# THE ENVIRONMENT

Always dispose of unwanted tools, accessories and packaging materials in an environmentally friendly manner.

In observance of European Directive 2012/19/EU on Waste Electrical and Electronic Equipment (WEEE) and its implementation in accordance with national law, electrical goods that have reached the end of their life must be collected separately and returned to an environmentally compatible recycling facility.

Do not dispose of electrical goods with domestic waste materials as inappropriate disposal may cause potential hazards to the environment and human health.

For further information, please contact your local authority or the retailer from whom you purchased the product.

RoHS

This product does not contain any restricted substances in concentrations and applications which are banned by the European RoHS2 Directive.

## DECLARATION OF CONFORMITY

**We hereby certify that KOBE 1/4" (6MM) 115 DEGANGLE DIE GRINDER**

**(ORDER CODE: KBE-270-4110K)**

**complies with all the relevant provisions of the**

**EC Directives**
**Machinery Directive: 2006/42/EC**

**Standards Applied:**

EN ISO 12100:2010, EN ISO 11148-9:2011, ISO 28927-12, EN ISO 15744:2008

**Signed:**

**Date:** 1st January 2017

**Name:** Keith Read

**Position:** HSQE Manager.

**KOBE TOOLS**
THE KENNEDY GROUP LTD, WIGSTON, ENGLAND, LE18 2FS.

CE

## QUALITY GUARANTEE & WARRANTY

**KOBE INDUSTRIAL AIR TOOLS carry a one year manufacturer's warranty.**

**KOBE INDUSTRIAL AIR TOOLS are designed & manufactured to the highest standards & specifications**
Assuring the quality and performance required by all sectors of industry.

**KOBE INDUSTRIAL AIR TOOLS are fully guaranteed against faulty materials & workmanship.**
Should they be found to be defective, they will either be repaired or replaced free of charge (fair wear and tear and/or misuse excepted).

**Please retain supplier invoice as proof of purchase.**

**KOBE TOOLS OFFICIAL AGENT: THE KENNEDY GROUP, WIGSTON. LEICESTER, ENGLAND. LE18 2FS**
**© The Kennedy Group Ltd. 01/17**

# KOBE™
## INDUSTRIAL AIR TOOLS

# 1/4" (6MM) 115 DEGANGLE DIE GRINDER

**MODEL:**
**B3244**

**ORDER CODE:**
**KBE-270-4110K**




- **Use for grinding, polishing, buffing and deburring**
- **The extra length allows you to reach more confined areas**
- **Reversible hardened steel 6mm (1/4") collet**
- **Short body length allowing access into hard to reach areas**
- **Planetary gears for longer life and smoother running**
- **Low profile teasing throttle for precise speed control**
- **Rotating air inlet to prevent the air hose tangling**

CE

**WARNING: THE SAFETY INFORMATION GIVEN INSIDE MUST BE READ AND UNDERSTOOD BY ANY PERSON USING, INSTALLING, REPAIRING OR MAINTAINING THESE PRODUCTS.**

# OPERATOR'S MANUAL

Please retain this information for future reference.

# SAFETY INSTRUCTIONS

***You have purchased a quality product that is designed for high performance and long service life. If correct use, safety and maintenance procedures are observed this machine will last for many years.***

**KOBE INDUSTRIAL AIR TOOLS** have been specifically designed to help you work **SAFELY** and **EFFICIENTLY**. Your care and good judgement are the best protection against injury, but always ensure that the appropriate safety equipment is worn. All possible hazards cannot be covered here, but the most important ones have been highlighted.

- Always adhere to the processes and safety warnings, which are stated in the instruction manual.

## GENERAL OPERATING HAZARDS

- Always ensure all users are physically able and competent to handle the size, weight and power of the tools and have received appropriate training to perform the task.
- Always avoid accidental starting of the tool by disconnecting it before replacing accessories or repairing.
- Always be aware of the tool rundown time.
- Never allow routine to lead to mistakes.
- Never operate if any parts are missing or damaged.
- Never allow untrained persons to operate the tool.

