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If applicable, the applications database and any instructional information provided has been designed to offer general guidance for a particular tool's use and while all attention is given to the accuracy of the data no project should be attempted without referring first to the manufacturer's technical documentation (workshop or instruction manual) or the use of a recognised authority such as Autodata.

It is our policy to continually improve our products and thus we reserve the right to alter specifications and components without prior notice. It is the responsibility of the user to ensure the suitability of the tools and information prior to their use.

7681_Instructions_V3

Guarantee

If this product fails through faulty materials or workmanship, contact our service department direct on: **+44 (0) 1926 818186**. Normal wear and tear are excluded as are consumable items and abuse.

**TOOL
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The Complete Connection

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LASER®

7681

Mini Air Impact Wrench

1/2"D - Super Light



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Mini Air Impact Wrench 1/2"D - Super light

Weighing just 1.4kg, the Laser Tools 7681 1/2" Drive impact wrench is a light, compact but powerful air tool that is powered from the workshop compressed air supply (recommended pressure 90psi at the tool). Suitable for automotive workshop applications. Three-position adjustable speed/torque control and forward and reverse selection. Weight for the size of the tool offers excellent power and performance. The handle exhaust reduces noise output and the grip handle gives added comfort and control.

A useful feature is the ability to lubricate the tool (with black molybdenum disulphide grease only) via the grease hole at the base of the 1/2" Drive anvil (see page 5).

Components

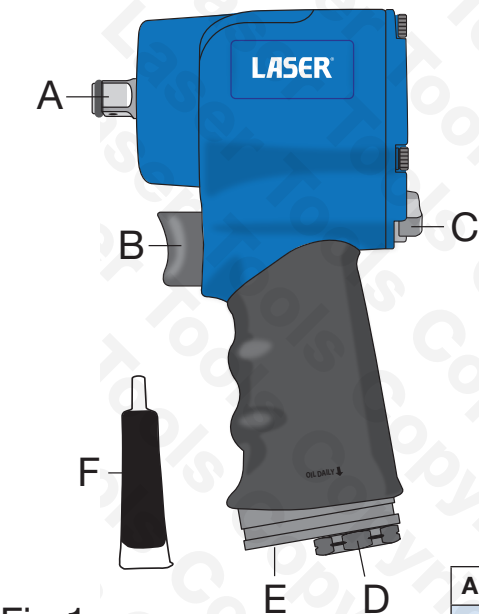


Fig 1

A	1/2" Drive
B	Trigger
C	Speed control & forward/reverse selector
D	Air inlet
E	Air exhaust outlet
F	Grease (consumable)

Safety Precautions

- **Eye and face protection** plus heavy work gloves and suitable work clothing **must be used**. **Never** wear loose clothing or jewellery that could be trapped by moving parts.
- **Noise hazard:** unprotected exposure to high noise levels can cause hearing loss and tinnitus (ringing or buzzing in the ears). **Wear suitable ear protection** as required by occupational health and safety regulations.
- **Vibration hazard:** exposure to vibration can cause damage to nerves and blood supply of the hands and arms. If you experience numbness, tingling, pain or whitening of the skin in fingers or hands, stop using the tool immediately.
- Do not exceed the maximum pressure for the tool of 90psi (6.2 bar).
- Use only **impact-grade** sockets — **do not use** standard sockets.
- Do not attempt to remove or change a socket or attachment until the tool has been disconnected from the compressed air supply.
- Always finish tightening (for example) wheel nuts or engine parts with a torque wrench to the correct torque specification as recommended by the vehicle manufacturer.
- Always disconnect the air supply when the wrench is not required for immediate use (to avoid accidental starting).
- **Do not use the tool** if it is damaged or appears to be faulty.
- Never carry an air tool by the hose. Never carry the tool with your finger on the trigger.
- Keep the instrument clean and well-maintained. Store in safe, dry area when not in use.
- Refer to Compressed Air Supply notes above — the tool must be connected to a suitable, clean, dry and lubricated workshop air supply. A build-up of moisture or oil in the air compressor will accelerate wear and corrosion in the tool; ensure that the compressor tank is drained daily and all filters in the system regularly drained and cleaned.
- The workshop air hose must be rated at least 150% of the maximum operating pressure of the tool.
- Check air hoses for leaks, damage or wear before use and ensure that all connections are secure.



