



# 20V 2AH LITHIUM-ION CORDLESS NUT RIVETER

MODEL NO: **CP316**

Thank you for purchasing a Sealey product. Manufactured to a high standard, this product will, if used according to these instructions, and properly maintained, give you years of trouble free performance.

**IMPORTANT:** PLEASE READ THESE INSTRUCTIONS CAREFULLY. NOTE THE SAFE OPERATIONAL REQUIREMENTS, WARNINGS & CAUTIONS. USE THE PRODUCT CORRECTLY AND WITH CARE FOR THE PURPOSE FOR WHICH IT IS INTENDED. FAILURE TO DO SO MAY CAUSE DAMAGE AND/OR PERSONAL INJURY AND WILL INVALIDATE THE WARRANTY. KEEP THESE INSTRUCTIONS SAFE FOR FUTURE USE.



Refer to instructions



Wear eye protection



Wear ear protection

## 1. SAFETY

### 1.1. ELECTRICAL SAFETY

- ❑ **WARNING!** It is the user's responsibility to check the following:  
Check all electrical equipment and appliances to ensure that they are safe before using. Inspect power supply leads, plugs and all electrical connections for wear and damage. Sealey recommend that an RCD (Residual Current Device) is used with all electrical products. You may obtain an RCD by contacting your local Sealey Stockist.

If the product is used in the course of business duties, it must be maintained in a safe condition and routinely PAT (Portable Appliance Test) tested.

Electrical safety information, it is important that the following information is read and understood.

- 1.1.1. Ensure that the insulation on all cables and on the appliance is safe before connecting it to the power supply.
- 1.1.2. Regularly inspect power supply cables and plugs for wear or damage and check all connections to ensure that they are secure.
- 1.1.3. **Important:** Ensure that the voltage rating on the appliance suits the power supply to be used and that the plug is fitted with the correct fuse - see fuse rating in these instructions.

- \* **DO NOT** pull or carry the appliance by the power cable.
- \* **DO NOT** pull the plug from the socket by the cable. Remove the plug from the socket by maintaining a firm grip on the plug.
- \* **DO NOT** use worn or damaged cables, plugs or connectors. Ensure that any faulty item is repaired or replaced immediately by a qualified electrician.

- 1.1.4. This product is fitted with a BS1363/A 13 Amp 3 pin plug.

If the cable or plug is damaged during use, switch the electricity supply and remove from use. Replace a damaged plug with a BS1363/A 13 Amp 3 pin plug. If in doubt contact a qualified electrician. Class II products are wired with live (brown) and neutral (blue) only, and are marked with the  Class II symbol;

A) Connect the BROWN live wire to the live terminal 'L'.

B) Connect the BLUE neutral wire to the neutral terminal 'N'.

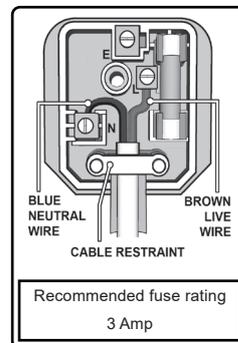
C) After wiring, check that there are no bare wires and ensure that all wires have been correctly connected.

Ensure that the cable outer sheath extends inside the cable restraint and that the restraint is tight.

- \* **DO NOT** connect either wire to the earth terminal.  
Sealey recommend that repairs are carried out by a qualified electrician.

### 1.2. BATTERY CHARGER SAFETY INSTRUCTIONS

- ❑ **WARNING! DO NOT** use the charging base to charge any battery other than that required for the tool. Other types of batteries may explode!
- ✓ Inspect the plug, cable and the charging base for wear and damage to ensure items are safe before connecting to the mains power supply. If worn or damaged **DO NOT** use, immediately replace, or contact a qualified electrician.
- ✓ Check cables are always protected against short circuit and overload.
- ✓ Uncoil the power cable between the plug and the charging base before use.
- \* **DO NOT** pull or carry the charging base by the charger power lead, or pull the plug from the mains socket by the power lead.
- \* **DO NOT** use any other type of transformer with the charging base.
- \* **DO NOT** try to open or dis-assemble the plug or charging base.
- \* **DO NOT** use the plug to power any other electrical item.
- ✓ Disconnect the charging base from the mains power supply when not in use.
- \* **DO NOT** expose the charging base to damp or wet conditions (for indoor use only).
- \* **DO NOT** operate the charging base if it has been dropped, or has received a sharp knock, or is damaged. Contact an authorised service agent.
- \* **DO NOT** dismantle the charging base as this may cause damage or personal injury and will invalidate your warranty.
- \* **DO NOT** insert foreign objects or material into the slot reserved for the battery.
- \* **DO NOT** immediately charge a second battery. Consecutive charging will overheat the charging base. Allow the unit to cool for 15 minutes before charging the next battery.
- ✓ Ensure that the insulation on all cables and on the appliance is safe before connecting it to the power supply.
- ✓ Ensure that cables are always protected against short circuit and overload.



