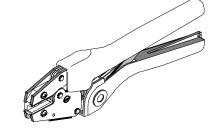


## **Hand Crimp Tool Operating Instruction And Specifications Sheet** Order No. 64001-0900 Eng. No. RHT 7050 (Replaces 19285-0053)



#### **FEATURES**

- A full cycle ratcheting hand tool ensures complete crimps
- Long handles for comfortable crimping with reduced crimping force
- A precision user-friendly terminal locator wire stop holds terminals in the proper crimping position

#### **SCOPE**

Nylon closed end connectors 12–22 AWG

#### **Testing**

#### Mechanical

The tensile test, or pull test, is a means of evaluating the mechanical properties of the crimped connections. The following charts show the UL specifications for various wire sizes. The tensile strength is shown in pounds and indicates the minimum acceptable force to break or separate terminal from the conductor.

Wire Size (AWG)	UL – 486 C
22	8
20	10
18	10
16	15
14	25
12	35

\* UL — 486 C — Closed end connectors and Wire Nuts.

The following is a partial list of the product part numbers and their specifications that this tool is designed to run. We will be adding to this list and an up to date copy is available on www.molex.com

Terminal No.	Terminal	Wire Size		Wire Combinations
Terminu No.	Eng No. (REF)	AWG	mm²	Wile Combinations
19160-0009	NC-2212	12 - 22	(3.30-0.35)	See Chart 1
19160-0010	NC-2212-L	12 - 22	(3.30-0.35)	See Chart 1
19160-0011	NC-2212-BA	12 - 22	(3.30-0.35)	See Chart 1

Doc No. 64001-0900 Release Date: 10-09-02 **UNCONTROLLED COPY** Page 1 of 7 Revision Date: 05-11-05

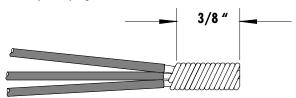
Revision: D

#### **OPERATION**

### **Wire Preparation**

Pre-twisted wire not required for OEM applications. For Solid Wire strip leads to 3/8 of an inch. Insert into connector and crimp (OEM only).

For stranded wire strip leads to approximately 3/4 of an inch. Twist the wire combination even and tight. Trim stripped pre-twisted area to 3/8 of an inch and insert into connector and crimp. For more information follow the Quality Crimping Handbook.



### CHART 1

Wire Combinations for Nylon- Insulated Closed End Connectors						
Par	_			NC-221		
Wire Type				(AWG		Rating
	14	16	18	20	22	
Stranded or Solid	1	1				UL & CSA
Stranded or Solid	1		1			UL & CSA
Stranded or Solid	1		2	<u> </u>		UL & CSA
Stranded or Solid	1		1	1		UL & CSA
Stranded or Solid	1		1	2		UL & CSA
Stranded or Solid	1		1		1	UL & CSA
Stranded or Solid	1		1		2	UL & CSA
Stranded or Solid	1		1		3	UL & CSA
Stranded or Solid	1			1		UL & CSA
Stranded or Solid	1			2		UL & CSA
Stranded or Solid	1			3		UL & CSA
Stranded or Solid	1				1	UL & CSA
Stranded or Solid	1				2	CSA
Stranded or Solid	1				3	CSA
Stranded or Solid	1				4	CSA
Stranded or Solid	1		1	1	1	CSA
Stranded or Solid		3				UL & CSA
Stranded or Solid		2				UL & CSA
Stranded or Solid		2	1			UL & CSA
Stranded only		2	2			UL & CSA
Stranded or Solid		2		1		UL & CSA
Stranded or Solid		2		2		UL & CSA
Stranded or Solid		2			1	UL & CSA
Stranded or Solid		2			2	UL & CSA
Stranded or Solid		2			3	UL & CSA
Stranded or Solid		2	1	1		UL & CSA
Stranded or Solid		2	1		1	UL & CSA
Stranded or Solid		2		1	1	UL & CSA
Stranded or Solid		1		1	2	UL & CSA
Stranded or Solid		1	1			UL & CSA
Stranded or Solid		1	1			UL & CSA
Stranded or Solid	İ	1	2			UL & CSA
Stranded or Solid	İ	1	3			UL & CSA

