

DRAPER[®]

STORMFORCE

INSTRUCTIONS FOR

3/8" Straight Air Drill

Stock Nos.65139

Part Nos. SFSAD

IMPORTANT: PLEASE READ THESE INSTRUCTIONS CAREFULLY TO ENSURE THE SAFE AND EFFECTIVE USE OF THIS PRODUCT.

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GENERAL INFORMATION

These instructions accompanying the product are the original instructions. This document is part of the product, keep it for the life of the product passing it on to any subsequent holder of the product. Read all these instructions before assembling, operating or maintaining this product.

This manual has been compiled by Draper Tools describing the purpose for which the product has been designed, and contains all the necessary information to ensure its correct and safe use. By following all the general safety instructions contained in this manual, it will ensure both product and operator safety, together with longer life of the product itself. All photographs and drawings in this manual are supplied by Draper Tools to help illustrate the operation of the product. Whilst every effort has been made to ensure the accuracy of information contained in this manual, the Draper Tools policy of continuous improvement determines the right to make modifications without prior warning.

1. TITLE PAGE

1.1 INTRODUCTION:

USER MANUAL FOR:

3/8" STRAIGHT AIR DRILL

Stock no's. 65139

Part no's. SFSAD

1.2 REVISIONS:

Date first published November 2014

Date revised October 2015.

As our user manuals are continually updated, users should make sure that they use the very latest version.

Downloads are available from: <http://www.drapertools.com/b2c/b2cmanuals.pgm>

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1.3 UNDERSTANDING THIS MANUALS SAFETY CONTENT:

WARNING! Information that draws attention to the risk of injury or death.

CAUTION! Information that draws attention to the risk of damage to the product or surroundings.

1.4 COPYRIGHT © NOTICE:

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In all cases this copyright notice must remain intact.

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3. GUARANTEE

3.1 GUARANTEE

Draper tools have been carefully tested and inspected before shipment and are guaranteed to be free from defective materials and workmanship.

Should the tool develop a fault, please return the complete tool to your nearest distributor or contact Draper Tools Limited, Chandler's Ford, Eastleigh, Hampshire, SO53 1YF. England. Telephone Sales Desk: (023) 8049 4333 or Product Helpline (023) 8049 4344.

A proof of purchase must be provided with the tool.

If upon inspection it is found that the fault occurring is due to defective materials or workmanship, repairs will be carried out free of charge. This guarantee period covering parts/labour is 6 months from the date of purchase except where tools are hired out when the guarantee period is ninety days from the date of purchase. This guarantee does not apply to normal wear and tear, nor does it cover any damage caused by misuse, careless or unsafe handling, alterations, accidents, or repairs attempted or made by any personnel other than the authorised Draper warranty repair agent.

Note: If the tool is found not to be within the terms of warranty, repairs and carriage charges will be quoted and made accordingly.

This guarantee applies in lieu of any other guarantee expressed or implied and variations of its terms are not authorised.

Your Draper guarantee is not effective unless you can produce upon request a dated receipt or invoice to verify your proof of purchase within the guarantee period.

Please note that this guarantee is an additional benefit and does not affect your statutory rights.

Draper Tools Limited.

4. INTRODUCTION

4.1 SCOPE

Composite bodied air drill with key less chuck suitable for drill bits with shanks up to 10mm diameter.

4.2 SPECIFICATION

Stock No.	65139
Part No.	SFSAD
Chuck capacity.....	9.5mm (3/8")
Max. operating air pressure	90psi (6.3bar)
Average air consumption	4.0cfm (112L/min)
Revolutions per minute (no load)	2000min ⁻¹
Minimum air line size.....	3/8" ID
Air inlet.....	1/4" BSP
Sound pressure level*	92dB(A)
Sound power level**	103dB(A)
Vibration level.....	6.2m/s ²
Weight.....	0.68kgs

Warning: Wear approved safety glasses and ear defenders.

*Continuous A-Weighted Sound Pressure Level at the workstation in accordance to prEN ISO 15744:1999 and declared according to EN ISO 4871.

**A-Weighted Sound Power Level in accordance to prEN ISO 15744:1999 and declared according to EN ISO 4871.

5. HEALTH & SAFETY INFORMATION

5.1 GENERAL SAFETY INSTRUCTIONS FOR POWER TOOL USE

When using any type of power tool there are steps that should be taken to make sure that you, as the user, remain safe.

Common sense and a respect for the tool will help reduce the risk of injury.

Read the instruction manual fully. Do not attempt any operation until you have read and understood this manual.