Specifications

Drive	1/2" square drive
Weight	1.4kg
Free (no load) speed	9000 RPM
Working torque	244-542 Nm
Maximum torque:	949 Nm
Air inlet:	1/4" BSP
Average air consumption	7.4 cfm
Recommended hose size	10mm
Vibration	2.8m/s²
Noise	94dB
Maximum air pressure	90psi (6.2 bar)

(Please note that the specifications and details listed above are correct at the time of going to print.)

Compressed Air Supply

Refer to **Figure 2**: Quick-change couplings should not be used at the tool air inlet. They add weight and could fail due to vibration and hammer action. We recommend connecting a leader hose to the wrench. A quick change coupling may then be used to connect the leader hose to the workshop compressed air line. The Laser Tools High Vis Air Line Whip/Leader Hose, 600mm x 10mm (part number 4834) is designed for this purpose.

The tool must be connected to a suitable, clean, dry and lubricated workshop air supply (refer to **Figure 3**, this is the recommended workshop air supply procedure). It is recommended that the air pressure measures 90psi at the tool while running free. Water in the air line will damage the tool. Drain the air tank daily and drain any dryer/filter unit when necessary.

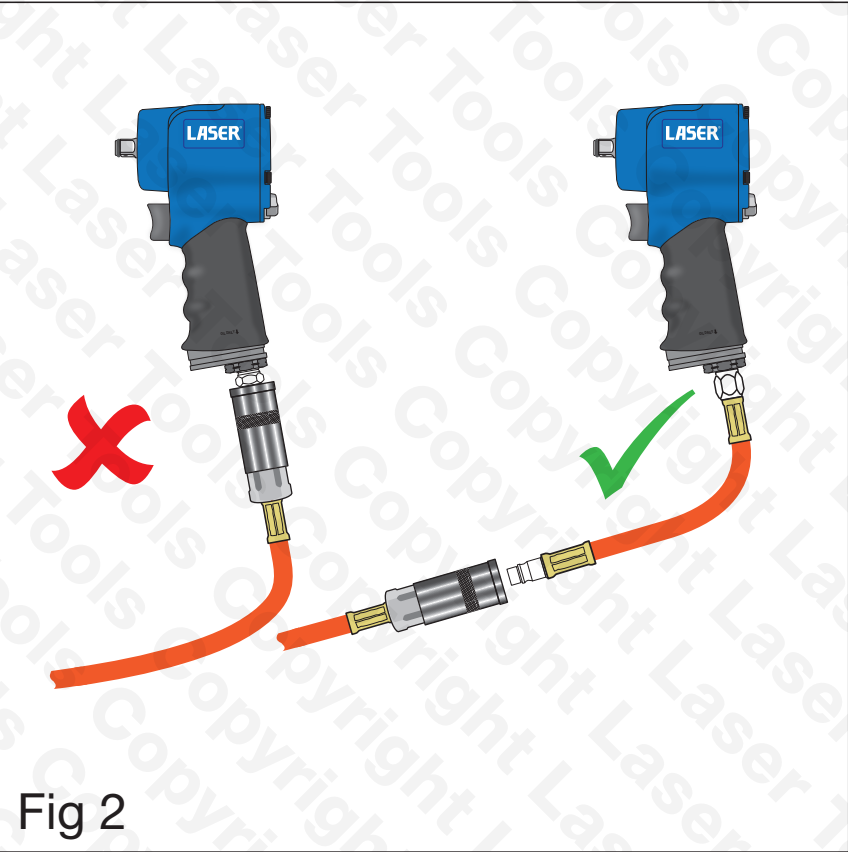


Fig 2

Lubrication: For first use of the tool, add a few drops of light machine oil to the compressed air line connection. In use, if an in-line oiler is not installed, add a few drops of light machine oil daily. Adequate lubrication will help to ensure long tool service life.