Wire Combinations for Nylon- Insulated Closed End Connectors							
	Part No. 191600009 (NC-2212) Wire Type Wire Gauge (AWG)						
wire Type	14	Wire G	auge 18	(AWG)	22	Rating	
Stranded or Solid	14	1	10	1	22	UL & CSA	
Stranded or Solid		1		2		UL & CSA	
Stranded or Solid		1		3		UL & CSA	
Stranded or Solid		1		4		UL & CSA	
Stranded or Solid		1			1	UL & CSA	
Stranded or Solid		1			2	UL & CSA	
Stranded or Solid		1			3	UL & CSA	
Stranded or Solid		1			4	UL & CSA	
Stranded or Solid		1			5	UL & CSA	
Stranded or Solid		1	2	1		UL & CSA	
Stranded or Solid		1	2		1	UL & CSA	
Stranded or Solid		1	2		2	UL & CSA	
Stranded or Solid			1	1	_1_	UL & CSA	
Stranded or Solid			1	2	1	UL & CSA	
Stranded or Solid			1	1	2	UL & CSA	
Stranded Only			5			UL only	
Stranded or Solid			4			UL & CSA	
Stranded or Solid Stranded or Solid			4	1	1	UL & CSA	
Stranded or Solid			3			UL & CSA UL & CSA	
Stranded or Solid			3	1		UL & CSA	
Stranded or Solid			3	2		UL & CSA	
Stranded or Solid			3		1	UL & CSA	
Stranded or Solid			3		2	UL & CSA	
Stranded or Solid			3		3	UL & CSA	
Stranded or Solid			3	1	1	UL & CSA	
Stranded or Solid			2			UL & CSA	
Stranded or Solid			2	1		UL & CSA	
Stranded or Solid			2	2		UL & CSA	
Stranded or Solid			2	3		UL & CSA	
Stranded or Solid			2		1	UL & CSA	
Stranded or Solid			2		2	UL & CSA	
Stranded or Solid			2		3	UL & CSA	
Stranded or Solid			2	1	1	UL & CSA	
Stranded or Solid			2	2	1	UL & CSA	
Stranded or Solid			2	3	_1_	UL & CSA	
Stranded or Solid			2	1	2	UL & CSA	
Stranded or Solid			2	1	3	UL & CSA	
Stranded or Solid			1	1		UL & CSA	
Stranded or Solid Stranded or Solid			1	2		UL & CSA UL & CSA	
Stranded or Solid			1	3		UL & CSA	
Stranded or Solid			1	5		UL & CSA	
Stranded or Solid			1		1	UL & CSA	
Stranded or Solid			1		2	UL & CSA	
Stranded or Solid			1		3	UL & CSA	
Stranded or Solid			1		4	UL & CSA	
Stranded or Solid			1		5	UL & CSA	
Stranded or Solid			1	1	1	UL & CSA	
Stranded or Solid			1	2	1	UL & CSA	
Stranded or Solid			1	3	1	UL & CSA	
Stranded or Solid	Ĺ		1	4	1	UL & CSA	
Stranded or Solid			1	1	2	UL & CSA	
Stranded or Solid			1	1	3	UL & CSA	
Stranded or Solid			1	1	4	UL & CSA	
Stranded or Solid			1	2	2	UL & CSA	
Stranded or Solid			1	2	3	UL & CSA	
Stranded or Solid		<u> </u>	1	3	2	UL & CSA	
Stranded or Solid		<u> </u>		6		UL & CSA	
Stranded or Solid		<u> </u>		5		UL & CSA	

Doc No. 64001-0900 Release Date: 10-09-02 **UNCONTROLLED COPY** Page 2 of 7

Revision: D Revision Date: 05-11-05

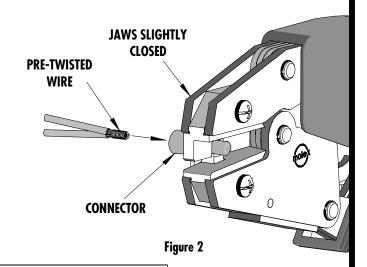
Wire Combinations for Nylon- Insulated Closed End Connectors Part No. 191600009 (NC-2212)						
Wire Type		Wire G	auge	(AWG)	)	Rating
wiie Type	14	16	18	20	22	Kuiliig
Stranded or Solid				5	1	UL & CSA
Stranded or Solid				4		UL & CSA
Stranded or Solid				4	1	UL & CSA
Stranded or Solid				4	2	UL & CSA
Stranded or Solid				3		UL & CSA
Stranded or Solid				3	1	UL & CSA
Stranded or Solid				3	2	UL & CSA
Stranded or Solid				3	3	UL & CSA
Stranded or Solid				2		UL & CSA
Stranded or Solid				2	1	UL & CSA
Stranded or Solid				2	2	UL & CSA
Stranded or Solid				2	3	UL & CSA

