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AEROPRO

Composite 1/2" Reversible Keyless Air Drill



**FOR HELP OR ADVISE ON THIS PRODUCT PLEASE
CONTACT YOUR DISTRIBUTOR, OR SIP DIRECTLY
ON:**

TEL: 01509500400

EMAIL: sales@sip-group.com or technical@sip-group.com

www.sip-group.com

07208

**Please read and fully understand the instructions in this manual before operation.
Keep this manual safe for future reference**

Declaration of Conformity

We

SIP (Industrial Products) Ltd
Gelders Hall Road
Shepshed
Loughborough
Leicestershire
LE12 9NH
England


As the manufacturer's authorised representative within the EC
declare that the

Composite 1/2" Reversible Air Drill (Keyless) - SIP Part. No. 07208

Conforms to the requirements of the following directive(s), as indicated.

2006/42/EC Machinery Directive

And the relevant harmonised standard(s)

Signed: 

Mr P. Ippaso - Managing Director - SIP (Industrial Products) Ltd
Date: 06/01/2013.



PARTS LIST

Ref. No.	Description	SIP Part No.	Ref. No.	Description	SIP Part No.
1.	Housing	AI05-00465	20.	Cylinder	AI05-00333
2.	Trigger pin	AI05-00316	21.	Rotor blade	AI05-00334
3.	Exhaust deflector	AI05-00466	22.	Rotor	AI05-00336
4.	Air inlet plug	AI05-00467	23.	Front plate	AI05-00337
5.	Dust cap	AI05-00319	24.	Gasket	AI05-00338
6.	Valve stem	AI05-00320	25.	Gear wheel	AI05-00340
7.	O-ring 4 x 2	AI05-00321	26.	Idle gear	AI05-00341
8.	O-ring 4 x 1.1	AI05-00322	27.	Idle gear pin	AI05-00342
9.	O-ring 1.2 x 3	AI05-00323	28.	Idle gear seat	AI05-00343
10.	Bushing	AI05-00324	29.	Gear pin	AI05-00344
11.	Forward / reverse lever	AI05-00468	30.	Idle gear pin	AI05-00345
12.	O-ring 11.5 x 1.8	AI05-00326	31.	Gear shaft	AI05-00346
13.	Spring	AI05-00327	32.	Bearing	AI05-00347
14.	Trigger	AI05-00469	33.	Front housing	AI05-00348
15.	Bolt M4 x 8	AI05-00329	34.	Pin	AI05-00335
16.	O-ring	AI05-00470	35.	Gasket	AI05-00349
17.	Gasket	AI05-00330	36.	Keyless chuck 1/2	AI05-00471
18.	Bearing 626ZZ	AI05-00331	37.	Chuck screw	AI05-00351
19.	End plate	AI05-00332	N/A	Side Handle	AI05-00527

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SAFETY INSTRUCTIONS

IMPORTANT: Please read the following instructions carefully, **failure to do so could lead to serious personal injury and / or damage to the drill.**

When using your drill, basic safety precautions should always be followed to reduce the risk of personal injury and / or damage to the drill.

Read all of these instructions before operating the drill and save this user manual for future reference.

The drill should **not** be modified or used for any application other than that for which it was designed.

This air tool is designed to be used as a hand held, hand controlled tool for drilling and similar applications.

If you are unsure of its relative applications do not hesitate to contact us and we will be more than happy to advise you.

Before operating the drill always check no parts are broken and that no parts are missing.

Always operate the drill safely and correctly.

KNOW YOUR DRILL: Read and understand the owner's manual and labels affixed to the drill. Learn its applications and limitations, as well as the potential hazards specific to it.

KEEP CHILDREN AND UNTRAINED PERSONNEL AWAY FROM THE WORK AREA: All visitors should be kept at a safe distance from the work area; never allow untrained persons to operate the drill.

STAY ALERT: Always watch what you are doing and use common sense.