## WORKPLACE HAZARDS

- Always ensure your working area is clean and well lit.
- When working at height make sure that the tool is safely secured and be aware of objects falling below. Make sure that no persons are working directly below the working area.
- Do not operate in explosive atmosphere, for instance extreme dust, gases and liquids.
- Keep children and bystanders away while operating the tool. Distractions can cause you to lose control.
- Never run the tool in areas exposed to water or in damp conditions.

## PERSONAL PROTECTION

- Always wear approved eye protection during operation. Use safety glasses or goggles which conform to BSEN136 or CE equivalent that provide protection from the front and side. The operator of the power tool is responsible for following accepted eye, face, respiratory, hearing and body protection.
- Always ensure that all long hair and loose clothing, ties, scarves, jewellery, etc., are secured or removed.
- Always consult a doctor if numbness, tingling, pain or whitening of the skin occurs. Repetitive work motions, awkward positions and exposure to vibration can cause “Repetitive Strain Injuries”.
- When operating the tool stay alert and use common sense, especially when it comes to working at height. Be aware of what’s below you.
- Do not overreach. Keep a proper balance and footing at all times.
- Do not use the tool if under the influence of alcohol, drugs or medication.

## SPECIFIC SAFETY INSTRUCTIONS

- Always ensure all accessories are rated to the “Free” speed of the air tool and intact before fitting or using.
- Always use air tool attachments that are in good condition and are designed to be used with the tool.
- Always be aware of the risk of crushing between the tool and the workpiece due to sudden movement or reaction forces.
- Always shut off air supply, drain hose of air pressure and disconnect tools from air supply when not in use, before changing accessories or when making repairs.
- Never apply additional or over excessive force to the air tool.

