INSTRUCTION MANUAL

BÖLLHOFF

Rivet Nut USA P4107
(Bollhoff NEO P107)

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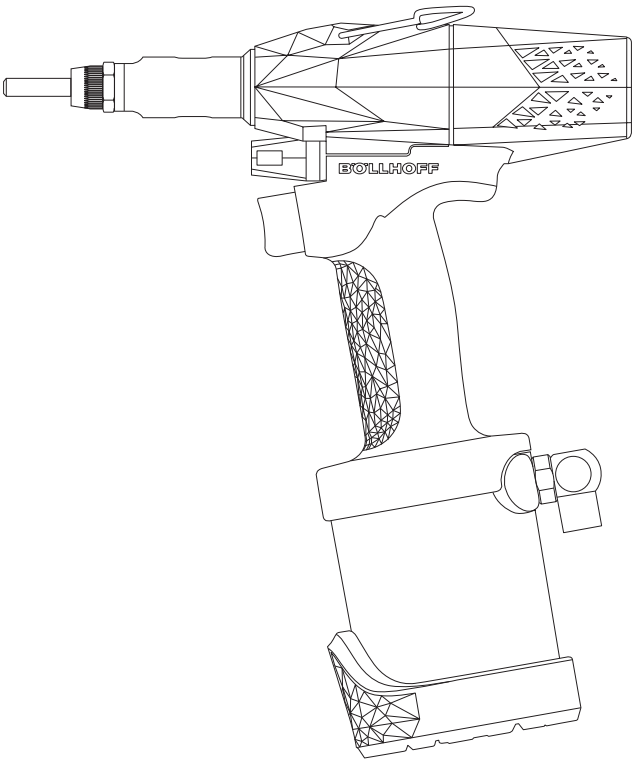
1. Validity of the instruction manual

This instruction manual is valid for the setting tool described hereafter, which is operated manually in a portable manner:



RIVKLE® NEO P4107 setting tool

1-1 Delivery contents

The provision includes the following components:

- Packaging: plastic case or cardboard box
- Setting tool: RIVKLE® NEO P107
- Oil filling bottle containing 40 ml VG 68 mineral oil*
- 4 mm hexagonal key for adjusting the force valve*
- 19 / 21 mm spanner for removing the nose and anvil locknut*
- Quickstart guide
- Instruction manual

*Articles not included in the cardboard box packaging.

2. Symbols used in the instruction manual

The parts of this manual that are particularly important are highlighted by the warning terms and symbols explained below.

2-1 Warning terms

⚠ DANGER

Indicates a potential risk which, if not prevented, will cause death or serious injury.

⚠ WARNING

Indicates a potential risk which, if not prevented, may cause death or serious injury.

⚠ ATTENTION

Indicates a potential risk which, if not prevented, may cause mild to moderate injuries.

2-2 Symbols indicating a danger

Crushing
This symbol indicates that, when handling the system, there are potentially fatal health & safety risks of crushing.

Cut risk
This symbol indicates that, when handling the system, there are potentially fatal health & safety risks of cuts.

2-3 Symbols for personal protection equipment

Use hand protection
Activities featuring this symbol require hand protection to be worn.

Use eye protection
Activities featuring this symbol require eye protection to be worn.

Use hearing protection
Activities featuring this symbol require hearing protection to be worn.

Wear protective clothing
Activities featuring this symbol require protective clothing to be worn.

Wear safety boots
Activities featuring this symbol require safety boots to be worn (mandatory).

2-4 Information symbols

Information
Indications preceded by this symbol will help you carry out your tasks quickly and safely.

Refer to the instruction manual
Indications preceded by this symbol invite you to refer to the instruction manual.

2-5 Names, images, indices

The RIVKLE® NEO P107 setting tool is referred to hereinafter as the "tool".

The images allow for a better understanding of situations and sequences. Representations my slightly deviate from the actual appearance of your system.

(1) The encircled figures provided in the text are indices which refer to the figure on the same page.

3. Use and operation

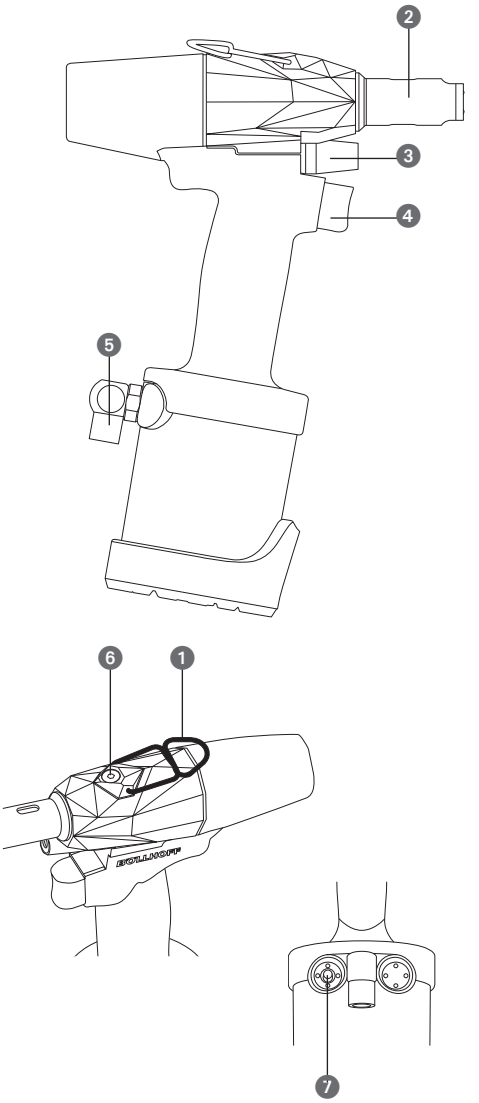
3-1 Intended use

- Do not use this tool for applications other than setting blind rivet nuts & studs. It is strongly recommended that you use Böllhoff RIVKLE® blind rivet nuts & studs.
- Only use the fasteners, spare parts, accessories and consumables recommended by Böllhoff.
- The tool is not designed for use in explosive environments.
- The tool must be operated in compliance with its capacities and technical limits.
- This tool must be used in compliance with the labour regulations of the user country, and in compliance with the principles defined by the International Labour Organisation (United Nations).
- For correct functioning, check that the air inlets and outlets are clean and properly connected before use. The use of a filter/regulator/lubricator on the installation is required to guarantee the proper functioning of the tool. Never pull or hold the tool by its pneumatic hose.
- Any structural modification, transformation or an arbitrary addition to the tool is strictly prohibited.
- Any other use is deemed to be non-compliant and may be dangerous. It's also imperative to follow the instructions indicated in this instruction manual.
- Böllhoff does not accept any liability in the event of damages resulting from non-compliant use of the tool.

3-2 Structure of the tool

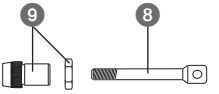
The main components of the tool are:

- Suspension hook 1
  We recommend the 2-3 kg cable balancer - Reference: 28259010820
- Nose 2
- Force adjustment valve 3
- Cycle start trigger 4
- Compressed air inlet connection 5
  Use a separator device for the compressed air supply (quick connection, valve, etc.)
- Bleed screw 6
- Manual unscrewing activation button 7



Not included in this delivery:

- Mandrel 8
- Anvil and its locknut 9



3-3 Operation

⚠ DANGER

Risk of crushing and cutting!
Check that the tool has been disconnected from the compressed air supply. An untimely triggering of the setting or screwing cycle (Push-Pull system) may cause injuries.

⚠ WARNING

Injury risk!
Working with the tool entails potential risks. Always wear safety goggles, protective gloves, close-fitting work clothes, and safety boots.

Aim and utility of the tool:

The RIVKLE® NEO P107 tool is intended for setting RIVKLE® blind rivet nuts & studs into pre-drilled materials.
It is intended for all types of industries and applications in which the creation of a thread in a thin sheet is required. This tool has force setting technology which guarantees the setting and increases repeatability. It has a tool-free replacement system for mandrels and allows for simple use without the need for specific skills.

Advantages

- Consistent setting force even for materials with varying thicknesses
- Does not damage the RIVKLE® in the event of double setting
- Allows for quality control
  (Optional RIVKLE® FC340 force indicator)
- Optimises the life span of the mandrel

Principle of force setting:

⚠ ATTENTION

The adjustment of the force valve is an operation that must be carried out by qualified and trained personel. Inappropriate adjustments risks downgrading the mechanical performances of the Blind rivet nut after setting, or may damage the tool and potentially the application.

Unlike the principle of Stroke setting, in which the movement distance of the mandrel (stroke) is manually adjusted using a mechanical stop, force setting requires the adjustment of the setting force (F) of the tool in line with the technical characteristics of the blind rivet nut.

The setting force is indicated in the RIVKLE® catalogues, don't hesitate to contact your local Böllhoff representative for any questions regarding the setting force to be applied to products from the RIVKLE® range.