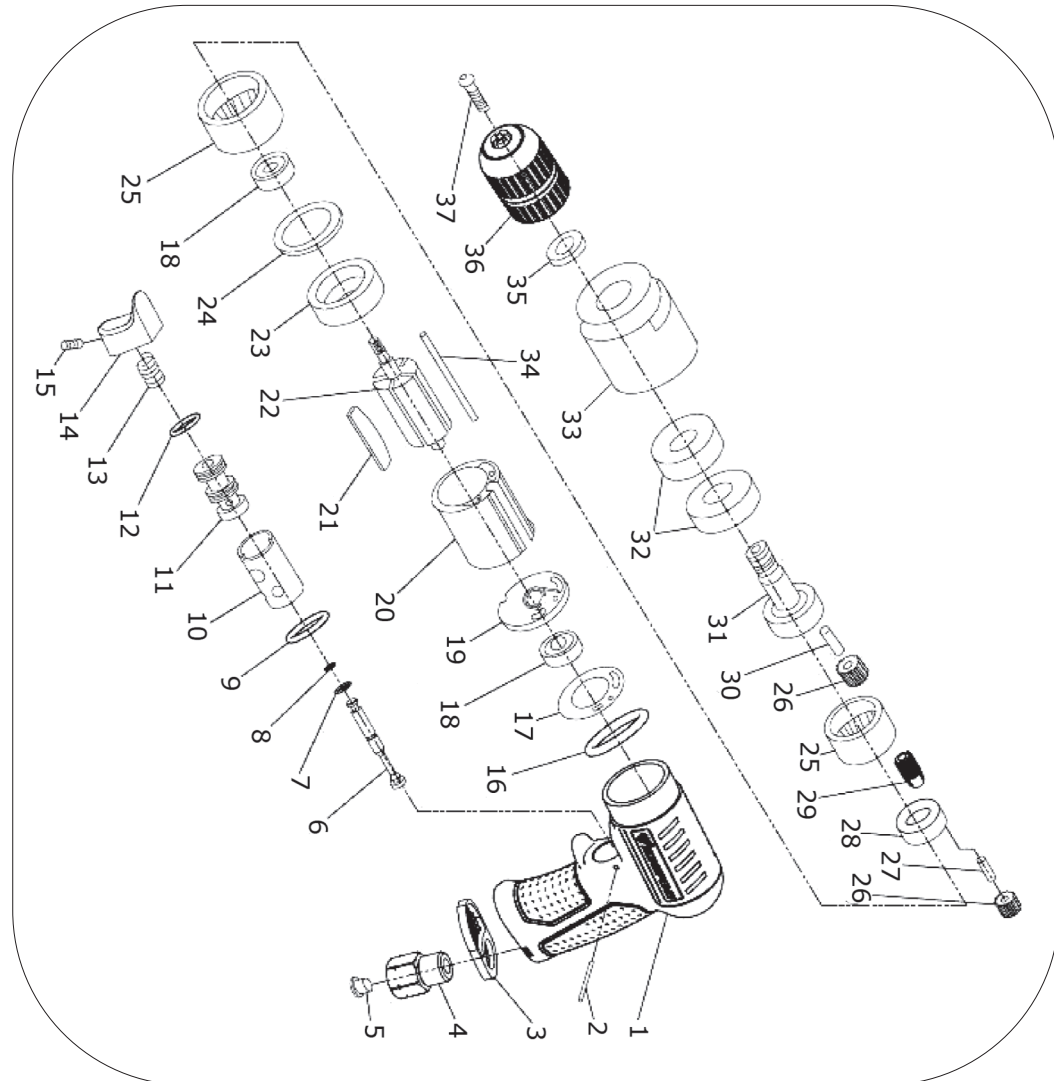
HAVE YOUR DRILL REPAIRED BY A QUALIFIED PERSON: The drill is in accordance with the relevant safety requirements. Repairs should only be carried out by qualified persons using original spare parts, otherwise this may result in considerable danger to the user and void the warranty.