- \* **DO NOT** use worn or damaged cables, plugs or connectors. Immediately have any faulty item replaced by a qualified electrician.
- 1.3. BATTERY SAFETY INSTRUCTIONS**
- ☐ **WARNING!** Battery contains Lithium-ion which is dangerous. Handle with care to avoid damage, fire, corrosion or personal injury.
  - ✓ Charge battery prior to its first use. The battery will have been shipped in a low charge state. To reduce the risk of burns or fire:
  - \* **DO NOT** Attempt to open, disassemble, modify or service the battery pack.
  - \* **DO NOT** Crush, puncture, short external contacts or dispose of in fire or water.
  - \* **DO NOT** Expose to temperatures above 40°C (104°F).
  - ✓ Replace only with the battery pack designated for this product.
  - ✓ Use only the charging base provided to charge the nut riveter.
  - \* **DO NOT** attempt recharging the battery by means of an engine generator or a DC power source.
  - ☐ **WARNING!** Dispose of spent batteries correctly as they contain Lithium-ion. **DANGER! DO NOT** attempt to disassemble the battery. For safety and environmental reasons **DO NOT** discard in domestic waste or by burning. **ONLY** discard or recycle according to local authority regulations.
  - ☐ **WARNING! DO NOT** allow a leaking battery to contact your person.
- 1.4. GENERAL SAFETY**
- ☐ **WARNING!** Ensure that Health & Safety, local authority and general workshop practice regulations are adhered to when using this equipment.
  - ✓ Familiarise yourself with the applications, limitations and potential hazards peculiar to the nut riveter.
  - ☐ **WARNING!** Disconnect the nut riveter from the battery before changing accessories, servicing or performing any maintenance.
  - ✓ Maintain the nut riveter in good condition (use an authorised service agent).
  - ✓ Replace or repair damaged parts. Use genuine parts only. Unauthorised parts may be dangerous and will invalidate the warranty.
  - ✓ Keep the work area clean, uncluttered and ensure that there is adequate lighting.
  - ✓ Keep the nut riveter clean for best and safest performance.
  - ☐ **WARNING!** Always wear approved eye or face protection when operating the nut riveter.
  - ✓ Maintain correct balance and footing. Ensure the floor is not slippery and wear non-slip shoes.
  - ✓ Remove ill fitting clothing. Remove ties, watches, rings and other loose jewellery and contain, and/or tie back, long hair.
  - ✓ Keep the nut riveter away from your body and at a safe distance from others.
  - ✓ Keep children and unauthorised persons away from the work area.
  - ✓ Secure unstable workpiece with a clamp, vice or other adequate holding device.
  - ✓ **DO NOT** use the nut riveter for any purpose other than that for which it is designed.
  - \* **DO NOT** operate the nut riveter if any parts are damaged or missing.
  - \* **DO NOT** get the nut riveter wet or use in damp or wet locations or areas where there is condensation.
  - \* **DO NOT** allow untrained persons to operate the nut riveter.
  - \* **DO NOT** operate nut the riveter when you are tired or under the influence of alcohol, drugs or intoxicating medication.

## 2. INTRODUCTION

Suitable for aluminium rivet nuts. Powered by a 20V 2Ah lithium-ion battery and brushless motor with a pulling force of up to 4000N, capable of pulling up to 80 rivets on one full charge. Three selectable power settings to help preserve the battery by only supplying the force required. Quick release mechanism which allows for speedy mandrel changes. Led battery light indicator. Supplied with seven sets of threaded mandrels from M3 to M12 and fast charge mains charger. Supplied in storage case.

## 3. SPECIFICATION

**Model:** ..... **CP316**  
**Battery type:**.....20V 2Ah Li-ion  
**Maximum pulling force:** .....4000N  
**Nut rivet type:**..... Aluminium  
**Nut driver sizes:** .....M3, M4, M5, M6, M8, M10, M12  
**Replacement parts:**.....CP3BP Battery pack

