



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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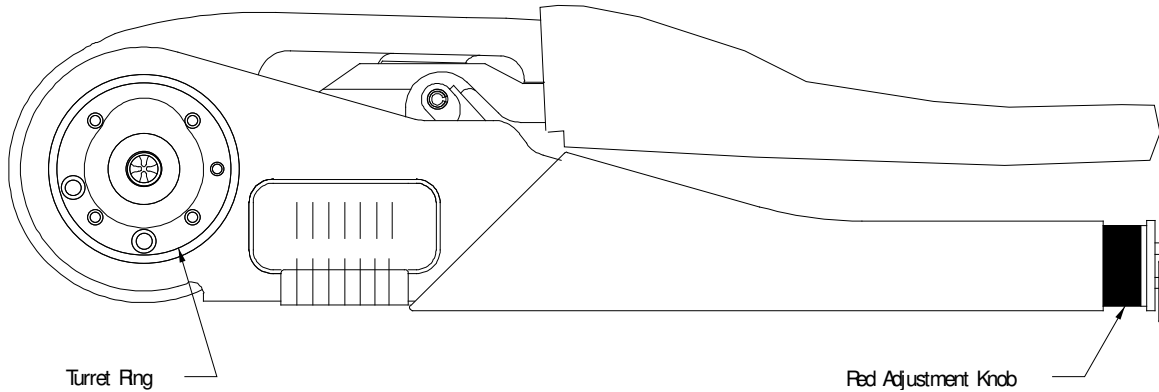
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# ASTRO TOOL CORP.

## CONNECTOR ASSEMBLY TOOLING



### 612179 7-STEP ADJUSTABLE CRIMP TOOL MS 3191-4 (NSN 5120-00-921-5769)

#### GENERAL

The Astro Tool 612179 7-step crimp tool is a cycle controlled, precision crimp tool capable of crimping wire barrel sizes 12 to 20.

Observe the precision ratchet action by opening and closing the tool several times. Note that the tool cannot be opened without fully completing the crimp cycle. When held, the tool fits your hand for less fatiguing one hand operation.

#### BASIC TOOL OPERATION

NOTE: For proper crimping, the Basic Tool must be used with an appropriate Positioner or Turret Assembly.

1. Select the proper Positioner or Three Position Turret Assembly for the contact to be crimped.

2. Attach the head to the turret ring on the tool using the captive socket head cap screws. A 9/64 hex wrench is required. Verify that the guide pin is properly located prior to tightening the cap screws. The turret will need to be in the "un-locked" position before attaching to the tool.

3. Select the appropriate insert from the color coded data plate on the side of the Turret. Turn the knurled knob until the color coded position is aligned with the index mark. Depress the turret until it locks into position.

4. Consult the Data Plate for correct selector setting. Remove the Safety Clip, raise and rotate the Red Adjustment Knob until the indicator is in line with the correct selector number. Release the Adjustment Knob. The tool is now ready to crimp.

5. Insert the wire and contact through the Indenter Opening and into the Positioner Assembly. Squeeze the handles until the Tool comes to a positive stop. Release the handles and the tool will return to the full open position.

6. Remove the completed crimped assembly.

#### CAUTION:

Do not press down on the wire during the crimp cycle.

## GAGING INSTRUCTIONS

Gaging the tool requires Astro part # 621068 Gage Pin Assembly.

1. Set the tool to selector setting # 4.
2. Close the handles to the fully closed position.
3. Holding the tool closed, insert the GO pin into the indenter opening as shown, see figure # 1 The gage must pass freely between the indenter tips.
4. Holding the tool closed, insert the NO GO pin into the indenter opening. The gage pin must NOT go between the indenter tips.

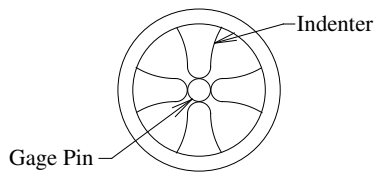


Figure # 1

**CAUTION:  
DO NOT CRIMP GAGE.  
TOOL DAMAGE WILL RESULT.**

## GAGING INFORMATION

( Dimensions in Inches )

SELECTOR SETTING NUMBER	GO SIZE ± .0001	NO GO SIZE ±.0001
1	.0280	.0350
2	.0320	.0390
3	.0380	.0450
4	.0440	.0510
5	.0520	.0590
6	.0580	.0650
7	.0660	.0730

## TOOL SERVICE

Astro Tool's 612179 Crimp Tool is designed for long, reliable service. If the tool becomes inoperative or does not gage properly, it is suggested that you contact our Customer Service Department for a Return Goods Authorization number and return the tool to our factory.

Upon receipt of the tool, Astro will inspect and overhaul each tool to put the tool back into acceptable and efficient operating condition. Worn parts will be replaced or repaired. Please note that Astro's Quality Control system is traceable to The National Institute of Standards and Technology (N.I.S.T.).

Service charges for tools not under warranty will be advised upon request.

Parts that Astro deems to have been damaged due to neglect, misuse or accident; and parts that have been altered or repaired by persons other than Astro Tool Corp. employees will be replaced subject to additional charge for such parts.

## ASTRO TOOL CORP. MANUFACTURERS OF INSERTION, REMOVAL, CRIMP TOOLS AND CONNECTOR SERVICE KITS

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