E C MACHINERY DIRECTIVE EN 792, 98/37/EC

DECLARATION OF CONFORMITY

We hereby certify that Kobe FOS003mk Mini Random Orbital Sander Kit Complies with all the relevant provisions of the EC Directive EN 792, 98/37/EC

Harmonised Standards Applied: EN 792-8, EN 28662-1, EN 28662-8, & Pneurop Standard 8N-1.

Official Agent
KENNEDY TOOLS
Wigston Works, Leicester, England.
ISO 9001 REGISTERED COMPANY

Signed: Martin Cooke

Date: 1st July 2004 **Name:** Martin Cooke **Position:** Director, The Kennedy Group Ltd.

QUALITY GUARANTEE & WARRANTY

KOBE AIR TOOLS carry one years manufacturers warranty.

KOBE AIR TOOLS are designed & produced to the highest standards & specifications

KOBE 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.

AVAILABLE FROM YOUR DISTRIBUTOR

KOBE™

INDUSTRIAL AIR TOOLS

Mini
RANDOM ORBITAL SANDER KIT

MODEL FOS003mk

ORDER CODE KBE-270-2103K

OPERATOR FRIENDLY

- Compact and Lightweight for Easy Access in Restricted Areas.
- Rubber Handle Provides Grip and Operator Comfort.
- Two Finger Throttle for Easier Control and Less Fatigue.
- Adjustable Power Regulator to Match the Speed to the Job.
- 15,000rpm.
- Uses both 2”and 3” Backing Pads.
- Silenced Handle Exhaust Directs air Away From the Workpiece.
- Ball Bearing Construction for a Long Tool Life.

CE

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

OPERATOR’S MANUAL

Please retain this information for future reference.

SAFETY INSTRUCTIONS

You have purchased a quality industrial 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.

GENERAL OPERATING HAZARDS

- Keep clear from all rotating spindles and moving parts
- Ensure that all long hair and loose clothing, ties, scarves, jewellry, 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.
- An abrasive fitted to a tool that is not designed for its use may cause serious injury or death.

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.
- 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 instructions for suggested air supply.
- 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

FREE SPEED	15,000rpm
BACKING PAD THREAD SIZE	M6x1.0
AIR INLET THREAD	¼" NPT
AIR HOSE SIZE (ID)	⅜" (10mm)
AIR PRESSURE	90PSI (6.2Bar)
AIR CONSUMPTION	4CFM*
OVERALL LENGTH	105mm

WEIGHT	611gm
This Tool Produces a Noise Level of 87 dBA Sound Pressure and 94 dBA Sound Power Per Pneurop Standard PrEN 12366. Vibration Level is 0.9m/s² tested per EN 28662-1 and EN28662-13.	
*Air consumption without load in 1min is 4CFM.	

THE KOBE RANGE

KOBE AIRLINE ACCESSORIES

RETRACTABLE AIR HOSE BALANCER with adjustable tension return retracts when the air tool is released leaving the workplace clear of unwanted lengths of air hose. Ideally suited for in line production.

Max Tool Weight	Bore x Length	Rating	Order Code KBE-280
1.5kg	6 x 700mm	150PSI	**-1000K**

WHIP HOSE AND ADADPTOR used to supply air between the air tool and supply point. Prevents vibration damage to couplings and the tool user.

Thread	Overall Length	Order Code KBE-280
1/4" NPT	650mm	**-1360K**

EXHAUST HOSE ASSEMBLY deflects the tool exhaust away from the immediate work area and helps to reduce sound levels. Suitable for Kobe air tools. Thread size 1/4" NPT. Overall length 80cm.

Inside Head Diameter	Suitable for Kobe Air Tool models	Order Code KBE-298
20mm	GES2506L, GDA2206L, FDG090, FDG115, FDG180m & FDG180e.	**-5421S**
25mm	DP2210, DPR1810, DP513, DPR813, DAR1510, DS4510L, SH120, SP1825K, GD2206L, GD22LK, FPD500, FPD375 & X-GD16.	**-5420S**

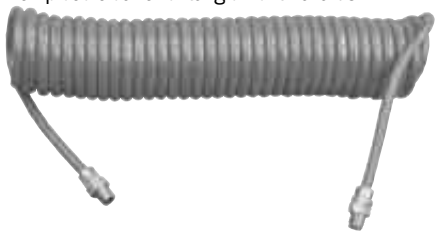
WATER SEPARATOR continuously removes moisture from the air supply helping to prevent corrosion to the internal components of the air tool. The spring valve allows immediate draining of reservoir without any down time.

Description	Order Code KBE-280
1/4 BSP Water Separator	**-1900K**

HEAVY DUTY NYLON AIR HOSE recoils to a fraction of its working length when not in use leaving the workplace clear of entanglement hazards. Solid brass couplings with 360° swivel and spring protectors allow use in any direction.

