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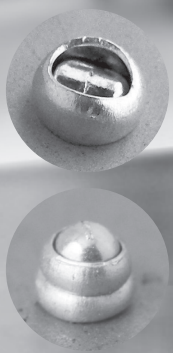
IT

OPERATION MANUAL

PNEUMATIC BLIND RIVETS SETTING TOOL

E-500RP

ESSENTIAL RANGE



ø3.2mm - ø5.0mm

ALUMINIUM - STEEL - STAINLESS STEEL

Scell-it®

GENERAL SAFETY INSTRUCTIONS AND PRINCIPLES

READ THIS MANUAL CAREFULLY BEFORE USING THE TOOL !

It is IMPORTANT to follow the safety instructions for adequate protection against injuries.

- This tool should be used exclusively to apply blind rivet prescribed as **TOOL CAPACITY**. It can't be used for other purposes, such as hammer, etc…
- This tool must be used with treated compressed air supply in a pressure range 0.5MPa-0.7MPa.
- The tool must be, during any kind of maintenance or repair, **DISCONNECTED** from the source of compressed air..
- **DO NOT** use the tool when you are tired or under the influence of drugs, alcohol or medication. One moment of inattention when working with the tool can result in serious injuries.
- **DO NOT** use the tool in the environment described as below:
  - fuel and combustion air.
  - temperature rapidly rising.
  - humidity, rain, water, storm and thundering.

  The tool is not designed for explosive environment.
- When the tool is suspended by the operation hook during use, be sure the tool will not fall.
- When using the tool, always carry safety shoes, protective goggles, protective gloves, safety helmet, ear protectors and other necessary protections. It is highly recommended for safety reason.
- Remove the setting tools or wrenches before switching on the pneumatic tool. A wrench connected to a rotating part of the tool can result in injuries.
- Do not allow persons who have not read these instructions or who are not familiar with the tool to use it.
- Keep children and other persons away when you are working with the tool. If distracted, you may lose control over the tool.
- Have your tool repaired only by qualified specialist personnel and only with original spare parts. If in doubt, always return the tool to the distributor.
- Any alterations of the tool, its accessories or spare parts remain in sole responsability of the customer.
- The tool must be kept in top condition and regularly tested for damage and proper operation. Check that moving parts function correctly and do not jam and that parts are not broken or damaged in such a way that the function of the tool is impaired. Have damaged parts repaired before using the tool.
- Never aim with the tool at another person.
- Oxygen or other flammable gasses from pressure cylinders must not serve as a driving agent.
- Avoid unnecessary contact with the hydraulic fluid to prevent possible allergy reaction of the skin.
- After the service life, discard the tool according to the applicable disposal.
- The pressure regulator has to be equipped with a filter to avoid impurities and water.

TOOL CAPACITY

blind rivets 3.0/3.2mm – 4.0mm – 4.8/5.0mm standard

TOOL SPECIFICATIONS

Air supply pressure:	0.5Mpa ~ 0.7Mpa
Output traction power:	10,300 N ~ 14,420 N
Stroke:	19 mm
Net weight:	1.42 kgs

GETTING START TO WORK

Please refer to the TOOL EXPLOSIVE ILLUSTRATION and the PARTS LIST in this manual in order to have a good understanding of the tool parts described. The descriptions of the tool parts appear in this manual are in *italics* with the parts position *numbers* corresponding to the tool explosive illustration.

1) This pneumatic powered tool should be worked with compressed air supply. It is recommended to use the air hose with diameter bigger than 8 mm;

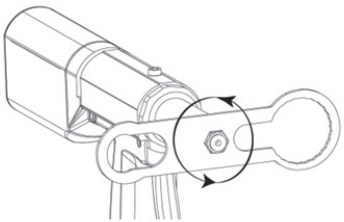
2) To check the compressed air pressure within the specified range between 0.5Mpa and 0.7Mpa, and to connect the air hose adaptor onto the tool *air adaptor (#53).* The air adaptor has its different versions in different countries and areas, normally the tools are equipped with the correct version as default, in case the air adaptor does not apply in your air supply hose adaptor, contact the tool distributor(s);

