KOBE PROFESSIONAL AIR TOOLS

THE ENVIRONMENT

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

DECLARATION OF CONFORMITY

We hereby certify that the KOBE SURFACE CONDITION/FINISHING GRINDER KIT

(ORDER CODE: KBE-270-7000K)

complies with all the relevant provisions of the

Machinery Directive: 2006/42/EC

Standards Applied:

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

Position:
Compliance Manager

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

CE

QUALITY GUARANTEE & WARRANTY

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

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

KOBE PROFESSIONAL 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. 09/18

KOBE™

PROFESSIONAL AIR TOOLS

SURFACE CONDITIONING AND FINISHING KIT

MODEL
SCF2206K

ORDER CODE
KBE-270-7000K



- **For surface preparation, deburring, cleaning, blending and finishing**
- **Kit includes the GDA2206L Angle Die Grinder**
- **90° angle head for flexibility in tight areas**
- **22,000rpm**
- **6mm collet size**
- **Speed regulator**
- **Safety release throttle**
- **Rear exhaust**
- **Ball bearing construction for long tool life**
- **11 YORK quick change 50mm diameter discs with rubber backing pad**
- **Can also be used for polishing, buffing and grinding**

CE

KOBE recommends the use of YORK quality abrasives

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

ALWAYS WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT.

OPERATOR'S MANUAL

Please retain this information for future reference.

KOBE PROFESSIONAL AIR TOOLS

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 PROFESSIONAL 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.

GENERAL OPERATING HAZARDS

The Angle Die Grinder GDA2206L can also be used for grinding as well as for surface conditioning and finishing. The information contained in this operator's manual covers both applications.

- Keep clear from all rotating spindles and moving parts
- Ensure that all long hair and loose clothing, ties, scarves, jewellery, etc., are secured or removed
- Always wear approved eye protection during operation, repair or maintenance of the tool, or whilst changing accessories. The operator of the tool is responsible for following accepted eye, face, respiratory, hearing and body protection.
- Ensure that all others in the area are wearing approved eye, face, respiratory, hearing and body protection. Even small projectiles can injure eyes and cause blindness.
- Wear gloves to protect hands from cuts and burns.
- Do not touch accessories during or after use.
- Never disable the safety lever throttle.
- Do not modify tools or accessories and only use for the task for which they have been designed.
- Ensure that all accessories are rated to the "Free" speed of the tool and intact before fitting or using.
- All users must be physically able and competent to handle the size, weight and power of the tools and have received appropriate training to perform the task.
- Note the tool rundown time. Control the tool as if it were under power.

SPECIFIC OPERATING HAZARDS

- Only use abrasives that are designed for the tool.
- Do not use cut off wheels or router bits in this tool.
- An abrasive fitted to a tool that is not designed for its use may cause serious injury or death.
- Make sure that accessories have the correct shaft size for the collet.
- Protect abrasive accessories from exposure to water, solvents, high humidity, freezing temperature and extreme temperature changes.
- Store accessories in protective racks or compartments to prevent damage.
- The user is responsible for making sure that the specification label on the air tool is kept legible, indicating the order code, model number, serial number and rpm. If not, re-order and replace.

WORKPLACE HAZARDS

- Slip/Trip/Fall is a major cause of serious injury or death. Be aware of excess hose around the work place.
- Maintain a balanced body position and secure footing.
- High sound levels can cause permanent hearing loss. Use approved hearing protection.
- Repetitive work motions, awkward positions and exposure to vibration can cause "Repetitive Strain Injuries". If numbness, tingling, pain or whitening of the skin occurs consult a doctor.
- Avoid inhaling dust or handling debris from work process which can be harmful to your health.

NOTES

NOTES

SAFETY INSTRUCTIONS Continued

- This tool is not intended for use in a flammable or combustible atmosphere and is not insulated for contact with electric power sources.
- Use a vice or clamping device to hold the work piece firmly in place.

AIR SUPPLY AND CONNECTION HAZARDS

- Air under pressure can cause severe injury.
- 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 direct air at yourself or anyone else.
- Whipping hoses can cause serious injury. Always check for damaged or loose hoses and fittings.
- Do not use quick disconnect couplings at tool. See the "Suggested Air Supply" section for further information (page 4.).
- Whenever universal twist couplings are used, lock pins must be installed.
- Do not exceed maximum air pressure of 90psi/6.2bar.
- Do not carry the tool by the air hose.