Nylon Connector	Outside Diameter	Length	Normal Rating	Order Code KBE-280
1/4 BSPT	6mm	7.5mm	250PSI	**-1140K**
3/8 BSPT	9.5mm	7.5mm	150PSI	**-1300K**

HI-FLEX POLYURETHANE AIR HOSE with brass 360° swivel couplings, ideal for use in awkward access areas. Recoils to a fraction of its working length leaving the workpiece clear of entanglement hazards.



PU Connector	Outside Diameter	Length	Normal Rating	Order Code KBE-280
1/4 BSPT	8mm	7.5mm	150PSI	**-1160K**
1/4 BSPT	9.5mm	7.5mm	150PSI	**-1320K**

MINI OILER feeds oil directly into the airline ensuring your air tool is well lubricated at all times preventing corrosion. The clear body reservoir allows immediate inspection of the oil level. All brass construction.

Description	Order Code KBE-280
1/4 BSP Mini Oiler	**-1400K**

CASE CONTENTS

I x Mini Random Orbital Sander.

I x Spindle Key.

I x 2" Velcro Backing Pad.

I x 3" Velcro Backing Pad.

10 x 2" 320 Grit Sanding Paper **Order Code KBE-280-0203A**

10 x 3" 320 Grit Sanding Paper **Order Code KBE-280-0206A**

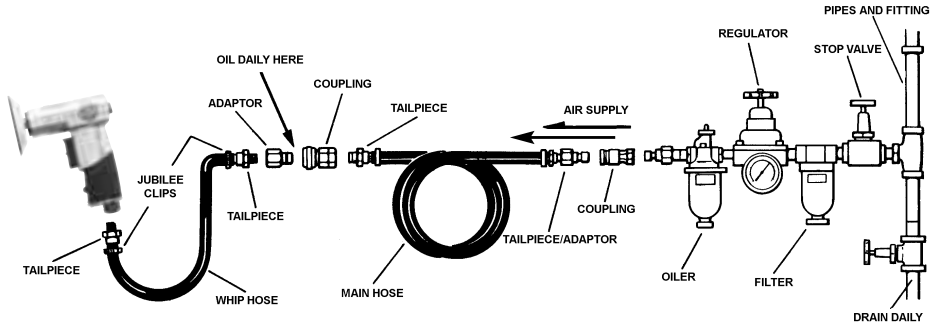
10 x 2" 400 Grit Sanding Paper **Order Code KBE-280-0204A**

10 x 3" 400 Grit Sanding Paper **Order Code KBE-280-0207A**

10 x 2" 600 Grit Sanding Paper **Order Code KBE-280-0205A**

10 x 3" 600 Grit Sanding Paper **Order Code KBE-280-0208A**

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 will reduce the tool life.
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 4414 and ISO 6150.**

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 orbital sander 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 air motor oil to the inlet once a day (See fig 1). ISO Grade VG22 oil is recommended.

Any excess oil in the motor is expelled immediately from the exhaust port. Always direct the exhaust port away from people or objects.

Do not lubricate the orbital sander with flammable or volatile liquids such as kerosene, diesel or jet fuel.

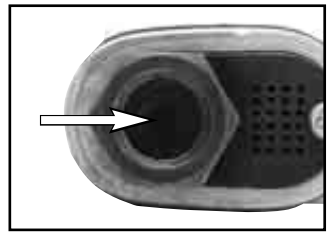


Fig. 1

OPERATION

1. Remove the plastic dust cap using a pair of pliers (See fig. 2).
2. Hold the orbital sander with two fingers on the trigger and squeeze it (See fig. 3).
3. Adjust the power regulator on the back of the orbital sander by turning it in either direction (See fig. 4).
4. Beware of the tool running on for some time after the throttle lever is released.

ATTACHING/REPLACING SANDING SHEETS

1. Always disconnect the orbital sander from the air supply before changing the sanding sheets.
2. Peel off the sanding sheet and remove any dust from the backing pad by tapping or using compressed air.
3. Attach the new sanding sheet and press it on firmly with your hand.

CHANGING THE BACKING PAD

1. Always disconnect the orbital sander from the air supply before changing the backing pads.
2. Use the spindle key to rotate the guard (See fig. 5) until a hole can be seen through the hole on the counter balance.
3. Place the spindle key into the hole (See fig.6) and turn the backing pad until the spindle key goes in further and the abrasive pad will not turn any more.
4. Keeping the spindle key in the hole, unscrew the backing pad (See fig.7).
5. Screw on the other backing pad and remove the spindle key.


