Atlas Copco ITB-A31-05-10 Battery-Powered Nutrunner Instructions

Contents

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Technical Data

- **Product Data**
  - Motor voltage 35 V d.c.
  - Motor power 1080 W
  - Speed 2972 r/min
  - Torque range 1 – 5 Nm (0.7 – 3.6 ft lb)
  - Weight 1.5 kg (3.3 lb)
- **Battery Compatibility**
  - Accessory Art-icle nr.
  - Battery, 14V (2.5Ah) 4211 6130 02
  - Battery, 18V (2.5Ah) 4211 6030 85
  - Battery, 36V (2.5Ah) 4211 6030 86
- **Ambient Temperature**
  - Operating temperature, charge +5 to +40 °C (+41 to +104 °F)
  - Operating temperature, discharge 0 to +40 °C (+32 to +104 °F)
  - Storage temperature –20 to +40 °C (–4 to +104 °F)
- **Charger Compatibility**
  - Accessory Article nr.
  - Flex charger 4211 6083 84
- **Charger Temperatures**
  - Charger operating temperature +5 to +40 °C (+41 to +104 °F)

- **Wireless LAN Information**
  - Regulatory Domain
  - Band TxChannels
  - ETSI 2.4 GHz 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11 U-NII-1 36, 40, 44, 48

Declarations

Liability

Many events in the operating environment may affect the tightening process and shall require validation of results. In compliance with applicable standards and/or regulations, we hereby require you to check the installed torque and rotational direction after any event that can influence the tightening result. Examples of such events include but are not limited to:

- initial installation of the tooling system
- change of part batch, bolt, screw batch, tool, software, configuration or environment
- change of air- or electrical connections
- change in line ergonomics, process, quality procedures or practices
- changing of operator
- any other change that influences the result of the tightening process The check should:
- Ensure that the joint conditions have not changed due to events of influence.
- Be done after initial installation, maintenance or repair of the equipment.
- Occur at least once per shift or at another suitable frequency.

EU DECLARATION OF CONFORMITY

We, Atlas Copco Industrial Technique AB, S-105 23 STOCKHOLM SWEDEN, declare under our sole responsibility that the product (with name, type and serial number, see front page) is in conformity with the following Directive(s): 2006/42/EC, 2011/65/EU, 2014/30/EU, 2014/53/EU

Safety Information

Noise and Vibration Declaration Statement

- Sound pressure level < 70 dB(A) , uncertainty 3 dB(A), in accordance with ISO15744.
- Sound power level <80 dB(A) , uncertainty 3 dB(A), in accordance with ISO15744.
- Vibration total value < 2.5 m/s2 , uncertainty -, in accordance with ISO28927-2.

These declared values were obtained by laboratory-type testing in accordance with the stated standards and are suitable for comparison with the declared values of other tools tested in accordance with the same standards. These declared values are not adequate for use in risk assessments and values measured in individual workplaces may be higher. The actual exposure values and risk of harm experienced by an individual user are unique and depend upon the way the user works, the workpiece, and the workstation design, as well as the exposure time and the physical condition of the user.We, Atlas Copco Industrial Technique AB, cannot be held liable for the consequences of using the declared values, instead of values reflecting the actual exposure, in an individual risk assessment in a workplace situation over which we have no control. This tool may cause hand-arm vibration syndrome if its use is not adequately managed. An EU guide to managing hand-arm vibration can be found by accessing **HTTP:// www.pneurop.eu/index.php** and selecting ‘Tools’ then ‘Legislation’. We recommend a program of health surveillance to detect early symptoms which may relate to noise or vibration exposure, so that management procedures can be modified to help prevent future impairment.

RF Exposure Statement

This portable transmitter has been tested and found to comply with FCC General Population RF Radiation Exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines. The antenna used for this device must not be co-located or operating in conjunction with any other antenna or transmitter.
FCC and ISED Compliance Statement
This device complies with Part 15 of the FCC Rules. Any changes or modifications not expressly approved by the manufacturer could void the user´s authority to operate this device. Operation is subject to the following two conditions:(1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
FCC Responsible party:

- Name: Rodney Hill
- Position: Product Marketing Manager
- Address: 3301 Cross Creek Parkway
- MI 483 26 Auburn Hills
- United States
- Mobile: +1 919 272 7837
- Email: **rodney.hill@us.atlascopco.com**