Wire Combinations for Nylon- Insulated Closed End Connectors Part No. 191600009 (NC-2212)						
Wire Type	,	Wire G	auge	(AWG)	)	Rating
	14	16	18	20	22	
Stranded or Solid				2	4	UL & CSA
Stranded or Solid				1	1	UL & CSA
Stranded or Solid				1	2	UL & CSA
Stranded or Solid				1	3	UL & CSA
Stranded or Solid				1	4	UL & CSA
Stranded or Solid				1	5	UL & CSA
Stranded or Solid					6	UL & CSA
Stranded or Solid					5	UL & CSA
Stranded or Solid					4	UL & CSA
Stranded or Solid					3	UL & CSA
Stranded or Solid					2	UL & CSA

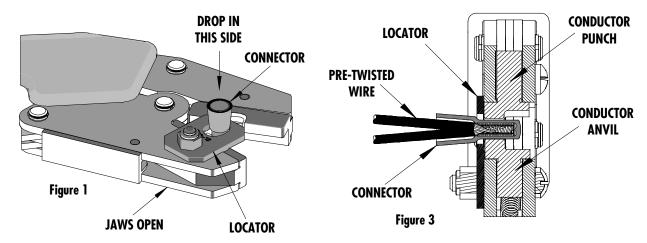
#### **Crimping Terminals**

Open the tool by first closing the jaws sufficiently for the ratchet mechanism to release.

- Hold hand tool with the locator facing up. Insert the closed end connector in the correct slot (12-22). Make sure that the shoulder of the connector is resting on the locator plate (See Figure 1).
- Close the hand tool jaws until the connector is held snug in place.
   Load the connector with the desired wire combination (See Figure 2 and 3). Complete the crimp by closing the hand tool handles until they release.



Note: The tamper proof ratchet action will not release the tool until it has been fully closed.



3. Remove the crimp and inspect for proper crimp location, and check for insulation closure. Molex offers a Crimp Inspection Handbook for closed barrel industrial product. See our website or contact your sales engineer.

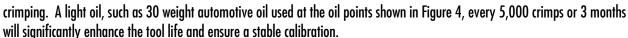
**Note**: Whenever crimping without the locator, make sure the seam of the terminal is oriented up or down in the tool if using unbrazed product, as this will provide higher pull force values.

Doc No. 64001-0900 Release Date: 10-09-02 **UNCONTROLLED COPY** Page 3 of 7 Revision: D Revision Date: 05-11-05

#### **Maintenance**

It is recommended that each operator of the tool be made aware of, and responsible for, the following maintenance steps:

- 1. Remove dust, moisture and other contaminants with a clean brush, or soft, lint-free cloth.
- 2. Do not use any abrasive materials that could damage the tool.
- 3. Make certain all pins; pivot points and bearing surfaces are protected with a thin coat of high quality machine oil. Do not oil excessively. The 64001-0900 (RHT-7050) was engineered for durability, but like any fine piece of equipment it needs cleaning and lubrication for a maximum service life of trouble-free



4. When tool is not in use, keep the handles closed to prevent objects from becoming lodged in the crimping dies, and store the tool in a clean, dry area.



Should this tool ever become stuck or jammed in a partially closed position, **Do Not** force the handles open or closed. The tool will open easily by pressing the ratchet release lever (See Figure 5).

## How To Adjust Tool Preload (See Figure 5)

It may be necessary over the life of the tool to adjust tool handle preload force. Listed below are the steps required to adjust the crimping force of the hand tool to obtain proper crimp conditions:

- Remove the screw and plastic cover washer.
   Note the setting wheel position.
- 2. Lift the setting wheel off the axle. Turn the eccentric axle with a screwdriver.
- 3. Turning the eccentric axle counter-clockwise (CCW) will increase handle force.
- 4. Replace the setting wheel to the axle, aligning the nearest notch in the setting wheel to the dowel pin.
- 5. Replace the plastic cover washer and screw.
- Check the crimp specifications after tool handle preload force is adjusted.

