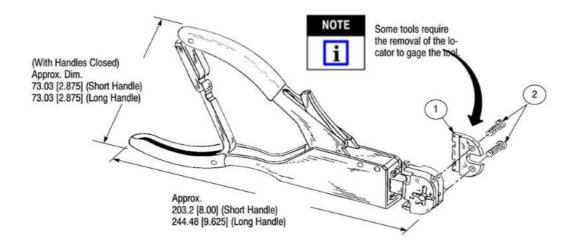
8. REPLACEMENT AND REPAIR

Replacement parts are listed in Figure 13. Parts other than those listed in Figure 13 should be replaced by TE Connectivity to ensure quality and reliability of the tool. Order replacement parts through your TE Representative, or call 1-800-526-5142, or send a facsimile of your purchase order to 1-717-986-7605, or write to:

CUSTOMER SERVICE (038-035) TE CONNECTIVITY CORPORATION PO BOX 3608 HARRISBURG PA 17105-3608

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Tool Numbers and Replacement Part Number

Item	Description	59275 Short Handle 59300 Long Handle		69693-1 Long Handle	Qty Per Assy
1	Support, Locator	 	59755-1	59755-2	1
2	Screw	 	1-21002-3	1-21002-3	2

Figure 13

9. REVISION SUMMARY

Revisions to this instruction sheet include:

- Revised with most up-to-date corporate logo, entity designation and outline structure.
- Revised Section 2 and paragraph 4.1.2.
- The locations of Figures 3 thru 13 were relocated throughout the document to better align with the relevant text
- Added TEFLON and SAE trademark notations at first appearance.
- Corrected NOTE icon in Figure 13

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X-ON Electronics

Largest Supplier of Electrical and Electronic Components

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