

Original Instructions Version 2 – April 2025

68 PIECE

AIR TOOL KIT

83431





1. Preface

These are the original product instructions. This document is part of the product; retain it for the life of the product, passing it on to subsequent holders. Read this manual in full before attempting to assemble, operate, or maintain this product.

This Draper Tools manual describes the purpose of the product and contains all the necessary information to ensure its correct and safe use. Following all the instructions and guidance in this manual will ensure the safety of both the product and the operator and increase the lifespan of the product.

All photographs and drawings within this manual are supplied by Draper Tools to help illustrate correct operation of the product.

Every effort has been made to ensure the information contained in this manual is accurate. However, Draper Tools reserves the right to amend this document without prior warning. Always use the latest version of the product manual.

1.1 Product Reference

User Manual for: 68 Piece Air Tool Kit

Stock No: 83431 Part No: DAT-ATK68

1.2 Revisions

Version 1: July 2019

First release

Version 3: April 2025

As our manuals are continually updated, always ensure that the latest version is used.

Download the latest version from:

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1.3 Understanding the Safety Content of This Manual



WARNING! - Situations or actions that may result in personal injury or death.



CAUTION! – Situations or actions that may result $oldsymbol{\lambda}$ in damage to the product or surroundings.

ATTENTION - Situations or actions that may result in damage to the product or surroundings.

Important: - Information or instructions of particular importance.

1.4 Copyright © Notice

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3. Product Introduction

3.1 Intended Use

This air tool kit is designed for a range of workshop essential applications. The kit consists of an impact wrench, die grinder, reversible ratchet and hammer along with a host of specialist accessories.

Any other application beyond the conditions established for use will be considered misuse. Draper Tools accepts no responsibility for improper use of this product.

Read this manual in full before attempting to assemble, operate or maintain the product, and retain it for later use.

3.2 Specification

| Stock No.: | 83431 |
|------------|-----------|
| Part No.: | DAT-ATK68 |

| | Reversible Ratchet | Wrench |
|--|---------------------|---------------------|
| Square drive: | 3/8" | 1/2" |
| Maximum torque: | 90Nm/66ft-lb | 340Nm/250ft-lb |
| Maximum operating air pressure: | 90psi (6.2bar) | 90psi (6.2bar) |
| Average air consumption: | 141L/Min (5cfm) | 113L/Min (4cfm) |
| Speed (no load): | 160rpm | 7,500rpm |
| Maximum air line size (Internal diameter): | 3/8" (10mm) | 3/8" (10mm) |
| Air Inlet: | 1/4" BSP | 1/4" BSP |
| Noise emissions: | | |
| Sound pressure level: | 94dB (A) | 87dB (A) |
| Sound power level: | 105dB (A) | 98dB (A) |
| Vibration level: | 2.6M/S ² | 3.3M/S ² |
| Net weight (air tool only): | 1.4kg | 1.8kg |

| | Hammer |
|--|--------------------|
| Chisel shank opening: | 10mm (0.401") |
| Blows per minute: | 4500 |
| Stroke length: | 43mm |
| Maximum operating air pressure: | 90psi (6.2bar) |
| Average air consumption: | 113L/Min (4cfm) |
| Maximum air line size (Internal diameter): | 3/8" (10mm) |
| Air Inlet: | 1/4" BSP |
| Noise emissions: | |
| Sound pressure level: | 95dB (A) |
| Sound power level: | 106dB (A) |
| Vibration level: | 20M/S ² |
| Net weight: | 1.1kg |

| | Straight Die Grinder |
|--|----------------------|
| Collet size (max): | 6mm |
| Offset: | 0° |
| Speed (No load): | 25,000rpm |
| Maximum operating air pressure: | 90psi (6.2bar) |
| Average air consumption: | 113L/Min (4cfm) |
| Maximum air line size (Internal diameter): | 3/8" (10mm) |
| Air Inlet: | 1/4" BSP |
| Noise emissions: | |
| Sound pressure level: | 97dB (A) |
| Sound power level: | 108dB (A) |
| Vibration level: | 0.9M/S ² |
| Net weight: | 0.35kg |

Important: The declared vibration total values and noise emissions values have been measured in accordance with a standard test method and may be used for comparing one tool with another. These values may also be used in a preliminary assessment of exposure.