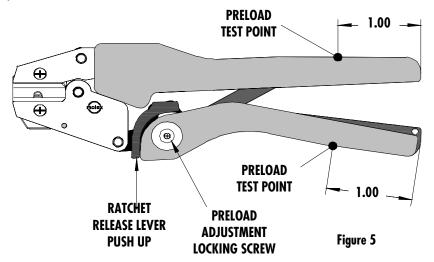


Figure 4

LUBRICATION POINTS (BOTH SIDES)

**LIGHT OIL (EVERY** 

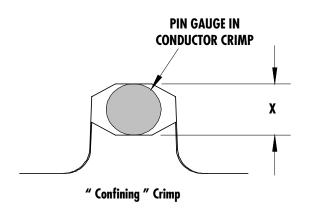
3 MONTHS OR 5,000 CRIMPS)

Doc No. 64001-0900 Release Date: 10-09-02 **UNCONTROLLED COPY** Page 4 of 7

Revision: D Revision Date: 05-11-05

#### **Tool Calibration**

A Certificate of Calibration (see last page) was supplied with the tool. To recalibrate this tool, pin gauge measurements should be taken in each conductor nest and compared to this chart. The tool should be lubricated prior to recalibration to ensure consistent measurements. Handle preload is factory set to 25-45 LBS. See How to Adjust Tool Preload (See Figure 5) to recalibrate.



Wir	e Range			Dimension uctor Crimp		
Awg	mm²	Mean	Go	No Go		
12 - 22	0.35 - 3.30	.102	.099	.106		

## Warranty

This tool is for electrical terminal crimping purposes only. This tool is made of the best quality materials. All vital components are long life tested. All tools are warranted to be free of manufacturing defects for a period of 30 days. Should such a defect occur, we will repair or exchange the tool free of charge. This repair or exchange will not be applicable to altered, misused or damaged tools. This tool is designed for hand use only. Any clamping, fixturing, or use of handle extensions voids this warranty.

Hand held crimping tools are intended for low volume, prototyping, or repair requirements only.

Caution: Repetitive use of this tool should be avoided.

Doc No. 64001-0900 Release Date: 10-09-02 **UNCONTROLLED COPY** Page 5 of 7 Revision Date: 05-11-05

**Revision: D** 

## **PARTS LIST**

Item	Order No	Description	Quantity
	64001-0900	Hand Crimp Tool	(Fig. 6)
1	64000-0076	Repair Kit (Springs, Pins and E-Rings)	1
2	63810-0000	Handle	1
3	64001-0975	Locator Assembly	1
4	64001-0970	Tooling Kit	1
		Tooling Kit Only	
5	64001-0901	Conductor Punch	1
6	64001-0902	Conductor Anvil	1

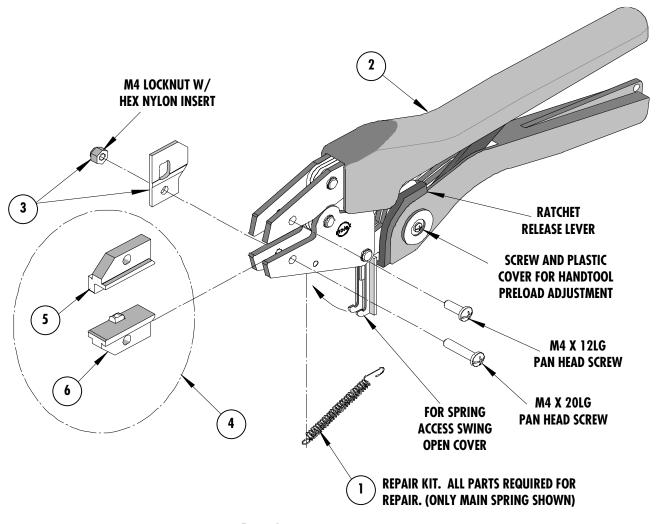
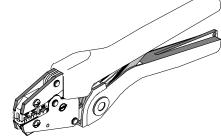