SPECIFICATIONS

MODEL NUMBER	GDA2206L
ORDER CODE	KBE-270-7000K
FREE SPEED	22,000rpm
COLLET SIZE	6mm
AIR INLET THREAD	1/4"NPT
AIR HOSE SIZE (ID)	3/8"(10mm)
AIR PRESSURE	90PSI (6.2Bar)
AIR CONSUMPTION	4CFM*

OVERALL LENGTH	160mm
WEIGHT	0.5kg
RUBBER BACKING PAD	30,000rpm

This Tool Produces a Noise Level of 85 dBA Sound Pressure and 99 dBA Sound Power Per Pneurop Standard 8N-1. Vibration Level is 7.0m/s² tested per ISO 8662-1 and ISO 8662-17.

*Based on 15 sec cycle per minute average use

BOX CONTENTS



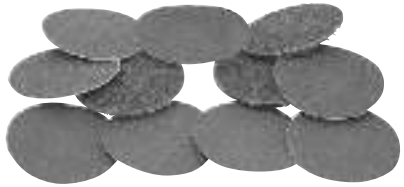
I x 90° Angle Die Grinder with 6mm collet
MODEL GDA2206L



2 x Spanners.

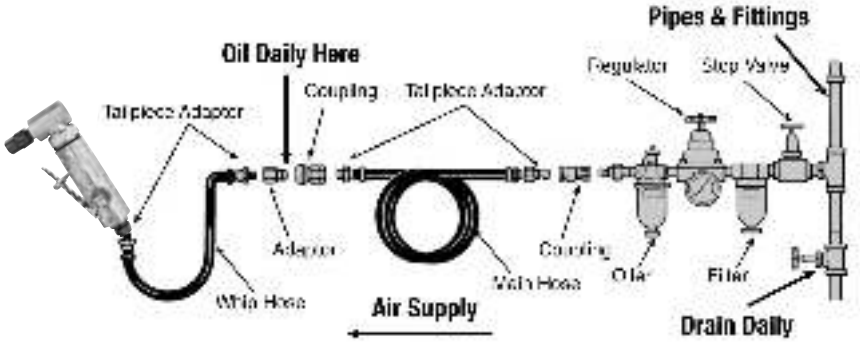


1 x 6mm diameter shank and
50mm diameter backing pad



11 x YORK Surface preparation discs

SUGGESTED AIR SUPPLY



Connect tools to the air line using pipe, hose and fitting sizes listed in the specifications. Supply tools with 90psi/6.2bar 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 leader 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 28927-12**

LUBRICATION

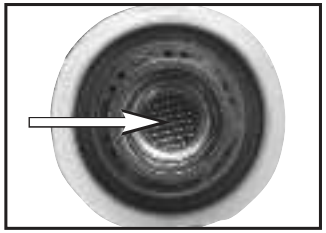
Air tools require lubrication throughout the life of the tool otherwise moisture in the compressed air will rust the air motor. Correct lubrication is vital for the maximum performance of the Angle Die Grinder and an airline lubricator should be fitted into the system down stream of the filter. Failure to lubricate the tool at the air inlet will void your warranty.

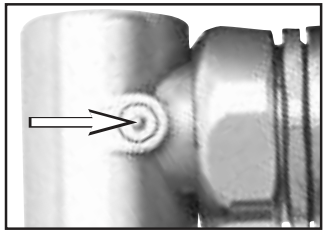
Either use an air line lubricator with air tool oil adjusted to two drops per minute, or if an air line lubricator cannot be used, add a teaspoon of air motor oil to the inlet or into the hose at the nearest connection to the air supply once a day and then run the tool (See fig. 1). ISO Grade VG22 oil 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.

Apply grease to the oil cap located on the head of the grinder (See fig. 2).

Do not lubricate the Angle Die Grinder with flammable or volatile liquids such as kerosene, diesel or jet fuel.


Fig. 1


Fig. 2

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.

Replace as necessary all "O" rings, bearings and rotor blades (See Spare Parts Breakdown). It is recommended that adequate stocks of standard service parts are held for servicing requirements.

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

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. Remember to quote tool model number and the spare part order code when ordering spares.

When disposing of components, lubricants, etc. ensure that relevant environmental procedures are carried out.

ACCESSORIES

Quick Change Screw Fitting Disc Kits
Multi purpose kit containing: one of each surface preparation disc fine, medium and coarse. Two of each abrasive disc grades P36, P60, P80 and P120. One 6mm diameter shank to fit the backing pad.