WARNING! The vibration and noise emissions during actual use of the product can differ from the declared values depending on the type of work and the area upon which it is used. Before each use, estimate the likely exposure resulting from the actual conditions of use. Take into account all parts of the operation cycle in order to identify any safety measures required to protect the operator.

4. Health and Safety Information

Important: Read all the Health and Safety instructions before attempting to operate, change accessories, maintain or repair this product. Failure to follow these instructions may result in injury or damage to the user, the product or the workpiece.

4.1 General Health and Safety **Precautions for Air Tools**

- Only qualified and trained operators should use or adjust the air tool.
- **DO NOT** modify this tool. Modifications can reduce the effectiveness of safety measures and increase the risks to the operator.
- Retain the safety instructions for future reference and use by the operator.
- **DO NOT** use the tool if it has been damaged.
- Inspect the tool periodically to verify that the ratings and markings required are attached and legible.

- Keep bystanders away during operation.
- Disconnect the tool from the energy supply before changing the inserted tool or accessory.
- Direct the exhaust port away from yourself and to minimise disturbance of dust in the work area.
- **ALWAYS** wear appropriate personal protective equipment (PPE). Personal protective safety glasses and dust mask shall be used; suitable gloves and protective clothing are recommended.
- For overhead work, wear a safety helmet.
- Keep loose clothing, hands, hair etc. away from the rotating parts of the tool and accessories.
- Have your tool serviced by a qualified repair person using only identical replacement parts.
- Release the start and stop device in the case of an interruption of the energy supply.

4. Health and Safety Information

- Only use lubricants recommended by the manufacturer.
- Use only sizes and types of accessories and consumables that are recommended by the tool manufacturer.
- Unexpected direction of inserted tool movement can cause a hazardous situation.
- Adopt a suitable posture to counteract normal or unexpected movement due to reaction forces from the tool.
- The tool is not intended for use in potentially explosive atmospheres and is not insulated against coming into contact with electric power.
 - Ensure there are no electrical cables, gas pipes, etc., that can cause a hazard if damaged by use of the tool.

Noise Hazards

- Exposure to high noise levels can cause permanent hearing loss and other problems. Perform a risk assessment and implement any appropriate controls for identified hazards before performing any operation.
- Use appropriate hearing protection in accordance with local occupational health and safety regulations.
- Operate and maintain the tool appropriately to prevent unnecessary increase in noise emissions.

Vibration Hazards

- Exposure to vibration can cause disabling damage to the nerves and blood supply of the hands and
- Wear warm clothing when working in cold conditions and keep your hands warm and dry.
- If you experience numbness, tingling, pain or whitening of the skin in your fingers or hands, stop using the tool and consult a qualified health professional.
- Operate and maintain the tool appropriately to prevent unnecessary increase in vibration emissions.
- The risks from vibration hazards are increased when grip force on the tool is higher. - Hold the tool with a light but safe grip, keeping in mind that your grip may need to be altered to react to unexpected forces.

4.2 Additional Safety Instructions for **Compressed Air**



WARNING! Compressed air can cause severe 🖳 injury.

- **ALWAYS** turn off and disconnect the air supply before changing accessories, making any
- adjustments to the product or leaving it unattended.
- **NEVER** direct this product towards yourself or
- Ensure that compressed air is not blocked by or in contact with any part of your body.
- **ONLY** use clean, dry and regulated compressed air.



WARNING! NEVER use oxygen, combustible gases or other bottled gases as a supply for this product. Use of these substances may cause the product to explode.

Draper Tools recommends the use of a whip hose between the tool and the air supply to reduce vibration.



WARNING! Whipping hoses can cause severe iniury. Always check for and replace damaged or loose hoses and fittings.

- Ensure that the product is compatible with the air supply before use.
- Ensure all connections are securely tightened.
- Where universal twist couplings (claw couplings) are used, lock pins must be installed and whip check safety cables must be used to safeguard against possible hose-to-tool or hose-to-hose failure.
- **DO NOT** exceed the maximum stated air pressure.
- The use of an inline water separator, lubricator and pressure regulator should be used to control the pressure of the air being supplied to the tool.
- **DO NOT** obstruct the ability of the trigger to release once depressed.
- **NEVER** carry the tool by the air line.