Figure 6

Doc No. 64001-0900 Revision: D Release Date: 10-09-02 Revision Date: 05-11-05





Page 7 of 7

Certi	ificate of Calibration	9,100
Tool Order Number	_	·
Tool Eng. Number		
Tool Revision		
Serial Number	<u> </u>	
Date of Manufacture	_	
	Handle Load Range at 1 inch from	the Tips =
	Į	Actual =
Pin Gage of Conductor Nest/Nests or Slug height if	the nest is the "F" Crimp style.	
Range Conductor Nest # 1 =	Actual =	
Range Conductor Nest # 2 =	Actual =	
Range Conductor Nest # 3 =	Actual =	
Technician		

## **Molex Application Tooling Group**

1150 E. Diehl Road Naperville, IL 60563 Tel: (630) 969-4550

Fax: (630) 505-0049

Doc No. 64001-0900 Release Date: 10-09-02 **UNCONTROLLED COPY** 

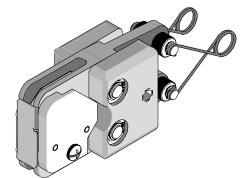
Revision Date: 05-11-05 **Revision: D** 

Date of Calibration\_

Calibration should be done every 5,000 cycles or 3 months. Tools should be lubricated during this operation.



**Air Powered Crimp Tool Head Operating Instruction Sheet And Specifications** Part No. 64005-0600 Eng. No. AT 7000 (Replaces 19283-0046)



#### **FEATURES**

- Quick-change tool head for the 19279-0001 (AT-200)
- Tooling kit is interchangeable with other kits in the 64001 and 64003 Series
- A precision user-friendly terminal locator holds terminals in the proper crimping position for each of the nests
- 2-nested tool eliminates the need for additional tools

#### **SCOPE**

Nylon closed end connectors 10 - 22 AWG (2 nests 14 - 22 and 10 - 16). This tool head is intended for use in the 19279-0001 (AT-200) either hand held or with optional bench adapter 19078-0307 (ATBA) and foot switch.

#### **Testing** Mechanical

The tensile test, or pull test, is a means of evaluating the mechanical properties of the crimped connections. The following charts show the UL specifications for various wire sizes. The tensile strength is shown in pounds and indicates the minimum acceptable force to break or separate terminal from the conductor.

Wire Size (AWG)	*UL – 486 C
22	8
20	10
18	10
16	15
14	25
12	35
10	40

 $^*$  UL - 486 C - Closed end connectors and Wire Nuts.

The following is a partial list of the product part numbers and their specifications that this tool is designed to run. We will be adding to this list and an up to date copy is available on www.molex.com

Terminal No.	Terminal Eng No. (REF)	Wi	re Size	Wire Combinations
Termina No.	Terminal Eng No. (KEF)	AWG	mm²	wife Compiliations
19160-0002	NC-1610	10 - 16	(5.00-1.30)	See Chart 1
19160-0003	NC-1610-BA	10 - 16	(5.00-1.30)	See Chart 1
19160-0004	NC-1610-L	10 - 16	(5.00-1.30)	See Chart 1
19160-0006	NC-1610-Y	10 - 16	(5.00-1.30)	See Chart 1
19160-0030	NC-S1610	10 - 16	(5.00-1.30)	See Chart 1
19160-0012	NC-2214	14 - 22	(2.00-0.35)	See Chart 2
19160-0013	NC-2214-BA	14 - 22	(2.00-0.35)	See Chart 2
19160-0015	NC-2214-L	14 - 22	(2.00-0.35)	See Chart 2
19160-0016	NC-2214-R	14 - 22	(2.00-0.35)	See Chart 2

Doc No. 64005-0600 Release Date: 08-20-02 **UNCONTROLLED COPY** Page 1 of 7 **Revision: E** Revision Date: 05-11-05

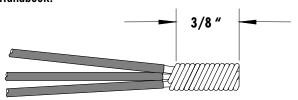
#### **OPERATION**

Refer to the instruction manual for the 19279-0001 (AT200) for mounting this crimp tool head.

#### **Wire Preparation**

Pre-twisted wire not required for OEM applications. For Solid Wire strip leads to 3/8 of an inch. Insert into connector and crimp (OEM only).