When tool is not in use, disconnect from compressed air supply.

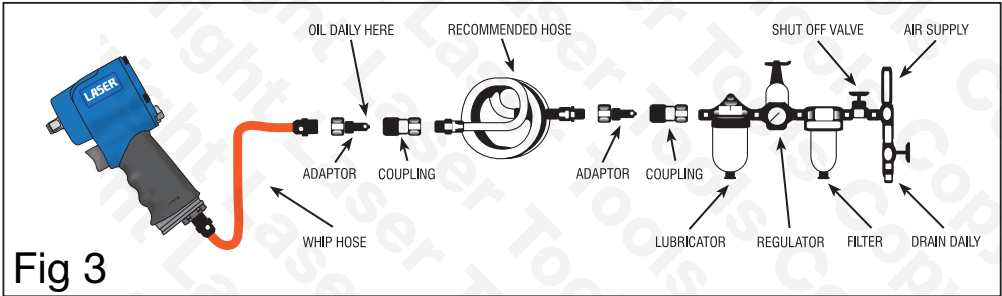


Fig 3

Operation

Regulating the speed and direction:
Refer to **Figure 4**: the speed (power) and direction (forward or reverse) are easily adjusted by turning the speed control and forward/reverse selector (**C**) at the rear of the tool.

- Please read all of the safety and operating precautions before using the tool.
- Squeeze the trigger (**B** in **Figure 1**) to start the wrench.

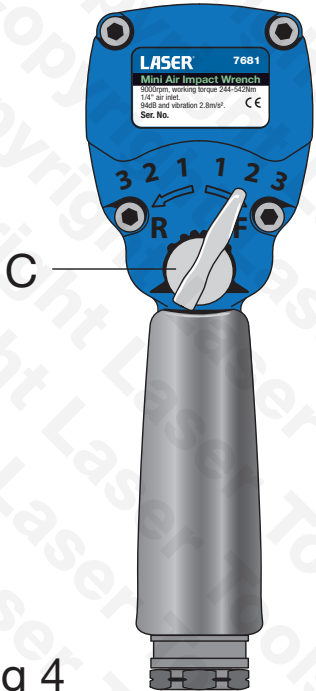


Fig 4



Lubrication

Refer to **Figure 5**: periodically lubricate the tool via the grease holes at the base of the 1/2" drive anvil. **Note: only use black molybdenum disulphide grease.**

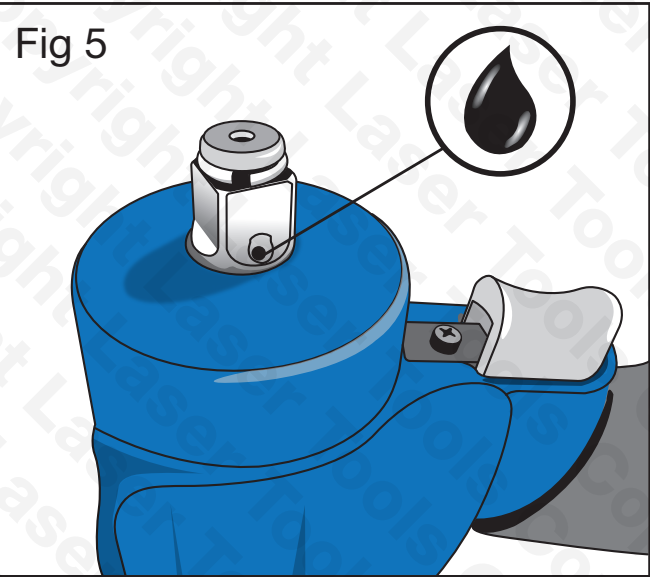


Fig 5