When the previouisly adjusted force has been reached, the tool stops crimping automatically and moves onto the unscrewing phase.

The setting force generated by the RIVKLE® NEO P107 machine ranges from 3 to 18 kN.

Implementing a blind rivet nut with the RIVKLE® NEO P107 tool:

A - Please refer to the Böllhoff blind rivet nut catalogue or contact an official Böllhoff representative to determine the setting force required to set your blind rivet nut.
B - Adjust the setting force on the RIVKLE® NEO P107 tool adjustment valve (Chap. 3-4).
C - Set your blind rivet nut, the RIVKLE® NEO P107 tool applies the setting force previously set.

3-4 Technical specifications

Key technical specifications of the tool

Setting force Min. - Max. at 6 bar	3,0 kN - 18,0 kN
Max. stroke	7,0 mm
Service pressure	5,5 to 6,5 bars
Weight without tooling	2,0 kg
Air consumption	500 liters/minute
Use ambient temperature	0°C +40°C

Storage ambient temperature	– 20°C +70°C
Storage relative humidity	5% to 80%
Minimum air flow at the tool's pneumatic connector	500 liters/minute
Article reference	23617201000

Declared dual number noise emission values (In compliance with ISO 4871) from the actual sound level

Tested portable tool

Manufacturer: Bollhoff Otalu S.A.S
Model No.: NEO P107
Type: Hydro-pneumatic setting tool for blind rivet nut
Serial No.: From AN00001 => AN99999
Year of manufacture: From 2022

Operation conditions in regard to ISO 15744	"In air"
A-weighted acoustic power level, L_{WA}: Uncertainty, K_{WA}:	83 dB (Reference 1 pW) Negligible
A-weighted acoustic emission pressure level at workstation, L_{PA}: Uncertainty, K_{PA}:	72.2 dB (Reference 20 µPa) 3 dB
Acoustic emission pressure level of C-weighted peak, L_{PC}, peak: K_{PC}, uncertainty, peak :	105 dB (Reference 20 µPa) 3 dB

Note 1 : Values determined in compliance with the acoustic testing code ISO 15744, using ISO 3744 and ISO 11203 as baseline standards.

Note 2 : The total of a sound emission value measured and its associated uncertainty represents an upper limit for the value range that can be reached during measurements.

Vibration emission values, declaration in absence of a specific vibration testing code

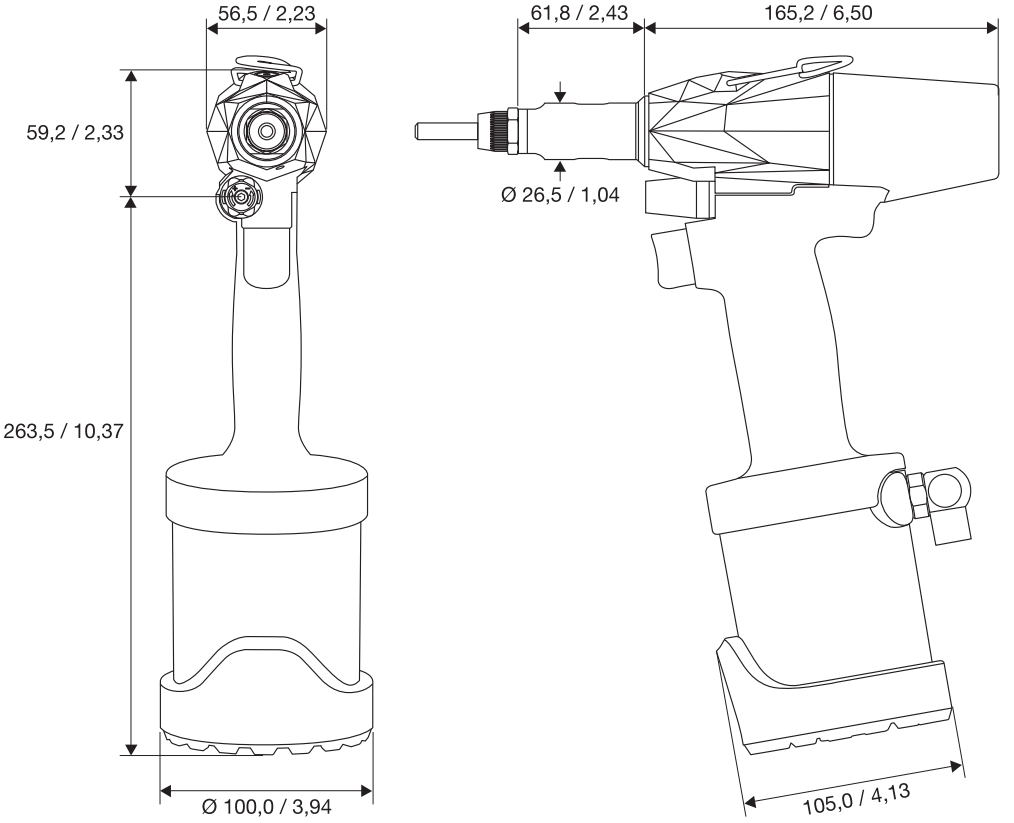
Hydro-pneumatic setting machine for blind rivet nut RIVKLE® NEO P107 type, setting force of 18kN

Vibration emission value declared compliant with EN 12096

Measured value for vibration emission, *a*	0,016 m/s²
Uncertainty, *K*	0,008 m/s²

Specifications of the operating procedure used : "In air" setting of an M8 Steel blind rivet nut

Tool dimensions (mm/inch)



Setting capacity of the tool

	M3	M4	M5	M6	M8
Aluminium	–	■	■	■	■
Steel	■	■	■	■	■
Stainless steel	■	■	■	■	–

4. Safety guidelines

4-1 Working conditions

The user manual must always be kept on the tool's site of use and must be easily accessible for operators.

Staff tasked with operating the setting system must have read and understood the instruction manual, the illustrations and the specifications provided with this tool and in particular the chapter "Safety guidelines", before starting any work with the machine.

Failing to follow the instructions listed below may cause material damage and/or bodily injury.

⚠ WARNING

Injury risk!
Working with the machine entails potential risks. Always wear safety goggles, protective gloves, hearing protection and close-fitting work clothes.

Spare parts must meet the technical requirements set by Böllhoff. This is still the case when original spare parts are used.

You should follow the inspection frequency indicated in the user manual.

Keep the working area and the tool clean, and ensure the area is sufficiently lit. Move away from messy areas, dark areas, electrical cables, gas channels, explosive atmosphere zones, and any other phenomenon or machinery which may damage the tool or which may cause safety accidents. Any limitation in the freedom of movement of the staff operating the tool may result in malfunctions and accidents.

The tool must be protected from external influences that may cause corrosion, attack and/or damage the components in any way and thus disturb their functioning and alter their resistance.

Keep children and others away from the tool when it is in use. Distraction may result in the user losing control of the tool

4-2 Personel qualification

Only trained, qualified and experienced operators, who have read and understood the user manual and the risks undertaken, may install, adjust or use this tool. The operator must stay vigilant and be physically capable of handling, using and transporting the tool, whilst also complying with the basic safety principles.

The operator must clearly define the responsibilities of each individual in terms of use, adjustment, maintenance and repairs.

Interns or individuals in training are not authorised to work on the tool without the permanent supervision of an experienced individual. Keep this tool out of the reach of individuals who are not familiar with it or with its operating instructions. Tools can be dangerous in the hands of novice users.

The various tasks to be carried out with the machine require a variety of qualifications, which are listed in the table below. The various qualifications are characterised by the following skills and knowledge:

- Operators must be able to fit the tool or modify its fittings as well as operate the machine. They must identify any damage to the tool and the hazards associated with it.
- Adjustment technicians, besides the capacities specific to operators, must be able to adjust the setting force, the anvil and the push-pull system. They must also be able to check the setting force and the pulling stroke at regular intervals.

Read the table on page 11 in the following way, e.g.:
"*The assembly of the mandrel requires operator qualifications.* "
"*The resolution of defects, repairs and maintenance work must be carried out by a product maintenance technician certified by Böllhoff.* »

	Operator	Regulator	Böllhoff Maintenance Technician
Use	■	■	■
Cleaning	■	■	■
Assembly/replacement of the mandrel	■	■	■
Assembly/replacement of the anvil		■	■
Force adjustment		■	■
Force/Pulling stroke check		■	■
Push-Pull system adjustment		■	■
Fault resolution according to Chapter 7-2 - Pages 53, 54, 55		■	■
Fault resolution, repair and maintenance			■

4-3 General safety guidelines for hydro-pneumatic tools

⚠ WARNING

Read all of the safety warnings, instructions, illustrations and technical specifications provided with this hydro-pneumatic tool. Any breach of the following guidelines may cause serious injuries. Keep all safety guidelines and instructions for future reference.

The term "hydro-pneumatic tool" used in the safety guidelines refers to tools driven by compressed air but which have a hydraulic traction force. Tools may be dangerous in the hands of novice users who are not familiar with them or who have not read their operating instructions.