Most important you must know how to safely start and stop this machine, especially in an emergency.

Keep the work area tidy and clean. Attempting to clear clutter from around the machine during use will reduce your concentration. Mess on the floor creates a trip hazard. Any liquid spilt on the floor could result in you slipping.

Find a suitable location. If the machine is bench mounted; the location should provide good natural light or artificial lighting as a replacement. Avoid damp and dust locations as it will have a negative effect on the machine's performance.

If the machine is portable; do not expose the tool to rain. In all cases do not operate power tools near any flammable materials.

Keep bystanders away. Children, onlookers and passers by must be restricted from entering the work area for their own protection. The barrier must extend a suitable distance from the tool user.

Disconnect and house all power tools that are not in use. An air tool should never be left unattended while connected to the power supply. They must be housed in a suitable location, away locked up and from children.

Do not overload or misuse the tool. All tools are designed for a purpose and are limited to what they are capable of doing. Do not attempt to use a power tool (or adapt it in any way) for an application it is not designed for. Select a tool appropriate for the size of the job. Overloading a tool will result in tool failure and user injury: This covers the use of accessories.

Dress properly. Loose clothing, long hair and jewellery are all dangerous because they can become entangled in moving machinery: This can also result in parts of body being pulled into the machine.

Clothing should be close fitted, with any long hair tied back and jewellery and neck ties removed. Footwear must be fully enclosed and have a nonslip sole.

5. HEALTH & SAFETY INFORMATION

Wear personal protective equipment (PPE). Dust, noise, vibration and swarf can all be dangerous if not suitably protected against. If the work involving the power tool creates dust or fumes; wear a dust mask. Vibration to the hand, caused by operating some tools for longer periods must be protected against. Wear vibration reducing gloves and allow long breaks between uses. Protect against dust and swarf by wearing approved safety goggles or a face shield. These are some of the more common hazards and preventions; however, always find out what hazards are associated with the machine/work process and wear the most suitable protective equipment available.

Do not breathe contaminated air. If the work creates dust or fumes; connect the machine (if possible) to an extraction system either locally or remotely. Working outdoors can also help if possible.

Move the machine as instructed. If the machine is hand held, do not carry it by the air line. If the product is heavy; employ a second or third person to help move it safely or use a mechanical device. Always refer to the instructions for the correct method.

Do not overreach. Extending your body too far can result in a loss of balance and you falling. This could be from a height or onto a machine and will result in injury.

Maintain your tools correctly. A well maintained tool will do the job safely. Replace any damaged or missing parts immediately with original parts from the manufacturer. As applicable; keep blades sharp; moving parts clean, oiled or greased; handles clean; and emergency devices working.

Wait for the machine to stop. Unless the machine is fitted with a safety brake; some parts may continue to move due to momentum. Wait for all parts to stop; then disconnect it from the air line before making any adjustments, carrying out maintenance operations or just finishing using the tool.

Remove and check setting tools. Some machinery requires the use of additional tools or keys to set, load or adjust the power tool. Before starting the power tool always check to make certain they have been removed and are safely away from the machine.

Prevent unintentional starting. Before connecting any machine in to the air supply, make sure the switch is in the OFF position. If the machine is portable; do not hold the machine near the switch and take care when putting the machine down; that nothing can operate the switch.

Concentrate and stay alert. Distractions are likely to cause an accident. Never operate a power tool if you are under the influence of drugs (prescription or otherwise), including alcohol or if you are feeling tired. Being disorientated will result in an accident.

5. HEALTH & SAFETY INFORMATION

Have this tool repaired by a qualified person. This tool is designed to conform to the relevant international and local standards and as such should be maintained and repaired by someone qualified; using only original parts supplied by the manufacturer: This will ensure the tool remains safe to use.

5.2 ADDITIONAL SAFETY INSTRUCTIONS FOR AIR DRILLS

Important: Draper Tools Limited recommends that this machine should not be modified or used for any application other than that for which it was designed. If you are unsure of its relative applications do not hesitate to contact us in writing and we will advise you.