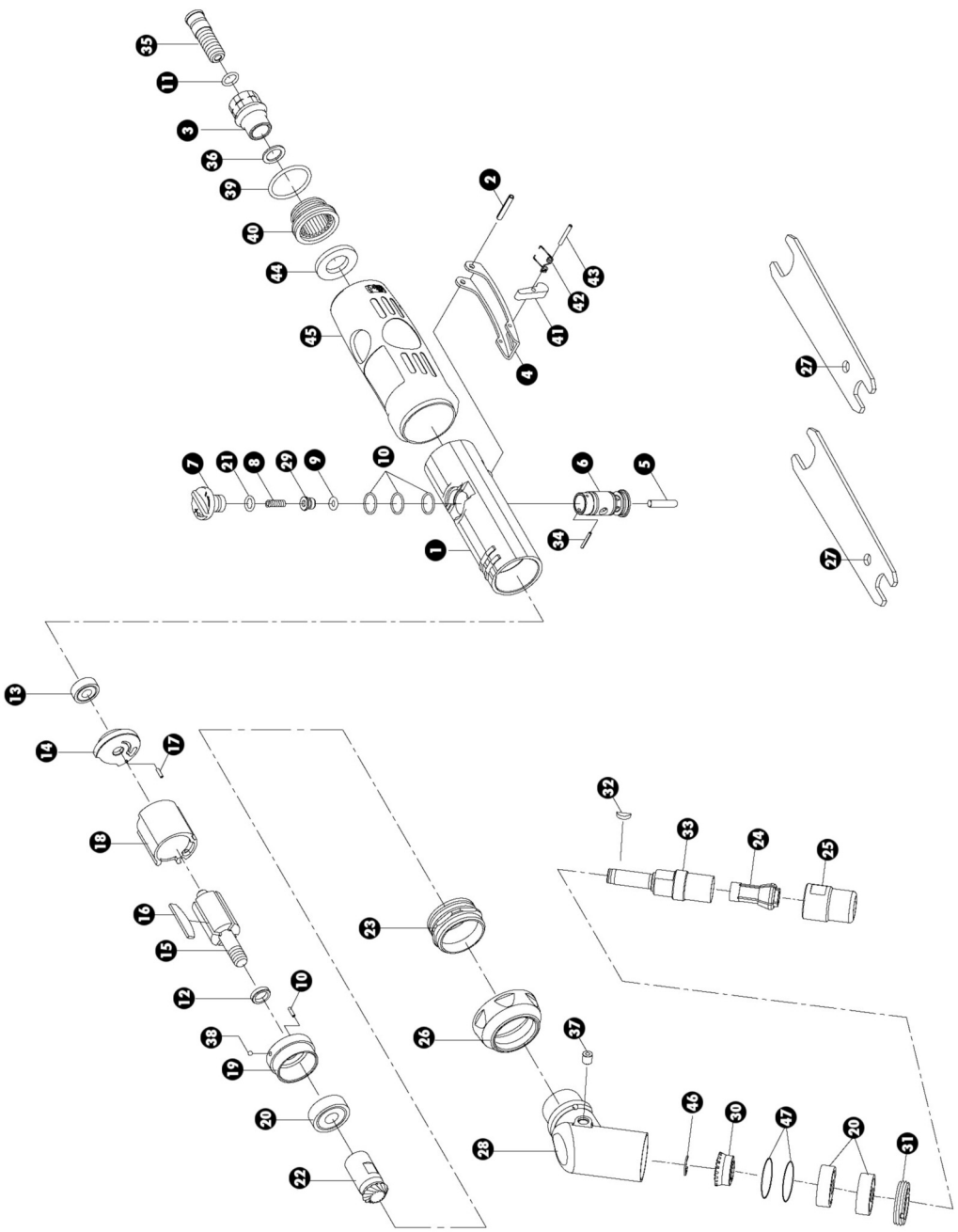


# PARTS BREAKDOWN

| INDEX NO. | ORDER CODE | DESCRIPTION | |
|---|---|---|---|
| 01 | KBE-298-5822C | Motor Housing | |
| 02 | KBE-298-9302S | Lever Pin | (3x18L) |
| 03 | KBE-298-5602C | Air Inlet | |
| 04 | KBE-298-9304S | Throttle Lever | |
| 05 | KBE-298-9305S | Valve Shaft | |
| 06 | KBE-298-5822G | Valve | |
| 07 | KBE-298-5822M | Knob | |
| 08 | KBE-298-9308S | Spring | (3.8x1.9) |
| 09 | KBE-298-5206G | O-Ring | (10.5x1.0) |
| 10 | KBE-298-9336S | O-Ring (3of) | (7.5x1.5) |
| 11 | KBE-298-5268X | O-Ring | |
| 12 | KBE-298-9344S | Rotor Spacer | |
| 13 | KBE-298-5510L | Ball Bearing (2of) | (696ZZ) |
| 14 | KBE-298-9314S | Rear End Plate | |
| 15 | KBE-298-9315S | Rotor | |
| 16 | KBE-298-9316S | Vane (4of) | |
| 17 | KBE-298-5616S | Spring Pin (2of) | (1.5x6) |
| 18 | KBE-298-9318S | Cylinder | |
| 19 | KBE-298-9319S | Front End Plate | |
| 20 | KBE-298-9320S | Ball Bearing (3of) | (608ZZ) |
| 21 | KBE-298-5735M | O-Ring | (6x1.5) |
| 22 | KBE-298-9348S | Pinion Gear | |
| 23 | KBE-298-9323S | Front Coupling | |
| 24 | KBE-298-9324S | Collet | |

| INDEX NO. | ORDER CODE | DESCRIPTION | |
|---|---|---|---|
| 25 | KBE-298-9325S | Collet Nut | |
| 26 | KBE-298-9326S | Front Cap | |
| 27 | KBE-298-9327S | Spanner (2of) | |
| 28 | KBE-298-5824D | Head | |
| 29 | KBE-298-9340S | Throttle Valve | |
| 30 | KBE-298-9350S | Bevel Gear | |
| 31 | KBE-298-9331S | Lock Ring | |
| 32 | KBE-298-1969S | Key | |
| 33 | KBE-298-9351S | Spindle | |
| 34 | KBE-298-5856D | Spring Pin | (1.5x12L) |
| 35 | KBE-298-5823H | Fixed Shaft | |
| 36 | KBE-298-5545Y | Washer | |
| 37 | KBE-298-9337S | Oil Cap | |
| 38 | KBE-298-5511M | Steel Ball | |
| 39 | KBE-298-5508J | O-Ring | (22.8x2) |
| 40 | KBE-298-5509K | Deflector | |
| 41 | KBE-298-5152E | Safety Bar | |
| 42 | KBE-298-5151D | Spring | |
| 43 | KBE-298-9343S | Spring Pin | (2x15L) |
| 44 | KBE-298-5823M | Damping Material | |
| 45 | KBE-298-5822S | Grip | |
| 46 | KBE-298-9352S | Crescent Rings | (5103-31) |
| 47 | KBE-298-5826K | Shim (2of) | |