4.3 Additional Safety Instructions for Air **Ratchets and Impact Wrenches**



WARNING!

There is a risk of crushing by torque between a reaction bar and the workpiece.

4. Health and Safety Information



- Keep loose clothing, hair etc. away from the rotating spindle of the impact socket.
- NEVER hold by the drive or socket.
- To avoid injury to hands, keep them away from the impact socket especially in confined spaces.
- Failure of the workpiece, accessories or even of the inserted socket itself can generate high-velocity projectiles.
- ALWAYS wear impact-resistant eye protection during the operation of the ratchet/wrench. The grade of protection required should be assessed for each use.
- Ensure that the workpiece is securely fixed.
- DO NOT touch sockets or accessories during impacting, as this increases the risk of cuts, burns or vibration injuries.
- Use only impact sockets and adaptors which are in good condition and are intended for use with this tool.
- Ratchets are not torque wrenches and are not designed or capable of installing fasteners to a specified torque. For fasteners requiring a specific torque, install the fastener to well below the required value then complete the task with a hand torque wrench to avoid damaging the fastener or workpiece.
- Ensure the drive is correctly maintained and if damaged or missing, is replaced immediately before work commences. Missing or damaged drives may lead to sockets detaching while rotating at high speed.
- Only use accessories specifically designed and hardened for impact use. DO NOT use standard chrome type hand tool sockets as they may shatter and splinter.
- When starting or finishing the removal and installation of fasteners there is a risk of crushing between the tool and the workpiece due to sudden movement or reaction forces.

4.4 Additional Safety Instructions for Air Die Grinders

- Be aware that failure of the workpiece or accessories, or even of the inserted tool itself can generate high-velocity projectiles.
- Always wear impact-resistant eye protection during operation of the die grinder or when changing accessories on the tool. The grade of protection required should be assessed for each use.

- · Ensure that the workpiece is securely fixed.
- Check regularly that the speed of the die grinder is not higher than that marked on it. These speed checks shall be carried out without the abrasive product mounted and in accordance with the instructions given by the manufacturer.
- Ensure that sparks and debris resulting from use do not create a hazard.
- Disconnect the grinder from the energy supply before changing abrasive product and servicing.
- Avoid contact with the rotating spindle and inserted tool to prevent cutting of hands and other body parts.
- Working with certain materials creates dust and fumes, causing a fire or potential explosive environment.
- Hold the tool correctly; be ready to counteract normal or sudden movements and have both hands available. Maintain a balanced body position and secure footing.
- Be aware that there is a running-on of the rotary inserted tool after the start-and-stop device has been released.
- While using a die grinder, the operator should adopt a comfortable posture whilst maintaining a secure footing and avoiding awkward or off-balance postures. The operator should change posture during extended tasks; this can help avoid discomfort and fatigue.
- Use only sizes and types of accessories and consumables that are recommended by the die grinder manufacturer; do not use other types or sizes of accessories or consumables.
- Avoid direct contact with the inserted tool during and after use as it can be hot or sharp.
- The maximum operating speed of the inserted tool shall equal or exceed the rated speed marked on the tool
- NEVER mount a grinding wheel, cut-off wheel or router cutter on a die grinder. A grinding wheel that bursts can cause very serious injury or death.
- DO NOT use mounted wheels which are chipped or cracked, or which could have been dropped.
- Use only permitted inserted tools of the correct shaft diameter.

4. Health and Safety Information

- Pay attention to the fact that the permitted speed of the mounted point must be lowered due to the increase of the length of the shaft between the end of the collet and the mounted point (overhang). Make sure that the minimum gripping length of 10 mm is observed.
- Be aware of the risk of mismatching the diameter of the shaft of the mounted point and that of the collet.

4.5 Additional Safety Instructions for **Air Hammers**

WARNING!

