Always direct exhaust port away from people or objects

Failure to lubricate the air tool will void your guarantee

If faults cannot be remedied, contact the ***Helpline*** on ***020 8391 6767***
helpline@hilka.co.uk

GUARANTEE
This product is guaranteed for domestic use for a period of 12 months against faulty manufacture or materials. This guarantee does not affect the statutory rights of the consumer. If in the event of any problem occurring please contact our Helpline at the number above for advice. This product is not guaranteed for **HIRE** purposes.

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HP086 - Issue 1 - R.W. 16-04-07

17 Piece Air Tool Kit

RAC-HP086

IMPORTANT

Please read and understand these instructions before use.

Safety Instructions

To ensure safe operation when using your Air Ratchet / Impact Wrench make sure you follow basic safety principles to reduce risk of personal injury, electric shock and fire. Please read the following instructions prior to operating this product and keep for future reference.

1. **Beware Children**
   Do not let children handle the tool. All onlookers should be away from your work area.
2. **Work Environment**
   Do not use near flammable gases or liquids.
3. **Personal Safety**
   For your own safety wear safety glasses or goggles. Tie back long hair. Use ear protectors especially in confined areas.
4. **Clothing**
   Avoid wearing loose clothing or jewellery to prevent these being caught in moving parts.
5. **Do not force the tool**
   It will do a better and safer job at the rate for which it was intended.
6. **Look after the tool**
   When not in use store in a dry, high place or keep locked up out of the reach of children. Use the tool only for its intended purposes.
7. **Check before use**
   Always ensure that the tool and air line are not damaged.
8. **Maintain tools with care**
   Inspect tool periodically for damage, if damaged have the repair carried out by a qualified person.
9. **Do not use tool when tired**
10. **Repairs**
    Always have repairs carried out by a qualified person for your safety.
11. Operators should be fully trained in its use and aware of these safety rules.
12. The socket used must be of the correct drive size and type. When using the impact wrench only use impact sockets: **Never use standard sockets.**
13. Do not use sockets or extensions with excessive wear to the input and output drives. Check that the square on any of the drives are not cracked or excessively worn before fitting. Make sure that the socket is firmly fixed to the tool.
14. Always ensure that a stable position or footing is adopted before using the tool.
15. Ensure that the tool has been correctly set up and joints are checked for air leakage. Poorly made joints could cause joint breakage with sudden and unexpected movement of the tool.
16. Impact Wrench only: always ensure that the forward/reverse valve is in the correct position before operating the tool. Do not run the tool unless the socket is first located on the joint.

17. Check hose and fittings regularly for wear. Do not carry the tool by the hose and ensure that your hand is away from the on/off valve when carrying.
18. Do not attempt to hold or guide the socket by hand when the tool is running.
19. Do not exceed maximum recommended air pressure.
20. The tool is not electrically insulated. Do not use where there is a possibility of coming into contact with live electricity.
21. Shut off the air supply before changing sockets or at least ensure that the hands are well clear of the operating trigger.
22. When loosening fasteners ensure that there is sufficient clearance behind the tool to avoid hand entrapment. The tool will move away from the threaded joint as the nut / bolt etc. is loosened and rides up the thread moving the tool with it.
23. Only use extensions, adaptors and universal joints suitable for use with impact wrenches.
24. Prolonged exposure to vibration can cause injury. Take regular breaks.

Recommended Personal Safety Equipment

Safety Glasses
Safety gloves
Safety boots
Breathing mask
Ear protectors

Wear Safety Glasses/ Goggles

Do Not Overreach!