# PARTS BREAKDOWN



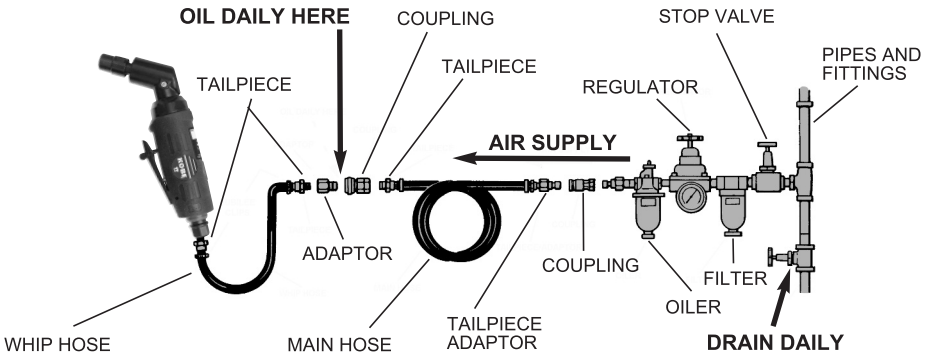


# SPECIFICATIONS

| | |
|---|---|
| **MODEL NUMBER** | B3244 |
| **COLLET SIZE** | 1/4" (6mm), 1/8" (3mm) |
| **FREE SPEED** | 25,000 rpm |
| **RECOMMENDED AIR PRESSURE** | 6.2bar (90psi) |
| **AIR CONSUMPTION** | 4cfm (113L/min) |
| **AIR INLET THREAD** | 1/4" NPT |
| **MINIMUM AIR HOSE SIZE (ID)** | 10mm (3/8") |
| **NOISE LEVEL†** | 90dBA |
| **SOUND POWER LEVEL†** | 97dBA |
| **VIBRATION LEVEL#** | 1.24m/s² |
| **OVERALL LENGTH** | 200mm |
| **NET WEIGHT** | 0.55kg |

† Per Pneurop Standard PrEN 12366.
# Per EN 28927-1.

# SUGGESTED AIR SUPPLY

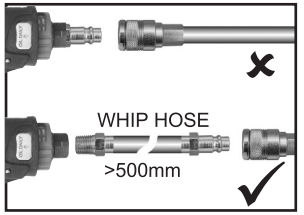



1) Before connecting, ensure the dust cap is removed **(Fig A)**.
2) Connect tools to the air line using pipe, hose and fitting sizes listed in the specifications.
3) Supply tools with 6.2bar (90psi) of clean, dry air. A higher pressure and unclean air will shorten the tool life because of faster wear and may create a hazardous condition.




**REQUIREMENTS FOR QUICK ACTING COUPLINGS CONNECTED TO AIR TOOLS:**
A whip hose of minimum length 500mm between the tool and the coupling is required in order to comply with Health and Safety

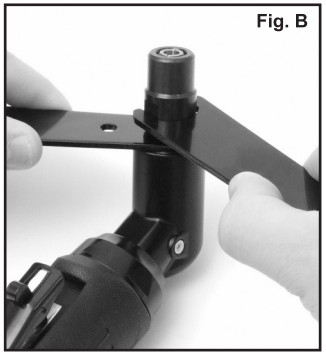
Executive Guide **HS(G) 39, BS4575:2, ISO 4414 and ISO 6150.** This will also reduce the strain applied by the weight of the air hose on the end of the air tool.



