



EN

Original Instructions
Version 2
August 2025

BUTTERFLY **AIR IMPACT WRENCH**

84120



**UK
CA** **CE**

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: Butterfly Air Impact Wrench

Stock No: 84120

Part No: DAT-BAIW

1.2 Revisions

Version 1: November 2017

First release

Version 2: August 2025

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

Please visit drapertools.com/manuals for the latest version of this manual and the associated parts list, if applicable.

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.

Important: – Information or instructions of particular importance.

1.4 Copyright © Notice

Copyright © Draper Tools Limited.

Permission is granted to reproduce this manual for personal and educational use **ONLY**. Commercial copying, redistribution, hiring or lending is strictly prohibited.

No part of this manual may be stored in a retrieval system or transmitted in any other form or means without written permission from Draper Tools Limited.

In all cases, this copyright notice must remain intact.

1. Preface	2
1.1 Product Reference	2
1.2 Revisions	2
1.3 Understanding the Safety Content of This Manual	2
1.4 Copyright © Notice	2
2. Contents	3
3. Product Introduction	4
3.1 Intended Use	4
3.2 Specification	4
4. Health and Safety Information	5
4.1 General Health and Safety Precautions	5
4.2 Additional Safety Instructions for Compressed Air	5
4.3 Additional Safety Instructions for Air Impact Wrench	5
4.4 Residual Risk	6
5. Identification and Unpacking	7
5.1 Product Overview	7
5.2 Packaging	7
6. Preparation Instructions	8
6.1 Preparing the Air Supply for Use	8
6.2 Connection to the Air Supply	8
7. Operating Instructions	9
7.1 Installing & Removing Sockets	9
7.2 ON/OFF & Forward/Reverse Throttle	9
7.3 Speed Control Dial	9
8. Maintenance and Troubleshooting	10
8.1 Every-Day Maintenance Checks	10
8.2 After Use Maintenance Checks	10
8.3 Square Drive	10
8.4 Troubleshooting	10
9. Spares, Returns and Disposal	11
10. Warranty	11
11. Explanation of Symbols	11

3. Product Introduction

3.1 Intended Use

This butterfly type air impact wrench is designed for installing and removing small fastenings and ideal for use in confined spaces.

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.	84120
Part No.	DAT-BAIW
Square drive	3/8"
Maximum torque	102Nm
Maximum operating air pressure	90psi (6.2bar)
Average air consumption	170L/min (6cfm)
Speed (no load)	10,000rpm
Maximum air line size (ID)	3/8" (10mm)
Air Inlet	1/4" BSP
Noise emissions	
Sound pressure level	84dB (A)
Sound power level	95dB (A)
Vibration level	2.5M/S ²
Net weight	900g

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 impact wrench.
- **DO NOT** modify this impact wrench. 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) including eye, ear and hand protection.
- 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 Impact Wrench



WARNING!

- **Hold the power tool by insulated gripping surfaces, when performing an operation where the fastener may contact hidden wiring or its own cord.**
 - Fasteners contacting a “live” wire may make exposed metal parts of the power tool “live” and could give the operator an electric shock.
- **ALWAYS** ensure you have a firm footing.
- Ensure no one is below when using the tool in high locations.
- Hold the tool firmly.
- Wear ear protectors.
- **DO NOT** touch the socket or the workpiece immediately after operation. They may be extremely hot and could burn your skin.
- Keep hands away from rotating parts.
- Check the impact socket carefully for wear, cracks or damage before installation.
- The proper fastening torque may differ depending upon the kind or size of the bolt. Check the torque with a torque wrench.
- Only use accessories specifically hardened for impact use. **DO NOT** standard chrome type hand tool sockets as they will shatter and splinter causing injury

4. Health and Safety Information

- 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.
- The wrench 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.
- Impact wrenches 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.

- **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 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.

4.4 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. Identification and Unpacking

EN

5.1 Product Overview



- (1) Forward/Reverse throttle
- (2) Anvil/square drive
- (3) Anvil ring

- (4) 1/4" BSP air inlet
- (5) Speed control dial (0 - 8)
- (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** 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

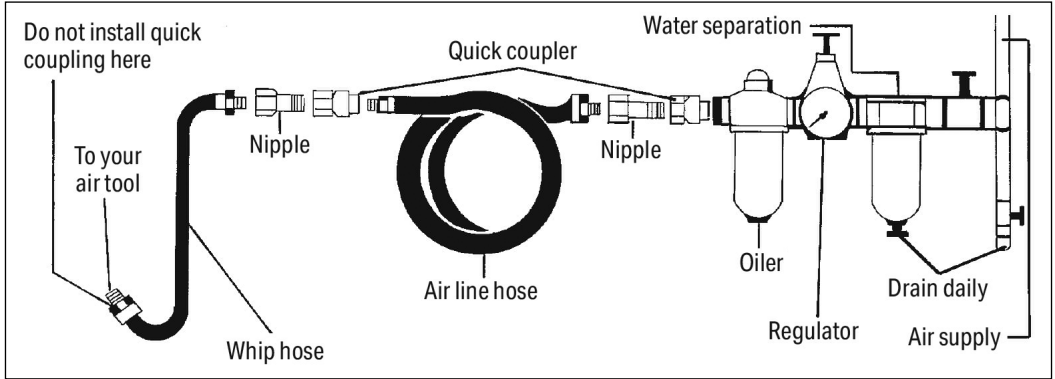


Fig. 1

- 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

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

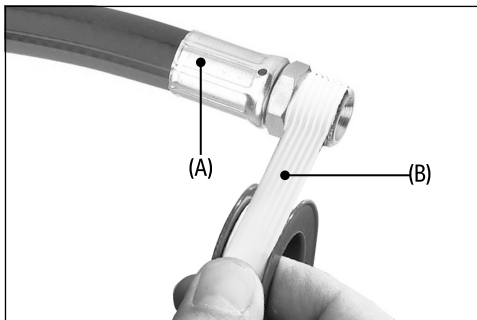


Fig. 2

To connect the air wrench 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.
- Unscrew and remove the bung from the air inlet (4).
- Attach the hose via the 1/4" BSP air inlet (4).
The connection must be tight for an airtight union.