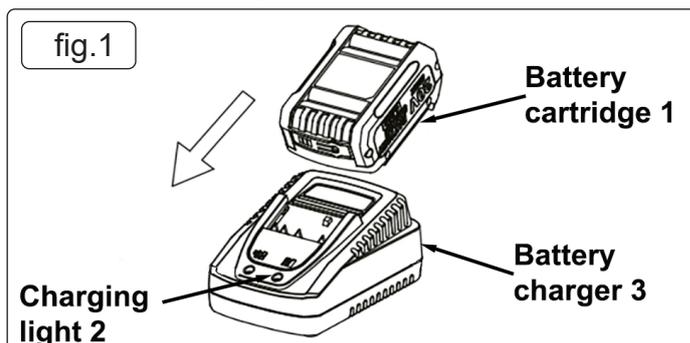
Noise power/pressure .....86/75dB(A)  
 Vibration/uncertainty ..... 0.079/1.5m/s<sup>2</sup>

## 4. OPERATION

**IMPORTANT WARRANTY INFORMATION:** the battery pack fitted to this cordless tool are considered to be a consumable item and its ability to accept charge will reduce over time. We will provide warranty against mechanical and electrical defect for a period of one year - this does not cover fair wear and tear. If the battery is not properly charged before first use, or regularly conditioned, its capacity will diminish. Under these circumstances we will not replace the battery pack even if it is less than one year old.

### 4.1. CHARGING THE BATTERY

- 4.1.1. Plug the battery charger (fig 1 - 3) into the mains and the charging light will light up green (fig 1 - 2).
- 4.1.2. Insert the battery cartridge (fig 1 - 1) into the battery charger (fig 1 - 3) and the charging light (fig 1- 2) will flash green.
- 4.1.3. When the battery cartridge is fully charged the charging light will turn solid green.
- 4.1.4. Switch off the battery charger at the mains supply and remove the battery cartridge.



## 4.2. BATTERY INSTALLATION

4.2.1. To insert the battery align the tongue on the battery cartridge with the groove in the nut riveter handle housing and slide it into place. Insert the battery all the way in until it locks into place.

## 4.3. BATTERY REMOVAL

4.3.1. Hold the nut riveter handle housing tightly and push the battery latch button, then slide and remove the battery.

## 4.4. ATTACHING A THREADED MANDREL

4.4.1. Select correct size threaded mandrel required to suit nut rivet.

4.4.2. Remove rear drive coupling (fig 2 - 1) from threaded mandrel (fig 3 - 2) and secure onto hexagon drive shaft inside the quick release mechanism (fig 3 - 1).

4.4.3. Pull back the quick release mechanism (fig 3 - 1) and insert the threaded mandrel into the quick release mechanism ensuring that it locates onto the rear drive coupling.

4.4.4. Release the quick release mechanism to lock threaded mandrel in place.



## 4.5. REMOVING THE THREADED MANDREL:

4.5.1. Pull back the quick release mechanism (fig 3 - 1) and remove the threaded mandrel and rear drive coupling (fig 2 - 1).

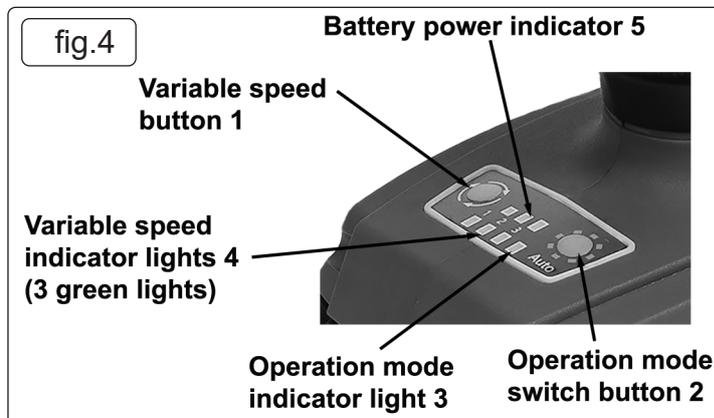
4.5.2. Release the quick release mechanism.

## 4.6. USING THE NUT RIVETING GUN

The nut riveter has two modes: Manual Operation and Intelligent Automatic Operation.

**NOTE:** The nut riveting gun is suitable for **ALUMINIUM** rivet nuts only. Using the nut riveting gun with nut inserts other than aluminium nut inserts, will damage the threaded mandrel and invalidate the warranty.

**NOTE:** Prior to using the nut riveter, it may be practical to practise using the nut riveter on a test piece.



- ❑ **WARNING!** Ensure that the direction switch (fig 3 - 4) is fully pushed through from the right side (direction arrow pointing towards quick release mechanism) to left side. If the direction switch is pushed in the other direction the nut riveting function will not operate.

## 4.7. MANUAL OPERATION MODE

4.7.1. Press the operation mode switch button (fig 4- 2) and the operation mode indicator light (fig 4 - 3) will turn on permanently.