- **DO NOT** switch the hammer on while the chisel is in contact with the workpiece.
- There is a risk of loose clothing, hair etc., being caught in the tool.
- To avoid injury, keep hands way from the air hammer chisel.

- There is a risk of danger to persons from high speed splinters being emitted from the air hammer.
- Only use accessories specifically hardened for impact
- **NEVER** use any chisel as a hand-struck tool. They are specifically designed and heat-treated for use only in hammer power tools.
- **NEVER** use blunt chisels, as they require excessive pressure and can break from fatigue. Blunt toolpieces can increase vibration and, therefore, sharp tools should always be used.

4.6 Residual Risk

The safety instructions in this manual cannot account for all possible conditions and situations that may occur. Exercise common sense and caution when using this product and protect against any additional conceivable risks.

5. Identification and Unpacking

5.1 Packaging

Keep the product packaging for the duration of the warranty period for reference should the product need to be returned for repair.

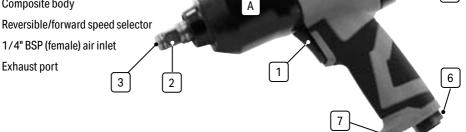
WARNING! Keep packaging materials out of reach of children. Dispose of packaging correctly and responsibly and in accordance with local regulations.

Impact Wrench A Variable speed trigger Anvil Anvil ring Composite body

1/4" BSP (female) air inlet

5.2 Product Overview

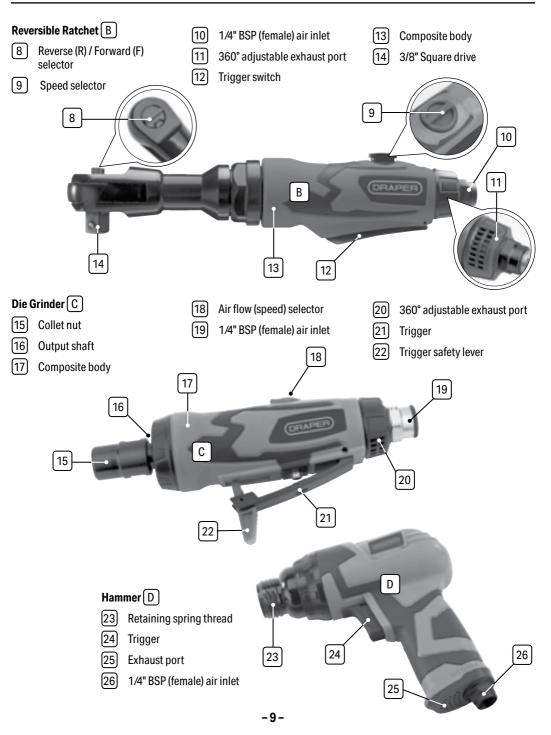
Exhaust port



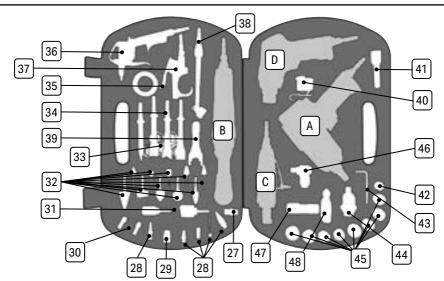
Please visit **drapertools.com** for our full range of accessories and consumables.

5. Identification and Unpacking





5. Identification and Unpacking



A Impact Wrench



B 27.1×1/4" Double male hose connector



C Die Grinder



- 27 1×1/4" Double male hose connector
- 5 × Nozzles 3/8" Rubber, Tapered, Inflating, High Pressure & Safety

- 29 1×1/4" Male & Female hose connector __
- 30 2 × Collets (1/4", 1/8")
- 31 2 × Sanding drums (3/4" & 1")
- 32 10 × Mounted Grinding Stones (5 × 6mm & 5 × 3mm)
- 33 10 × Sanding drum sleeves (5 × 3/4" & 5 × 1")
- 34) 4 × 120mm Round shank chisels
- [35] 1 × PTFE Tape
- [36] 1 × Air duster
- [37] 1 × Air blow gun
- 38 1 × Tyre chuck

- 39) 2×Spanners
- 40 1 × Chisel retainer spring
- 1 × 1/2"/75mm Extension bar
- 42) 1 × socket adaptor - 3/8" (F) & 1/2" (M)
- 43 1 × 4mm Hex key
- [44] 1 × Mini oiler
- 8 × Impact sockets (12,13,17 & 19mm, 1/2", 9/16", 5/8" & 11/16")
- 46 1×Swivel connector
- [47] 1 × 1/4" Female coupler
- 48 1×0il pot
- 7 × Male air line connectors (supplied attached to tools)



Important: Before preparing or adjusting this product, read and understand all the safety instructions listed in this manual.

