# Two-hand grease gun/ Multi-cartridge grease gun




**Operating instructions and safety notes**

82 437 932 A408 GB

## Pressol Schmiergeräte GmbH

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Operating instructions translation

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We reserve the right to make design and product modifications, which serve to improve the product.

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# 1. Introduction

## 1.1. Preface

**Please carefully read these operating instructions and observe in particular all safety notes**!

Our staff will be pleased to provide support if you have any questions about the product.

**Yours sincerely, Pressol Schmiergeräte GmbH**

## 1.2. Obligations of the personnel

Before they start work, all persons who are entrusted to work with the two-hand grease gun, are obliged:
- to follow all applicable regulations on occupational safety and accident prevention.
- to read and to comply with all safety instructions and warning notes contained in these operating instructions.

Please observe the following instructions in the interest of all concerned:

- Refrain from any unsafe working methods!
- Adhere to all hazard and warning notes contained in this manual!
- In addition to this documentation, keep to all generally accepted safety rules, legal provisions as well as all other binding rules regarding occupational safety, accident prevention and environmental protection!
- Wear appropriate protective clothing in accordance with the work to be done!
- Perform only work for which you have been sufficiently trained and instructed!
- Only genuine spare parts as well as original tools and auxiliaries of the manufacturer are allowed to be used in order to ensure the functional safety and maintain the warranty coverage.

## 1.3. Symbols in this manual

### 1.3.1. Structure of the safety notes

The warning notes have the following structure:



**SIGNAL WORD**

**Type and source of the hazard**
- Consquences of non-compliance with the notes
- Measures to avoid that risk

Depending on the danger level, different signal words are used:

| Signal word | Danger level | Consequences of non-compliance |
|---|---|---|
| **WARNING** | Possible threat of danger | Death or serious bodily injury |
| **CAUTION** | Possibly dangerous situation | Minor bodily injury |
| **ATTENTION** | Possibly dangerous situation | Damage to material property |



**NOTE**

Indicates further information or tips which facilitate work

### 1.3.2. Hazard symbols

| Symbol | Meaning |
|---|---|
|  | General hazard symbol. The warning note marked in this way contains supplementary information on the type of hazard. |

### 1.3.3. General symbols

| Symbol | Meaning |
|---|---|
| ■ | A small black square indicates the work you have to perform |
| – | The dash denotes lists |

# 2. Safety notes

Various dangers may occur if the two-hand grease gun is improperly handled during installation, commissioning and daily operation.



**WARNING**

**Risk of injury and damage to material property because of improper handling**

- Hold the manual at the disposal of the operating staff at the usage site of the unit.
- Country-specific safety measures and accident prevention regulations must be observed.

## 2.1. Authorized personnel

Only qualified and authorized persons are allowed to operate and to work on the two-hand grease gun.

Persons are qualified if they are, due to their training, experience, instruction and knowledge of the relevant standards, able to assess assigned tasks and to identify potentially hazardous situations.

All persons charged with installation, operation, maintenance and repair work, must have read and understood this operation manual.

## 2.2. Intended conditions of use

The two-hand grease gun is designed exclusively for the delivery of grease lubricants.

Any use beyond these parameters can lead to serious risks and is regarded as use that is contrary to the intended purpose.

The operator is responsible for damages resulting from use other than the intended use.

# 3. Design and functional description

Two-hand grease gun, with ergonomic handles for 400 g and 500 g screw-in cartridges.

The grease gun is suitable for supplying lubricant greases under pressure up to the viscosity class NLGI 2.

– The vacuum technology allows an easy to understand design of the grease gun.
– Schneller und sauberer Kartuschenwechsel.
– Fast and easy cartridge replacement.
– A removal of partially emptied screw-in cartridges is possible.
– Complete emptying of cartridge reduces impact on environment.
– Continuous check of filling level and grease type.
– Designed for an operation with long lubricating lines.
– Easy to use due to an uncomplicated technology and design.