Wear Dust Masks

Wear Ear Defenders

Read Instruction Book

Wear Gloves/ Protective Equipment

Kit Contents

1. ½" Impact wrench	x1	10. 13mm Impact socket	x1
2. ½" Air ratchet	x1	11. 14mm Impact socket	x1
3. Mini oiler	x1	12. 17mm Impact socket	x1
4. 4mm Hex key	x1	13. 19mm Impact socket	x1
5. Bottle of air tool oil	x1	14. 22mm Impact socket	x1
6. Quick fit connector	x1	15. 24mm Impact socket	x1
7. 9mm Impact socket	x1	16. 27mm Impact socket	x1
8. 10mm Impact socket	x1	17. Carry case	x1
9. 11mm Impact socket	x1		

Connecting to the air supply

Prior to connecting to an air supply always drain water from the compressor tank. Please refer back to the compressors manual for draining instructions.

Use a clean lubricated air supply that will give a measured air pressure at the tool of 90 PSI / 6.2 Bar. There is a mini oiler supplied with this kit that can be fitted in line for lubrication.
If a lubricator is not used, disconnect the air line and pour a few drops of a suitable pneumatic motor lubricating oil into the air inlet of the tool. Reconnect the air line, place a cloth over the exhaust port to catch any excess oil and run the tool slowly for a few seconds to allow the air to circulate the lubricant. This should be done on a daily basis. If the tool starts to slow down or lose power after lubricating clean the filter screen which is located in the air inlet (5, fig 1).
Use the recommended hose length for the tool.
It is not recommended that quick connectors are fitted directly to the tool. Fit a hose of at least 12"/ 30 cm to the tool first, then fit the quick connector.

Technical Specifications

½" Impact Wrench

Square drive: -	½"
R.P.M. : -	7000 free running
Working torque: -	325 Nm
Power regulator: -	4 positions
Weight : -	2.18kg
Recommended working air supply	90 PSI
Maximum air pressure: -	120 PSI
Noise Level pressure / power: -	93.5 / 105.5 dBA
Vibration level: -	11.4 m²/S
Recommended max hose length: -	10 meters

½" Air Ratchet

Square drive: -	½”
R.P.M. : -	160 free running
Working torque: -	45 ft-lb
Weight : -	1.2kg
Recommended working air supply pressure	90 PSI
Maximum air pressure: -	120 PSI
Noise Level: -	95.5 / 107.5dBA
Vibration level: -	14.3m²/S
Recommended max hose length: -	10 meters

Impact Wrench

The output of the impact wrench in prime working condition is governed mainly by three factors:

a) The input air pressure
b) The operation time of the impact wrench. Normal time required for joints of average tension is 3 to 5 seconds
c) The setting of the air regulator (4, fig 1) for a given joint can be used to regulate the output of the impact wrench if no other means of control is available. To operate the air regulator, push down and at the same time rotate to one of the 4 preset positions and release. It is recommended that an external air regulator is used to control the force required on the joint.

Note: There is no constant reliable torque adjustment on this type of impact wrench. However, an air pressure regulator can be used to adjust the torque to the approximate tightness by comparing it against a nut or screw which has been tightened to a known torque.

Fastening and unfastening heavily rusted nuts

Soak rusted nuts in penetrating oil and break rust seal before removing with the impact wrench. If the nut does not start to move in three to five seconds use a larger size impact wrench. Do not use the impact wrench beyond its rated capacity as it will drastically reduce its life.
Note: Actual torque on fasteners is directly related to joint hardness, tool speed, condition of the socket and the time the tool is allowed to impact.
Always use the simplest setup as every extra connection absorbs energy and reduces power.

Fig.1

1	½" sq Drive
2	Forward /Reverse valve
3	Trigger
4	Air Regulator
5	¼" PT Air Inlet

