



EN

Original Instructions
Version 3 – April 2025

AIR DRILL

65138



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: Air Drill

Stock No: 65138

Part No: DAT-RAD38

1.2 Revisions

Version 1: July 2019
First release

Version 2: June 2022

Version 3: April 2025

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

Download the latest version from:
drapertools.com/manuals

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 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 drill is designed for drilling metal, plastic, wood and other similar materials. Fitted with a keyless chuck suitable for drill bits with shanks up to 10mm diameter.

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.: 65138
Part No.:	DAT-RAD38
Chuck Size:	10mm (3/8")
Maximum operating air pressure:	90psi (6.2bar)
Average air consumption:	113L/Min (4cfm)
Speed (no load):	1800rpm
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:	2.6M/S ²
Net weight:	920g

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.

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

- Only qualified and trained operators should use or adjust the ratchet for threaded fasteners.
- **DO NOT** modify this ratchet. 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.
- **ALWAYS** wear appropriate personal protective equipment (PPE). Personal protective safety glasses and dust mask shall be used; suitable gloves and protective clothing are recommended.
- Have your tool serviced by a qualified repair person using only identical replacement parts.

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 others.
- 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 injury. 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 Drills



WARNING!

- Be aware that the 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 the operation of the drill. The grade of protection required should be assessed for each use.
- Ensure that the workpiece is securely fixed.
- There is a risk of crushing by torque between the drill and the workpiece.
- Keep hands, loose clothing, hair etc. away from the rotating spindle of the power tool and accessories.
- Wear suitable gloves to protect hands.
- 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.
- High-reaction torque can be developed in the case of stalling, which can be caused by excessive loads being applied to the drill bit, by the drill bit snagging on the material being drilled into or by the drill bit breaking through the material being drilled.

4. Health and Safety Information

- Keep hands away from the rotating chuck and drill bit.
- When using a drill to perform work-related activities, the operator can experience discomfort in the hands, arms, shoulders, neck or other parts of the body.
- While using a drill, the operator should adopt a comfortable posture while maintaining a secure footing and avoiding awkward or off-balanced postures. The operator should change posture during extended tasks, which can help avoid discomfort and fatigue.
- Direct the exhaust so as to minimize disturbance of dust in a dust-filled environment.
- Where dust or fumes are created, the priority shall be to control them at the point of emission to avoid a hazard.
- Release the start and stop device in the case of an interruption of the energy supply.
- Only use lubricants recommended by the manufacturer.
- Disconnect the tool from the energy supply before changing the inserted tool or accessory.
- Use only sizes and types of accessories and consumables that are recommended by the tool manufacturer.
- Avoid direct contact with the inserted tool during and after use, as it can be hot or sharp.
- The drill 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 arms.

- 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 high. 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.

4.4 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.

5.1 Product Overview



- | | | |
|------------------------------------|-----------------------------|--|
| 1 Keyless chuck | 3 1/4" BSP air inlet | 5 Trigger switch |
| 2 Reverse/ Forward selector | 4 Exhaust port | 6 Air line coupling screw adaptor |

5.2 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.

Please visit [drapertools.com](https://www.drapertools.com) for our full range of accessories and consumables.

6. Preparation Instructions

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)

