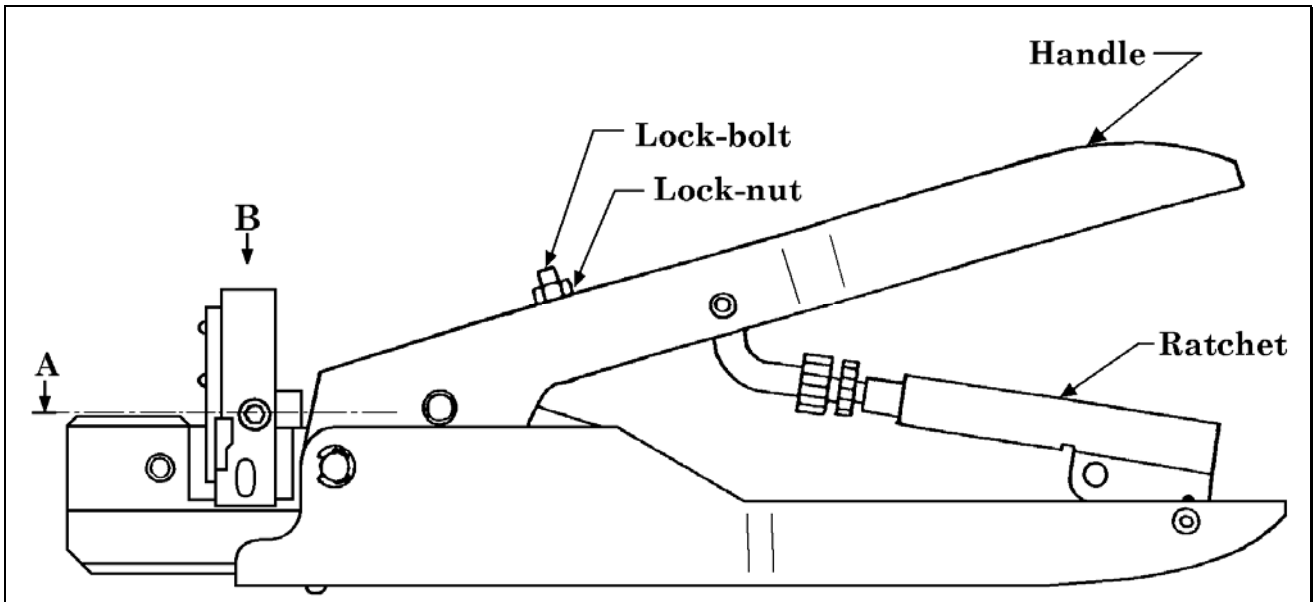


HARWIN

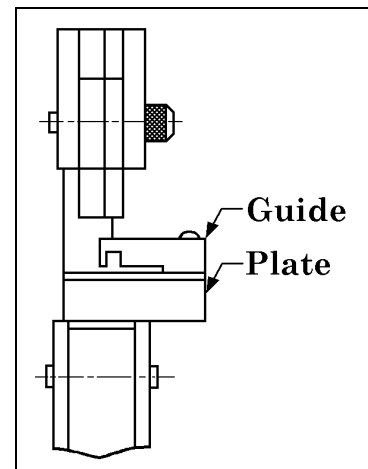
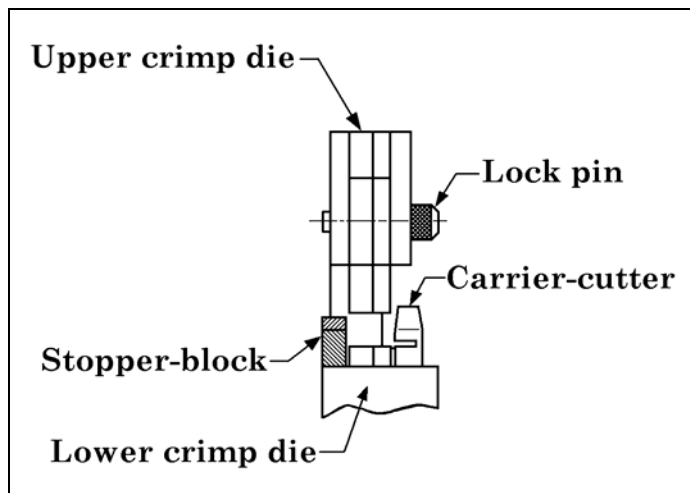
HAND CRIMP TOOL Z30-020