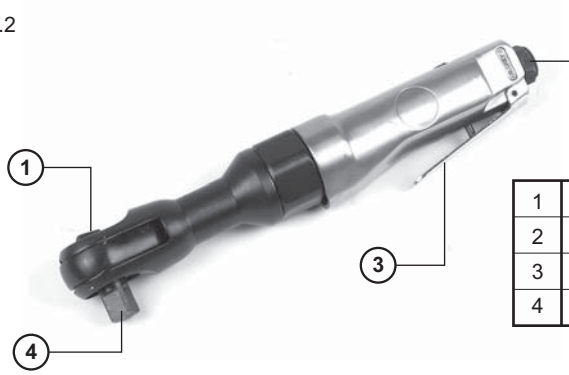
Air Ratchet

Operation

Before use

a) Ensure any water is drained from the compressor tank and any condensation is drained from air lines
   Note: please refer to your compressor manual.
b) Lubricate tool before use (refer to lubrication section).
c) Switch on air compressor and allow tank to become fully charged.
d) Set the output regulator on the compressor to 90 PSI.
e) Set the direction required by turning the Forward/Reverse lever (1, fig 2).
f) Attach the required tooling to the ½" drive.
   Note: always disconnect the air supply when adding or changing the tooling.
g) Depress the throttle to operate tool.
h) Release the throttle to stop operation.

Fig.2



1	Forward / reverse lever
2	Air inlet
3	Throttle
4	½" Drive

Application

General Assembly, Maintenance, Fastening

MAINTENANCE

LUBRICATION

Air tools require lubrication during their life due to moisture entering the air motor and bearings. These areas can be prone to rusting if the tool is not lubricated on a daily basis during use.

If the air system being used is not lubricated, then it is recommended to use the inline mini oiler supplied.

If no oiling system is applied you can manually oil the unit.

Air Ratchet

a) Turn off the air supply to the air tool and exhaust remaining air from the tool. Disconnect the tool from the air line safely at the inlet port (2, fig 2).
b) Depress the throttle lever (3, fig 2) and apply a few drops of air tool oil into the inlet port.
c) Reconnect the tool to the air line, place a cloth over the exhaust port to catch excess oil being exhausted and run the tool for a few seconds.
d) Wipe the tool clean.

Impact wrench

a) Turn off the air supply to the air tool and exhaust remaining air from the tool Disconnect the tool from the air line safely at the inlet port (5, fig 1).
b) Depress the trigger (3, fig 1) and apply a few drops of air tool oil into the inlet port (5, fig 1).
c) Reconnect the tool to the air line, place a cloth over the exhaust port to catch excess oil being exhausted and run the tool for a few seconds.
d) Wipe the tool clean.

Air inlet filter screen

If the filter screen requires cleaning, remove the air inlet from the tool to avoid inadvertently forcing debris into the tool when cleaning.

Note: Please be careful not to lose the spring and steel ball behind the adaptor.

Use an air jet to blow out any debris from the filter screen in the adaptor.

Replace the air adaptor (use a thread sealant to seal threaded joint).

After re-assembly check for air leaks, re-seal if necessary.

⚠ Always direct exhaust port away from people or objects

⚠ Failure to lubricate the air tool will void your guarantee

Helpful hints that can extend the life of your air tools

- Oil tools daily. If the oil that comes out of the exhaust port looks dirty, repeat the oiling process until the oil ejected runs clear. Lubricating the tool after each use will assist in maintaining your tool during storage. This is because water, dirt and any foreign substances that get left for any period of time will rust and corrode the air motor and bearings.
- Make sure the tool has an operating pressure of 90 PSI when running. Too long, small or restricted air lines can cause a significant loss of air pressure which will cause the tool to work harder, eventually causing the tool to wear out or break prematurely.

Most tool failures are caused by one or more of the following:

- Lack of lubrication
- Too much or too little air pressure
- Dirt, rust or water in air lines
- Throwing, dragging or dropping the tool
- Incorrect hose or coupler size
- Incorrect tool for screw size

Use the right tool for the job.

Use the following guide for bolt size to be fastened:

¼" drive tools, maximum screw size ¼"
⅜" drive tools, maximum screw size ½"

½" drive tools, maximum screw size ⅝"
¾" drive tools, maximum screw size 1"
1" drive tools, maximum screw size 1 ½"