For stranded wire strip leads to approximately 3/4 of an inch. Twist the wire combination even and tight. Trim stripped pretwisted area to 3/8 of an inch and insert into connector and crimp. For more information follow the Quality Crimping Handbook.



#### CHART 1

Wire Combinations for Nylon- Insulated Closed End Connectors Part No. 191600002 (NC-1610)							
Wire Tune		Wir	e Gau	ge (A)	NG)		Rating
Wire Type	12	14	16	17	18	20	Kullily
Stranded or Solid	1		1				UL & CSA
Stranded or Solid	1				1		UL & CSA
Stranded or Solid	1				2		UL & CSA
Stranded or Solid		2					UL & CSA
Stranded or Solid		1	2				UL & CSA
Stranded or Solid		1	1				UL & CSA
Stranded or Solid		1	1		1		UL & CSA
Stranded or Solid		1			3		UL & CSA
Stranded or Solid		1			2		UL & CSA
Stranded or Solid		1			1		UL & CSA
Stranded or Solid			3		1		UL & CSA
Stranded or Solid			3				UL & CSA
Stranded or Solid			2		3		UL & CSA
Stranded or Solid			2		2		UL & CSA
Stranded or Solid			2		1		UL & CSA
Stranded or Solid			2				UL & CSA
Stranded or Solid			1		4		UL & CSA
Stranded or Solid			1		3		UL & CSA
Stranded or Solid			1		2		UL & CSA
Stranded or Solid					1		UL & CSA
Stranded or Solid					6		UL & CSA

Wire Combinations for Nylon- Insulated Closed End Connectors Part No. 191600002 (NC-1610)							
Wire Type		Wire Gauge (AWG)					Rating
	12	14	16	17	18	20	
Stranded or Solid					5		UL & CSA
Stranded or Solid					4		UL & CSA
Stranded or Solid					3		UL & CSA
Stranded only				2	1		UL
Stranded only				3	2		UL
Solid only	1		3				CSA

#### **CHART 2**

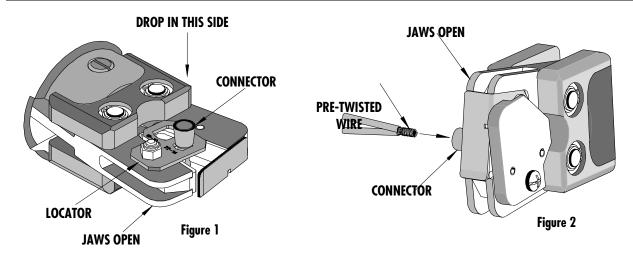
Wire Combinations for Nylon- Insulated Closed End Connectors Part No. 19160001 (NC-2214)						
W: T		Wire Gauge (AWG)				
Wire Type	14	16	18	20	22	Rating
Stranded only		1	1			UL only
Stranded only		1	1	1	1	UL only
Stranded only		1		2		UL only
Stranded only		1		1		UL only
Stranded only		1			3	UL only
Stranded only		1			2	UL only
Stranded only		1			1	UL only
Stranded only			3			UL only
Stranded only			2	1		UL only
Stranded only			2		2	UL only
Stranded only			2		1	UL only
Stranded only			1	3		UL only
Stranded only			1	2		UL only
Stranded only			1	2	1	UL only
Stranded only			1	1	3	UL only
Stranded only			1	1	2	UL only
Stranded only			2			UL only
Stranded only			1	1	1	UL only
Stranded only			1		5	UL only
Stranded only			1		4	UL only
Stranded only			1		3	UL only
Stranded only				4	1	UL only
Stranded only				4		UL only
Stranded only				3	2	UL only
Stranded only				3	1	UL only
Stranded only				2	4	UL only
Stranded only				2	3	UL only
Stranded only				2	2	UL only
Stranded only				1	6	UL only
Stranded only				1	5	UL only
Stranded only				1	4	UL only
Stranded only					7	UL only
Stranded only					6	UL only
Solid only			3			UL only
Solid only			2			UL only
Stranded only	İ	i			7	CSA onl
Stranded only	İ	i		2	4	CSA onl
Stranded only		1		2		CSA onl
Stranded only			2	1		CSA onl
Copper			2			
Stranded only	1	1	3	1		CSA onl

## **Crimping Terminals**

- 1. Hold Air Head crimp tool with the locator facing up. Insert the closed end connector in the correct slot (14 22 or 10 16). Make sure that the shoulder of the connector is resting on the locator plate (See Figure 1).
- 2. Place pre-twisted wire into closed-end connector. Than press lever on air tool (See Figure 2 and 3). Release after jaws have closed.