3) To change and use correct *nosepiece (#1)* according to the size of the rivet to be set. This tool is equipped with nosepieces 3.0/3.2mm, 4.0mm and 4.8/5.0mm (on the tool) in the tool kit. Follow the steps below to change the *nosepiece (#1)*:

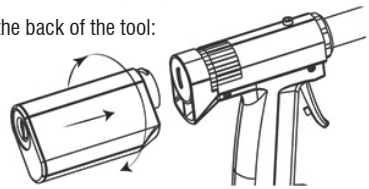
   a) To remove the air supply hose from *air adaptor (#53)*.

   b) To use the wrench (in accessories pack) to remove the *nosepiece (#1)* from the tool.

   c) To select the correct nosepiece in accessories pack and screw on to the tool, using the wrench to fix it firmly on the tool.



4) To install the *mandrel collector* (*#25*, in accessories pack) on the back of the tool:



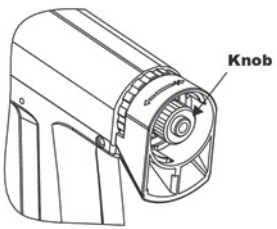
TOOL OPERATION FOR SETTING BLIND RIVETS

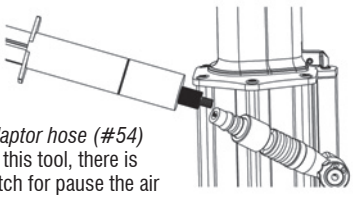
1) After start-up preparations, to put the rivet into the nosepiece with the rivet mandrel, and holding the tool to insert the rivet into the pre-drilled hole of the work pieces where the work pieces needs to be fastened;

2) To pull the tool *trigger (#49)* to set the blind rivet in its position on work piece;

3) After setting the rivet, the rest mandrel of the rivets will be sucked into the *mandrel collector (#25)* automatically. Be sure to empty the *mandrel collector (#25)* in time otherwise the tool can not release the mandrel properly.

4) The air power of sucking the rest mandrel can be adjusted bigger or smaller, by the knob on back of the tool visible when the mandrel collector removed:





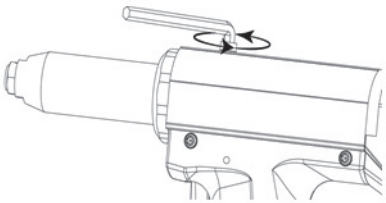
5) On the *air adaptor hose (#54)* equipped for this tool, there is a sliding switch for pause the air supply. To switch off for saving air.

TOOL MAINTENANCE

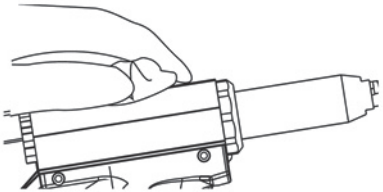
If there is no lubricating device connected in the air distribution, daily and before starting work, for better performance of the tool, add a few drops of hydraulic oil on the inlet of the *air adaptor (#53)* of the tool in order to reduce the frictions of the tool parts since the oil will be blown inside the tool when tool operates.

After certain period of use, the tool stroke might be reduced, it shows the hydraulic oil of the pneumatic tool is necessary to be refilled or changed:

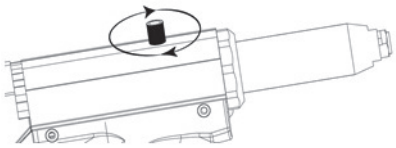
1) To remove the *screw (#11)* by hexagon wrench.



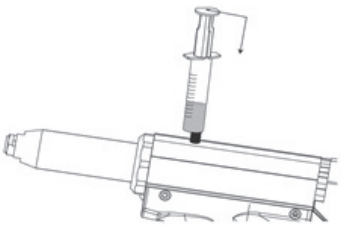
2) To connect the air supply and to cover some cloth over the hole where the *screw (#11)* removed, then to pull the *trigger (#49)* and the oil will be leaked out from the tool.