Individual safety

- **Take care and pay attention to what you are doing. Work as carefully as possible with a hydro-pneumatic tool. Do not use the hydro-pneumatic tool if you are tired or under the influence of drugs, alcohol or medication.** A moment of distraction during use of the machine may cause serious injuries.
- **Wear personal protection equipment and always wear safety goggles.** Injury risks can be reduced by wearing personal protection equipment such as dust masks, non-slip safety boots, helmets or heating protection, depending on the type and implementation of the hydro-pneumatic tool.
- **Avoid any false triggering. Make sure that the hydro-pneumatic tool's cycle start trigger, "push-pull" screwing system or manual unscrewing system have not been activated before connecting it to the compressed air supply, picking it up or carrying it.** An accident risks occurring if the cycle start trigger, the push-pull screwing system or the manual unscrewing system of the hydro-pneumatic tool are activated while you're carrying it, if it's connected to the compressed air supply.
- **Avoid any abnormal posture. Make sure that your position is stable and that you keep your balance at all times.** This allows you to have better control of the hydro-pneumatic tool in the event of an unexpected situation.
- **Wear appropriate clothing. Do not wear loose clothing or jewellery. Keep your hair and clothing out of the way of moving parts.** Loose clothing, jewellery or long hair may get caught in moving parts.
- **Do not fall into a false sense of security and continue to remain actively aware of the safety rules, even if repeated use means that you are familiar with the hydro-pneumatic tool.** It only takes a second for any negligence in handling to cause serious injury.

⚠ DANGER

Please note that, if a part, accessory or the tool itself breaks, this may cause high-speed projectiles or sudden shocks on the tool's handle.

Preliminary checks

Before using the tool, carry out all of the necessary checks, as defined in this user manual.

- **Check:**
  - Misalignment or entrapment of moving parts.
  - Broken or damaged parts, visible signs of impact or cracks.
  - Abnormal action or parts which move apart/ together.
  - An oil leak or oil traces.
- **Make sure that the various parts and protective elements of the tool are solidly attached.** In the event of an issue, stop using the tool and have it repaired by a Böllhoff-certified maintenance technician.
- **Check the oil level and for any wear on the mandrel at the frequency defined** in the maintenance section, An insufficient oil level may affect the quality of the setting and may damage the tool
- **Do not use the tool if the trigger, manual unscrewing button or screwing system (push-pull) are blocked or not working properly.** Any tool that cannot be properly checked may be dangerous and must be repaired by a workshop that has been qualified by Böllhoff.
- **Remove any allen keys or spanners before use.**
- **If the tool is fixed by its suspension hook, make sure that it is hanging securely.**

Instructions for use

- **The tool must not be used in the direction of another person.**
- **Make sure that there are no objects that may become trapped in the tool's mechanism.** Immediately stop using the tool if an object accidentally becomes trapped or if the tool is blocked. Disconnect the air pipe, identify the source of the issue and carefully remove it.
- **Do not use the tool if the nose or protective elements have been removed.**
- **Stop using the tool if you experience any discomfort, pain, foggy vision or spinal inflammation which is recurrent or persistent.** Inform the employer and consult an occupational health professional.
- **Keep the handle, the nose and the surface of the tool clean, dry and free from oil or grease.** Do not expose the tool to rain, liquid splashes or dust. In unexpected situations, the handles and slippery grip surfaces make it impossible to handle and control the tool in total safety.
- **Keep fingers and hands away from the mandrel and the pinch zone of the RIVKLE®.** If the RIVKLE® is added to the mandrel manually, fingers must be placed at the end of the RIVKLE® barrel. They must not touch the head of the RIVKLE® to avoid pinching.
- **Do not force the tool or mishandle it by letting it fall, using it as a hammer or applying abnormal push or pull forces to it.** Correct use of the tool enables you to work more efficiently and more safely at the cadence and use for which it was designed.

Maintenance and repair

- Given its nature, a hydro-pneumatic tool may cause serious injury in the event of maintenance that does not comply with trade practices. In any case, never open up your Böllhoff tool, as the product may be pressurised, even if it's disconnected from the compressed air supply. If the tool needs to be opened up, please return it to a Böllhoff repair centre, as only Böllhoff staff have the experience required to open up a pressurised tool.
- Have the tool repaired in a Böllhoff-certified repair centre which only uses original spare parts. This guarantees that the tool is maintained in a safe condition.
- Disconnect the tool from the compressed air supply before replacing the mandrel, changing accessories, adjusting the anvil, carrying out maintenance work, or assembling/removing the nose.
- You must not, under any circumstances, modify the tool. Modifications that have not been provided for may reduce the efficacy of the safety systems and increase risks to the operator.
- The tool must be kept in good, operational and safe condition at all times. It should regularly be examined by a qualified member of staff in order to detect any damage or operating anomalies. Maintenance must be carried out at the frequency defined in this user manual. A full safety check of the tool must be carried out at least every 250,000 cycles or every 2 years, whichever comes first. Do not dismantle this tool by yourself, have it repaired in a repair centre certified by BÖLLHOFF. Several accidents are caused by insufficient tool maintenance.
- Only use the lubricants and oils recommended in this user manual.

Pneumatic supply

- **Do not exceed the maximum pneumatic pressure indicated on the tool: 6.5 bar - 94 psi.**
- **The pressurised air may cause serious injury:**
  - Always disconnect the tool from the compressed air supply when it is not in use or during adjustment and accessory change operations.
  - Never direct their air flow towards yourself or someone else.
  - Always check that the connection pipes are properly secured and in good condition.
  - Keep hands and arms away from the air outlet holes.
  - Never move the tool by holding it by its pneumatic supply hose.
- **For proper functioning, check that the air inlet and outlet are clean and correctly connected before use.** The use and a filter/ regulator/lubricator on the installation is required to guarantee the proper functioning of the tool, in compliance with the guarantee conditions.
- **Do not obstruct or cover the air outlets.**

4-4 Risks associated with using the tool

The tool must only be used:

- Within the context of the use for which it has been designed,
- in perfect operational condition,
- fully informed of the safety recommendations and risks entailed.

Do not use the tool if you notice any malfunction which compromise safety.

⚠ DANGER

Risk of part projection!

If a part, accessory or the tool itself breaks, this may cause high-speed projectiles or sudden shocks on the tool handle. Carry out all necessary verifications defined in this user manual before using the tool.
Check:

- Misalignment or entrapment of moving parts.
- Broken or damaged parts, visible signs of impact or cracks.
- Abnormal action or parts which move apart/together.
- Oil leak, marks, sweating.

⚠ DANGER

Risk of pressurised oil projection!

Never use the tool at a service pressure above 6,5 bar (94 psi). Using the tool at a service pressure in excess of 7 bar (101 psi) may cause structural parts to rupture, generating high-speed projectiles or pressurised oil splashes.

⚠ DANGER

Crush risk!

Never remove the nose when the tool is connected to the compressed air supply. Maintenance or r eplacement operations for the mandrel and anvil adjustment operations must be done when the tool is disconnected from the compressed air supply (with the exception of the "Adjusting the screwing trigger (Push-Pull system)" operation, described in Paragraph 8.5).

During the screwing operations (push-pull system), screwing the RIVKLE® onto the mandrel, the RIVKLE® must be held at its end by the fingertips. Do not put your fingers between the head of the RIVKLE® and the anvil. It is imperative that you wear appropriate gloves.

⚠ DANGER

Cut risk!

Never activate the Push-Pull screwing system without a RIVKLE® assembled on the mandrel with your fingers or your hands, even if wearing gloves. Be careful at all times not to inadvertently activate the Push-Pull screwing system.

⚠ WARNING

Drop risk!

Connection elements not tided away or incorrect posture pose a tripping risk.

- Make sure that the environment in which the tool is used is kept clean and tidy.
- Make sure that you are stable and well-balanced when using the tool.
- Be prepared to counter the weight of any movements of the tool or of the part you are going to set the RIVKLE® into.

⚠ DANGER

Injury risk !

Fatigue or excessive efforts caused by repetitive movements in poor posture may result in injury.

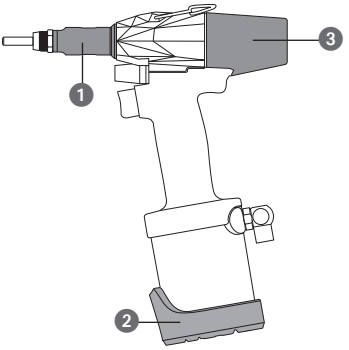
- Make sure you maintain a comfortable and stable position when using the tool.
- Make sure you change positions when working for prolonged periods.

4-5 Protective elements

The protective elements serve to ensure the safety of the personel working with the tool and to preserve their health; they also act to protect the tool from any potential damage. If you notice that any protective elements are damaged,
do not use the tool.