DANGER! Check that the drill is in sound condition and good working order; Take immediate action to repair or replace damaged parts.

DO NOT dismantle or tamper with the drill, as this may be dangerous and will invalidate the warranty.

- If a problem with the drill is experienced or suspected stop using the drill **immediately** and contact your distributor for repair.
- Regularly inspect and lubricate the drill, ensuring that it is in good working order and condition.
- Always ensure that the work area is clean and tidy, free from unrelated materials and has adequate lighting.
- Clean and stow the drill correctly.
- Failure to follow the warnings in this manual, may result in personal injury and/or property damage.
- **DO** ensure that only compressed air is used to supply the air tool.
- The compressed air supply **MUST** be at a suitable regulated pressure. Pipe work, reg-

EXPLODED DRAWING



TROUBLESHOOTING

The following form lists the common operating issues with problems and solutions. Please read the form carefully and follow it.



If any of the following symptoms occurs during your operation, stop using the tool immediately, or serious personal injury could result. Only a qualified person or an authorised service centre should perform repairs of the tool. Disconnect from the air supply before attempting repairs or adjustments. When replacing O-rings etc. lubricate with air tool oil before assembly.

PROBLEMS	POSSIBLE CAUSES	REMEDIES
Tool runs at normal speed but struggles under load.	<ul style="list-style-type: none"> Motor parts worn. Gears worn or sticking due to lack of lubricant. 	<ul style="list-style-type: none"> Check / have the parts checked and repair / replace as necessary. Check that the gears are well greased; add grease where necessary. <p>NOTE: Heat usually indicates insufficient grease in gears. Severe operating conditions may require more frequent lubrication.</p>
Tool runs slowly. Air flows slightly from exhaust.	<ul style="list-style-type: none"> Inlet filter restricted. Motor parts jammed with dirt particles. Air flow blocked by dirt. 	<ul style="list-style-type: none"> Check air inlet filter for blockage. Pour air tool lubricating oil into air inlet, operate tool in short bursts quickly reversing rotation back and forth where applicable. Repeat above as needed. If this fails return to service centre.
Tools will not run. Air flows freely from exhaust.	<ul style="list-style-type: none"> One or more motor vanes stuck due to material build up. 	<ul style="list-style-type: none"> Pour air tool lubricating oil into air inlet, operate tool in short bursts quickly reversing rotation back and forth where applicable. Tap motor housing gently with plastic mallet. Disconnect supply; Free motor by rotating drive shank manually where applicable If tool remains jammed return to service centre.
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.
<p>Note: Repairs should be carried out by a qualified person.</p>		

SAFETY INSTRUCTIONS...cont

ulators, Hoses, isolation valves and connection devices **MUST** be suitable for the intended application correctly installed and maintained in good condition by a competent person.