Email: **rodney.hill@us.atlascopco.com** This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Information Regarding Article 33 in REACH

The European Regulation (EU) No. 1907/2006 on Registration, Evaluation, Authorization and restriction of Chemicals (REACH) defines among other things requirements related to communication in the supply chain. The information requirement applies also to products containing so-called Substances of Very High Concern (the “Candidate List”). On 27 June 2018 lead metal (CAS nr 7439-92-1) was added to the Candidate List. In accordance with the above this is to inform you that certain electrical and mechanical components in the product may contain lead metal. This is in compliance with current substance restriction legislation and based on legit exemptions in the RoHS Directive (2011/65/EU). Lead metal will not leak or mutate from the product during normal use and the concentration of lead metal in the complete product is well below the applicable threshold limit. Please consider local requirements on the disposal of lead at product end of life.

Safety

Statement of Use
• For professional use only.
• This product and its accessories must not be modified in any way.
• Do not use this product if it has been damaged.
• If the product data or hazard warning signs on the product cease to be legible or become detached, replace without delay.
• The product must only be installed, operated, and serviced by qualified personnel in an industrial environment.

Intended Use

This product is designed for installing and removing threaded fasteners in wood, metal or plastic. Indoor use only. No other use is permitted.

Product Specific Instructions

- **General Installation Safety**
  Refer the installation to qualified personnel only. Hang the tool securely, by for example using a balancer. When using a suspension yoke, check that it is in good condition and correctly fastened. For corded tools: Always connect the system to an earthed outlet. Always make sure that the mains plug is disconnected and the controller is turned off before connecting or disconnecting the tool cable.
- **General instructions**
  The tool may only be used together with the associated torque reaction bar, which is adapted to the screw joint application concerned.

Safety Information

- Operators and maintenance personnel must be physically able to handle the bulk, weight and power of the tool.
- If possible, use a suspension arm to absorb the reaction torque. If that is not possible, side handles are recommended for straight-case and pistol-grip tools; reaction bars are recommended for angle nutrunners. It is recommended to use a means to absorb the reaction torque above 4 Nm (3 lbf.ft) for straight-case tools, above 10 Nm (7.5 lbf.ft) for pistol-grip tools, and above 60 Nm (44 lbf.ft) for angle nutrunners.
- Serious injury can result from over-torqued or under-torqued fasteners. Assemblies requiring a specific torque must be checked using a torque meter. So-called “click” torque wrenches do not check for potentially dangerous over-torqued conditions. Over-torqued or under-torqued fasteners can break, loosen or separate. Released assemblies can become projectiles.
- Use only power or impact sockets in good condition. Do not use hand sockets.
- When using a power tool, the operator may feel discomfort in the hands, arms, shoulders, neck, or other parts of the body. Vary between appropriate postures throughout the work day, maintain a secure footing and avoid awkward or off-balance postures.
- Repetitive work motions, awkward positions and exposure to vibration can be harmful to hands and arms. If numbness, tingling, pain or whitening of the skin occurs, stop using tool and consult a physician.
- Take caution when operating in confined spaces. Beware of crushing hands between tool and workpiece.
- High sound levels can cause permanent hearing loss.Use hearing protection as recommended by your employer or occupational health and safety regulations.
- Ensure that the workpiece is securely fixed.
- Proceed with care in unfamiliar surroundings. Be aware of potential hazards created by your work activity. This tool is not insulated from coming into contact with electric power sources.

General Service and Maintenance Safety

Cleaning Instructions

Contact your Atlas Copco service technician for cleaning advice as per current recommendations and for your particular tool.

Preventing ESD Problems

The components inside the product and controller are sensitive to electrostatic discharge. To avoid future malfunction, make sure that service and maintenance is carried out in an ESD approved work environment. The figure below shows an example of an appropriate service workstation.

Additional Safety Warnings for Battery Tools

- Recharge only with the charger specified by the manufacturer. A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.
- Use power tools only with specifically designated battery packs. Use of any other battery packs may create a risk of injury and fire.
- When battery pack is not in use, keep it away from other metal objects, like paper clips, coins, keys, nails, screws or other small metal objects, that can make a connection from one terminal to another. Shorting the battery terminals together may cause burns or a fire.
- Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help. Liquid ejected from the battery may cause irritation or burns.
- Do not use a battery pack or tool that is damaged or modified. Damaged or modified batteries may exhibit unpredictable behaviour resulting in fire, explosion or risk of injury.
- Do not expose a battery pack or tool to fire or excessive temperature. Exposure to fire or temperature above 130 °C may cause explosion.
- Follow all charging instructions and do not charge the battery pack or tool outside the temperature range specified in the instructions. Charging improperly or at temperatures outside the specified range may damage the battery and increase the risk of fire.