This Hand Crimp Tool has been designed for use with the following crimp contacts:

M30-1000046..... 1.25mm Pitch Crimp Contacts, Reeled, Tin

M30-1010046..... 1.25mm Pitch Crimp Contacts, Strip of 10, Tin



TOOL DESCRIPTION

The Z30-020 Hand Crimp Tool consists of a ratchet mechanism hand tool and a set of jaws. The jaws comprise of upper and lower crimp dies.

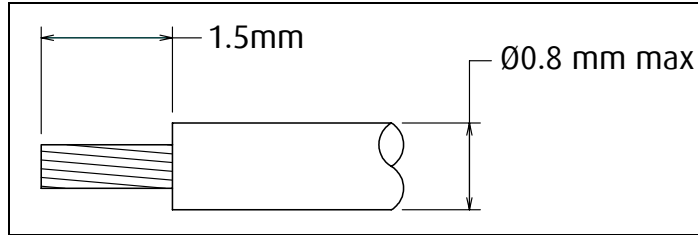
The contact is correctly crimped when the tool is free to open at the fully closed position, i.e. when the ratchet releases.

CRIMPING PROCEDURE

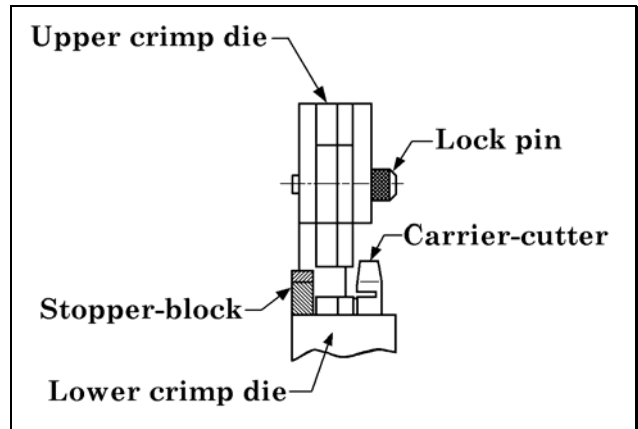
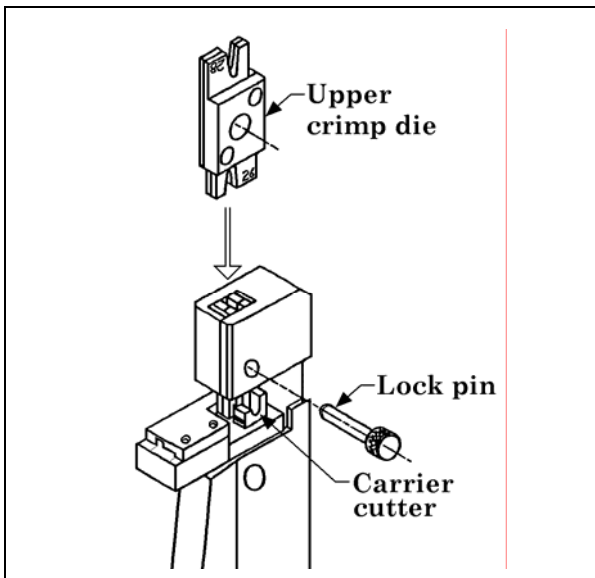
1. Ensure that the wire to be crimped is within the specified range of sizes for the contact and the crimp tool. Failure to use the specified wire size will result in poor quality crimps and possible tool damage.