6.1 Preparing the Air Supply for Use (Fig.1)

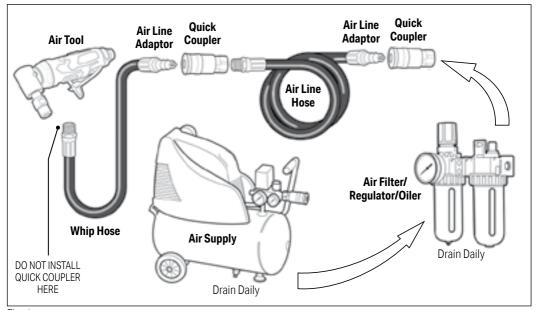


Fig. 1

- This air tool operates at a max. pressure of 6.2bar (90psi).
- ISO grade 22–32 (SAE grade 5W–15W) monograde oil should be used in this air tool.
- During use, the oil must be constantly supplied to the equipment to ensure complete lubrication and optimum performance.
- The compressed air system must be controlled by a combination pressure regulator, in-line lubricator and moisture filter. This will ensure a constant supply of dry air at all times, provided it is properly maintained.
 - **Important:** Always check the machine operating pressure before use.
- Water in the compressor tank may cause considerable corrosion to air tools; the compressor should be drained daily to avoid excessive water in the air supply. Dirty or wet air can significantly shorten the lifespan of the product.

 When using an air tool with a hose over 25ft long, Draper Tools recommends increasing the bore of the hose to the next largest available size (i.e. increase 3/8" to 1/2"). This will ensure adequate pressure and volume of air to power the tool.

6. Preparation Instructions

6.2 Connection to the Air Supply (Figs.2 – 3)

Important: Always disconnect from the air supply before assembling, carrying out adjustments, servicing or maintenance.

To connect the air tool to an air line, a 1/4" BSP male thread whip hose E will be required.

 Wind a length of PTFE tape (35) around the thread of the whip hose.

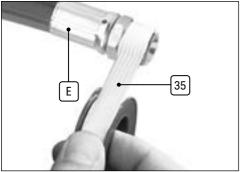


Fig. 2

 Remove the bung from the air inlet F and attach the hose via the 1/4" BSP air inlet. The connection must be tight for an airtight union.

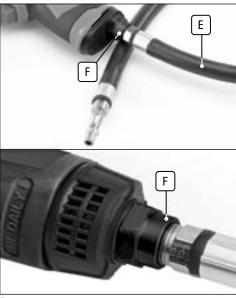


Fig. 3

7. Operating Instructions

Important: Before operating this product, read and understand all the safety instructions listed in this manual and the air line is connected correctly.

Note:

- Before connecting the tool to the air supply reduce the line pressure according to the specification.
- Before tool operation and work commences, ensure the compressor reservoir is drained of condensate along with all connected air lines.
 Check and drain the air line regulator's water trap and fill up the lubrication reservoir.

7.1 Impact Wrench A

Trigger Switch

- 1. Confirm direction of rotation before starting the tool.
- Squeeze the variable speed trigger 1 to operate the impact wrench.

- 3. Release the trigger to stop the wrench.
 - The anvil and accessory will continue to rotate briefly after the trigger is released.

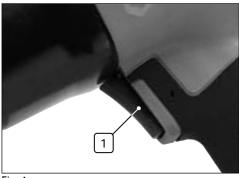


Fig. 4

7. Operating Instructions

EN

Forward/Reverse Speed Selection

- The impact wrench has three forward speeds and two reverse speeds.
- Turn the selector 5 to engage the direction and speed appropriate for the application.