- Power tools shall not be used in potentially explosive atmospheres unless specifically designed for that purpose;
- Unexpected tool movement due to reaction forces or breakage of inserted accessories;
- Power tools shall be isolated from the energy source before changing or adjusting the inserted tool;
- **Warning:**
 - There is a risk of crushing by torque between the tool and the workpiece;
 - There is a risk of loose clothing, hair etc., being caught in the rotating spindle of the power supply tool;
 - There is a risk of being injured if hands are not kept away from solid objects, specially observed when unscrewing in confined work spaces;
 - There is a risk of being injured if hands are not kept away from the inserted accessories;
 - There is a risk of danger to persons from high speed swarf being emitted from air drills during use.
 - There is a risk of being injured by whipping air hoses.
- Unexpected direction of inserted tool movement can cause a hazardous situation;
- Use only accessories which are in good condition and are intended for use with power tools;
- Adopt a suitable posture to counteract normal or unexpected movement of the power tool due to reaction forces from the power assembly tool;
- Release the start and stop device in the case of an interruption of the energy supply;
- Only lubricants recommended by the manufacturer shall be used;
- Release pressure when not in use. Disconnect from air line;
- Do not carry or move the tool by the air line.

5. HEALTH & SAFETY INFORMATION

- When starting or finishing drilling there is a risk of crushing between the tool and the workpiece due to sudden movement or reaction forces.

5.3 RESIDUAL RISK

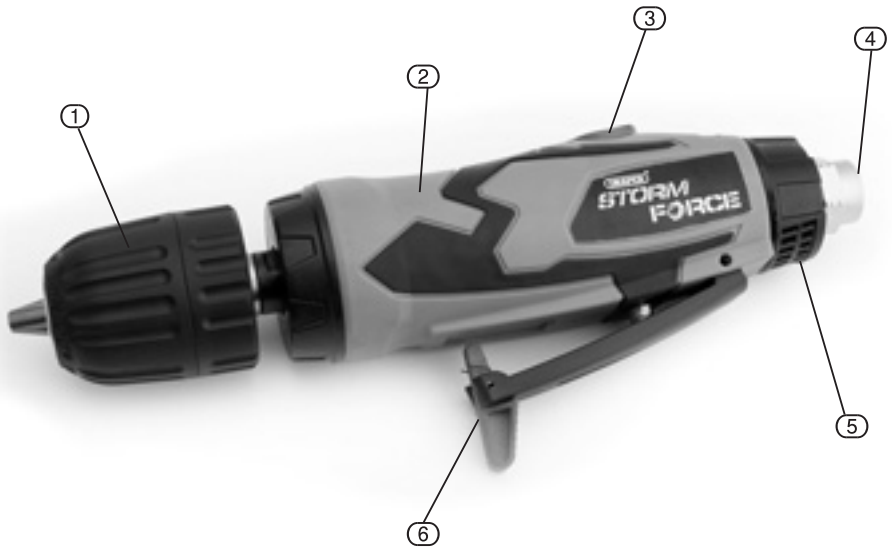
Important note:

- Although the safety instructions and operating manuals for our tools contain extensive instructions of safe working with power tools, every power tool involves a certain residual risk which can not be completely excluded by safety mechanisms. Power tools must therefore always be operated with caution!

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6. TECHNICAL DESCRIPTION

6.1 IDENTIFICATION



- ① Keyless chuck
- ② Composite body
- ③ Variable speed
- ④ 1/4" BSP (female) air inlet
- ⑤ Exhaust port
- ⑥ Trigger switch

7. UNPACKING & CHECKING

7.1 PACKAGING

Carefully remove the product from the packaging and examine it for any sign of damage that may have happened during shipping. Lay the contents out and check them against the parts shown below. If any part is damaged or missing; please contact the Draper Helpline (the telephone number appears on the Title page) and do not attempt to use the product.

The packaging material should be retained at least during the guarantee period: in case the machine needs to be returned for repair.

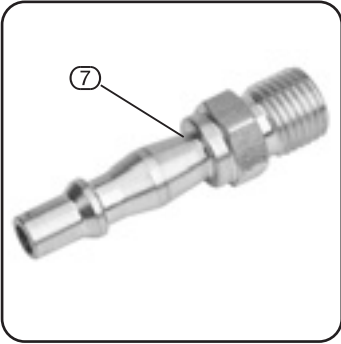
Warning! Some of the packaging materials used may be harmful to children. Do not leave any of these materials in the reach of children.

If any of the packaging is to be thrown away, make sure they are disposed of correctly; according to local regulations.

7.2 WHAT'S IN THE BOX?

Included accessory part:

- ⑦ Airline coupling screw adaptor



8. AIR SUPPLY

8.1 AIR TOOL OIL SPECIFICATION

Failure to follow these instructions will lead to premature malfunction of the equipment which is not covered by the guarantee.

Air tool oil viscosity refers to its properties to flow and how it reacts with heat. A low viscosity is thinner than a high viscosity.

Air tool oil becomes thinner as it heats so choosing the right viscosity is essential. If the viscosity is too low it may provide insufficient lubrication when heated. Equally, if it is too high, the fluid may provide excessive resistance to move through the lines when cold.