3) To screw the oil inject adaptor (on oil injector set in the accessories pack) into the hole where *screw (#11)* removed.

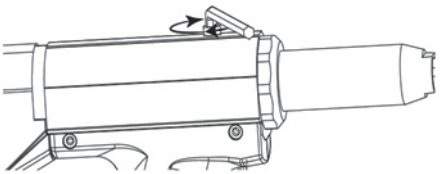


4) To use the oil injector (in the accessories pack) to inject the oil slowly until not able to refill (approx. 15ml), to remove the injector and its adaptor, then clean the oil on the tool and tightly screw on the *screw (#11)* back to the tool.



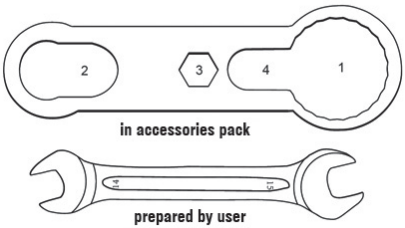
5) To test the tool stroke. If the stroke still not enough as it should be, it means there could be some air in the *oil cylinder (#13)* when you refilling the oil to the tool. Then the extra air needs to be released from the tool.

To connect the tool with air supply, to pull the tool *trigger (#49)* 6 or 7 times, then loosen the *screw (#11)*, let the extra air leaking out, then screw on the *screw (#11)* tight again.



After long time use of the tool, it could be possible that the metal chips from rivets setting remains in the nose assembly of the tool and the tool efficiency will be influenced, therefore it is recommended to have the nose assembly parts cleaned or the parts changed periodically.

1) To use the wrench (in accessories pack) and a spanner prepared by tool user:



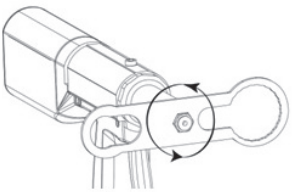
Wrench hole 1 for assembly *rear adjustor (#22)*;

Wrench hole 2 for clamping *sleeve (#3)*;

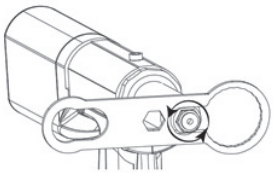
Wrench hole 3 for *nosepieces (#1)*;

Wrench hole 4 for front *sleeve (#2)*;

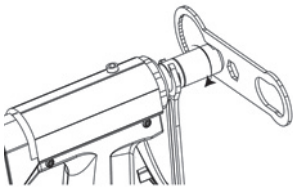
2) To disassemble *nosepiece (#1)* on the tool by wrench.



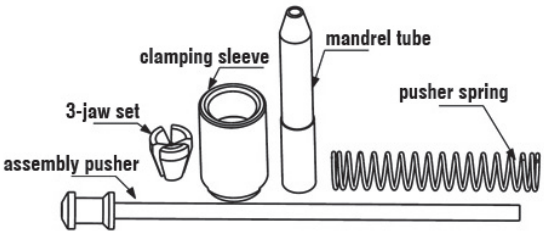
3) To disassemble *front sleeve (#2)*.



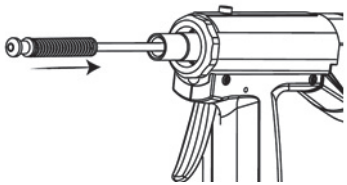
4) To disassemble *clamping sleeve (#3)*.



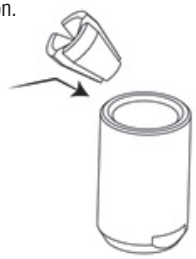
5) To take out the *3-jaw set (#4)* from the *clamping sleeve (#3*), and take out the *assembly pusher (#5)* and the *pusher spring (#6)* from the tool, and *mandrel tube (#20),* and clean them all. Meanwhile to check the parts, if any worn or damaged, to change the new parts.