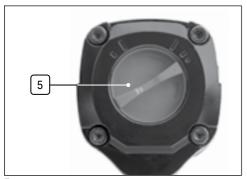


Fig. 5

Anvil

- Ensure the socket is located correctly on the anvil 2 and firmly engaged on the anvil ring 3.
- Note: It is natural for the socket to resist removal.

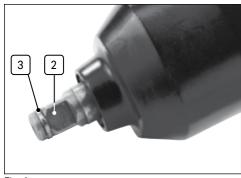


Fig. 6

7.2 Reversible Ratchet B

Trigger Switch

- 1. Confirm direction of rotation before starting the tool.
- 2. Squeeze the trigger 12 to operate the air ratchet.
- 3. Release the trigger to stop the ratchet.

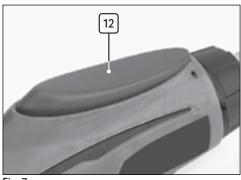


Fig. 7

Forward/Reverse Selector

 Rotate the selector 8 anti-clockwise to select forward (F) or clockwise for reverse (R) operation.

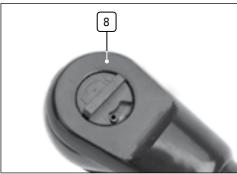


Fig. 8

Speed Selector

 Turn the selector 9 between (-) and (+) to choose the most appropriate speed for the application.

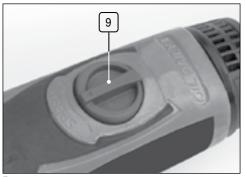


Fig. 9

7. Operating Instructions

Square Drive

 Ensure the socket is located correctly and firmly engaged on the square drive [14].

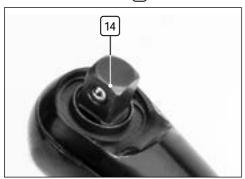


Fig. 10

Exhaust Port

 Adjust the exhaust port [11] away from yourself and ensure it does not disturb any dust in close proximity.

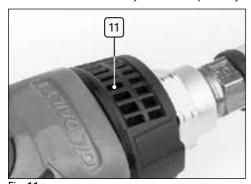


Fig. 11

7.3 Die Grinder ©



WARNING!

- Select the grinding point appropriate for the application, speed rated to the die grinder and with the correct shaft diameter for the collet.
- Inspect the grinding point before use. **DO NOT** use chipped, cracked or damaged items.
- NEVER attempt to install cutting off wheels or router bits.
- NEVER tighten the collet nut without a tool inserted as damage will occur. Before storage remove inserted tool to prevent distortion of the collet.

Tool insertion

- Hold the output shaft (16) with the smaller spanner
 and loosen the collet nut (15) with the larger spanner.
- 2. Insert the grinding point shaft observing the minimum gripping length of 10mm.
- 3. Secure the grinding point by tightening the collect nut fully.

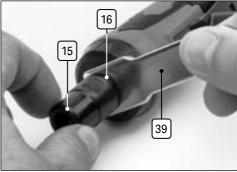


Fig. 12

Trigger Switch

- To prevent unintentional starting, the die grinder requires two separate actions to operate the tool.
- Push the trigger safety lever (22) forward to release. This then allows the trigger (21) to be pushed towards the body of the grinder.

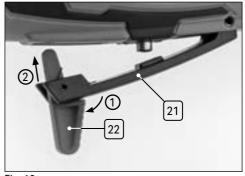


Fig. 13

7. Operating Instructions

Air Flow (Speed) Selector

- 1. Rotate the speed selector 18 to adjust the speed to the most appropriate for the application.
- 2. Rotate clockwise (+) to increase and anti-clockwise (-) to decrease the air flow/speed.



Fig. 14

Exhaust Port

Adjust the exhaust port [20] away from yourself and ensure it does not disturb any dust in close proximity.

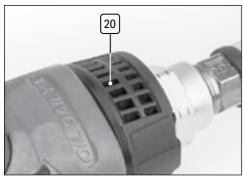


Fig. 15

7.4 Air Hammer D

Attaching Chisel

- 1. Attach the retaining spring 40 to the thread 23 and rotate clockwise to secure.
- 2. Then insert a chisel 34 using the hooked end of the spring to hold the chisel in place.