The ISO (International Standards Organisation) viscosity grading system measures the kinematic viscosity in centistokes (cSt) at 40° which is today's accepted standard. The SAE (Society of Automotive Engineers) viscosity grade value is based on a scale.

This equipment is suited to an ISO grade 22 – 32 (SAE grade 5W – 15W) monograde oil.

The oil must be constantly supplied to the equipment during use to ensure complete lubrication and optimum performance is achieved. It also acts as a rust inhibitor when the equipment is not in use.

We recommend the use of Draper Air Tool Oil:

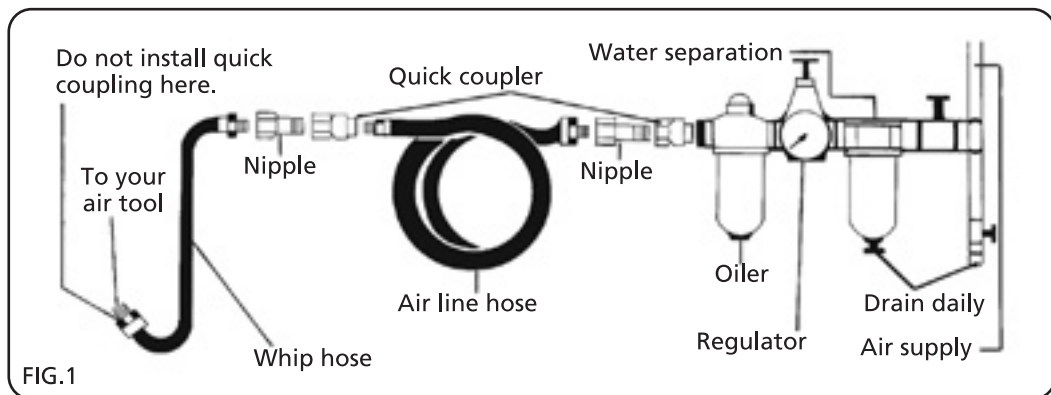
250ml = Stock No.34679, 500ml = Stock No.34681, 1Litre = Stock No.34682.

This air tool operates at a maximum pressure of 90psi and must be controlled via a combination pressure regulator, in-line lubricator and moisture filter such as the Draper range (see your local Draper stockist) which with proper maintenance will ensure a constant supply of dry air and lubricating oil at all times (see illustration below). Always check machine operating pressure before use.

Water in the compressor tank will cause serious corrosion to your air tools and should be drained daily to avoid excessive water in your air supply. Dirty wet air rapidly shortens the life of your air tool.

If you are using an air tool on a hose over 25ft long it is advisable to increase the bore of the hose to the next larger size available, i.e., 1/4" increases 3/8". This will ensure adequate pressure and volume of air to power the machine.

8.2 RECOMMENDED AIR SUPPLY SET UP – FIG. 1



After each use and before prolonged storage, lubricate the equipment with approximately 1.5ml of air tool oil directly down the air inlet.

9. ASSEMBLY

9.1 CONNECTION TO THE AIR SUPPLY – FIG. 2

Whip hose:

To connect the air drill to an air line, a ¼" BSP male thread whip hose* will be required. Wind a length of PTFE tape** around the thread before securing the hose in place. The connection must be tight for an airtight union.

* Draper Stock No.54438.

** Draper Stock No.63389.



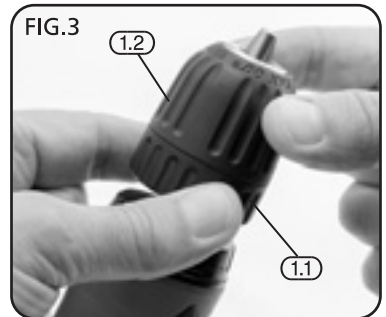
9.1 KEYLESS CHUCK – FIG. 3

The drill is equipped with a keyless chuck, which negates the requirement for a separate key to secure the accessory in the jaws.

Selection of the correct accessory is dependant on material type and the job in hand. Ensure the selected accessory is suitable and speed compatible with the drill.

Place the accessory into the chuck. Hold the back of the chuck (1.1) and rotate the body (1.2) as indicated to grip.

WARNING: Prior to any drilling, carefully check the surface for the presence of electric cable, gas or water pipes and other dangerous or damaging contents. If unsure do not proceed.