Quick Change Screw Fitting Discs

Grit	Diameter	Order Code **YRK-205**
Non - Woven Nylon		
Fine (Blue)*	50mm (2")	**-6210K**
Medium (Maroon)*	50mm (2")	**-6220K**
Coarse (Brown)*	50mm (2")	**-6230K**
Aluminium Oxide		
P36*	50mm (2")	**-5210K**
P40	50mm (2")	**-5220K**
P50	50mm (2")	**-5230K**
P60*	50mm (2")	**-5240K**
P80*	50mm (2")	**-5250K**
P100	50mm (2")	**-5260K**
P120*	50mm (2")	**-5270K**
P180	50mm (2")	**-5280K**



Screw Fitting Disc Holders

To Suit Disc Size	Shank Diameter	Order Code **YRK-205**
25mm	6mm	**-6810K**
38mm	6mm	**-6820K**
50mm*	6mm	**-6830K**
75mm	6mm	**-6840K**



Collets

Size	Order Code **KBE-280**
3mm	**-0073A**
1/8"(3.175mm)	**-0076A**
6mm *	**-0070A**
1/4"(6.35mm)	**-0079A**

** Included with kit*

OPERATION

This tool can be used for grinding as well as a surface conditioning and finishing tool.

Use only accessories with an adequate speed rating

1. Carry out daily inspection/lubrication of the tool.
2. Remove the plastic dust cap using a pair of pliers (See fig. 3).
3. Insert a spanner onto the drive shaft to hold it firmly whilst using the other spanner to loosen the collet nut (See fig. 4).
4. It is not recommended that wheels, points or backing pads are used with more than a 13mm of spindle overhang (See fig. 5).
5. Insert the shank of your chosen accessory into the collet and tighten up using both collet spanners (See fig. 6).
6. Connect the air supply to the Angle Die Grinder.
7. The air speed can be regulated by turning the brass knob located on the top of the Angle Die Grinder with a flat ended screwdriver to achieve a High or Low speed (See fig. 7).
8. Holding the Angle Die Grinder in its working position, use your index finger to move the safety bar forwards before squeezing the throttle lever (See fig. 8).
9. Allow the tool to run up to its maximum speed, preferably under a workbench, before applying it to the workpiece.
10. Beware of the tool running on for some time after the throttle lever is released.
11. Always disconnect the grinder from the air supply before using the collet spanners to change accessories.

