



DX-100 1/2" Drive Impact Wrench / Rattle Gun

User Manual

[Revision 1.0 March 2018]

READ THIS MANUAL CAREFULLY BEFORE USE – FAILURE TO DO SO MAY RESULT IN INJURY, PROPERTY DAMAGE AND MAY VOID WARRANTY. • KEEP THIS MANUAL FOR FUTURE REFERENCE. • Products covered by this manual may vary in appearance, assembly, inclusions, specifications, description and packaging.

Safety

Read and understand all safety warnings before using the tool.

- Use this product only with a mains 240VAC / 50Hz electrical supply.
- Do not leave the tool unattended when connected to an electrical supply.
- Avoid dangerous environments. 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 dust or fumes.
- Do not use this product if it is not completely assembled or if any parts appear to be missing or damaged. Use of a product that is not properly and completely assembled could result in serious personal injury.
- Inspect the tool carefully to make sure no breakage or damaged occurred during shipping.
- If any parts are damaged or missing do not operate this tool until the missing parts are replaced. Use of this product with damaged or missing parts could result in serious personal injury.
- Do not attempt to modify this tool or create accessories not recommended for use with this tool. Any alteration or modification is misuse that will void product warranty and could result in a hazardous condition leading to possible serious personal injury.
- To prevent accidental starting that could cause injury, always disconnect the tool from the electrical supply when assembling parts.
- Keep the tool and all components away from children.
- Keep children and bystanders away while operating power tools.
- Keep the work area clean and well lit
- Keep the tool pointed away from yourself and others at all times. Keep hands and body parts away from moving parts and use safety guards.
- Do not allow persons unfamiliar with the tool or its operation to use the tool.
- Always hold the tool firmly with both hands when operating it.
- Use safety equipment. Always wear eye and ear protection. Safety equipment such as non-slip safety shoes and hard hat should be used in appropriate conditions.
- Only use parts and accessories recommended by manufacturer.
- Do not modify any part of the tool or its safety mechanisms.
- Do not use the tool outside of its operating parameters. For example, driving fasteners outside of the supplied socket sizes.
- Sockets may become hot during use – wear suitable protective gloves when handling bits.

Servicing

- Have your power tool serviced by a qualified repair person using only identical replacement parts. This will ensure that safety of the tool is maintained.

Intended Use

- Tightening / loosening fasteners (screws, bolts etc)

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Parts Identification



Note that some drill bits / accessories may come supplied with the tool.

No.	Name	No.	Name
1	Tool Body	4	Trigger / Torque Selector Control
2	Drive Pin	5	17 / 19 / 21 / 22mm Socket
3	Forward / Reverse Selector	6	Carbon Brush (spares may be supplied)

Operation

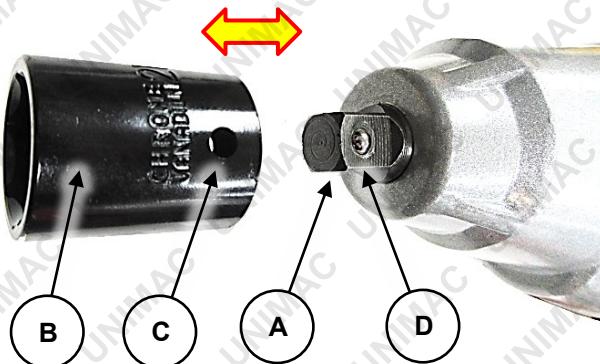


Fully understand all operational [safety warnings](#) before using the tool. • Do NOT operate the tool continuously for more than 10 minutes. • Once the selected torque is reached, the clutch disengages and prevents the drive pin rotating – do not attempt to further tighten by repeatedly activating the tool. • **ALWAYS** hold the tool firmly with both hands when operating.

Changing Sockets

1. Disconnect the tool from the electrical supply.
2. Hold the tool body firmly with one hand.
3. Insert the socket (**B**) fully onto the drive pin (**A**), with the hole (**C**) in the socket aligned with the spring-loaded ball (**D**) in the drive pin.

To remove a socket, disconnect the tool from the electrical supply, then pull the socket directly from the drive pin.



Selecting Torque



ALWAYS set the torque to the most suitable setting for the fastener. There are 2 settings available – "1" = 100Nm, "2" = 350Nm. • For vehicle fasteners, consult manufacturer instructions for correct torque values. • Do NOT change torque setting while the tool is running.

The tool features 2 torque settings (100 and 350Nm). The tool will automatically disengage the drive pin when the fastener is at the selected torque value. This helps prevent the possibility of over-tightening fasteners.

- For 100Nm torque, rotate (**E**) so "1" is next to the arrow (**F**) on the trigger.
- For 350Nm torque, rotate (**E**) so "2" is next to the arrow (**F**) on the trigger.



Selecting Direction



The image shows the tool in "forward" mode. • Do NOT change direction while the tool is running.

The drive pin can rotate "forward" (right or clockwise) for screwing in / tightening. Similarly, the direction of rotation can be "reverse" (left or anti-clockwise) for screwing out / loosening.

- To rotate forward, push (**G**) "in".
- To rotate in reverse, push (**H**) "in".