# OPERATION

**WARNING! BEFORE ATTEMPTING TO USE THIS PRODUCT, MAKE SURE YOU ARE FAMILIAR WITH ALL OPERATING AND SAFETY INSTRUCTIONS.**

### ATTACHING OR REMOVING CONSUMABLE ACCESSORIES

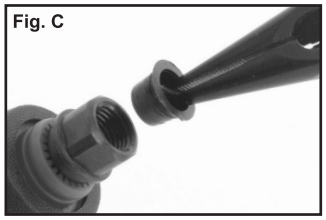

Fig. B

1. Disconnect air tool from air supply before changing attachment.
2. Unscrew the collet using a 17mm spanner **(Fig B)**.
3. Place the attachment in to the loosened collet.
4. Tighten the collet with the spanner to secure the attachment.
5. Allow the air tool to run up to its maximum speed before applying to the workplace.

### USING THE AIR TOOL

1. Carry out daily inspection and lubrication of the tool.
2. Remove the plastic dust cap using a pair of pliers **(Fig. C)**.
3. Connect the air tool to the air supply using a whip hose.

   **NOTE:** Due to the rotating air inlet feature, a 17mm spanner will be required to hold the inlet while securing the whip hose.
4. Place the tool over the area you intend to work on and squeeze the trigger to start the air tool **(Fig. D)**. Release the throttle to stop the air tool.
5. The amount the throttle is squeezed, will determine the speed of the tool.
   **Do not allow the air tool to free run for an extended period**
6. Turn the speed regulator to select the working pressure **(Fig. E)**.


Fig. C

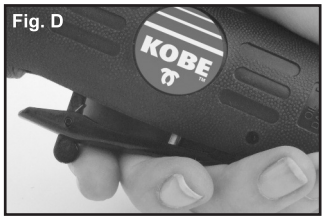


Fig. D



Fig. E

## WARNING!

- **ALWAYS** use the right tool for the job - DO NOT improvise by using accessories not designed for the tool or job.
- **ALWAYS** inspect the air tool for cracks or excessive wear before connecting and during use.
- Be careful not to over tighten fasteners.



# MAINTENANCE

A competent person must disassemble and inspect higher wear parts periodically if the tool is used every day or if there is a noticeable drop in the tool performance. Any damaged or worn parts must be replaced. Your 12 month warranty could become void if the tool is unnecessarily dismantled and damage is caused. If you are unsure about dismantling the tool, please return it to your local Kobe agent.

The use of other than genuine Kobe replacement parts may result in safety hazards, decreased tool performance, increased maintenance and voiding of warranty.

Mineral spirits are recommended when cleaning the tool and its parts. DO NOT clean with any solvents or oils containing acids, esters, ketones, chlorinated hydrocarbons or nitro carbons. DO NOT use chemicals that have a low flash point. For spare parts or servicing please contact your local Kobe agent.

### LUBRICATION

Air tools require lubrication throughout the life of the tool as moisture in the compressed air will rust the air motor and the correct lubrication is vital for the maximum performance of the air tool. Failure to lubricate the tool at the air inlet will void your warranty.

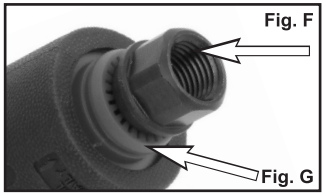
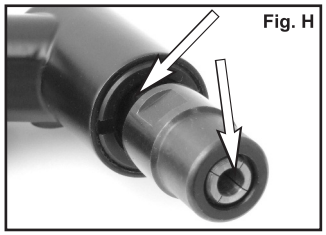

Fig. F

Fig. G

Either use an air line lubricator with air tool oil adjusted to two drops per minute, or if an air line lubricator cannot be used, add one teaspoon of air motor oil to the inlet **(Fig. F)** or into the hose at the nearest connection to the air supply once a day and then run the tool. ISO Grade VG22 oil is recommended. A rust inhibitive oil is acceptable for air tools.

Any excess oil in the motor is expelled immediately from the exhaust port. Always direct the exhaust port away from people or objects **(Fig. G)**.


Fig. H

Lubricate the tool holder regularly with a light machine oil. **(Fig. H)**.
Do not lubricate the tool with flammable or volatile liquids such as paraffin (kerosene), diesel or jet fuel.

# SERVICE & REPAIRS

A comprehensive repair and service facility is available through your local Kobe agent.