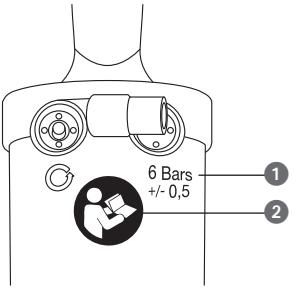
The tool is fitted with the following protective elements:

- Nose 1
- Rubber base 2
- Motor protective housing 3



4-6 Safety signs on the tool.

1. This value indicates the service pressure to be respected. Unit: Bar
2. This symbol indicates that you need to read and follow the instruction manual.



5. Preparation for commissioning

5-1 Safety guidelines regarding preparation for commissioning

⚠ DANGER

Risk of crushing and cutting!
Check that the tool has been disconnected from the compressed air supply. An untimely triggering of the setting or screwing cycle (Push-Pull system) may cause injuries.

⚠ WARNING

Injury risk !
Working with the machine entails potential risks. Always wear safety goggles, protective gloves, hearing protection, close-fitting work clothes, and safety boots.

⚠ DANGER

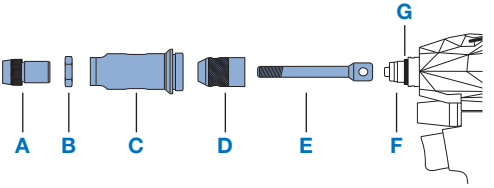
Risk of part projection!
Risk of pressurised oil projection!
Using the tool at a pressure in excess of 6.5 bar (94 psi) is formally prohibited and may entail serious injury.

PLEASE NOTE

When the blind rivet nut is screwed too often offset, or if the thread of the mandrel or the standard screw (E or E2) is very worn, it is recommended that you replace it. As the mandrel and the standard screw (E or E2) are the main wear parts, it is recommended that you implement frequent replacements. Greasing the mandrel or the standard screw (E or E2) prolongs its life span, as well as extending that of the anvil, and also reduces the noise generated by the tool.

5-2 Assembly of the mandrel >>> Quickstart fig. 1

Böllhoff mandrel (Not included with the tool)



Disconnect the compressed air tool

1- Grease the mandrel (E) along its conical shape and over all of its smooth part, do not apply grease to the thread. (Böllhoff recommends using MoS2 grease).
2- Insert the mandrel (E) into the traction bush (D).
3- Screw the traction bush (D) + mandrel (E) assembly onto the piston of the tool (F), tighten by hand until it comes to a stop. Take care to make sure that you cover the O-ring of the Push-Pull adjustment bush (G).
4- Screw the nose (C) onto the body of the tool using a 21 mm spanner, applying a 10 Nm torque. Screw the anvil (A) + locknut (B) assembly onto the nose (C).

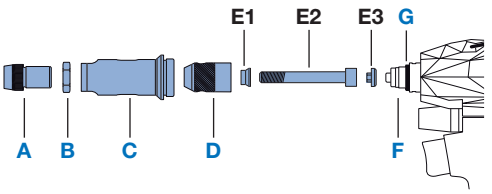
Connect the tool to the compressed air, and the drive shaft will pair up with the mandrel (E) automatically.

	Blind rivet nut		M3	M4	M5	M6	M8
E	Mandrel		23611303020	23611304020	23611305020	23611306020	23611308020
A+B	Anvil + locknut		23611303030	23611304030	23611305030	23611306030	23611308030

Other mandrels are available (imperial pitch, left hand pitch, special metric pitches, etc.).
Please consult a Böllhoff representative for further information.

	Blind rivet stud						
E*	Mandrel		–	37611304020	37611305020	37611306020	37611308020
A+B	Anvil + locknut		–	37611304030	37611305030	37611306030	37611308030

Standard CHC screw (Not included with the tool)



Disconnect the compressed air tool

1- Greasing the standard screw (E2) along its smooth part up to the underside of the head, do not apply grease to the thread (Böllhoff recommends using MOS2 grease).
2- Assemble the adapter (E1) onto the standard screw (E2), and the widest side of the adapter must be placed underneath the screw head. Grease the external surface of the adapter.
3- Grease the hexagonal end piece of the hexagonal drive shaft (E3) and apply it up over the head of the standard screw (E2).
4- Insert the standard screw (E2) + adapter (E1) + hexagonal drive shaft (E3) into the traction bush (D), check that the elements are securely in place.
5- While holding the elements securely in place, tighten by hand on the tool's piston (F) until it reaches a stop. Take care to make sure that you cover the O-ring of the Push-Pull adjustment bush (G).
6- Screw the nose (C) onto the body of the tool using a 21 mm spanner, applying a 10 Nm torque. Screw the anvil (A) + locknut (B) assembly onto the nose (C).

Connect the tool to the compressed air, and the drive shaft will pair up with the standard screw (E2) automatically.

Blind rivet nut	M3	M4	M5	M6	M8
FULL CHC KIT	23650000001	23650000002	23650000003	23650000004	23650000005

Spare parts for the CHC Kit

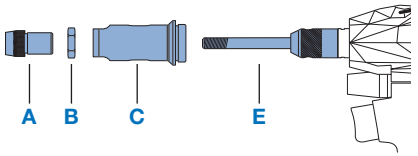
			M3	M4	M5	M6	M8
E1	Adapter		23659900009	23659900008	23659900007	23659900006	23659900005
E2	Set of 10 standard CHC screws*		M3x60MM 23680303020	M4x60MM 23680304020	M5x65MM 23680305020	M6x65MM 23680306020	M8x70MM 23680308020
E3	Hexagonal drive shaft		23659900013	23659900012	23659900011	23659900010	23659900002

* ISO 4762 DIN 912

5-3 Anvil adjustment
>>> Quickstart fig. 2

PLEASE NOTE

The adjustment of the anvil is an operation that must be carried out by qualified and trained personel. Inappropriate adjustments risk damaging the anvil or the blind rivet nut and potentially the application.



Disconnect tool from the compressed air

1- Release the locknut (B) using a 19 mm spanner (supplied) and unscrew it until it comes into contact with the anvil.
2 & 3- Screw the anvil (A) + the locknut (B) until they are in contact with the nose (C).
4A- For "open" blind rivet nuts: screw the blind rivet nut until the end of its barrel is practically touching the mandrel (E).
or
4A & B- For Closed blind rivet nuts: once screwed to a stop on the mandrel (E), unscrew the closed blind rivet nut by approximately 1 turn.
5- Unscrew the anvil (A) until it comes into contact with the head of the blind rivet nut.
6- Screw the locknut (B) to 10 Nm in contact with the nose (C) to lock the anvil position (A).

5-4 Setting force adjustment
>>> Quickstart fig. 4

PLEASE NOTE

The adjustment of the setting valve is an operation that must be carried out by qualified and trained personel. Inappropriate adjustments risk downgrading the mechanical performances of the blind rivet nut after setting, or may damage the tool and potentially the application.

Setting force by diameter and by material

	M3	M4	M5	M6	M8
Aluminium (+/- 10%)	–	3,0 kN	3,8 kN	5,5 kN	10,0 kN
Steel (+/- 10%)	3,5 kN	5,5 kN	8,0 kN	12,0 kN	18,0 kN
Stainless steel (+/- 10%)	3,5 kN	5,5 kN	8,0 kN	13,0 kN	–
A4 stainless steel (+/- 10%)	–	9,5 kN	12,0 kN	15,0 kN	–

Valid for Böllhoff standard catalogue fasteners, for further information, please contact a certified Böllhoff retailer.

Adjust the force valve of the RIVKLE® NEO P107 tool

Check that the pressure of the compressed air supply is between 5.5 bar (80 psi) and 6.5 bar (94 psi), and connect the tool.

1- Insert a 4 mm hexagonal key (supplied) into the setting valve.
2- Screw to increase the force / Unscrew to decrease the force.
3- By increasing the force, the black marker moves backwards / by reducing the force, the black marker moves forwards.
4- It is recommended that you regularly check the force generated by the tool, using the **RIVKLE® FC340** force indicator (not supplied with the tool) for two reasons:
- Check that the RIVKLE® NEO P107 setting tool is working properly
- Maintain the setting quality of your Böllhoff fastener.

PLEASE NOTE

The values indicated on the rule are provided for indicative purposes only. Upon delivery, the tool is deliberately set to minimum force. It'll therefore be imperative that you adjust the tool for the first commissioning. An excessive setting force may damage the blind rivet nut's tapping or the thread of the mandrel, or may prevent its unscrewing.

5-5 Connection to the compressed air supply
>>> Quickstart fig. 3

PLEASE NOTE

The tool is driven by compressed air at an optimal pressure of 6 bar (87 psi). The service pressure is between 5.5 bar (80 psi) and 6.5 bar (94 psi) at most.

Below 5.5 bar (80 psi), the tool's functioning may be downgraded.

Use a separator device for the compressed air supply (quick connection, valve, etc.).

We recommend using a Filter Regulator Lubricant (FRL) reference 23659900036, on your compressed air supply in order to optimise the life span of your tool and to guarantee user safety.