- Appropriate Personal protective equipment **MUST** be worn and **MUST** be designed to protect against all hazards created. Severe permanent injury can result from using inappropriate or insufficient protective equipment - Eyes in particular are at risk.
- Long hair **MUST** be tied back; loose clothing **MUST NOT** be worn. There is a severe risk of these being drawn in or trapped by the moving parts of the air tool.
- Open or damaged compressed air lines present a significant 'whip' hazard; isolate the problem hose from the air supply and repair / replace the hose immediately.
- This air tool is electrically conductive **DO NOT** allow it to come into contact with any source of electrical supply.
- After use wait for the air tool to STOP completely before putting it aside.
- When putting the air tool aside you **MUST** ensure that it placed in a stable position. To avoid inadvertent operation **DO NOT** place the air tool where it can be knocked or moved accidentally either directly or by the air connection hose.
- If the air tool is not required or the air supply is interrupted, disconnect the air tool from the air supply and place in secure storage to prevent unauthorised use.
- Ensure the air valve (or trigger) is in the "off" position before connecting to the air supply.
- Disconnect the drill from the air supply before making adjustments, changing drill bits etc. and before servicing the tool.
- Always keep your air tool clean and lubricated. Daily lubrication is essential to avoid internal corrosion and possible failure.
- Do not overload the tool. Allow the tool to operate at its optimum speed for maximum efficiency.
- Do not increase the air pressure above the manufacturers recommended level, as excessive pressure can cause the tool casing to split. This can also create excessive wear on moving parts and possible failure.
- Always ensure that the work-piece is firmly secured leaving both hands free to control the drill.
- Always wear safety goggles or glasses during operation.
- Do not wear watches, rings bracelets or loose clothing when using air tools.
- Use as light weight a hose as possible from the tool to the wall or compressor coupling.
- In the interests of safety and possible damage to the machine/operator, always ensure that the drill has stopped before putting it down after use.
- Always ensure that the accessories such as drill bits are rated / designed for use with this drill as well as the required application, and are correctly and securely fastened before connecting the tool to the air supply.
- Do not carry or move the air drill by its air hose.
- Never allow the tool to come into contact with harsh solvents such as petrol.

SAFETY INSTRUCTIONS...cont



We recommend wearing a face mask or respiratory equipment when using any air tool; particularly during drilling, sanding, grinding, sawing or other operations likely to cause airborne particles.



We recommend wearing ear protection - particularly during extended periods of operation.



Always wear approved safety goggles / glasses when using or maintaining any air tool, everyday eyeglasses have only impact resistant lenses, they are not safety glasses.



CAUTION: The warnings and cautions mentioned in this user manual can not cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be applied.

CONTENTS AND ACCESSORIES

1/2" Reversible Air Drill	Instruction Manual	Quick Coupler (Euro type)
Side Handle	Small Bottle of Oil	



Note: If any of the above are missing or damaged, contact your distributor immediately.

OPERATING INSTRUCTIONS...cont

- Secure the bit by turning the front section of the chuck **firmly** clockwise, whilst holding the bottom section still.



Note: The maximum bit size is 1/2" (12.7mm) and the minimum is 2mm.

OPERATING THE DRILL

Once the bit is fitted and secure:

- Connect the drill to the air supply via the air inlet (4).
- Select the direction of rotation F for forward and R for reverse.
- Press the air trigger (2) and the drill will operate.
- Release the air trigger (2) and the drill will stop.



Note: Never start the drill with the bit touching the work-piece. Allow the drill to reach full speed before starting the drilling (or similar) operation.

MAINTENANCE



Disconnect the air tool from the air supply before changing accessories, servicing or performing maintenance. Replace or repair damaged parts. Use genuine parts only. Non-authorized parts may be dangerous and will invalidate the warranty.

- DO NOT** use the tool if it is, or has parts that are worn, damaged or missing; remove from service and have the parts repaired / replaced using original spare parts.
- Ensure that the air tool is lubricated daily with a few drops of air tool oil dripped into the air inlet.
- Clean the air tool after each use.
- Check hose and fittings for wear or damage before each use.
- Drain the air tank / receiver of the compressor daily; Water in the air line will damage the drill.
- In the event that it becomes necessary to store the tool for an extended period of time (overnight, weekend, etc.), it should receive a generous amount of lubrication at that time. The tool should be run for approximately 30 seconds to ensure oil has been evenly distributed throughout the tool.
- The tool should be stored in a clean and dry environment.