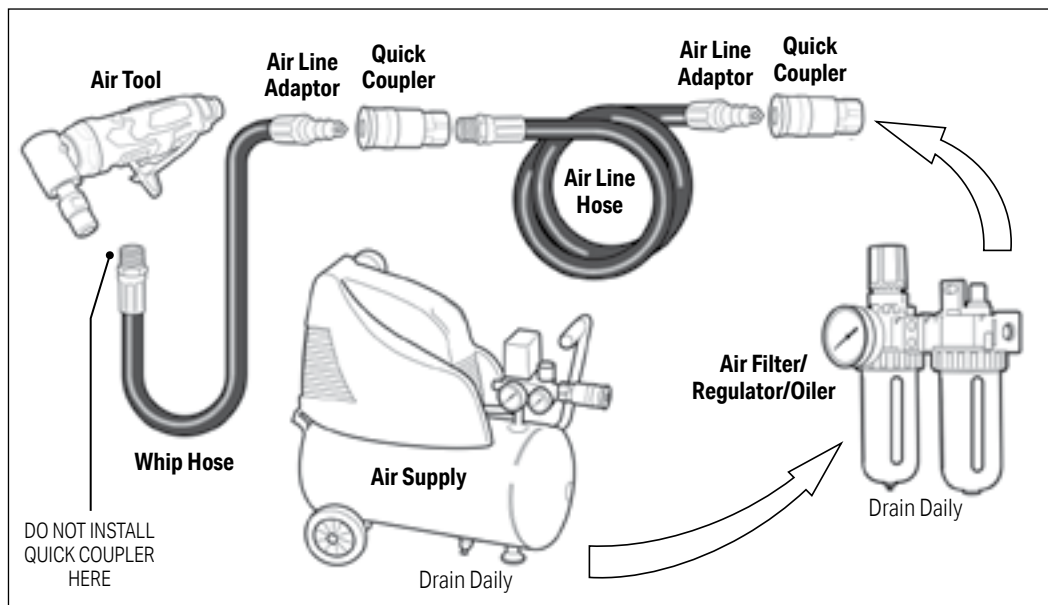


Fig. 1

- 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.

6.2 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 drill to an air line, a 1/4" BSP male thread whip hose (A) will be required.

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

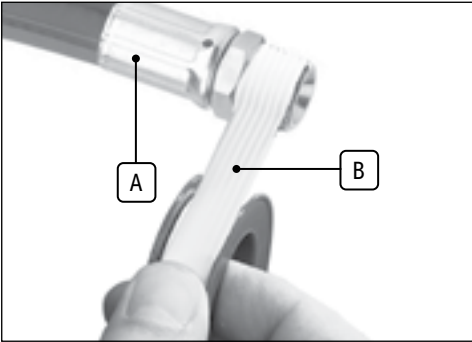


Fig. 2

- Remove the bung from the air inlet (3) and attach the hose via the 1/4" BSP air inlet (3). The connection must be tight for an airtight union.

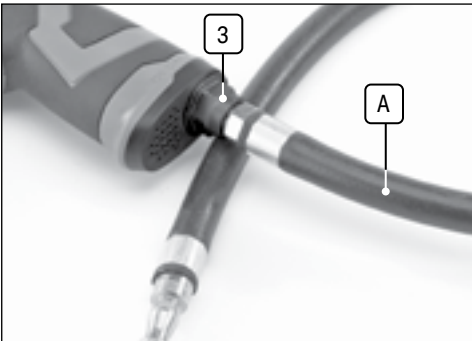


Fig. 3

7. Operating Instructions

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

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 Keyless Chuck (Fig.4)

- The keyless chuck secures the accessories in the jaw without the requirement for a separate key.
 - Select the correct accessory for the required application and ensure it is suitable, and speed is compatible with the drill.
1. Fit the required accessory into the chuck **1**.
 2. Hold the back of the chuck **1.1** and grip and rotate the chuck **1.2**.

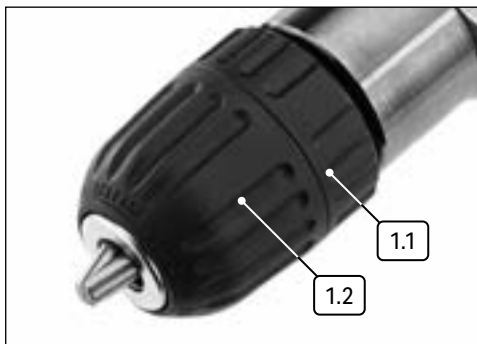


Fig. 4



WARNING! Before drilling, carefully check the surface for electrical cable, gas or water pipes and other dangerous or damaging contents. If unsure DO NOT proceed.

7.2 Trigger Switch (Fig.5)

1. Confirm direction of rotation prior to starting.
2. Squeeze trigger **5** to operate the drill.
3. Release the trigger to stop the drill.