The air hose connecting the tool to the compressed air supply must not exceed a length of 3 metres (120 inch) in order to ensure that the tool has an optimal life span and requires minimum maintenance.

The air hose must have an internal diameter of at least 6.4 mm (1/4"). A quick connection and/or a compressed air cut-out valve must be accessible to the user.

PLEASE NOTE

A compressed air supply which contains excessive amounts of lubricant, water, impurities or excessive pressure may seriously damage the tool. Do not use oil containing silicone. We recommend setting the lubricant flow of your FRL to 1 drop/minute.

6. Use

6-1 Safety guidelines regarding preparation for commissioning

⚠ DANGER

Risk of crushing and cutting !
During the screwing operations (push-pull system), screwing the RIVKLE® onto the mandrel, be extremely vigilant as an untimely triggering of the setting cycle could cause injury.

Place your fingers at the end of the RIVKLE® during the screwing operation (push-pull system), remain vigilant throughout the screwing operation.

⚠ WARNING

Injury risk !
Working with the tool carries potential risks. Always wear safety goggles, protective gloves, hearing protection, close-fitting work clothes, and safety boots.

⚠ WARNING

Only trained, qualified and experienced operators, who have read and understood the user manual and the risks undertaken, may use this tool. The operator must stay vigilant and be physically capable of handling, using and transporting the tool, whilst also complying with the basic safety principles.

6-2 Procedures for use >>> Quickstart fig. 5

Screwing the threaded insert (Push-Pull system)
1- Place the head side of the blind rivet nut onto the mandrel. Push on the blind rivet nut, holding it firmly in the tool axis, and screwing will activate automatically (Push-Pull system).
2- Guide the blind rivet nut until it comes to a stop on the anvil, and the screwing will stop automatically.

PLEASE NOTE

During all of the following operations, make sure that you maintain good perpendicularity between the nose of the tool and the application.

Setting
3- Insert the blind rivet nut screwed on the tool into the application.
4- Press on the trigger and hold it down until the end of the cycle.

Unscrewing
5- Once the force has been reached, the tool automatically activate the unscrewing. Make sure that you relieve the weight of the tool during the unscrewing phase.

PLEASE NOTE

Do not pull on the tool during the unscrewing phase.
The trigger must be held down during the entire cycle. If this loosens, any setting will be non-compliant as a result.

6- Release the trigger, the tool is ready for a new setting cycle.

6-3 Manual unscrewing procedure

PLEASE NOTE

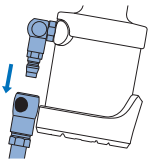
Sometimes, the tool may become blocked and the automatic unscrewing won't work.

1- Identifying the manual unscrewing button (See chapter 3.1)
2- Hold the manual unscrewing button down to start unscrewing
3- The tool starts the unscrewing, lighten the tool and hold it in the unscrewing axis
4- When the tool is completely clear, let go of the manual unscrewing button.

6-4 Forced unscrewing procedure

⚠ WARNING

Before any interventions, please disconnect your tool from the compressed air supply.



PLEASE NOTE

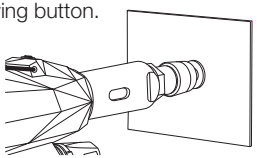
In extremely rare cases, it's possible that neither the automatic unscrewing or the manual unscrewing are sufficient for removing the blind rivet nut from the tool.

Use hand protection

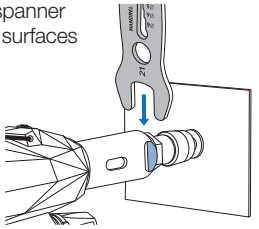
Description of operations

1 **Tools:**
21 mm spanner

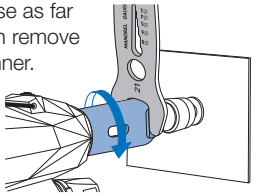
1-A The tool cannot unscrew automatically, nor can it unscrew using the manual unscrewing button.



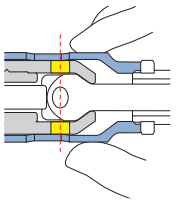
1-B Place a 21 mm spanner onto the two flat surfaces of the nose.



1-C Unscrew the nose as far as possible, then remove the 21 mm spanner.

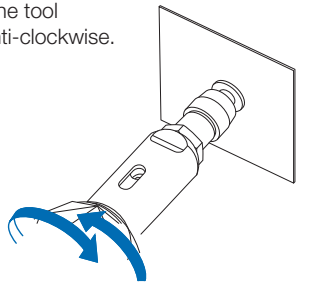


1-D By hand, align the oblong hole in the nose with the hole in the traction bush (shown in yellow in the image).

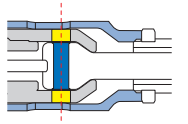


2 **Tools:**
5 mm pin punch

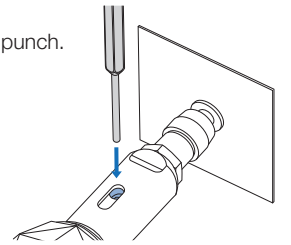
2-A By hand, turn the tool clockwise or anti-clockwise.



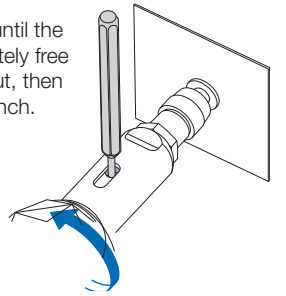
2-B Align the hole of the traction bush (yellow) with the hole in the mandrel (shown in dark blue in the image).



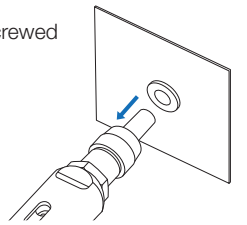
2-C Insert a 5 mm pin punch.



2-D Unscrew the tool until the mandrel is completely free of the blind rivet nut, then remove the pin punch.



2-E The mandrel is unscrewed from the RIVKLE®.



7. Défauts, causes et remèdes

7-1 Safety guidelines in the event of failure

⚠ WARNING

Only staff with the required qualifications are authorised to carry out repairs.In the event of a fault, immediately shut off the tool. Correct the fault straight away. Before starting any work, disconnect the tool from the compressed air supply. Otherwise, you're at risk of injury. If, during an intervention, you need to unscrew a screwed element, take care to re-screw it correctly, respecting the screwing torque when specified.

⚠ WARNING

Injury risk !

Working with the tool entails potential risks. Always wear safety goggles, protective gloves, close-fitting work clothes, hearing protection and safety boots.

7-2 Troubleshooting

ISSUE	PROBABLE CAUSES	SOLUTIONS
SCREWING		
The tool continuously screws	Unsettled Push-Pull adjustment bush.	Set the Push-Pull adjustment bush (Paragraph 8.5)
No screwing	1- Traction bush unscrewed, worn and/or damaged 2- Unsettled Push-Pull adjustment bush. 3- Tool not powdered with compressed air.	1- Check the traction bush, make sure that it's securely screwed against the Push-Pull adjustment bush and that the O-ring on the Push-Pull adjustment bush is indeed present and in good condition, and check for any internal wear on the traction bush. 2- Set the Push-Pull adjustment bush (Paragraph 8.5) 3- Check that the tool is correctly supplied with compressed air in line with Böllhoff recommendations (Paragraph 8.5).
The blind rivet nut isn't in contact with the anvil after the screwing / difficult to screw the blind rivet nut	1- Mandrel thread damaged, worn. 2- Anvil poorly adjusted. 3- Blind rivet nut isn't held in the setting axis during screwing.	1- Change the mandrel (Paragraph 5.2). Increase the replacement frequency. 2- Check/Adjust the position of the anvil (Paragraph 5.3). 3- Hold the blind rivet nut in the setting axis during screwing. To assist if required, engage the first thread of the blind rivet nut on the mandrel by hand.
TRACTION		
No setting stroke	1- Lack of oil in the tool. 2- The setting force is insufficient. 3- Insufficient compressed air pressure. 4- Application thickness incompatible with RIVKLE®.	1- Top up the oil using the filling bottle supplied (Paragraph 8.4) 2- Check the setting force in the RIVKLE® catalogue / Check the setting force set on the tool (Paragraph 5.4) / Check the setting force of the tool using the RIVKLE® FC340 force indicator / Increase the check frequency. 3- Check the service pressure (Paragraph 5.5). 4- Check that the thickness of your application is compatible with the RIVKLE®, refer to the Böllhoff recommendations.
Several cycles are required to acheive a correct setting	1- Lack of oil in the tool. 2- Insufficient compressed air pressure. 3- The blind rivet nut isn't compatible with the tool's maximum stroke.	1- Top up the oil using the filling bottle supplied (Paragraph 8.4) 2- Check the service pressure (Paragraph 5.5). 3- Check that your RIVKLE® NEO P107 tool is compatible with the blind rivet nut, refer to the Böllhoff recommendations (Paragraph 3.4).