LUBRICATION

- An automatic in-line filter-regulator-lubricator is recommended (Fig.1) as it increases tool life and keeps the tool in sustained operation. The in-line lubricator should be regularly checked and filled with air tool oil.
- Proper adjustment of the in-line lubricator is performed by placing a sheet of paper next to the exhaust ports and holding the throttle open approximately 30 seconds. The lubricator is properly set when a light stain of oil collects on the paper. Excessive amounts of oil should be avoided.
- In the event that it becomes necessary to store the tool for an extended period of time (overnight, weekend, etc.), it should receive a generous amount of lubrication at that time. The tool should be run for approximately 30 seconds to ensure oil has been evenly distributed throughout the tool. The tool should be stored in a clean and dry environment.
- It is most important that the tool be properly lubricated by keeping the air line lubricator filled and correctly adjusted. Without proper lubrication the tool will not work properly and parts will wear prematurely.
- Use the proper lubricant in the air line lubricator. The lubricator should be of low air flow or changing air flow type, and should be kept filled to the correct level. Use only recommended lubricants, specially made for pneumatic applications. Substitutes may harm the rubber compounds in the tools O-rings and other rubber parts.



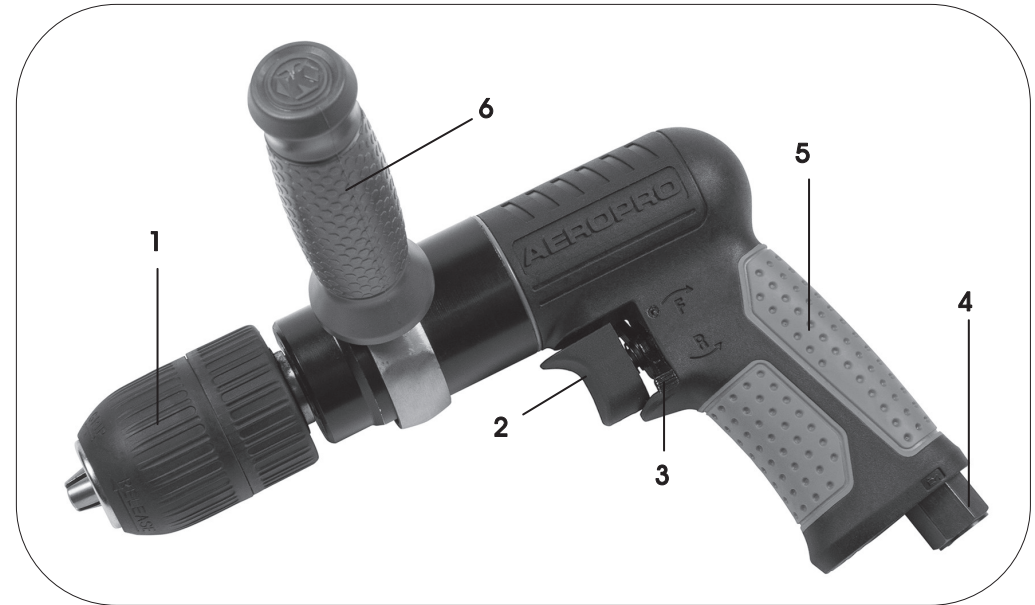
CAUTION: If a filter/regulator/lubricator is not installed on the air system, air operated tools should be lubricated at least once a day or after 2 hours work with 2 to 6 drops of oil, depending on the work environment, directly through the male fitting in the tool housing.

FITTING THE SIDE HANDLE

- Separate the 2 sections of the handle.
- Slide the ring over the body of the drill.
- Fit the handle over the threaded section of the ring.
- Ensure the handle is in the correct position.
- Fully tighten the handle by turning it clockwise until the handle is secure.

FITTING A DRILL BIT (or similar)

- Open the chuck (1) as far as is needed to fit the required drill bit (or similar) by holding the rear section of the chuck (1) and turning the front section anti-clockwise.
- Slide the bit into the chuck (1).