10. OPERATION AND USE

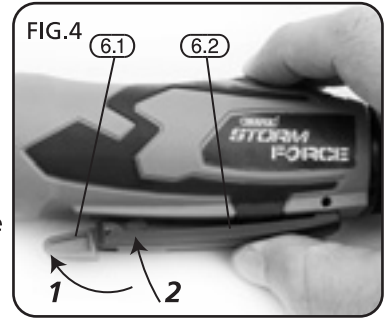
10.1 TRIGGER SWITCH – FIG. 4

Note: Before connecting the drill to the air supply reduce the line pressure according to the specification.

1st push trigger release lever (6.1) forward.
2nd squeeze trigger lever (6.2) against the body of drill.
To stop the drill, release the sprung loaded trigger.

CAUTION: Applying excessive pressure on the machine as the drill bit breaks through can result in loss of control and injury.

Note: Before tool operation and work commences ensure the compressor reservoirs are drained of condensate along with all connected air lines. Check and drain the air line regulator's water trap & fill up the lubrication reservoir.



10.2 VARIABLE SPEED – FIG. 5

The speed can be adjusted by turn the selection control (3) on top of drill.

Clockwise to go faster.

Anti-clockwise to slow down.



10.3 USING DRILL

DUST AND SWARF:

A correctly fitted dust mask, suitable for the activity and in accordance to the relevant standard, must be worn. For work activities involving exposure to fine wood dust, a mask rated to at least FFP2 should be used. 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. Always wear safety goggles.

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.

Note: Disconnect from the air supply before carrying out adjustment, servicing or maintenance.

10. OPERATION AND USE

10.4 EXHAUST PORT – FIG. 6

Ensure the exhaust port ⑤ is directed away from yourself and that it does not agitate any dust in close proximity.

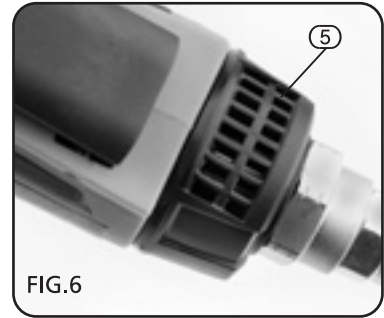


FIG.6

11. MAINTENANCE

11.1 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.

11.2 AFTER USE MAINTENANCE CHECKS

- Repeat the above procedures.
- Lubricate the tool with approximately 1.5ml of oil directly down the air inlet.

12. TROUBLESHOOTING

12.1 TROUBLESHOOTING GUIDE

PROBLEMS	POSSIBLE CAUSE	REQUIRED ACTION
<ul style="list-style-type: none">• Tool will not operate.• Air flows slightly from exhaust.• Spindle turns freely.	<ul style="list-style-type: none">• Motor or throttle seized with dirt.	<ul style="list-style-type: none">• 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, return to service centre.
<ul style="list-style-type: none">• Tool will not operate.• Air flows slightly from exhaust.• Spindle turns freely.	<ul style="list-style-type: none">• Rotor vane seized.	<ul style="list-style-type: none">• 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, return tool to service centre.
<ul style="list-style-type: none">• Spindle seized.	<ul style="list-style-type: none">• Motor vane broken.• Gears broken or jammed by foreign object.	<ul style="list-style-type: none">• Return to service centre.
<ul style="list-style-type: none">• Tool will not shut off.	<ul style="list-style-type: none">• 'O' rings throttle valve dislodged from seat inlet valve.	<ul style="list-style-type: none">• Replace 'O' ring or return to service centre.

We recommend the use of Draper Air Tool Oil:

250ml = Stock No.34679, 500ml = Stock No.34681, 1Litre = Stock No.34682.

13. DISPOSAL

13.1 DISPOSAL

- At the end of the machine's working life, or when it can no longer be repaired, ensure that it is disposed of according to national regulations.
- Contact your local authority for details of collection schemes in your area.
In all circumstances:
 - Do not dispose of power tools with domestic waste.
 - Do not incinerate.
 - During decommissioning of the equipment, certain hazards should be understood and avoided:
 - Only with the line pressure released shall the equipment be disassembled.
Goggles should be worn.

14. EXPLANATION OF SYMBOLS



The operator's instruction must be read before work starts.



WARNING: Risk of crushing.



Direction of rotation.



Wear safety glasses.



Wear ear defenders.



Wear gloves.

- **DRAPER TOOLS LIMITED,**
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- **General Enquiries:** (023) 8026 6355
- **Service/Warranty Repair Agent**
For aftersales servicing or warranty repairs, please
contact the Draper Tools Helpline for details of an
agent in your local area.

YOUR DRAPER STOCKIST

PJDH 1015