# 4. Area of aplication

The grease gun is suitable for supplying lubricant greases up to viscosity class NLGI 2 under pressure.



**NOTE**

- Recommendation: do not apply lubricants at temperatures below 10 °C

# 5. Technical data

| Two-hand grease guns | 12 850<br>12 851 | 12 840<br>12 841 |
|---|---|---|
| Diameter of grease gun pump piston: | 10 mm | 10 mm |
| Supply volume/stroke: | 2,0 $cm^3$ | 2,0 $cm^3$ |
| Operating pressure: | up to 400 bar | up to 400 bar |
| Grease gun discharge connection: | M 10 x 1 | M 10 x 1 |
| Burst pressure of system: | 850 bar | 850 bar |
| Grease gun head burst pressure: | 1200 bar | 1200 bar |
| Filling options: | 500-g-screw-in cartridge | 500-g-screw-in cartridge<br>400-g-screw-in cartridge |

Tab. 5.-1: Technical data

# 6. Hazards when handling the grease gun



**ATTENTION**

**Excess pressure can result in the bursting of the grease gun head and accessories**

- Do not use force when actuating the hand lever.
- Do not use an extension or other auxiliaries.
- Do not exceed the working pressures given in section 5.
- Use only original accessories compliant with DIN 1283.

**Excess pressure at the greasing point can damage the grease nipple, bearings, and even the machine!**

- Do not exceed the working pressures given in section 5.
- Comply with the machine manufacturer's maintenance and service instructions.



**CAUTION**

**Defective accessories can lead to personal injury and material damage**

- High pressure hoses must not be kinked, twisted, or stretched.
- During their period of use, accessories must be checked for wear, cracks, and other damages.
- Defective accessories should be replaced immediately.
- The period of use for connecting hoses is a maximum of 6 years after the date of manufacture (see hose labelling).

# 7. Assembly

The grease gun is supplied assembled.

Depending on the model, accessories can or must be fitted.



**NOTE**

- When fitting accessories, ensure cleanliness and that the accessory makes a perfect connection to the grease gun.
- Use suitable sealants and adhesives (e. g. Teflon tape).

# 8. Making the grease gun ready for operation

**CAUTION**

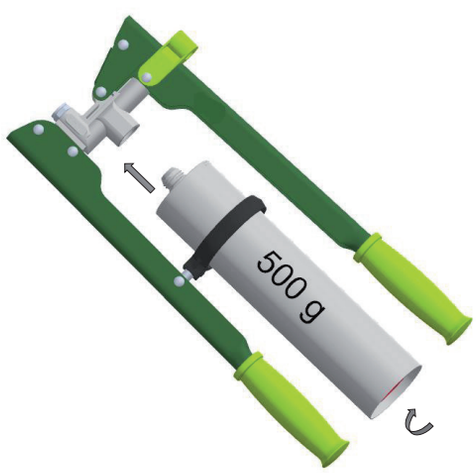
**Excess pressure can result in the bursting of the grease gun head and of equipment**

- When using the grease gun, use suitable equipment such as protective gloves and eye protection.

**1** Remove the cap from the 500 g cartridge. Bleed the cartridge while pressing lightly the follower of the cartridge until grease emerges.




**2** Screw the cartridge through the centering ring into the head of the open grease gun and fasten it hand-tight.




**3** Press on the follower piston and start operating the grease gun until grease escapes at the mouthpiece. If required, repeat the procedure several times.

Grease gun is now ready for operation.