Wire Gauge	Minimum pull-off force (Newtons)
30 AWG	5N
28 AWG	10N
26 AWG	20N

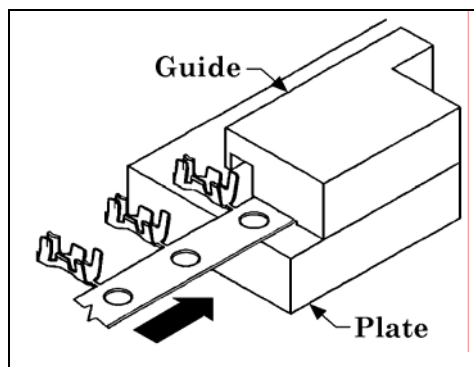
2. The wire insulation covering should be stripped back to 1.5mm. Care should be taken to avoid cutting or displacing the conductors. If the conductors are displaced, they may be re-aligned with a gentle twist.



3. Make certain that the hand crimp tool is in the fully open position, and that the jaws are free from dirt and debris.
4. The upper crimp die must be changed so that the correct die set is in place for the correct wire size. Pull out the lock-pin, and remove the upper crimp die.

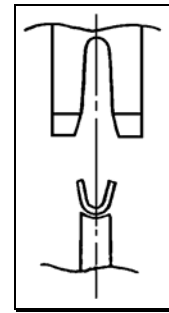
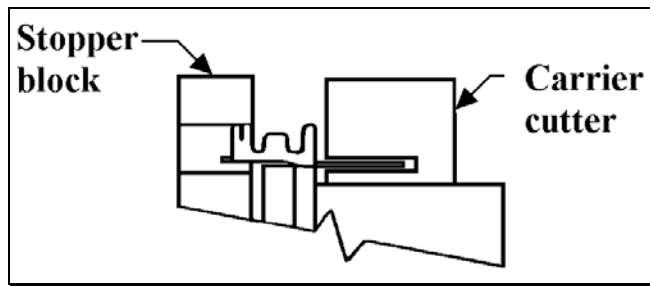


5. Exchange or turn the upper crimp die so that the correct jaws will be used for the wire size required. Replace the upper crimp die and lock-pin.
6. Insert the end of the strip of contacts between the guide and the plate (as shown below).

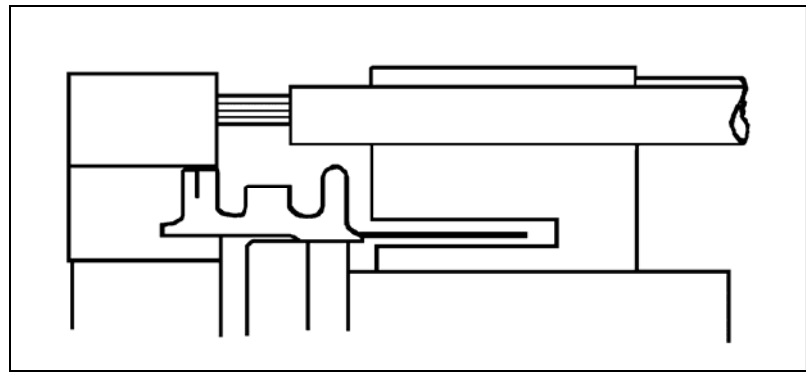
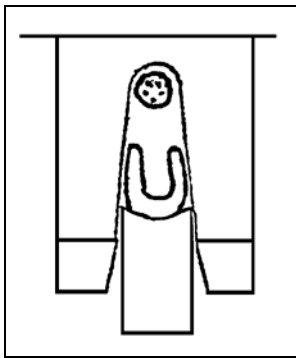


7. Push the contact until the contact touches the stopper-block. Check that the carrier of the contact goes into the groove of the carrier-cutter.