Fig. 2


Fig. 3

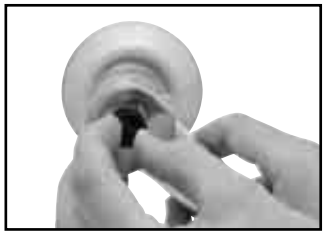


Fig. 4

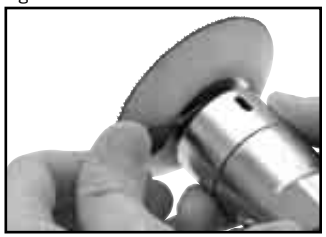


Fig. 5

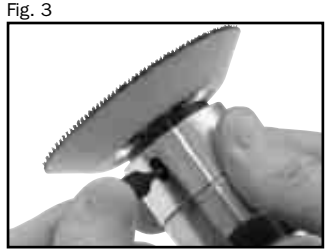


Fig. 6

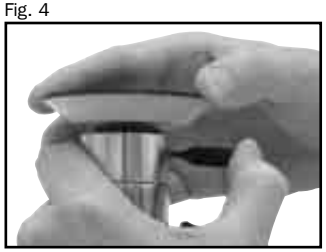


Fig. 7

MAINTENANCE

Disassemble and inspect higher wear parts every three months if the tool is used every day and replace damaged or worn parts.

Replace as necessary all "O" rings, bearings and rotor blades, see parts break down. 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 nearest agent. Remember to quote tool model number and spare part number when ordering spares.

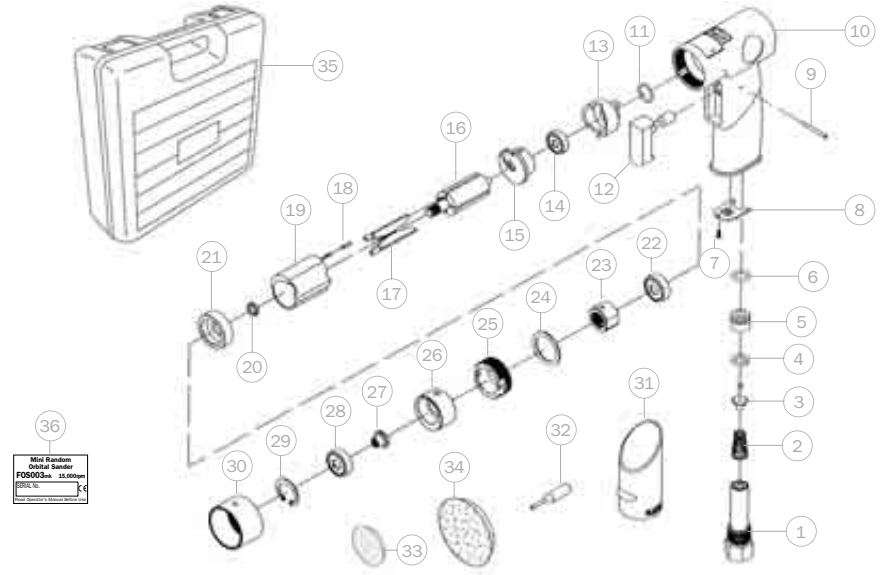
When disposing of components, lubricants, etc. ensure that relevant environmental procedures are carried out.

SERVICE & REPAIR

Servicing should be carried out at intervals of 1000 hours use.

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

SPARE PARTS BREAKDOWN



No.	Order Code	Description	No.	Order Code	Description
1	KBE-298-4075S	Air Inlet	19	KBE-298-4245S	Cylinder
2	KBE-298-4085S	Spring	20	KBE-298-4255S	Rotor Brush
3	KBE-298-4095S	Valve Stem	21	KBE-298-4265S	Front Plate
4	KBE-298-4105S	Rubber Spacer	22	KBE-298-4275S	Ball Bearing (608ZZ)
5	KBE-298-4115S	Valve	23	KBE-298-4285S	Connector
6	KBE-298-4125S	"O" Ring (9.8x2.4)	24	KBE-298-4295S	Spacer
7	KBE-298-4135S	Screw (M3x8L)	25	KBE-298-4305S	Motor Lock Nut
8	KBE-298-4145S	Diffuser	26	KBE-298-4315S	Counter Balance
9	KBE-298-9358S	Pin (2.5x25.8)	27	KBE-298-4325S	Nut
10	KBE-298-4155S	Motor Housing	28	KBE-298-4335S	Ball Bearing (608RS)
11	KBE-298-4165S	"O" Ring (12.42x1.78)	29	KBE-298-4345S	Stop Ring (RTW-22)
12	KBE-298-4175S	Trigger	30	KBE-298-4355S	Guard
13	KBE-298-4185S	Air Regulator	31	KBE-298-4365S	Rubber Grip
14	KBE-298-4195S	Ball Bearing (626ZZ)	32	KBE-280-0200A	Spindle Key
15	KBE-298-4205S	Rear Plate	33	KBE-280-0201A	2" Velcro Backing Pad
16	KBE-298-4215S	Rotor	34	KBE-280-0202A	3" Velcro Backing Pad
17	KBE-298-4225S	Rotor Blades (4)	35	KBE-280-0209A	Blow Moulded Case
18	KBE-298-4235S	Spring Pin (1.5x6)	36	KEN-988-5006K	Specification Label