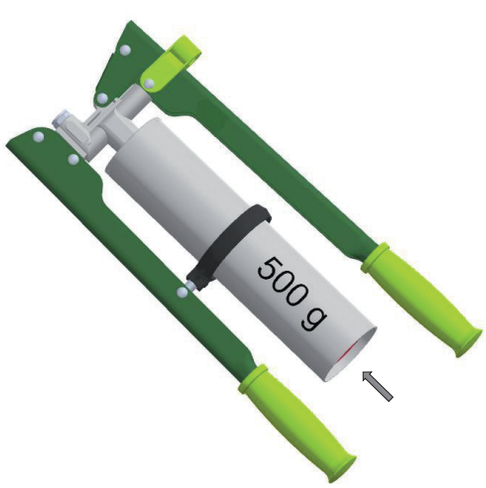
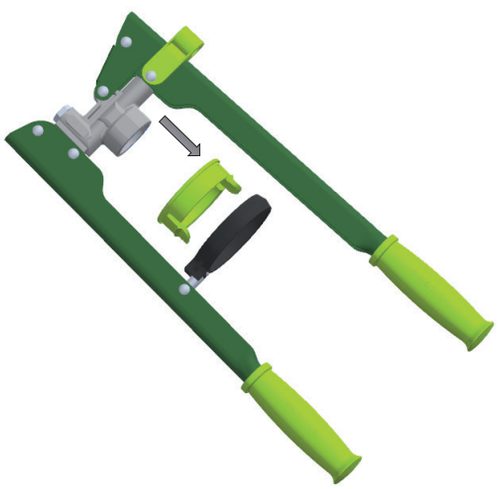



Fig. 8.-1: Making the grease gun ready for operation with 500-g-screw-in cartridge

**1** Remove the cap from the 400 g cartridge. Bleed the cartridge while pressing lightly the follower of the cartridge until grease emerges.




**2** Clip the adapter into the centering ring.



**3** Screw the 400 g cartridge through the centering ring into the head of the open grease gun and fasten it hand-tight.

Press on the follower piston and start operating the grease gun until grease escapes at the mouthpiece. If required, repeat the procedure several times.

Grease gun is now ready for operation.

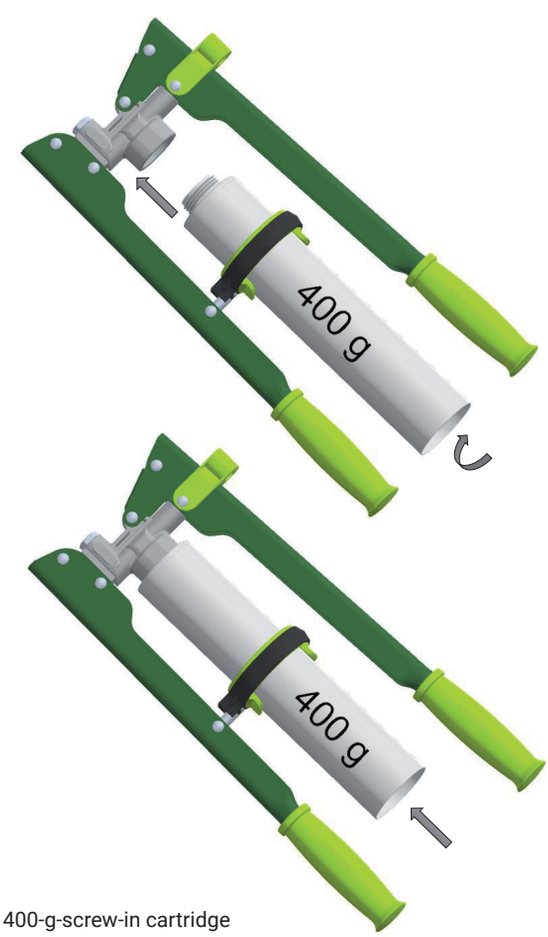



Fig. 8.-2: Making the grease gun ready for operation with 400-g-screw-in cartridge

## 8.1. Advises for an ideal operation

**NOTE**

Since the piston chamber of the grease gun is not filled by spring pressure, but by the vacuum created by the piston, never open the hand lever jerkily.

- Operate the grease gun with even and steady working strokes.
- Depending on the viscosity of the grease used (based on the NLGI class and the temperature), the vacuum technology makes it necessary to wait for a sufficient refilling of the piston chamber with grease.