4 × Chisels supplied:

- Spot weld splitter
- Rivet cutter
- Panel cutter
- **Bush splitter**

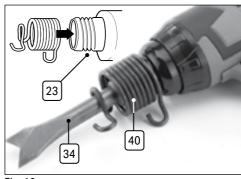
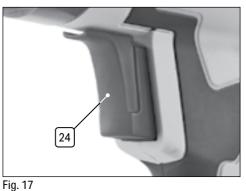


Fig. 16

Trigger Switch

- Squeeze the trigger [24] to operate the hammer.
- Release the trigger to stop the hammer.



8. Maintenance and Troubleshooting

<u>^</u>

WARNING!

- Disconnect from the air supply before carrying out any adjustments, servicing or maintenance.
- Never use any sockets or accessories that are not hardened for impact use.

8.1 Every-Day Maintenance Checks

Before connection to the air supply:

- Drain the compressor reservoir of condensate.
- · Drain the air lines of condensate.
- Drain the combined separator filter, regulator, water trap.

- Fill up the combined separator filter, regulator, lubricant reservoir.
- Check the line pressure is correct for the tool.

8.2 After Use Maintenance Checks

- Repeat the above procedures.
- Lubricate the tool with approximately 1.5ml of oil directly down the air inlet.
- When not in use store in a dry clean place out of the reach of children.

8.3 Troubleshooting

| Problem | Possible cause | Remedy |
|-----------------------------|---|---|
| Tool will not operate. | Motor or throttle seized with dirt. | Check for dirt in air inlet. Pour air tool lubricating oil into air inlet. Operate trigger in short bursts. Disconnect air line supply, then turn rotating drive by hand. Reconnect air supply. If motor fails to turn, contact the Draper Tools product helpline for advice. |
| Tool runs slowly. | Motor parts jammed with dirt. Power regulator in closed position. Air flow blocked. | Check air inlet filter for blockages. Pour air tool lubricating oil into air inlet. Operate trigger in short bursts. |
| Tool loses power under load | Motor parts worn. Cam clutch worn or stuck due to lack of lubricant. | Lubricate clutch housing. Check for excess clutch oil. Do not overfill – clutch case should only be half full. |
| Tool will not shut off. | Throttle valve 'O' ring broken or unseated. Throttle valve bent or jammed with dirt | Replace 'O' ring. Lubricate trigger with air tool oil. If problem remains contact Draper Tools for advice. |

8. Maintenance and Troubleshooting



| Problem | Possible cause | cause Remedy | |
|---------------------------------|--|--|--|
| Sockets will not stay on anvil. | Anvil ring worn or damaged. | Replace anvil ring. | |
| Drive shank worn. | Worn sockets. Using conventional chrome plated sockets. | ONLY use high quality impact sockets. Chrome plated sockets can shatter and cause injury and damage to the tool. | |

9. Spares, Returns and Disposal

For spare parts, servicing, and repair and replacement options, please contact the Draper Tools Product Helpline for details of your nearest authorised agent.

Draper Tools will endeavour to hold any spare parts, if applicable, for seven years from the date that it sells the final matching stock item.

Any servicing or repairs carried out by unauthorised personnel or installation of spare parts not supplied by Draper Tools will invalidate your warranty.

At the end of its working life, dispose of the product responsibly and in line with local regulations. Recycle where possible.

10. Warranty

6 months from date of purchase – Visit drapertools.com/warranty for more information. However, if the tools are hired out, the warranty period is 90 days from the date of purchase.

Draper Tools Limited





Read the instruction manual.



Wear ear defenders and safety glasses



Wear protective gloves



Long and loose hair must be contained or securely tied back



Warning!



Warning! Risk of crushing



Keep out of the reach of children



Direction of rotation



European conformity.



UK Conformity Assessed.

Contact Details

Draper Tools Limited

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Website: drapertools.com **Email:** sales@drapertools.com

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Please contact the Draper Tools Product Helpline for repair and servicing enquiries.