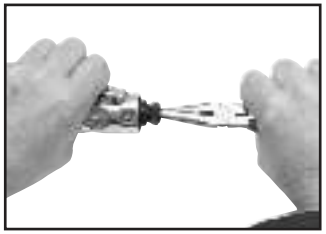


Fig. 3



Fig. 4

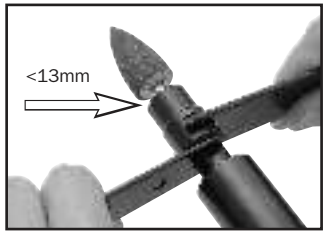


Fig. 5

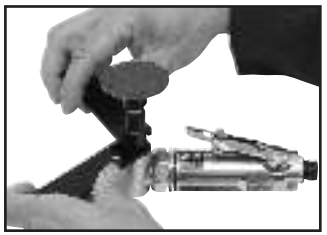


Fig. 6

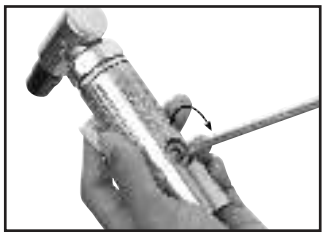
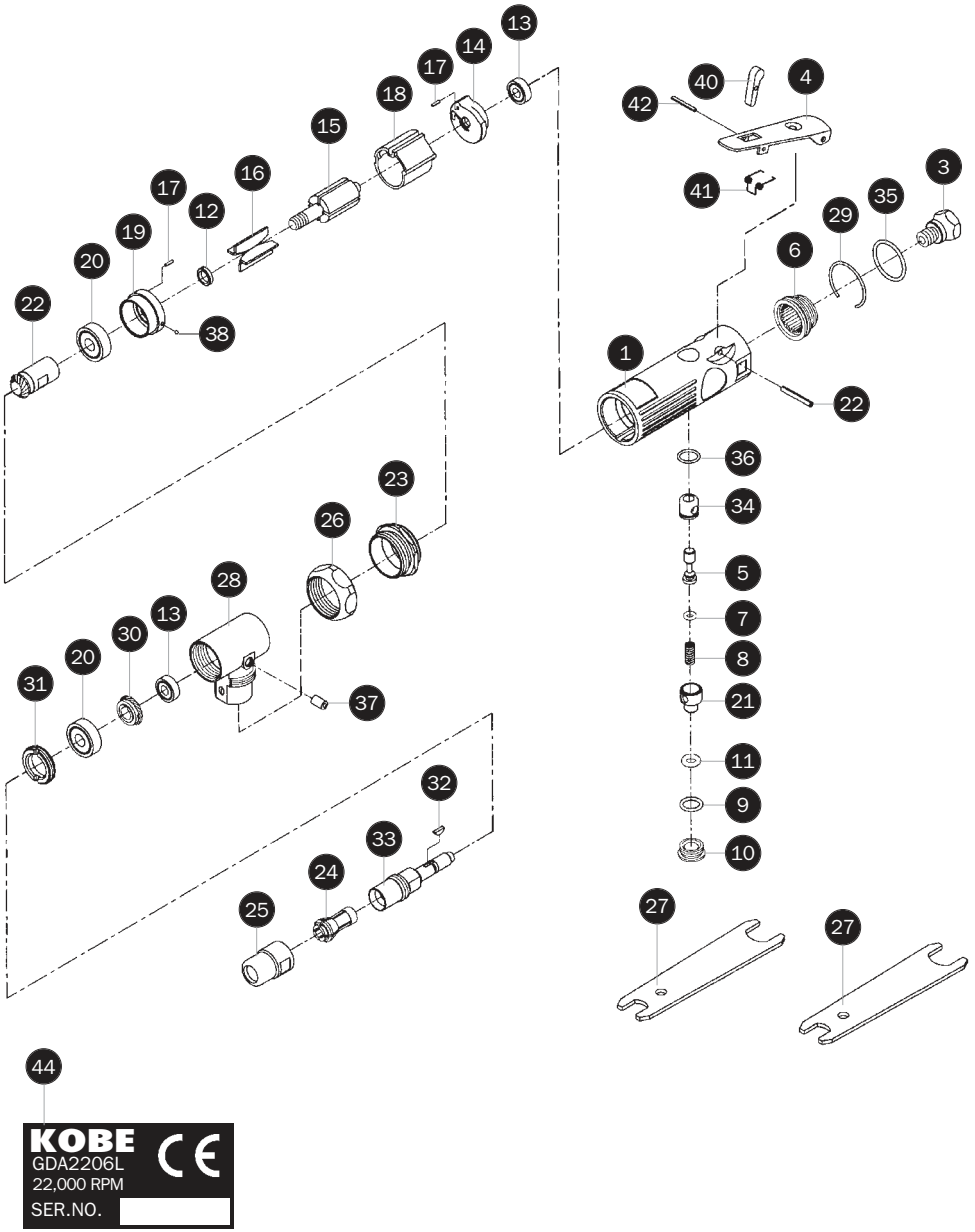


Fig. 7



Fig. 8

SPARE PARTS BREAKDOWN



PARTS BREAKDOWN

No.	Order Code	Description	No.	Order Code	Description
1	KBE-298-1876S	Motor housing	23	KBE-298-1942S	Front coupling
2	KBE-298-1879S	Lever pin (3x24L)	24	KBE-298-0070A	Collet (6mm)
3	KBE-298-1882S	Air inlet	25	KBE-298-0067A	Collet nut
4	KBE-298-1789S	Throttle lever	26	KBE-298-1951S	Front cap
5	KBE-298-1888S	Valve stem	27	KBE-298-0085A	Spanner (2)
6	KBE-298-1891S	Deflector	28	KBE-298-1957S	Head
7	KBE-298-1894S	“O” ring (3.8x1.9)	29	KBE-298-1981S	Retaining ring
8	KBE-298-1897S	Spring	30	KBE-298-1963S	Bevel gear
9	KBE-298-1900S	“O” ring (9.8x1.9)	31	KBE-280-1966S	Lock ring
10	KBE-298-1903S	Valve screw	32	KBE-280-1969S	Key
11	KBE-298-1906S	“O” ring (6.5x2)	33	KBE-298-1972S	Spindle
12	KBE-298-1909S	Rotor spacer	34	KBE-298-1975S	Bushing
13	CES-298-0696P	Ball bearing (2)	35	KBE-298-1978S	“O” ring (22.8x2)
14	KBE-298-1915S	Rear end plate	36	KBE-298-1894S	“O” ring (10.5x1)
15	KBE-298-1918S	Rotor	37	KBE-298-1984S	Oil cap (3/16”)
16	KBE-298-1921S	Vane (4)	38	KBE-298-1275S	Steel ball
17	KBE-298-1927S	Spring pin (2) (1.5x6)	40	KBE-298-1870S	Safety bar
18	KBE-298-1924S	Cylinder	41	KBE-280-1867S	Spring
19	KBE-298-1930S	Front end plate	42	KBE-280-1873S	Spring pin (2x18L)
20	CES-298-0609B	Ball bearing (2) (608zz)	43	KBE-280-2200A	Plastic case
21	KBE-298-1936S	Controller	44	KBE-298-5176E	Specification label
22	KBE-298-1939S	Pinion gear			