

INSTRUCTION MANUAL

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1. INTRODUCTION AND TOOL FEATURES

1.1. Instruction sheet provides application and maintenance procedures for Probex hand tool with die sets. The hand tool consists of the die assembly and hand tool frame assembly. Die assembly can be purchased separately or with the hand tool.

- ❑ With this tool **only** plugs of **appropriate type** have to be used. Crimping plugs of unsuitable type may result with unsatisfactory characteristics of crimped connections and eventually with damaging of the tools and is to be strictly avoided.

1.2. FEATURES

- ❑ Each insert can crimp 4 crosssections
- ❑ Crimp nests are fully machined in high carbon steel, heat treated and nickel coated
- ❑ Quality crimp due to parallel crimping performance
- ❑ Precise eccentric adjustment
- ❑ Safety ratchet relief

2. CONFIGURATION OF THE TOOL

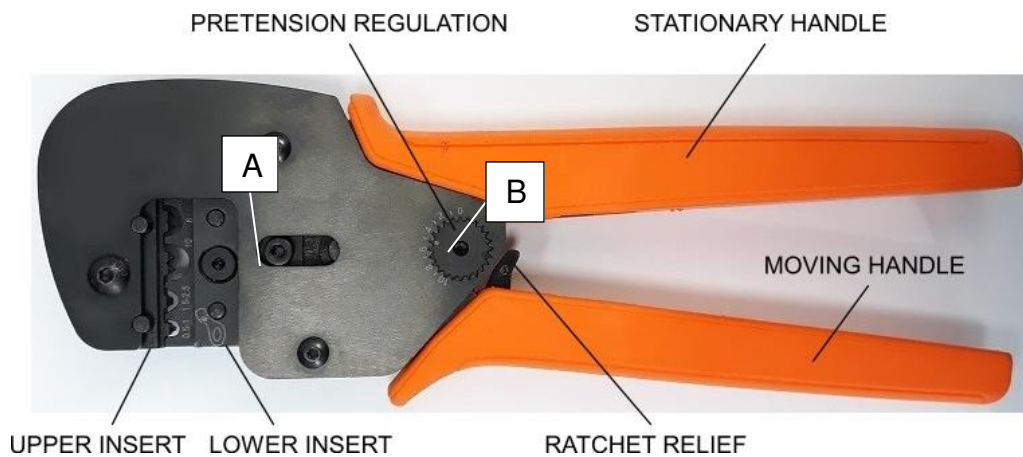


Fig. 1

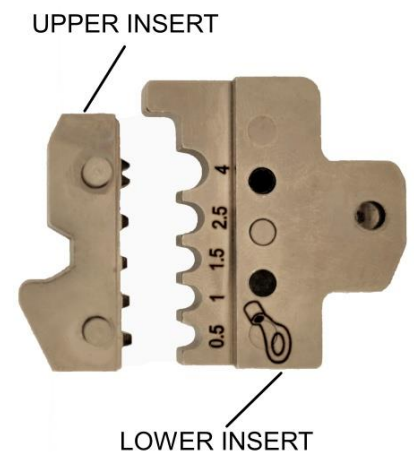


Fig. 2

3. DIE SET CHART

DIE SET	CONNECTOR TYPE	INSERT SIZE	MARKING DOT COLOR
PB1	UNINSULATED	0.5; 1; 1.5 2.5; 4	
PB2	UNINSULATED	6; 10; 16	
PB3	INSULATED	0.5-1 1.5-2.5 4-6	RED BLUE YELLOW
PB4	TAB	0.5-1 1.5-2.5 4-6	
PB5	END SLEEVE	0.25; 0.5 1; 1.5; 2.5 4; 6; 10; 16	
PB6	TURNUED	0.14-1 1.5; 2.5; 4	
PB7	TURNUED	6; 10	
PB8	COAXIAL	2.67; 3.25; 4.52	
PB9	FIBER	3.25; 3.80; 4.95	
PB10	FIBER	3.0; 4.95; 6.5	

4. STRIPPING OF WIRE OUTER INSULATION

Correct stripping length: Cable stripping dimension should be as specified by plug manufacturer. Sleeve should be free from any damage or broken strands. The center conductor and crimp sleeve measures must be within the manufacturer's specifications.