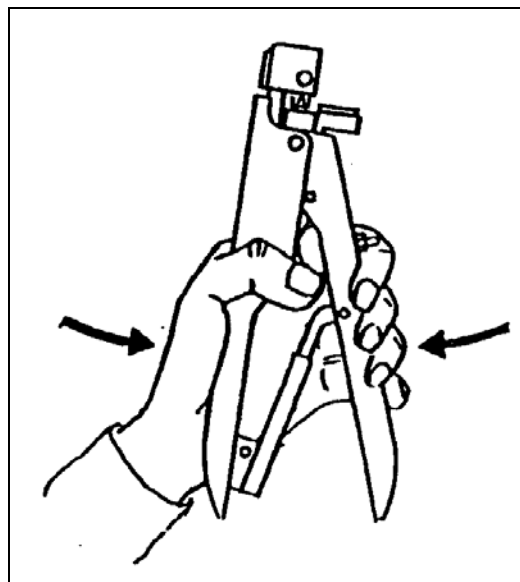
Do not push on the contact when the contact touches the stopper-block, because the contact will become distorted.



8. Compress the hand tool by one notch, then position the cable within the tool as shown below.



9. Hold the cable steady and fully compress the handle, to complete the crimping operation. Do not attempt to open the tool before fully compressing it, as this may damage both tool and crimp.



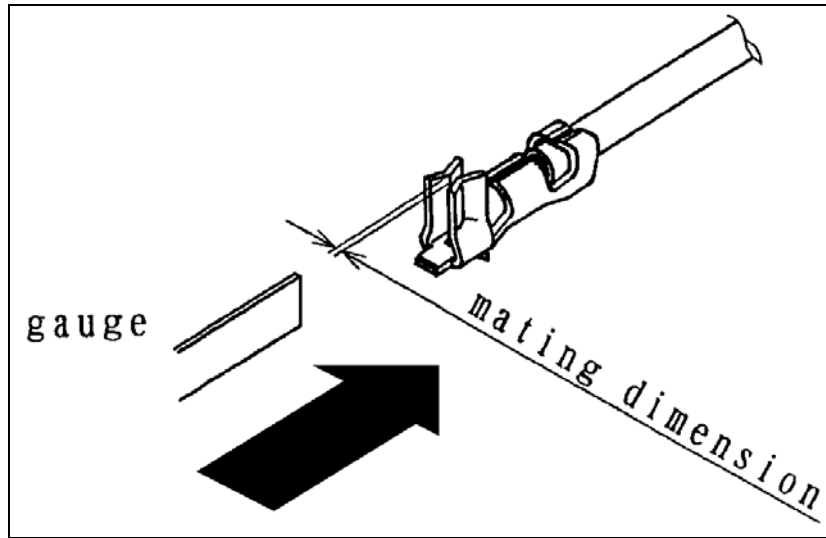
10. Release the tool, and the handle will open automatically. Remove the cable and the contact from the crimp tool. Also remove the piece of cut carrier from the tool, as this will jam the tool if left in position.
11. If the crimped contact cannot be easily removed, a further operation of the tool will loosen the contact.

INSPECTION

The contact's mating dimensions can be checked after crimping by gauge plates.

0.1mm thickness gauge should go through mating area.

0.2mm thickness gauge should not go through mating area.



TOOL CARE

We strongly recommend that you:

1. **DO NOT** open the handle when the handle is tightened halfway.
2. **DO NOT** crimp any contact and cable other than those recommended.
3. **DO NOT** drop the crimp tool or damage it in any way.
4. **DO NOT** use any other power for crimping except the hand.
5. **DO NOT** take the crimp tool apart.

TOOL MAINTENANCE

1. Keep the tool clean and free from dirt and foreign matter. Use a small brush to clean the crimped jaws before and after use.
2. At regular intervals, check the crimp tool jaws for wear or damage, and inspect sample crimps for form and function
3. Spray lubricating oil on moving areas if the crimp tool movement feels unnatural.
4. Store the crimp tool in a closed position, covered and in a dry location.