4.7.2. Pull the trigger (fig 3 - 3) and the nut riveting will begin.

4.7.3. When the nut riveting process is complete, release the trigger and the threaded mandrel (fig 3 - 2) will reverse out of the nut insert.

**NOTE:** The time required to complete the nut riveting is determined by the thickness of the riveted material and size of the nut insert.

## 4.8. INTELLIGENT AUTOMATIC OPERATION MODE

This operation can be used when there is a quantity of nut riveting to be completed on the same material thickness and nut inserts.

4.8.1. Complete the first nut riveting operation as detailed in section 4.7.

4.8.2. Press the operation mode switch button (fig 4- 2) and the operation mode indicator light (fig 4 - 3) will flash.

4.8.3. The nut riveter will retain the last nut riveting settings.

4.8.4. For the remaining nut inserts, pull the trigger (fig 3 - 3) and the nut riveting operation will complete automatically.

4.8.5. To switch back to manual operation mode press the operation mode switch button (fig 4- 2) and the operation mode indicator light (fig 4 - 3) will turn on permanently.

## 4.9. VARIABLE SPEED OPERATION

4.9.1. To select the speed required press the variable speed button (fig 4 -1) once for low speed (one green light), twice for mid speed (two green lights) and three times for maximum speed (three green lights).

**NOTE:** Variable speed is not available if nut riveter is in automatic operation mode.

#### 4.10. TRIGGER OPERATION

4.10.1. The rotational speed can be controlled by the trigger (fig 3 - 3). Pull the trigger slightly for low rotational speed. To increase the speed pull further on the trigger.

#### 4.11. BATTERY POWER INDICATOR

4.12. When all the battery indicator lights (fig 4 - 5) are on the battery is at full charge.

### 5. MAINTENANCE

5.1. Use a clean cloth to remove dirt, dust oil, grease etc.

× **DO NOT** use solvents to clean the nut riveter.

□ **WARNING! – Risk of Hand Arm Vibration Injury.**

This tool may cause Hand Arm Vibration Syndrome if its use is not managed adequately.

This tool is subject to the vibration testing section of the Machinery Directive 2006/42/EC.

This tool is to be operated in accordance with these instructions.

**Measured vibration emission value (a): 0.079 m/s<sup>2</sup>**

**Uncertainty value (k): 1.5 m/s<sup>2</sup>**

Please note that the application of the tool to a sole specialist task may produce a different average vibration emission. We recommend that a specific evaluation of the vibration emission is conducted prior to commencing with a specialist task.

A health and safety assessment by the user (or employer) will need to be carried out to determine the suitable duration of use for each tool.

NB: Stated Vibration Emission values are type-test values and are intended to be typical.

Whilst in use, the actual value will vary considerably from and depend on many factors.

Such factors include; the operator, the task and the inserted tool or consumable.

NB: ensure that the length of leader hoses is sufficient to allow unrestricted use, as this also helps to reduce vibration.

The state of maintenance of the tool itself is also an important factor, a poorly maintained tool will also increase the risk of Hand Arm Vibration Syndrome.

#### **Health surveillance.**

We recommend a programme of health surveillance to detect early symptoms of vibration injury so that management procedures can be modified accordingly.

#### **Personal protective equipment.**

We are not aware of any personal protective equipment (PPE) that provides protection against vibration injury that may result from the uncontrolled use of this tool. We recommend a sufficient supply of clothing (including gloves) to enable the operator to remain warm and dry and maintain good blood circulation in fingers etc. Please note that the most effective protection is prevention, please refer to the Correct Use and Maintenance section in these instructions. Guidance relating to the management of hand arm vibration can be found on the HSC website [www.hse.gov.uk](http://www.hse.gov.uk) - Hand-Arm Vibration at Work.



#### **ENVIRONMENT PROTECTION**

Recycle unwanted materials instead of disposing of them as waste. All tools, accessories and packaging should be sorted, taken to a recycling centre and disposed of in a manner which is compatible with the environment. When the product becomes completely unserviceable and requires disposal, drain any fluids (if applicable) into approved containers and dispose of the product and fluids according to local regulations.



Li-ion

#### **BATTERY REMOVAL**

Under the Waste Batteries and Accumulators Regulations 2009, Jack Sealey Ltd are required to inform potential purchasers of products containing batteries (as defined within these regulations), that they are registered with Valpak's registered compliance scheme. Jack Sealey Ltd's Batteries Producer Registration Number (BPRN) is BPRN00705.

**Note:** It is our policy to continually improve products and as such we reserve the right to alter data, specifications and component parts without prior notice.

**Important:** No Liability is accepted for incorrect use of this product.

**Warranty:** Guarantee is 12 months from purchase date, proof of which is required for any claim.

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