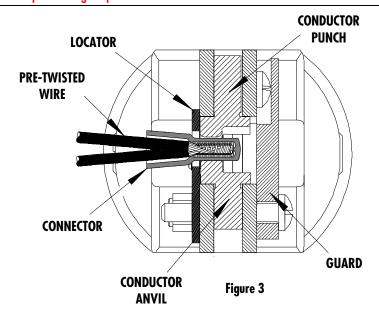
Doc No. 64005-0600 Release Date: 08-20-02 **UNCONTROLLED COPY** Page 2 of 7 Revision: E Revision Date: 05-11-05

**Caution:** Never operate this tool without the supplied safety shield in place. Never place fingers in the tool nests.



Remove the crimp and inspect for proper crimp location, and check for insulation closure. Molex offers a Crimp Inspection Handbook for closed barrel industrial product. See our website or contact you sales engineer.

**Note:** Whenever crimping without the locator, make sure the seam of the terminal is oriented up or down in the tool if using unbrazed product, as this will provide higher pull force values.



Maintenance

It is recommended that each operator of the tool be made aware of, and responsible for, the following maintenance steps:

- Remove dust, moisture and other contaminants with a clean brush, or soft, lint-free cloth.
- 2. Do not use any abrasive materials that could damage the tool.
- 3. Make certain all pins; pivot points and bearing surfaces are protected with a thin coat of high quality machine oil. Do not oil excessively. The 64005-0600 (AT-7000) was engineered for durability, but like any fine piece of equipment it needs cleaning and lubrication for a maximum service life of trouble-free crimping. A light oil, such as 30 weight automotive oil used at the oil points shown in Figure 4, every 5,000 crimps or monthly will significantly enhance the tool life and ensure a stable calibration.

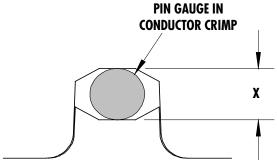
Page 3 of 7

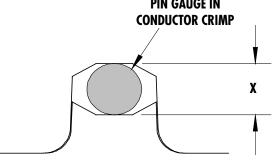
4. When tool is not in use store the tool in a clean, dry area.

Doc No. 64005-0600 Release Date: 08-20-02 UNCONTROLLED COPY
Revision: E Revision Date: 05-11-05

### **Tool Calibration**

A Certificate of Calibration (See last page) was supplied with the tool. To recalibrate this tool, pin gauge measurements should be taken in each conductor nest and compared to this chart. The tool should be lubricated prior to recalibration to ensure consistent measurements.





**LUBRICATION POINTS** (BOTH SIDES) **LIGHT OIL (EVERY MONTH OR 5,000 CRIMPS)** Figure 4

" Confining " Crimp

Wire Range		"X" Dimension Conductor Crimp			
Awg	mm²	Mean	Go	No Go	
14 - 22	0.35 - 2.00	.100	.096	.104	
10 - 16	1.30 - 5.00	.120	.116	.128	

## Warranty

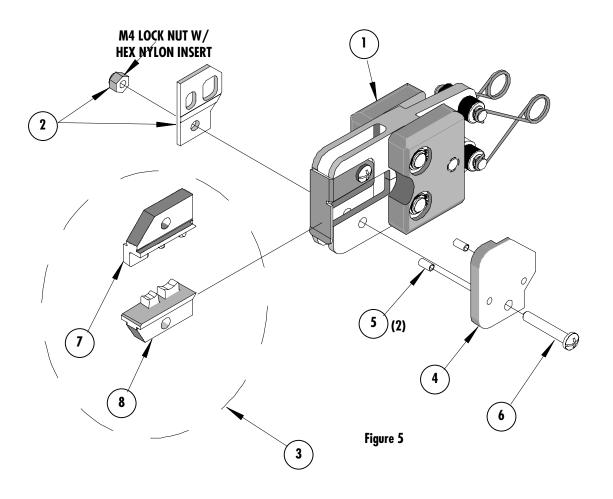
This tool is for electrical terminal crimping purposes only. This tool is made of the best quality materials. All vital components are long life tested. All tools are warranted to be free of manufacturing defects for a period of 30 days. Should such a defect occur, we would repair or exchange the tool free of charge. This repair or exchange will not be applicable to alter, misused or damaged tools.