7. Operating Instructions

EN

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 Installing & Removing Sockets

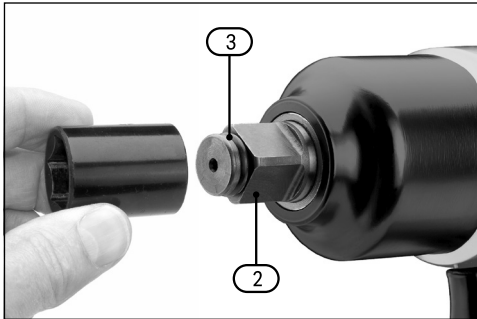


Fig. 3

- Push fit the socket over the anvil/square drive (2). The friction based ring (3) will hold the socket securely in place.
- To remove the socket - pull the socket away from the anvil.

7.2 ON/OFF & Forward/Reverse Throttle

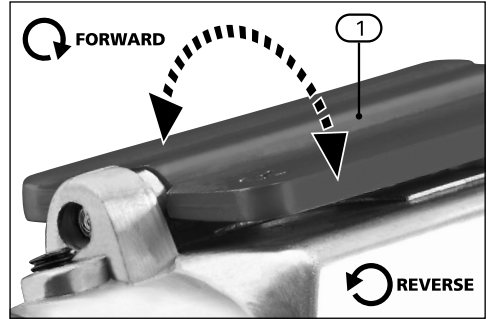


Fig. 4

- Press the throttle (1) to operate the air wrench.
 - Press the side marked (F) for forward rotation.
 - Press the side marked (R) for reverse rotation.
- Release the throttle to stop the wrench.

Note: The anvil and accessory will continue to rotate briefly after the throttle is released.

7.3 Speed Control Dial

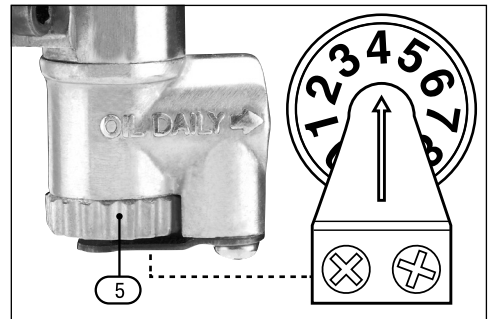


Fig. 5

- The rotational speed can be adjusted by turning the speed control dial (5).
 - select from speed 1 (low) to speed 8 (high). When maximum power is required use speed 8.

Note: The numbers are for guidance only and do not refer to a defined power measurement.

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 (4) 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.

8.4 Troubleshooting

Problem	Possible Cause	Remedy
Tool will not operate.	Motor or motor vane seized with dirt or material build up.	Pour air tool lubricating oil into air inlet. Operate tool in short bursts. If motor fails to operate, contact Draper Tools for advice.
	Air flow blocked by dirt.	Check and clear air line filter of any blockages.
	Rotor vane seized.	Pour air tool lubricating oil into air inlet. Operate tool in short bursts. If still not functional, contact Draper Tools for advice.
Tool operates slowly.	Speed dial in 'O' position.	Move the dial to the required speed position.
	Motor parts worn.	Contact Draper Tools for advice.
	O' ring throttle valve dislodged.	Replace 'O' ring or contact Draper Tools for advice.
Tool losing power under load	Worn drive ring.	Replace drive ring.
Socket will not stay on square drive.	Worn sockets or using conventional chrome plated sockets.	DO NOT use hand tool chrome plated sockets. Only use high quality impact sockets.

- When not in use store in a dry clean place out of the reach of children.

8.3 Anvil/Square Drive

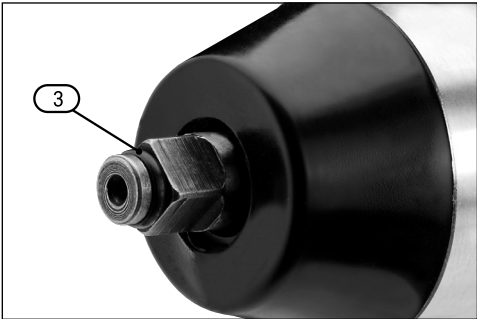


Fig. 6

- Ensure the anvil ring (3) is correctly maintained and replaced if damaged or missing.
- Ensure the socket is correctly and securely located onto the square drive before operating.

Note: It is normal for the socket to resist removal.

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

11. Explanation of Symbols

	Read the instruction manual		Square drive		Average air consumption
	Wear safety glasses		Maximum torque		Average air consumption
	Wear ear defenders		Speed (no load)		Air Inlet
	Wear protective gloves		Maximum air line size		Net weight
	Warning!		Maximum operating air pressure		European conformity
	Warning! Risk of crushing		Maximum operating air pressure		UK Conformity Assessed
	Direction of rotation				

Contact Details

Draper Tools Limited

Hursley Road
Chandler's Ford
Eastleigh
Hampshire
SO53 1YF
UK

Website: drapertools.com

Email: sales@drapertools.com

Product Helpline: +44 (0) 23 8049 4344

Telephone Sales Desk: +44 (0) 23 8049 4333

General Enquiries: +44 (0) 23 8026 6355

Draper Tools Europe B.V.

Oude Graaf 8
6002 NL
Weert
Netherlands

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