ISSUE	PROBABLE CAUSES	SOLUTIONS
UNSCREWING		
The tool continuously unscrews	Internal fault	Contact a Böllhoff-certified repair centre or your maintenance service, if they've completed Böllhoff-certified training.
The tool doesn't unscrew at the end of the setting stroke. (Use the manual unscrewing procedure - Paragraph 6.3)	1- Insufficient compressed air pressure. 2- Lack of oil. 3- Faulty pneumatic motor. 4- Setting force too high. 5- tool isn't held in place in the setting axis during unscrewing	1- Check the service pressure (Paragraph 5.5) 2- Top up the oil using the filling bottle provided (Paragraph 8.4) 3- Disconnect the compressed air supply, then check the motor by turning the mandrel 4- Check the setting force in the RIVKLE® catalogue / Check the setting force set on the tool (Paragraph 5.4) / Check the setting force of the tool using the RIVKLE® FC340 force indicator / Increase the frequency of this check 5- Hold the tool in the setting axis during unscrewing
The tool takes time to unscrew after the end of the setting process	1- Lack of oil 2- The setting force is excessive 3- Insufficient compressed air pressure	1- Top up the oil using the filling bottle supplied (Paragraph 8.4) 2- Check the setting force in the RIVKLE® catalogue / Check the setting force set on the tool (Paragraph 5.4) / Check the tool's traction force using the RIVKLE® FC340 force indicator /Increase the frequency of this check 3- Check the service pressure (See Paragraph 5.5)
SETTING COMPLETED		
Blind rivet nut tapping damaged after its installation	1- Mandrel thread damaged, worn 2- The blind rivet nut isn't in contact with the anvil 3- Setting force too high 4- Perpendicularity with the application not respected 5- Application thickness incompatible with the blind rivet nut	1- Change the mandrel, Increase the replacement frequency (Paragraph 5.2) 2- Set the position of the anvil following the instructions (Paragraph 5.3) 3- Check the setting force required for installing your blind rivet nut in the RIVKLE® catalogue / Check the setting force set on the tool (Paragraph 5.4) / Check the setting force of the tool using the RIVKLE® FC340 force indicator / Increase the check frequency 4- Throughout the blind rivet nut installation phase, take care to keep the tool and the application perpendicular to one another (Paragraph 6.2) 5- Check that the thickness of your application is compatible with the blind rivet nut, refer to the Böllhoff recommendations.
After setting the blind rivet nut get loose in the application	1- Setting force too low 2- The blind rivet nut isn't in contact with the anvil 3- Application thickness incompatible with the blind rivet nut 4- The punch diameter or the drill diameter of the application is not subject to Böllhoff recommendations.	1- Check the setting force in the RIVKLE® catalogue / Check the setting force set on the tool (Paragraph 5.4) / Check the setting force of the tool using the RIVKLE® FC340 force indicator. Increase the frequency of this check 2- Adjust the position of the anvil (Paragraph 5.3). 3- Check that the thickness of your application is compatible with the blind rivet nut, refer to the Böllhoff recommendations. 4- Check that the drill or punch dimensions are compliant with Böllhoff recommendations.

ISSUE	PROBABLE CAUSES	SOLUTIONS
MANUAL UNSCREWING		
Manual unscrewing isn't working (the tool is blocked over the application) (Use the forced unscrewing procedure - Paragraph 6.4)	1- Setting force too high 2- Blind rivet nut tapping or mandrel thread damaged 3- Insufficient service pressure	1- Check the setting force in the RIVKLE® catalogue / Check the setting force set on the tool (Paragraph 5.4) / Check the setting force of the tool using the RIVKLE® FC340 force indicator / Increase the check frequency (Paragraph 5.4). 2- Refer to the "setting" section of this document 3- Check the service pressure (Paragraph 5.5).

PLEASE NOTE

If the function could not be restored, please contact a Böllhoff-certified repair centre or your maintenance service, if they have completed Böllhoff-certified training.

8. Maintenance

PLEASE NOTE

The various maintenance operations depend on the use of the tool. Contact a Böllhoff legal representative to assess the maintenance operations to be carried out.

8-1 Safety guidelines regarding maintenance and repair

⚠ WARNING

Tool maintenance must be entrusted to individuals who have receive the appropriate training from a Böllhoff-certified technician.
Given the hydraulic pressure generated by the tool, risks of potential injury caused by inappropriate maintenance operations carried out by unqualified individuals. Any maintenance operation not authorised by Böllhoff during the guarantee period will automatically invalidate this guarantee.

⚠ DANGER

The pneumatic supply must be disconnected from the compressed air supply prior to any maintenance or repair operations.

⚠ WARNING

Injury risk !
Working with the tool entails potential risks. Always wear safety goggles, protective gloves, close-fitting work clothes, hearing protection and safety boots.

8-2 Daily/weekly maintenance

OPERATION	FREQUENCY
Grease the mandrel.	• Once daily • For each job start
Check that there are no leaks in the pneumatic hose, pneumatic connectors or surface of the tool.	• Once daily • For each job start • After maintenance • After the tool has been dropped • After using an unauthorised service pressure • After the application of excessive force
Check that there are no unusual movements between its various mechanical and structural parts whilst the tool is in use (e.g. between the body and the tank). Check that there are no unusual noises whilst the tool is operating, other than those inherent to its use (e.g. cracks, friction noises, etc.). ***If you detect a hydraulic leak, stop using the tool immediately.***	• Once daily • For each job start • After maintenance • After the tool has been dropped • After using an unauthorised service pressure • After the application of excessive force
Check that the tool hasn't been dropped, carrying out a visual check for any marks or knocks on its surface.	• Once daily • For each job start • After maintenance
Check that the nose and anvil (and any adapter parts) assembled onto the tool are compatible with your blind rivet nut, and check that they're properly adjusted.	• For each job start, • After maintenance, • Each time the mandrel and anvil are changed • Each time after the mandrel and anvil are greased

OPERATION	FREQUENCY
Check that the setting force set on the tool is suitable for the blind rivet nut that you want to install.(We recommend using a RIVKLE® FC340 force indicator).	• Once daily • Each time the blind rivet nut type is changed • After adding oil or an oil top-up
Check the condition of the mandrel and anvil, replace them if needed.	• Once daily • For each job start • After a drop • After using the manual unscrewing button, or after implementing the forced unscrewing procedure
Check that the operations "Screwing > Setting > Unscrewing" are working perfectly "in air" (without blind rivet nut).	• Once daily • For each job start • Each time the blind rivet nut is changed • After using the manual unscrewing button, or after implementing the forced unscrewing procedure • After a drop • After maintenance • Each time the mandrel and anvil are changed
Check that the manual unscrewing control button is working,	• Once daily • For each job start • After a drop • Each time the mandrel and anvil are changed
Check that the blind rivet nut is screwed to a stop against the anvil.	• Once daily • After maintenance • After changing a traction rod, traction bushing or anvil • After adjusting the Push-Pull adjustment bushing
Check that the blind rivet nut is secure on the anvil, you'll need to gently force to unscrew the blind rivet nut manually.	• Once weekly • After maintenance • After changing a mandrel, traction bush or anvil • After adjusting the Push-Pull adjustment bush
Check the service pressure on the line your tool is connected to, adjust to the pressure recommended by Böllhoff if needed. Check the FRL which provides the tool's air supply (lubricant flow, presence of water or impurities in the filter tank). In any case, refer to manufacturer recommendations.	• Once weekly
Check the oil level in the tool.	• Once weekly

If you detect a pneumatic and/or hydraulic leak, stop using the tool immediately.

8-3 Maintenance at 250,000 cycles

We strongly recommend having the tool entirely dismantled every 250,000 cycles by an individual trained and qualified by a Böllhoff representative. Dynamic components and worn or damaged sealing elements must be replaced. It's also recommended that you change all elements included in the repair kit.

It is recommended that you carry out any disassembly and reassembly operations under good cleanliness conditions. In order to facilitate your maintenance operations, we recommend using special tools developed specifically for this tool to avoid any risk of damage to the components.

Repair kit reference 23617291001
This repair kit contains the following components:
- Pneumatic and hydraulic seals
- Drive shaft
- Trigger
- Traction bush
- Silencer pads
- Screws
- Adjustment bushing group (Push-Pull system)
- Push-Pull group
- Bleed screw group
- Force valve group
- Trigger valve group
- Booster valve group
- Manual unscrewing valve group
- Hydraulic plunger group

Special tool kit reference 23617290001
This tool kit may only be sold after training delivered by an organisation certified by Böllhoff. Please contact a Böllhoff representative for further information.

8-4 Oil check/top-up

An insufficient oil level may cause malfunctions, and so it is important to follow this operating procedure.

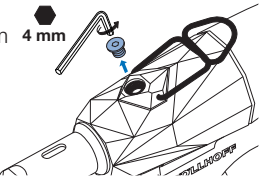
PLEASE NOTE
We recommend checking the oil level of your tool once weekly, using the procedure described below for help.