Doc No. 64005-0600 Release Date: 08-20-02 UNCONTROLLED COPY Page 4 of 7 **Revision: E** Revision Date: 05-11-05

## **PARTS LIST**

Item	Order No	Description	Quantity		
	64005-0600	Crimp Tool Head	(Fig. 5)		
1	64005-0000	Basic Air Tool Head	1		
2	64001-0675	Locator Assembly	1		
3	64001-0670	Tooling Kit	1		
4	64005-0605	Guard	1		
5	N/A	3MM by 6 Long Roll Pin	2**		
6	N/A	M4 by 25 Long Freedrive Pan Head Screw	]**		
Tooling Kit Only					
7	64001-0601	Conductor Punch	1		
8	64001-0602	Conductor Anvil	1		

<sup>\*\*</sup> The following purchased parts are available from an Industrial supply company such as MSC (1-800-645-7270).



 Doc No. 64005-0600
 Release Date: 08-20-02

 Revision: E
 Revision Date: 05-11-05

## **Parts List (Continued)**

Item	Order No.	Description	Quantity
	64005-0000	Basic Air Tool Head	(Fig. 6)
1	64005-0103	Nose Guard	1
2	64000-0077	Repair Kit (Springs, Rods Pivots ,Rings, and Washers)	1
3	N/A	M4 by 12LG. Freedrive Pan Head Screw	]**
4	N/A	M4 by 30LG. Freedrive Pan Head Screw	]**
5	N/A	3/16" by 3/8" Long Dowel Pin	]**

<sup>\*\*</sup> The following purchased parts are available from an Industrial supply company such as MSC (1-800-645-7270).

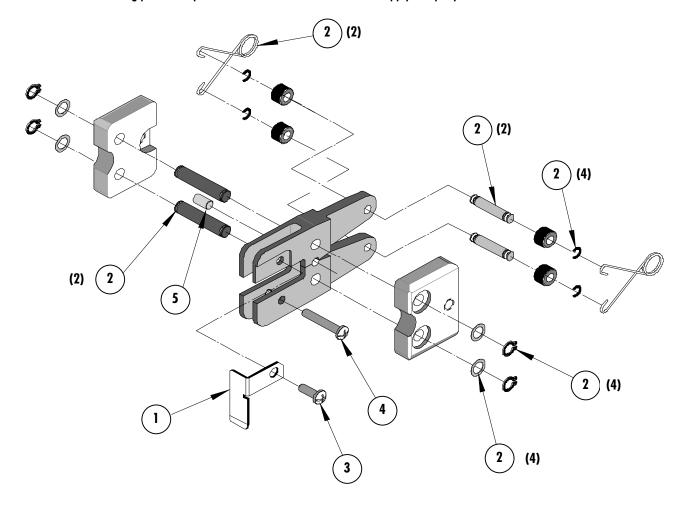


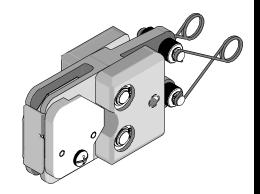
Figure 6

 Doc No. 64005-0600
 Release Date: 08-20-02

 Revision: E
 Revision Date: 05-11-05







Tool Order Number	
Tool Eng. Number	
Tool Revision	
Serial Number	
Date of Manufacture	
Pin Gauge of Conductor Nest/Nests or Slug heigh	nt if the nest is the "F" Crimp style.
Range Conductor Nest # 1 =	Actual =
Range Conductor Nest # 2 =	Actual =
Range Conductor Nest # 3 =	Actual =
Technician	
Date of Calibration	
Calibration should be done every 5,000 cycles of Tools should be lubricated during this operation.	r 3 months.

# **Molex Application Tooling Group**

1150 E. Diehl Road Naperville, IL 60563 Tel: (630) 969-4550; Fax: (630) 505-0049

Doc No. 64005-0600 Release Date: 08-20-02 UNCONTROLLED COPY
Revision: E Revision Date: 05-11-05