



Please dispose of packaging for the product in a responsible manner. It is suitable for recycling. Help to protect the environment, take the packaging to the local amenity tip and place into the appropriate recycling bin.

Sip
SIP INDUSTRIAL

machinery specialists since 1968

190 mm Air Hammer Kit



06724

**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**

**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

190 mm air hammer Kit - SIP Part. No. 06724

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.	Hammer Body	AI05-00530	9.	Throttle Spring	AI05-00128
2.	Trigger Pin (3×16)	AI05-00121	10.	Air Inlet	AI05-00129
3.	Regulator Valve Pin (3×17.5)	AI05-00122	11.	Upper valve case	AI05-00130
4.	O-ring 8×1.8	AI05-00123	12.	Valve disc	AI05-00130
5.	Regulator	AI05-00124	13.	Lower valve case	AI05-00130
6.	Trigger	AI05-00125	14 - 15	Piston kit	AI05-00531
7.	Pin	AI05-00126	16.	Spring Retainer	AI05-00135
8.	Pin Seat	AI05-00127	N/A	Chisel set	AI05-00533

CONTENTS

Page No.	Description
4.	Safety Instructions
6.	Contents and Accessories
7.	Getting to Know Your Air Air hammer
8.	Technical Specifications
8.	Guarantee
9.	Operating Instructions
11.	Maintenance
12.	Troubleshooting
13.	Exploded Drawing
14.	Parts List
15.	Declaration of Conformity

SAFETY INSTRUCTIONS

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

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

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

The air hammer 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 air hammering 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 air hammer always check no parts are broken and that no parts are missing.

Always operate the air hammer safely and correctly.

KNOW YOUR AIR HAMMER: Read and understand the owner's manual and labels affixed to the air hammer. 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 air hammer.

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

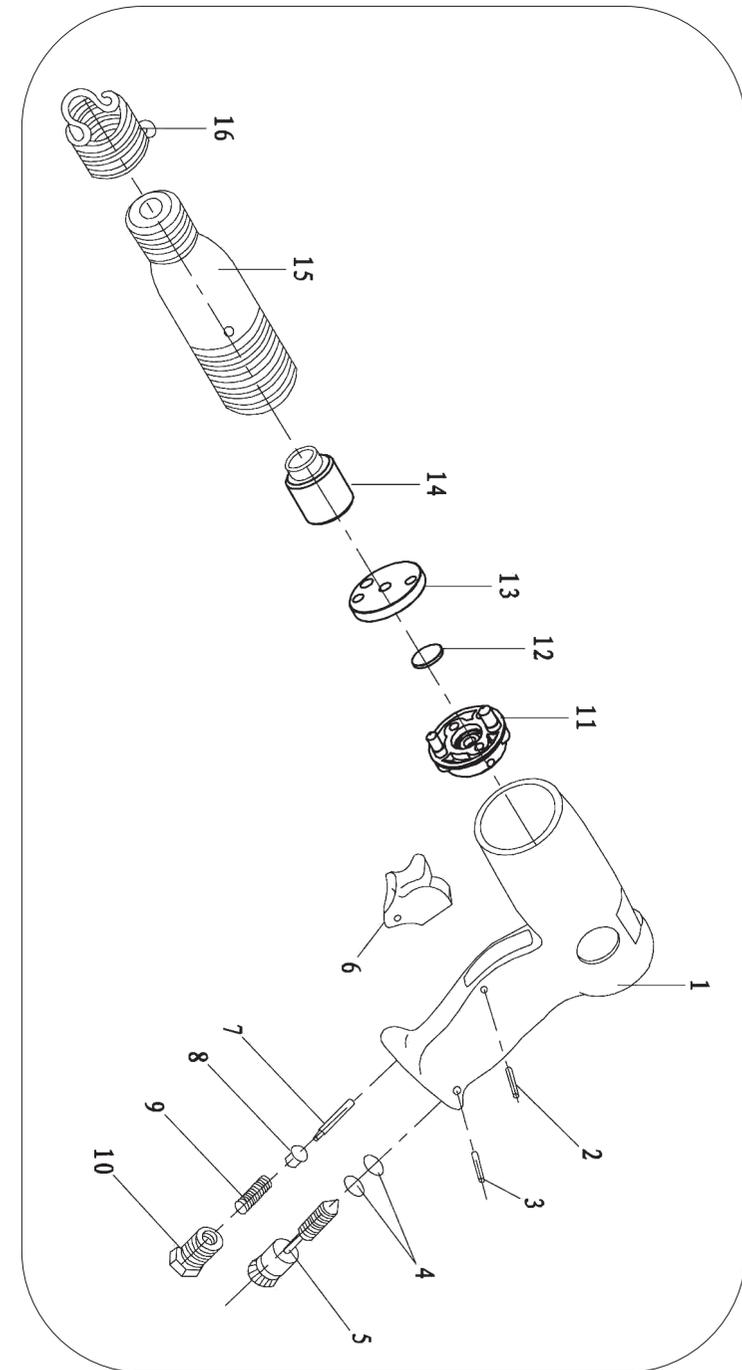
HAVE YOUR AIR HAMMER REPAIRED BY A QUALIFIED PERSON: The air hammer is in accordance with the relevant safety requirements. Repairs should only be carried out by qualified persons using original spare parts, otherwise this may result in considerable danger to the user and void the warranty.