⚠ DANGER
Risk of pressurised oil projection!
Check that the tool is disconnected from the compressed air supply before unscrewing the bleed screw. An untimely triggering of the setting cycle may cause pressurised oil projection and may cause serious injury. Even when there is no air supply, a residual pressure may persist and cause oil release.

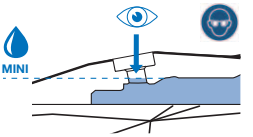
Please only use mineral oil with a viscosity grade of 68. The oil must be clean and free from particles, and must not contain silicone (Reference Böllhoff 29140000001/00 – 1 Litre).

1. Unscrew the bleed screw using the 4 mm hexagonal key supplied.

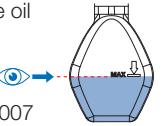
! 0 bar/psi



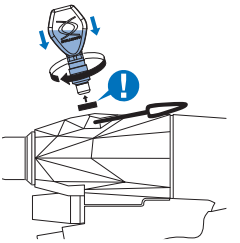
2. The minimum oil level is located just above the bottom of the hole.



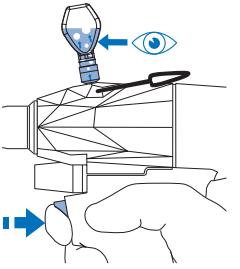
3. ⚠ **Check imperatively** that the oil level in the oil filling bottle does not exceed the maximum level indicated.
Empty oil filling bottle: 23650000007



4. Screw the oil filling bottle provided, which should contain mineral oil with a viscosity grade of 68. **Check for the presence of the seal washer on the oil filling bottle.**



5. Press and hold down the trigger for 3 seconds, and watch the air bubbles rise up in the oil filling bottle. **Repeat this operation 3 times.**



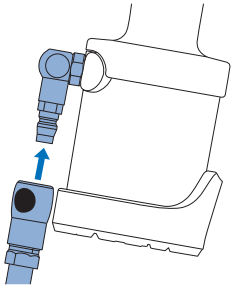
6. Re-screw the bleed screw and its seal washer, run 3 "in air" cycles to get the oil moving through the hydraulic circuit, if the tool automatically unscrews, the oil top-up is complete. If the tool doesn't unscrew automatically, restart the procedure from step 3. If the tool still isn't unscrewing automatically after three attempts of topping up the oil, please contact a Böllhoff-certified repair centre.

8-5 Screwing activation adjustment (Push-Pull system)

⚠ DANGER

Injury risk !

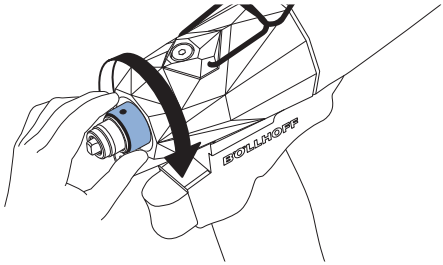
To carry out this operation, **the tool must be connected to the compressed air supply** and the nose must be removed. Make sure that you're vigilant and focused, and respect each point of the following instructions.



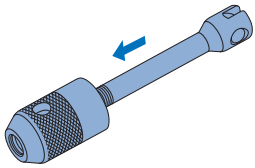
Description of operations

Tools:
3 mm pin punch

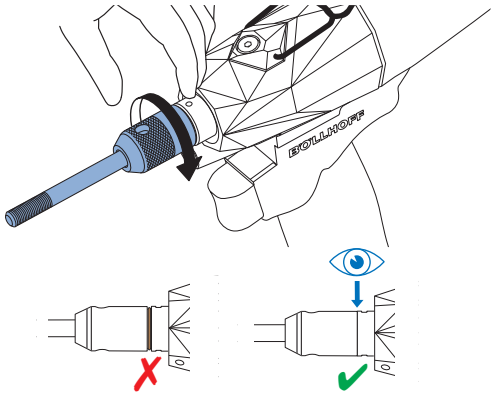
1. Screw the Push-Pull adjustment bush onto the hydraulic piston by hand, as far as possible without forcing.



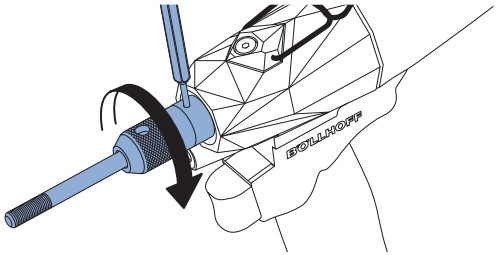
2. Insert the mandrel into the traction bushing.



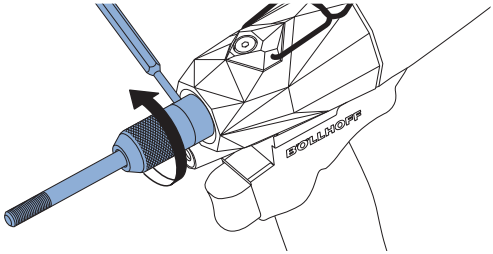
3. Screw the mandrel and traction bush assembly onto the hydraulic piston by hand, until it comes into contact with the adjustment bush **(the traction bush should cover the brown O-ring of the adjustment bush)**.



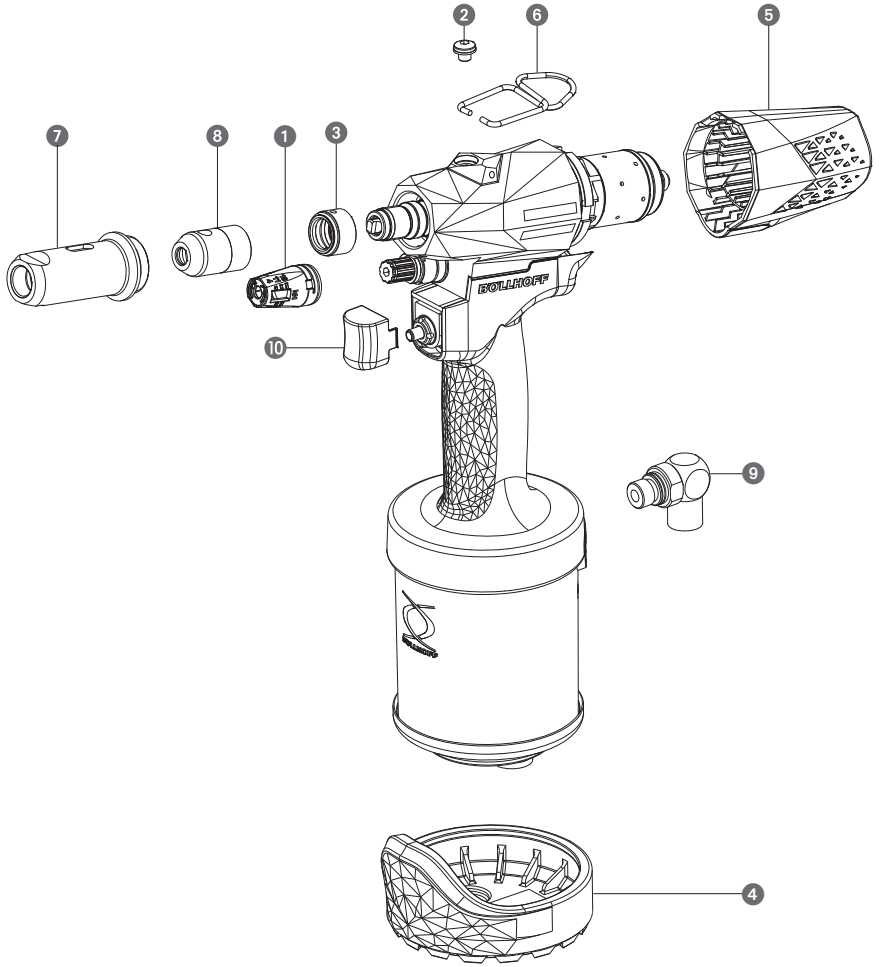
4. Using a 3mm pin punch positioned in one of the holes in the adjustment bush, gently screw the traction & adjustment bush assembly until you hear continuous air leakage.



5. Slowly unscrew the traction bush and adjustment bush assembly until the air leakage stops: the Push-Pull function is now correctly set.



9. Exploded view & bill of material



		Part Number	Qty
1	Adjustment valve cover assembly	236 172 80 008	1
2	Bleed screw assembly	236 172 80 010	1
3	Push-pull adjustment bush assembly	236 172 80 013	1
4	Booster protection assembly	236 172 80 018	1
5	Rear protection assembly	236 172 80 019	1
6	Hook	236 999 00 010	1
7	Nose	236 999 00 028	1
8	Traction bush	236 999 00 029	1
9	Pneumatic connection	236 999 00 054	1
10	Trigger	236 999 00 080	1

10. Packaging, transport and storage

Package up the tool and accessories in the carry case for transport and storage.