Ref. No.	Description
1.	Chuck
2.	Trigger
3.	Forward / Reverse Lever
4.	Air Inlet
5.	Main Handle
6.	Side Handle

TECHNICAL SPECIFICATIONS

SIP Part No.	07208
Drilling Capacity	1/2" (12.7mm)
No Load Speed	700 rpm
Average Air Consumption	6.4 cfm (181 l/min)
Operating Pressure	6.3 bar (90 psi)
Air Inlet	1/4" bsp
Sound Pressure (LpA) *	90.9 dB(A)
Sound Power (LwA) *	101.9 dB(A)
Vibration (Main Handle) **	1.2 m/s ²
Vibration (Side Handle) ***	1.10 m/s ²

* Measured in accordance with ISO 15744; level of uncertainty 3dB(A).
 ** Measured in accordance with ISO 28927-5; level of uncertainty 0.14 m/s².
 *** Measured in accordance with ISO 28927-5; level of uncertainty 0.07 m/s².

GUARANTEE

Guarantee:

This SIP air drill is covered by a 12 month parts and labour warranty covering failure due to manufacturers defects. This does not cover failure due to misuse or operating the drill outside the scope of this manual - any claims deemed to be outside the scope of the warranty may be subject to charges including, but not limited to parts, labour and carriage costs.

Failure to lubricate your air tool will shorten its working life and reduce performance. The warranty does not cover rusting air tools and tools that failed due to the lack of lubrication.



Note: Proof of purchase will be required before any warranty can be honoured.

OPERATING INSTRUCTIONS

DESCRIPTION

This 1/2" Reversible air drill is designed with a durable lightweight composite housing. It has a variable speed trigger for precise start-up and control, handle mounted exhaust to reduce noise and direct air flow away from the operators face. It is the ergonomic choice for drilling, honing and hole sawing etc.

AIR SUPPLY

1. Ensure the air drill trigger (2) is not depressed before connecting to the air supply.
2. You will require an air pressure of 90psi, and an air flow according to specification.
3. **WARNING!** Ensure the air supply is clean and does not exceed 90psi while operating the drill. Too high an air pressure and unclean air will shorten the product life due to excessive wear, and may be dangerous causing damage and/or personal injury.
4. Drain the air tank daily. Water in the air line will damage the drill.
5. Recommended hook-up procedure is shown in fig 1.
6. Line pressure should be increased to compensate for unusually long air hoses (over 8 metres). The minimum hose diameter should be 3/8" I.D. and fittings must have the highest flow rate that can be fitted to the tool.
7. Keep hose away from heat, oil and sharp edges. Check hose for wear, and make certain that all connections are air tight secure.

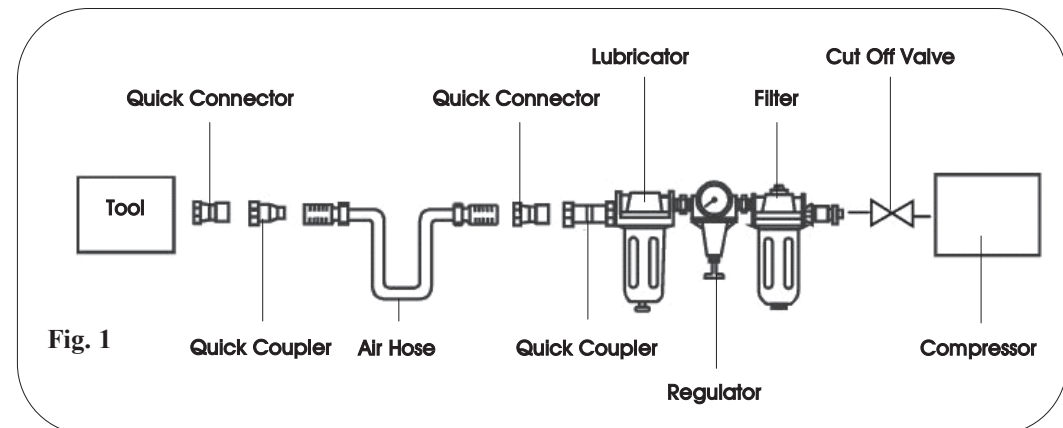


Fig. 1