Guidelines for Use



Fully understand all operational [safety warnings](#) before using the tool.

- Always use the correct socket for the fastener size.
- Always torque to the required value – do NOT over-tighten.
- When tightening, wait for the drive pin to disengage – this means that the set torque has been reached.
- Always hold the tool "square" to the fastener. That is, screw straight. Do not apply sideways pressure to the tool.
- Apply sufficient pressure to prevent the socket slipping from the fastener head.

Maintenance and Troubleshooting



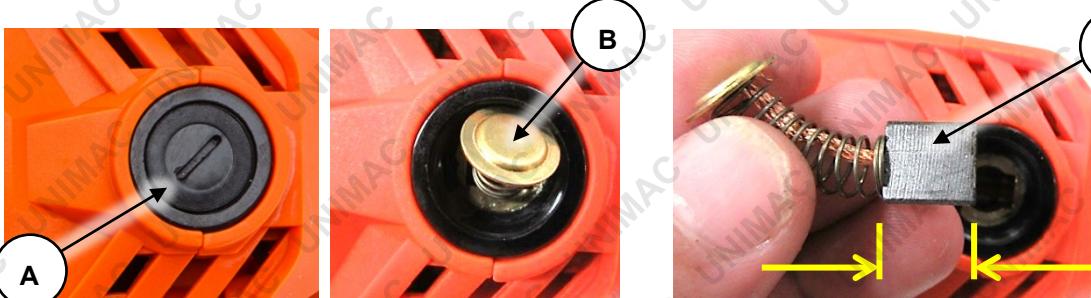
Disconnect the tool from the electrical supply before performing any maintenance. • The machine should be cool enough to touch before performing maintenance activities. • Some maintenance activities described may be beyond the scope of some users. For procedures that you are not comfortable with or have the tools, knowledge or experience for, have the unit serviced by an authorised service centre or qualified technician.

- Clean the tool regularly with a soft cloth – do NOT use water, solvents, abrasives etc. Remove any debris from the drive pin and tool ventilation slots using a soft brush.

Motor Brushes

The electric motor uses 2 carbon "brushes" in order to function. The brushes wear as a result of use – this is normal, and some tools may come with replacement brushes. If the brushes are allowed to wear past the acceptable limit, the motor may produce less power, operate intermittently, or not operate at all. To check brushes:

1. Clean the tool in the area under the brush covers to help prevent any dirt or other material entering the motor housing.
2. Use a coin or wide flat blade screwdriver to remove the brush cap (A).
3. Pull the brush (B) from the cavity and check the length of the carbon section (C). If the brush length is close to the minimum acceptable limit (7mm), replace the brush – always replace both brushes at the same time.



4. Insert the brush into the cavity.
5. Re-install the brush cap (rotate right. Do not over-tighten).

Troubleshooting

The following information may assist in identifying a problem and rectifying it.

Tool will not operate.

Possible Fault	Action
No electrical supply	Ensure that the electrical supply to the tool is correct (12VDC) and that the vehicle battery is sufficiently charged. Note that some vehicles may require the ignition set to "on" or "accessories" to provide power through the cigarette lighter / 12VDC connector. Ensure that all connections are secure.
Motor brushes worn	Replace the brushes.

Fasteners too tight or not tight enough.

Possible Fault	Action
Incorrect torque setting	Ensure torque selection is correct for the fastener.

Specifications

Electrical Requirements	240VAC / 50Hz
Drive Pin Size	1/2" Square Drive
Torque Range	100 or 350 Nm



Some experts believe the incorrect or prolonged use of almost any product could cause serious injury or death. For information that may reduce your risk of serious injury or death, consult the points below and additionally, the information available at www.datastreamserver.com/safety

- Consult all documentation, packaging and product labelling before use. Note that some products feature online documentation which should be printed and kept with the product.
- Check product for loose / broken / damaged / missing parts, wear or leaks (if applicable) before each use. Never use a product with loose / broken / damaged / missing parts, wear or leaks (if applicable).
- Products must be inspected and serviced (if applicable) by a qualified specialist every 6 months assuming average residential use by a person of average weight and strength, above average technical aptitude, on a property matching average metropolitan specification. Intended use outside these guidelines could indicate the product is not suitable for intended use or may require more regular inspection or servicing.
- Ensure all possible users of the product have completed an industry recognized training course before being given access to the product.
- The product has been supplied by a general merchandise retailer that may not be familiar with your specific application or your description of the application. Be sure to attain third-party approval for your application from a qualified specialist before use regardless of prior assurances by the retailer or its representatives.
- This product is not intended for use where fail-safe operation is required. As with any product (take an automobile, aircraft, computer or ball point pen for example), there is always a small chance of technical issues that needs to be repaired or may require replacement of the product or a part. If the possibility of such failure and the associated time it takes to rectify could in any situation inconvenience the user, business or employee then the product is not suitable for your requirements. This product is not for use where incorrect operation or a failure of any kind, including but not limited to a condition requiring product return, replacement, service by a technician or replacement of parts could cause a financial loss, loss of employee time or an inconvenience requiring compensation.
- If this item has been purchased in error after considering the points above, simply contact the retailer directly for details of their returns policy, if required.



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