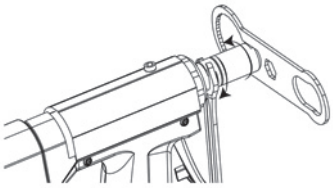
6) To re-assemble the cleaned parts or new parts back to the tool. To put the *pusher spring (#6)* onto the *assembly pusher (#5)*, and insert it back to the tool where assembly *oil cylinder (#13)* located.



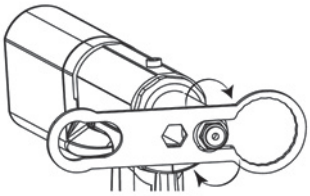
7) To put *3-jaw set (#4)* into the *clamping sleeve (#3)*, be sure the 3 jaws are seated in it correctly in the position.



8) To put the *clamping sleeve (#3)* with *3-jaw set (#4)* inside it onto the *assembly pusher (#5)* in their position, to be sure it is assembled firmly.



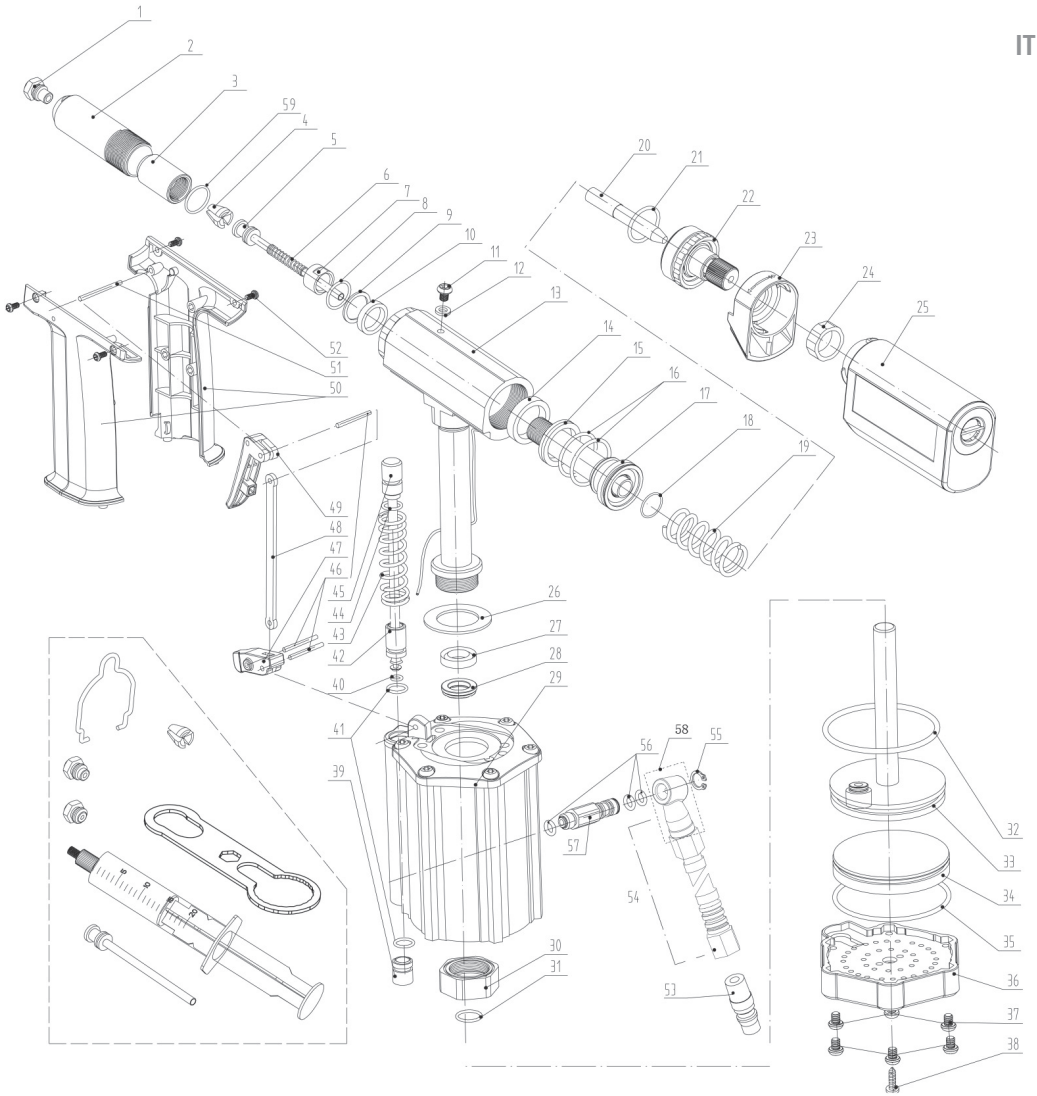
9) To assemble the *front sleeve (#2)* and *nosepiece (#1)* back to the tool.