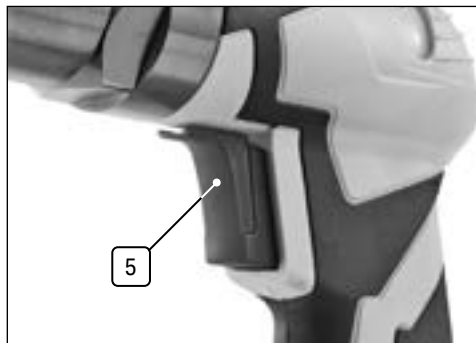


Fig. 5



CAUTION! Applying pressure on the tool as the drill bit breaks through can result in loss of control and injury.

7.3 Direction Control (Fig.6)

- Turn the switch **2** either towards the left or right to engage forward or reverse.

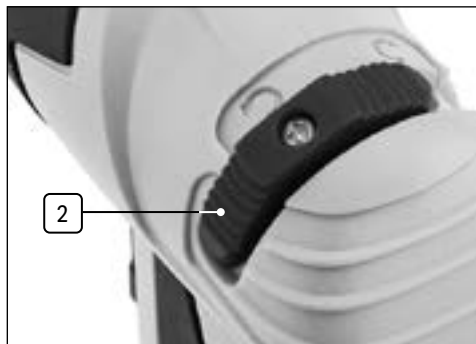


Fig. 6

7.4 Exhaust Port – Fig.7

- Ensure the exhaust port (4) is positioned away from yourself and it does not disturb any dust in close proximity.

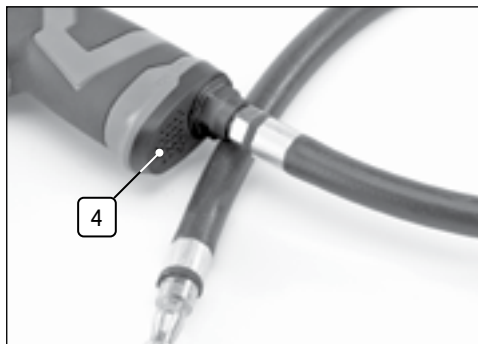


Fig. 7

7.5 Drill Usage

Dust And Swarf:

- Swarf produced by metal drilling is extremely sharp. Take precautions when clearing swarf.
- The burr left on the workpiece edge is also sharp and should be removed with a suitable tool.

Drilling Wood And Plastic:

- To prevent splitting around the drill holes on the reverse side, place a piece of scrap timber under the material to be drilled.

Drilling Metal:

- Metals such as sheet steel, aluminium and brass may be drilled. Mark the point to be drilled with a centre punch to help the drill bit tip to locate.
- A drop of oil on the cutting point will help aid penetration and prolong the life of the drill bit.

Screwdriving:

- To prevent slippage or damage to the screw head, match the screwdriver bit to the screw head size.
 - To remove screws, move the direction switch to the reversing position and apply pressure to the screw head and depress the trigger slowly.

8. Maintenance and Troubleshooting



WARNING!

- **Disconnect from the air supply before carrying out any adjustments, servicing or maintenance.**
- **Replace the bung in the end of the air line inlet 3 when the tool is disconnected from the air supply and before storing.**

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. • Air flows slightly from exhaust. • Spindle turns freely.	• 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 drill chuck by hand. Reconnect air supply. • If motor fails to turn, contact the Draper Tools product helpline for advice.
• Tool runs slowly. • Air flows slightly from exhaust.	• Rotor vane seized.	• Pour air tool lubricating oil into air inlet. • Operate trigger in short bursts. • Disconnect air supply, rotate drill by hand. Reconnect air supply. • If still not functional, contact the Draper Tools product helpline for advice.
• Spindle seized.	• Motor vane broken.	• Contact the Draper Tools product helpline for advice.
• Tool will not shut off.	• 'O' rings throttle valve dislodged from seat inlet valve.	• Replace 'O' ring or contact the Draper Tools product helpline for advice.

9. Spares, Returns and Disposal

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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](https://www.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

11. Explanation of Symbols



Read the instruction manual .



Wear ear defenders and safety glasses



Wear protective gloves



Warning!



Warning! Risk of crushing



Direction of rotation



European conformity.



UK Conformity Assessed.

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