5. WORKING WITH DIE SET

ProBEX die set consist of upper and lower inserts. Inserts should be installed by following procedure:

- Before insert installation toolframe handle should be in open position.
- Lower insert has to be placed into toolframe and secured by lightly tightening M4 hex screw "A". (Fig.1)
- Upper insert can be placed into toolframe and secured by lightly tightening M5 round head screw "B". (Fig.1)
- Close the handles slowly until handles are fully closed
- While holding handles in closed position fully tighten screws holding upper and lower insert

6. CRIMPING PROCEDURE

Prepare plug and cable according to the instructions packaged with the plug. Ensure that appropriate contact is inserted into right crimping section. Follow instructions shown in Fig. 3 – Fig. 5

① In case the tool becomes block for any reason, please follow unblocking procedure described in section 7. After the full crimping cycle is done, let the tool open fully by itself in order to remove crimped plug. Pull out the plug assembly. The tool is ready for next crimping cycle.

1. INSERT CONNECTOR INTO CORRESPONDING CRIMPING NEST. WHILE HOLDING THE TOOL AT THE UPPER PART OF THE GRIPS CLOSE HANDLES UNTIL CONNECTOR IS HELD



Fig.3

2. INSERT THE CABLE



Fig.4

3. HOLD THE GRIPS AT THE LOWER END FOR HIGHER CRIMPING FORCE AND FULLY CLOSE THE HANDLES



Fig.5

7. UNBLOCKING THE TOOL

- ❑ **IMPORTANT: Apply working force on the tool handles while unblocking. It will prevent hurting yourself and possible damages on the tool.**
- ❑ In case of improper crimp, push the ratchet relief (Fig.9) in direction shown to unblock the tool and remove obstruction before continuing with the work.

8. TOOL REGULATION PROCEDURE

- ❑ After prolonged work period, tool crimping performance can change slightly due to final self-adjustment of the tools' components. This handtool is equipped with eccentric axle which allows periodical adjustment of crimping force and tool recalibration to maintain correct crimp performance.

1. Loosen knurled nut (C) by turning it counter clockwise (Fig.7)
2. Press the nut until toothed adjustment wheel (B) is lifted so it can be rotated freely (Fig.6)
3. Insert screwdriver into adjustment wheel groove and rotate it to achieve desired pretension.
4. Marking dot at "0" sets lowest pretension, while dot at "10" sets highest pretension
5. Once pretension is set push adjustment wheel back into its position and tighten knurled nut

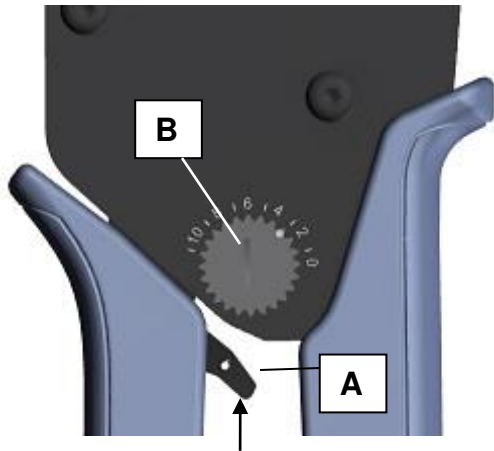


Fig.6



Fig.7

9. MAINTENANCE AND INSPECTION

- ❑ Crimping handtool ProBEX is intended to be used for crimping end sleeves, insulated and uninsulated terminals. Using this handtool for any other purpose, or for crimping of any other objects, can result in damaging the tool and the objects being crimped and prevention of its normal further functioning, for what manufacturer cannot be held responsible.
- ❑ Handtool is equipped with full cycle ratchet mechanism which with optimized leverage system within the tools makes working with these tools easy and simple. In case of improper crimp, ratchet release mechanism allows you to easily open the handtool and remove obstruction before work is continued. Check unblocking procedure (section 9.).
- ❑ Tool itself also incorporates possibility of periodical adjustment of the crimping force and tool recalibration via eccentric axle to maintain correct crimp performance. Check regulation procedure (section 10.)
- ❑ For removal of dust, moisture and other contaminants usage of clean brush or soft, lint-free cloth is recommended. Do not use aggressive agents (thinner, alcohol,...) or hard objects that could damage the tool.
- ❑ Make sure that during the work bearing surfaces, shafts and pivot points are protected with thin coat of quality machine or motor oil. Do not oil excessively.
- ❑ When the tool is not in use, store it in a closed position – with handles closed. That will keep other objects from becoming stuck between crimping dies and damaging them. Keep the tool in a dry and clean area.
- ❑ Use only original spare parts.

10. WARRANTY

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 exchange the tool free of charge. This 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.