The hydro-pneumatic tool in its packaging must be stored and transported in the following conditions:

- Temperature between -20°C and +70°C
- Relative humidity from 5% to 80%

With or without its packaging, the appliance must not be subjected to aggressive or corrosive atmospheres.

The tool, without its packaging, must be used in the following conditions:

- Temperature from 0°C to +40°C
- Relative humidity from 5% to 80%

11. End-of-life management

Böllhoff is a company committed to an eco-responsibility protocol. The health and safety of its employees and strict compliance with environmental standards are counted amongst Böllhoff's priorities. Help us contribute to looking after our environment and nature should you need to replace it one day:

- If this tool needs to be replaced at any point, it must not be disposed of with household waste. Dismantle it and recycle its various components depending on the nature of the materials. Wear parts or replaced parts during maintenance or repair must be placed in the appropriate recycling containers (in line with the applicable local regulations).
- The recyclable materials used for the tool will namely be:
  - Steel
  - Aluminium
  - Brass
  - PA6/TPU/POM plastic

12. Tool log

Please report the information found on the tool below:

TOOL: **RIVKLE® NEO P107**

SERIAL NO.: **AN**_ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _

YEAR OF MANUFACTURE: **20**_ _ _

COMMISSIONING DATE: _ _ _ **/** _ _ _ **/ 20**_ _ _

Date	Number of cycles completed	Events	Remarqs
E.g. 27/03/22	*220000*	*Annual maintenance*	*Done by Michael*

13. Warranty

ARTICLE 1: DEFINITIONS OF THE TERMS OF THE SUPPLIER'S WARRANTY

For the purposes of this document:

- "Product(s)" means RIVKLE®, RIVQUICK® and/or RIVCLINCH® portable crimping tool(s), whether manual or powered;
- "Supplier" means BOLLHOFF OTALU, a Simplified Limited Company (Société par Action Simplifiée) with a share capital of EUR 15,000,000, registered with the Trade Register of Chambéry under number 747 220 309, whose registered office is located at Zone Industrielle de l'Albanne, Rue Archimède, 73490 La Ravoire, France, and which makes the first sale of the Product to a "Customer" as designated below.
- "Customer" means the natural person or legal entity, who/which is not a company belonging to the BÖLLHOFF group and who/which purchases a Product from the Supplier for use or resale.
- "Parties" means both the "Supplier" and the "Customer".

ARTICLE 2: SCOPE AND PERIOD OF THE SUPPLIER'S WARRANTY

The Products delivered by the Supplier shall be covered by a contractual warranty for a period of 12 months from the date of delivery, which will apply to the nonconformity of the Products with the order and to any latent defect, arising from a material, design or manufacturing defect affecting the delivered Products and which makes them unfit for use.

For the purposes of this clause, the delivery date shall be defined by the delivery documents in accordance with the ICC Incoterms 2020 included in the Supplier's order confirmation, or failing this, by the Incoterms listed in the order.

The Supplier's Warranty shall only apply to normal use as defined in the Instruction Manual delivered with the Product.

All other warranties, expressed or implied, including warranties of merchantability or fitness for a particular purpose, are excluded.

ARTICLE 3: IMPLEMENTATION OF THE SUPPLIER'S WARRANTY

As no claims for apparent defects shall be taken into account after a period of 7 (seven) calendar days from the date of delivery, the Supplier undertakes to systematically check the Products upon delivery. Such a check shall include, but shall not be limited to, the quality, quantities and references of the Products and their compliance with the contractual stipulations.

The Customer shall informthe Supplier of any defect affecting the Product within 7 (seven) calendar days of its detection and shall return the Product to the Supplier's Aftersales Service in its original condition without disassembly, properly protected and packaged in order to avoid any damage due to transport.

If the Customer receives a disassembled Product, the Supplier's aftersales service shall reassemble the tool for diagnosis. In this case, the reassembly costs shall not be borne by the Supplier and shall be charged to the Customer.

Moreover, the Supplier's Warranty only applies to Products that have been delivered by the Supplier and which are rightfully owned by the Customer making the claim.

The request for warranty coverage must be made and documented in the Coverage Form, attached to these special conditions, which must be filled out by the Customer.

This Form shall specify:

- the noted defect,
- the date and circumstances of its detection,
- the conditions of use of the Product,
- the Customer's company name and address,
- the contact person at the Customer's site,
- the Supplier's commercial contact,
- the type of Product,
- the serial number of the Product,
- if applicable, the Supplier's specific project number,
- whether the Product in question is still under warranty.

The Supplier reserves the right to directly or indirectly carry out any examination and check on the Customer's site.

In the event the warranty is excluded, the Supplier shall not be liable for the transport costs incurred and a repair estimate shall be sent to the Customer for approval prior to the start of work.

If the Customer agrees, in the form of an order, the Supplier shall undertake the planned repairs.

If the Customer does not agree, the Customer shall pay all costs related to the return of the Product in its original condition to its site within 30 (thirty) days from receipt of the estimate.

Failing this, the Product shall not be returned, without this being considered as misconduct by the Supplier, nor giving rise to the payment of any compensation.

Where applicable, the part repaired or replaced under the original warranty shall be covered until the expiry of such original warranty and for a maximum of 6 (six) months from said repair or replacement.

The original warranty period for the Product shall remain unchanged.

ARTICLE 4: COMPENSATION – LIMITATION OF SUPPLIER'S WARRANTY

The Supplier's warranty shall only cover the restoration to working order (parts and labour) or if applicable, the replacement of the Product as new, at the Supplier's discretion, as any price reduction and any damages related to the defects of the Product are excluded.

The Supplier shall not be held liable for any indirect or consequential loss or damage such as, but not limited to, penalties, loss of operation, loss of profit, loss of opportunity, commercial loss, loss of earnings, etc.

ARTICLE 5: EXCLUSIONS FROM THE SUPPLIER'S WARRANTY

The following are excluded from the Supplier's Warranty:

- Defect / damage resulting from servicing, maintenance, adjustment tests, installation, alteration, modification or special assembly of the Product by the Customer or a third party, unless: (i) the operation in question was carried out under the supervision or validation of the Supplier or (ii) the operation in question was carried out by members of the Customer's staff who hold a certificate of training in maintenance operations issued by the Supplier;
- Defect / damage related to a design required by the Customer or to raw materials supplied or required by the Customer;
- Defect / damage arising from improper operation, handling, storage, misuse or abuse of the Product, accident or negligence, as well as bodily injury;
- Defect / damage stemming from spare parts not provided by the Supplier and/or spare parts which have not been placed on the Product by the Supplier;
- Defect / damage related to the transport and/or packaging / packing of the Product where said operations have not been carried out or ordered by the Supplier;
- Wear parts that need to be regularly replaced;
- Defect / damage resulting from failure to comply with the maintenance and use instructions;
- Normal wear that does not affect the daily use or safety of the Product;
- Defect / damage that does not affect the proper operation of the product, in particular aesthetic damage, such as scratches, scuffs, etc.;
- Defect / damage for which a third party is liable or which are the result of gross negligence or wilful misconduct;
- The costs and/or damage caused by poor quality of the power supply to the product, such as: defective electrical voltage, voltage error, etc.;
- Loss of traceability of the product by the Customer.

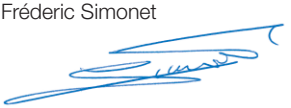
ARTICLE 6 : WAIVER OF RECOURSE

The Customer waives all recourse and warrants that its insurers and third parties in a contractual relationship within the Customer waives all recourse against the Supplier and the insurers thereof, beyond the limitations and exclusions determined in these general conditions.

14. CE Compliance Statement

Compliance statement (original)

We hereby declare that the following machine corresponds to all provisions set out by European Directive 2006/42/EC relating to machinery.

Machine name:	**RIVKLE® NEO P107**
Machine typ:	**Mobile setting tool for setting blind rivet nuts**
Year:	**From 2023**
Series No.:	**AN00001 => AN99999**
The following EC directives have been applied:	2006/42/CE
The following harmonised standards have been applied:	EN ISO 12100: "Machine safety - General principles of design: Risk evaluation and risk reduction" from 2010.EN ISO 11148-1: "Portable machines with non-electric motors - Safety requirements - Part 1: Portable machines for setting non-threaded fixing elements" from 2012
Manufacturer:	Böllhoff Otalu S.A.S Rue Archimède Zone Industrielle de l'Albanne 73490 LA RAVOIRE France Tel : (33) 4 79 96 70 00 Fax : (33) 4 79 96 70 11 www.boellhoff.com.fr
Individual responsible for the technical documentation:	Fréderic Simonet
Place, date:	La Ravoire, 01/01/2023
Name:	Fréderic Simonet
Signature:	
Position:	Powertool Activity Manager

BÖLLHOFF

Passion for successful joining.

Böllhoff Group
Innovative partner for joining technology with assembly and logistics solutions.

Find the contact details of all our locations worldwide at www.boellhoff.com.

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