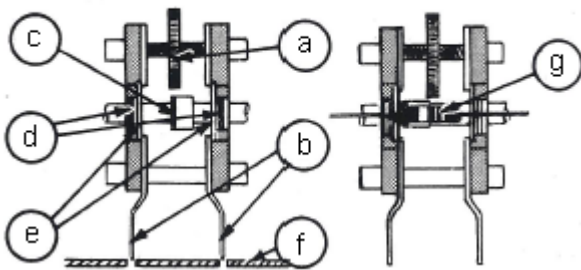


Instructions For Use

DURATOOL

TP8, TP9, TP12

TP 8**TP 9****TP 12****1****2**

The completely novel design of these tools (World patents pending) ensures scratch-free formation of component leads. The design incorporates replaceable forming pads made of a resilient material, placed beyond the forming blades.

Formation of a bend is performed by downward thrust of component leads against this resilient pad. Therefore metal to metal contact is completely avoided and component leads are formed against resilient medium.

These simple to use Hand Tools have been specially developed for precise bending of leads of Printed Circuit Board components, such as resistors, capacitors etc.

TP9 and TP12 have the additional feature of cropping the leads to the required length.

Method of Use

Sketch 1

The main feature of the bending mechanism are:

Thumb wheel (a) Pointers (b) Centralising finger (c) rollers (d) forming blades (e) and resilient pads (not shown in this drawing) These pads are below the rollers (d).

The adjustable pointers (b) are lined up with the holes in the printed circuit board (f) by means of the thumb wheel (a). This facility ensures fast and accurate setting which is faithfully reproduced onto the components.

DURATOOL

Instructions For Use

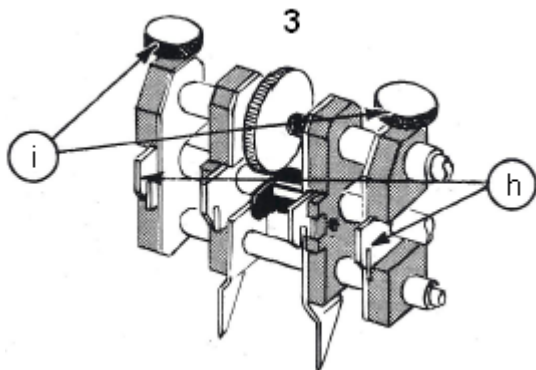
DURATOOL

TP8, TP9, TP12

Method of Use

Sketch 2

The centralising finger is set in the required position for the component body (g). The component is dropped into place with the body against the centralising finger and the leads through the forming blades. With light pressure on the tool handle the component is drawn down against the rollers and resilient pads to produce perfect 90° bends without scratching the leads.



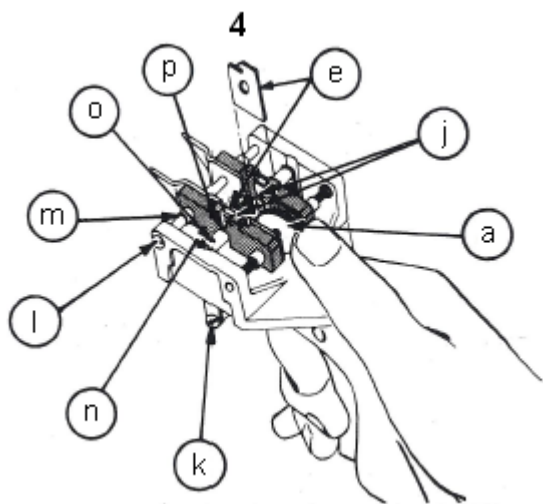
Sketch 3

The lead cutting to length function of TP9 and TP 12 is achieved with the cutting blades (h) which are easily set in the required position by the locking screws (i). When the cutters are set the operation is exactly as described with sketch 2.

Adjustment of Bending

We have incorporated in our design, the facility for adjustment of bend. The tools are set for 90° bend.

If under-bend from 90° is required turn pressure of adjusting screws (P) anti-clockwise. To correct formation of leads to 90° turn adjusting screws in clockwise direction.

**DURATOOL**

Instructions For Use



TP8, TP9, TP12

Replacement of Pads

This is easily achieved, and the following procedure should be undertaken:

- (1) Close handle of tool to "bending position"
- (2) Remove worn pads and re-fit new ones

To Replace Forming and Cutting Blades

The high quality construction and very carefully chosen materials will ensure a long and trouble-free life of these tools. However, should replacement of forming or cutting blades be required, adopt the following procedure.

- (1) Remove screws (k)
- (2) Remove screw (l)
- (3) Slide out support bar (m) and swing the whole mechanism upwards round thumb wheel (a)
- (4) Remove screws (n) from both sides
- (5) Take out the complete activating bar (o)
- (6) Replace the damaged forming or cutting blades

Reverse procedure for re-assembling

Part Number Table

Description	Part Number
Component Pre-Forming Tool, TP8	TP 8
Component Pre-Forming Tool, TP9	TP 9
Component Pre-Forming Tool, TP12	TP 12

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