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

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

- If a problem with the air hammer is experienced or suspected stop using the air hammer **immediately** and contact your distributor for repair.
- Regularly inspect and lubricate the air hammer, 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 air hammer 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



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. Piston 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 piston is 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"> Piston Jamming 	<ul style="list-style-type: none"> Pour air tool lubricating oil into air inlet, operate tool in short bursts. Tap motor housing gently with plastic mallet. 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.
Note: Repairs should be carried out by a qualified person.		

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 them 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 air hammer from the air supply before making adjustments, changing chisels 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 air hammer.
- 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 tool/operator, always ensure that the air hammer has stopped before putting it down after use.
- Always ensure that the accessories such as chisels are rated / designed for use with this air hammer 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 hammer 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

190 mm air hammer	Instruction Manual	Quick Coupler (Euro type)
Retaining Spring	Small Bottle of Oil	5 x Chisels



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

OPERATING INSTRUCTIONS...cont



Note: To remove the retaining spring; press against the lower spring tab to remove the spring and the upper spring tab to refit the spring.

OPERATING THE AIR HAMMER

Once the bit is fitted and secure:

- Connect the air hammer to the air supply via the air inlet (4).
- Use the built in regulator (5) to set the correct air flow.
- Press the air trigger (3) and the air hammer will operate.
- Release the air trigger (3) and the air hammer will stop.



Note: Never start the air hammer with the chisel touching the work-piece. Allow the air hammer to reach full speed before starting the 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 an inline lubricator, or 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 air hammer.
- 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.

OPERATING INSTRUCTIONS...cont

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 A CHISEL

- Remove the retaining spring (2) (if fitted) by turning it anti-clockwise.
- Slide the desired chisel into the air hammer.
- Fit the retaining spring over the chisel (as shown below).
- Turn the spring clockwise to secure the chisel.



10

GETTING TO KNOW YOUR AIR HAMMER



Ref. No.	Description
1.	Chisel
2.	Retaining Spring
3.	Trigger
4.	Air Inlet
5.	Air Regulator

7

TECHNICAL SPECIFICATIONS

SIP Part No.	06724
Chisel Length	190mm
Blows Per Minute	3500
Average Air Consumption	2.3 cfm (65 l/min)
Operating Pressure	6.3 bar (90 psi)
Air Inlet	1/4" bsp
Sound Pressure (LpA) *	84.2 dB(A)
Sound Power (LwA) *	95.2 dB(A)
Vibration **	14.0 m/s ²

* Measured in accordance with ISO 15744:2008.

** Measured in accordance with EN 28662-1, EN 28662-5 and EN ISO 8662-9; level of uncertainty 7.4%

GUARANTEE

Guarantee:

This SIP air hammer 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 air hammer 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.

The warranty does not cover consumable parts such as chisels.

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 190 mm air hammer is designed with a durable lightweight housing. It has a built in air regulator for precise start-up and control, forward facing exhaust to reduce noise and direct air flow away from the operators face. It is the ergonomic choice.

AIR SUPPLY

1. Ensure the air drill trigger (3) 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 air hammer. 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 air hammer.
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.

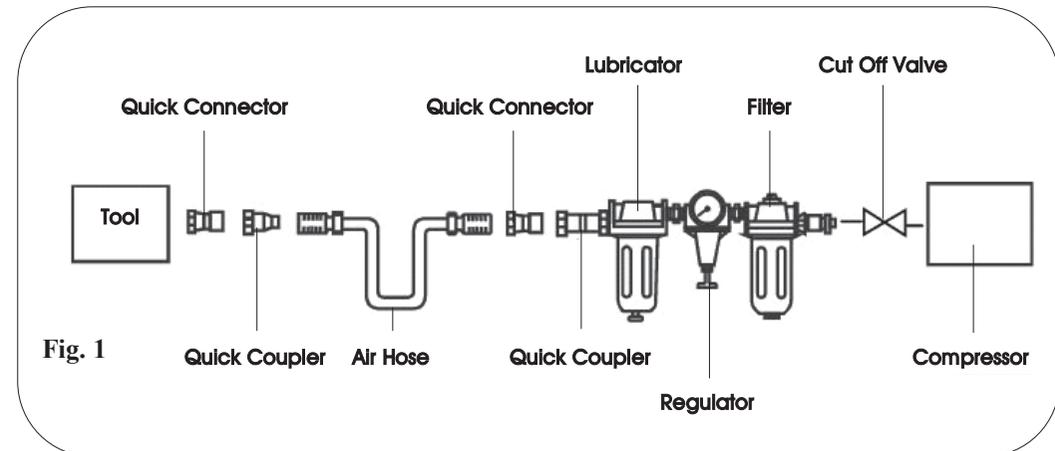


Fig. 1