

UNIMAC



12V Adjustable Torque 1/2" Drive Impact Wrench / Rattle Gun

User Manual

[Revision 2.0 October 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 12VDC power supply (vehicle battery etc).
- 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	5	12VDC Electrical Cable / Vehicle Adaptor
2	Drive Pin	6	Battery Connection Adaptor
3	Trigger / Forward / Reverse Selector	7	17 / 19mm Socket
4	Torque Setting Controls	8	21 / 23mm Socket

Electrical Connection



The electrical supply MUST be 12VDC. • The connected battery must be sufficiently charged for correct tool operation.

12V Vehicle Adaptor

1. Plug the tool 12VDC vehicle adaptor to a suitable vehicle outlet connector (for example, cigarette lighter). On some vehicles, the ignition may need to be set to "on" or "accessories" etc for power to be available at the vehicle outlet connection.

Direct Battery Connection

1. Attach the battery connection adaptor cable **RED POSITIVE ("+"**) battery terminal clamp to the **POSITIVE ("+"**) battery terminal.
2. Attach the battery connection adaptor cable **BLACK NEGATIVE (" -")** battery terminal clamp to the **NEGATIVE (" -")** battery terminal.
3. Plug the tool 12VDC vehicle adaptor into the battery connection adaptor cable adaptor socket .

Operation



Fully understand all operational [safety warnings](#) before using the tool. • Do NOT operate the tool continuously for more than 10 minutes. • 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).
Each socket has 2 sizes – reverse the direction of the socket when installing, as required.

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



Setting Torque



ALWAYS set the torque to the correct Nm value for the fastener. For vehicle fasteners, consult manufacturer instructions for correct torque values. • When the torque is set, the display may return to "000" although the set torque value remains. • Do NOT change torque value while the tool is running. • At next use, the tool will automatically apply the last used torque setting.

The tool features torque setting. When set, the tool will automatically disengage the drive pin when the fastener is at the set torque value. This helps prevent the possibility of over-tightening fasteners. The current torque value shows on the display (E).

- To increase torque, press (C) as required. Torque starts at 80Nm and increases by 10Nm for each press. Maximum torque is 340Nm.
- To decrease torque, press (D) as required. Torque decreases by 10Nm for each press. Minimum torque is 80Nm.
- To reset the tool to the factory default torque setting, press (C) and (D) simultaneously.



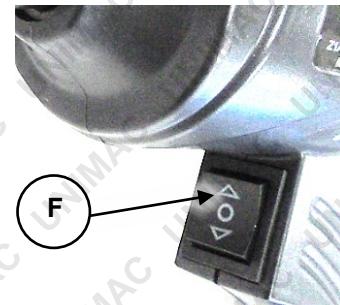
Selecting Direction



When the forward / reverse selector (C) is in the middle position, the trigger is "locked". • 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 the trigger (F) "▼" arrow.
- To rotate in reverse, push the trigger (F) "▲" arrow.



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 "end" to show on the display – 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

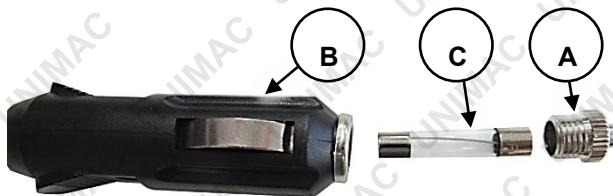


Disconnect the tool from the electrical supply before performing any maintenance. • The machine should be cool enough to touch before performing maintenance activities. • Some maintenance activities described may be beyond the scope of some users. For procedures that you are not comfortable with or have 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.

Fuse Replacement

The tool is fuse protected against motor damage if there is an excessive current draw. If the fuse is "blown", the tool cannot be used until the fuse is replaced:



1. Unscrew the terminal (A) of the cable 12VDC adaptor (B).
2. Remove the fuse (C) from the adaptor. If the filament in the fuse is broken, the fuse is "blown".
3. Insert the replacement fuse (15A) into the adaptor and screw the adaptor terminal back on.

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.



Fuse blown	Replace the fuse.
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Fasteners too tight or not tight enough.

Possible Fault	Action
Incorrect torque setting	Ensure torque setting is correct, and wait for "end" to display to ensure set torque is reached.

Specifications

Electrical Requirements	12VDC
Drive Pin Size	1/2" Square Drive
Torque Range	80 to 340 Nm
Fuse	15A Automotive "Cartridge" Type



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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