# 9. Care/Maintenance

The two-hand grease gun needs little care and maintenance.

Because of operator responsibility, the following parts must be checked regularly in order to avoid environmental, material or personal damage:

– Grease gun head
– Screwed connections
– Accessories (hoses, mouthpieces, etc.)

# 10. Spare parts and accessories

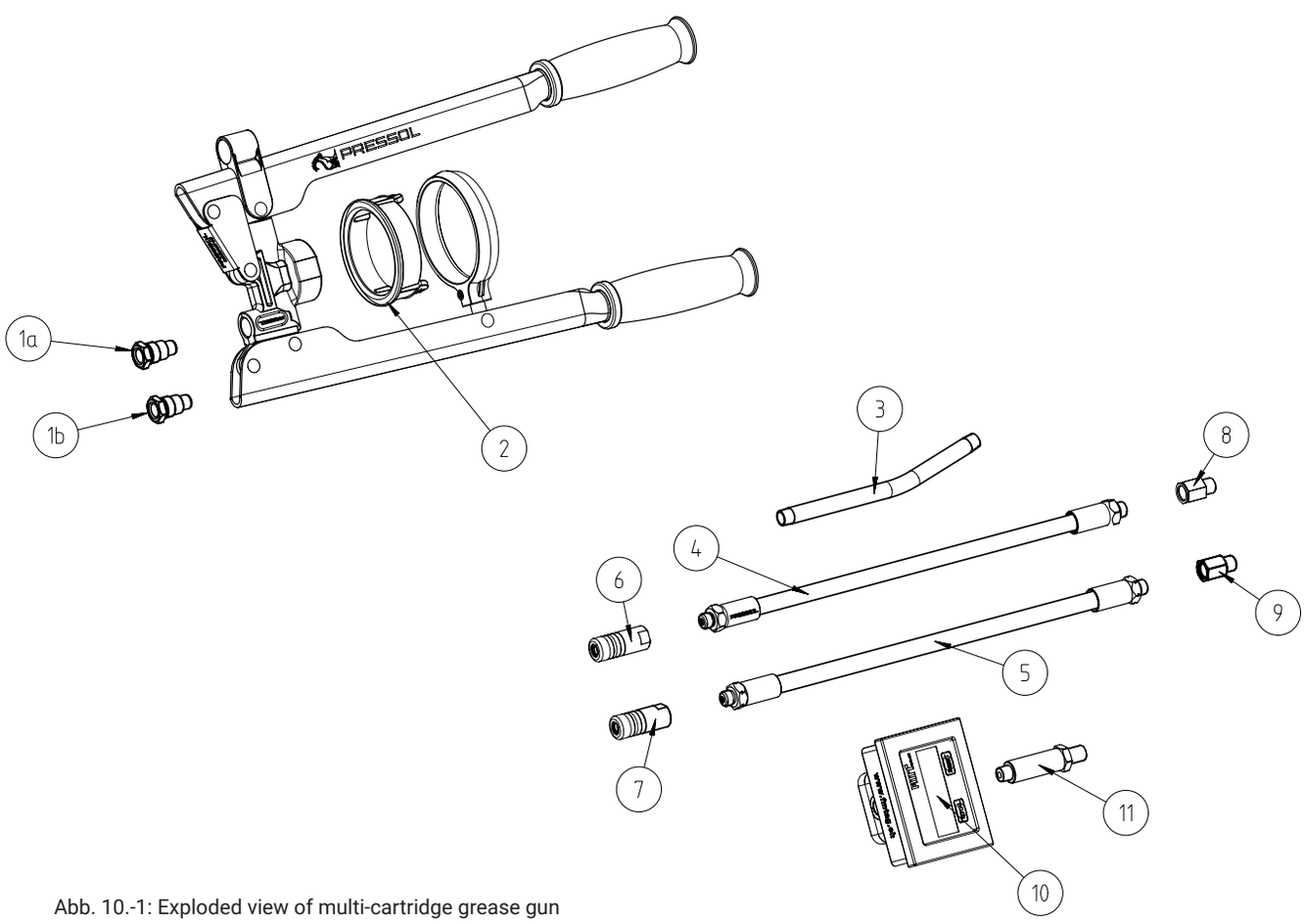



Abb. 10.-1: Exploded view of multi-cartridge grease gun

| Pos. | EBS No. | Description | Quantity |
|---|---|---|---|
| 1a | 87 340 | Complete venting option, zinc-blue with ball and spring-M 10x1 | 1 |
| 1b | 94 582 | Complete venting option, zinc-blue with ball and spring-G 1/8“ | 1 |
| 2 | 88 683 101 | Centering ring adapter RAL 1107077 0.0230 kg-Ø 68,0x30,0 | 1 |
| 3 | 12 635 | Spout-angled-M 10 x 1 male 150 mm | 1 |
| 4 | 12 655 | High pressure hose-M 10 x 1 male 11 x 300 mm | 1 |
| 5 | 12 755 | High pressure hose-G 1/8“ male 11 x 300 mm | 1 |
| 6 | 12 643 | Precision coupler-M 10 x 1 female SW 13 mm-Ø 15 mm | 1 |
| 7 | 12 743 | Precision coupler-G 1/8“ female SW 13 mm-Ø 15 mm | 1 |
| 8 | 12 016 | Retention adapter G 1/8“ female-M 10 x 1 male | 1 |
| 9 | 12 086 | Retention adapter G 1/8“ male-M 10 x 1 female | 1 |
| 10 | 18 115 091 | In-line meter for grease-NEF with display-0-1000 cm³/min | 1 |
| 11 | 86 306 | Adapter PRELIxx / grease meter, weight 1.0718–0.0393 kg, SW 15 × 45 | 1 |

Tab. 10.-1: Exploded view of multi-cartridge grease gun, spare parts / accessories