General Power Tool Safety Warnings

- **Work area safety**
  - Keep work area clean and well lit. Cluttered or dark areas invite accidents.
  - Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust. Power tools create sparks which may ignite the dust or fumes.
  - Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.
- **Electrical safety**
  - Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.
  - Avoid body contact with earthed or grounded surfaces, such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded.
  - Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
  - Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.

- When operating a power tool outdoors, use an extension cord suitable for outdoor use. Use of a cord suitable for outdoor use reduces the risk of electric shock.
- If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply. Use of an RCD reduces the risk of electric shock.

- **Personal safety**
  - Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating power tools may result in serious personal injury.
  - Use personal protective equipment. Always wear eye protection. Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
  - Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the tool. Carrying power tools with your finger on the switch or energising power tools that have the switch on invites accidents.
  - Remove any adjusting key or wrench before turning the power tool on. A wrench or a key left attached to a rotating part of the power tool may result in personal injury.
  - Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.
  - Dress properly. Do not wear loose clothing or jewellery. Keep your hair and clothing away from moving parts. Loose clothes, jewellery or long hair can be caught in moving parts.
  - If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used. Use of dust collection can reduce dust-related hazards.
  - Do not let familiarity gained from frequent use of tools allow you to become complacent and ignore tool safety principles. A careless action can cause severe injury within a fraction of a second.
  - Hold the power tool by insulated gripping surfaces, when performing an operation where the fastener may contact hidden wiring or its own cord. Fasteners contacting a “live” wire may make exposed metal parts of the power tool “live” and could give the operator an electric shock.
- **Power tool use and care**
  - Do not force the power tool. Use the correct power tool for your application. The correct power tool will do the job better and safer at the rate for which it was designed.
  - Do not use the power tool if the switch does not turn it on and off. Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
  - Disconnect the plug from the power source and/or the battery pack, if detachable, from the power tool before making any adjustments, changing accessories, or storing power tools. Such preventive safety measures reduce the risk of starting the power tool accidentally.
  - Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool. Power tools are dangerous in the hands of untrained users.
  - Maintain power tools and accessories. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool’s operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.
  - Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.

- Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed. Use of the power tool for operations different from those intended could result in a hazardous situation.
- Keep handles and grasping surfaces dry, clean and free from oil and grease. Slippery handles and grasping surfaces do not allow for safe handling and control of the tool in unexpected situations.

- **Battery tool use and care**
  - Recharge only with the charger specified by the manufacturer. A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.
  - Use power tools only with specifically designated battery packs. Use of any other battery packs may create a risk of injury and fire.
  - When battery pack is not in use, keep it away from other metal objects, like paper clips, coins, keys, nails, screws or other small metal objects, that can make a connection from one terminal to another. Shorting the battery terminals together may cause burns or a fire.
  - Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help. Liquid ejected from the battery may ause irritation or burns.
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  - Do not expose a battery pack or tool to fire or excessive temperature. Exposure to fire or temperature above 130 °C may cause explosion.
  - Follow all charging instructions and do not charge the battery pack or tool outside the temperature range specified in the instructions. Charging improperly or at temperatures outside the specified range may damage the battery and increase the risk of fire.
- **Service**
  - Have your power tool serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the power tool is maintained.

Useful Information

Website
Information concerning our Products, Accessories, Spare Parts, and Published Matters can be found on the Atlas Copco website. Please visit: **www.atlascopco.com** ServAid ServAid is a portal that is continuously updated and contains Technical Information, such as:
• Regulatory and Safety Information
• Technical Data
• Installation, Operation, and Service Instructions
• Spare Parts Lists
• Accessories
• Dimensional Drawings
Please visit **https://servaid.atlascopco.com** For further Technical Information, please contact your local Atlas Copco representative.

Documents / Resources

	Atlas Copco ITB-A31-05-10 Battery-Powered Nutrunner [pdf] Instructions ITB, 2AQ8P-ITB, 2AQ8PITB, ITB-A31-05-10 Battery-Powered Nutrunner, ITB-A31-05-10, Battery-Powered Nutrunner

References

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