TROUBLES SHOOTING

TROUBLES	POSSIBLE CAUSES	SOLUTIONS
Rivet mandrel does not break	• 3-jaw set worn off or damaged • Hydraulic oil in tool not sufficient • Air supply with low pressure	• Change 3-jaw set • Refill hydraulic oil • Increase air supply pressure within the specification range
Jaws slippery on rivet mandrel	• 3-jaw set worn off • Metal chips between jaws • Pusher spring fatigued	• Change 3-jaw set • Clean the jaws • Change pusher spring
Rivet mandrel can not be put into nosepiece	• Nosepiece size chosen not correct • Jaws get stuck by rest mandrel not released	• Change correct size of nosepiece • Take out the remained rest mandrel by disassembling front sleeve and clamping sleeve
Rest mandrel can not be sucked into mandrel collector properly	• Mandrel release sucking power not sufficient • Air supply with low pressure	• Increase the mandrel sucking power, ref. TOOL OPERATION section 4 • Increase air supply pressure within the specification range.

TOOL EXPLOSIVE ILLUSTRATION



WARRANTY CONDITIONS

During the warranty period, the customer must not perform any alterations other than those permitted by the manufacturer (maintenance). The repairs must be done by an authorized service center.

To admit warranty repair, the customer must return the defective tool to the service center of the manufacturer with the proof of purchase. Warranty is valid only if the tool is in its warranty period (12 months from the date of purchase confirmed by the proof of purchase) and if the conditions of use have been respected.

Warranty is not valid if worn spare parts have to be replaced (further to a normal use of the tool).

EC CERTIFICATE OF CONFORMITY – EC DIRECTIVE 2006/42/EC ANNEX II 1A

The manufacturer :

SCELL-IT
28 RUE PAUL DUBRULE
59810 LESQUIN
FRANCE
Tél.: +33(0) 320 329 818

Declares hereby that the following product :

Manual pneumatic hydraulic blind rivet setting tool type E-500RP

Complies with the following relevant conditions :

EC Machinery Directive 2006/42/EC Annex I

If the machine is modified without our knowledge and consent, this EC Declaration of conformity will be voided

Most important applied harmonized standards :

EN ISO12100:2010 + EN ISO11148-1:2011

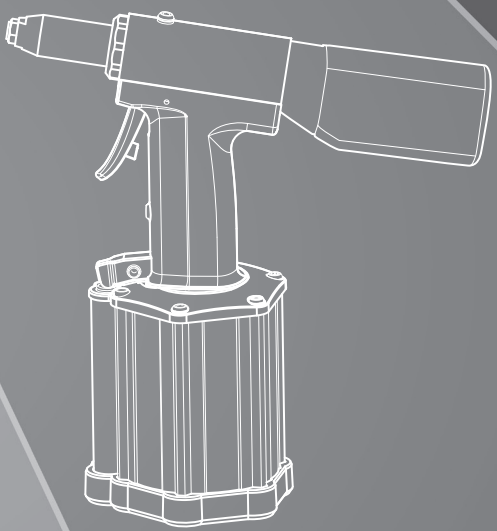
Name of documentation officer : Nadia FAYTRE

Address of documentation officer : see address of manufacturer

Lesquin, 30/07/2019

Franck DEBRUYNE

(Directeur général)



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