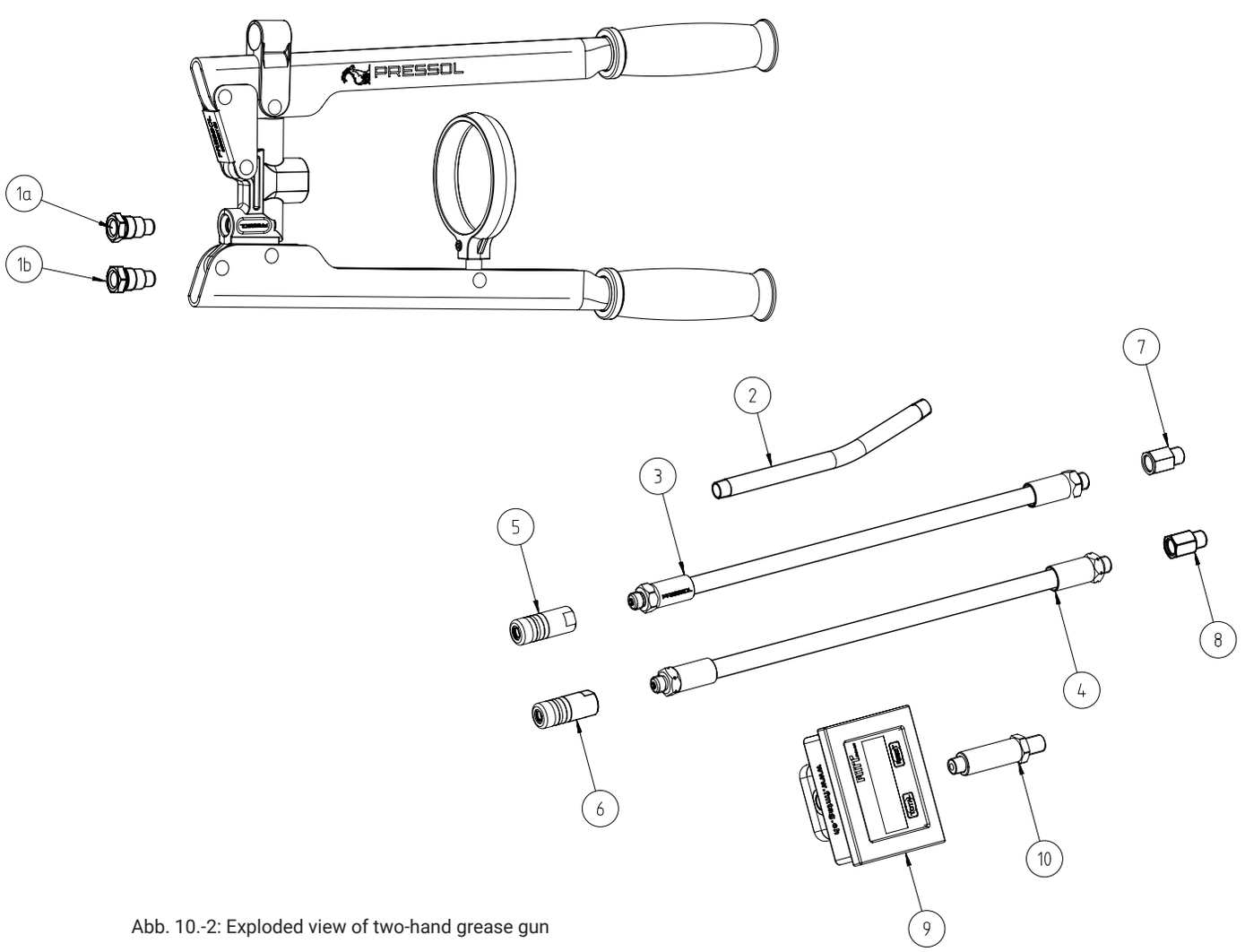



Abb. 10.-2: Exploded view of two-hand grease gun

| Pos. | EBS No. | Description | Quantity |
|---|---|---|---|
| 1a | 87 340 | Complete venting option, zinc-blue with ball and spring-M 10x1 | 1 |
| 1b | 94 582 | Complete venting option, zinc-blue with ball and spring-G 1/8“ | 1 |
| 2 | 12 635 | Spout-angled-M 10 x 1 male 150 mm | 1 |
| 3 | 12 655 | High pressure hose-M 10 x 1 male 11 x 300 mm | 1 |
| 4 | 12 755 | High pressure hose-G 1/8“ male 11 x 300 mm | 1 |
| 5 | 12 643 | Precision coupler-M 10 x 1 female SW 13 mm-Ø 15 mm | 1 |
| 6 | 12 743 | Precision coupler-G 1/8“ female SW 13 mm-Ø 15 mm | 1 |
| 7 | 12 016 | Retention adapter G 1/8“ female-M 10 x 1 male | 1 |
| 8 | 12 086 | Retention adapter G 1/8“ male-M 10 x 1 female | 1 |
| 9 | 18 115 091 | In-line meter for grease-NEF with display-0-1000 cm³/min | 1 |
| 10 | 86 306 | Adapter PRELIxx / grease meter, weight 1.0718–0.0393 kg, SW 15 × 45 | 1 |

Tab. 10.-2: Exploded view of two-hand grease gun, spare parts / accessories

# 11. Repairs/Service

The grease gun was developed and manufactured under compliance with the highest quality standards.

If in spite of all quality measures a problem occurs, please get in touch with our service contact partners:

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service@pressol.com

# 12. Disposal

The operating company is responsible for the proper disposal of the two-hand grease gun.

Dispose of the different materials in accordance with all industry-specific, local, regional and federal regulations.

Only qualified personnel is authorized to disassemble and dispose of the grease gun.

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