THE ENVIRONMENT

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

DECLARATION OF CONFORMITY

We hereby certify that KOBE RANDOM ORBITAL SANDER 150mm

(ORDER CODE: KBE-270-2720K)

complies with all the relevant provisions of the

Machinery Directive 2006/42/EC

Standards Applied:

EN ISO 12100:2010 , EN ISO 11148-8:2011 , EN ISO 28927-3:2009

Signed:

Date: 1st June 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 LTD, WIGSTON. LEICESTER, ENGLAND. LE18 2FS.

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KOBE™

INDUSTRIAL POWER TOOLS

RANDOM ORBITAL SANDER 150MM

MODEL:
FS0150

ORDER CODE:
KBE-270-2720K

- **Suitable for shaping, blending, smoothing body filler and rapid material removal**
- **150mm diameter Hook & Loop backing pad**
- **12,000rpm**
- **Rubber handle provides grip and operator comfort**
- **Random orbit for a swirl free finish**
- **One or two handed operation**
- **Can be used for wet sanding**
- **Due to its self generating vacuum, it can be attached to a Portable Dust Collection System to help reduce airborne dust and clean-up time**
- **Rotating air inlet to prevent the air hose tangling**
- **Speed control conveniently located for easy adjustment**
- **Ball bearing construction for a long tool life**



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

OPERATOR'S MANUAL

Please retain this information for future reference.

NOTES

NOTES

KOBE INDUSTRIAL 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 product will last for many years.

KOBE PROFESSIONAL AIR TOOLS have been specifically designed to help you work SAFELY and EFFICIENTLY. Your care and good judgment 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 relevant ones have been highlighted.

GENERAL OPERATING HAZARDS

- Keep clear from all rotating spindles and moving parts.
- Always wear approved eye and face protection during operation, repair or maintenance of the tools, or whilst changing accessories.
- Ensure that all others in the area are wearing approved eye and face 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 safety lever throttle (where fitted).
- Ensure that all guards are correctly fitted.
- 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.

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.
- Proceed with care in unfamiliar surroundings. Hidden hazards may exist, such as drilling into electricity lines.
- These tools are not intended for use in a flammable or combustible atmosphere and are not insulated for contact with electric power sources.

PERSONAL PROTECTION

- **ALWAYS** ensure that long hair and/or loose clothing is secured.
- **AVOID** wearing watches, rings or bracelets whilst using this tool.



SPECIFIC OPERATING HAZARDS

- Do not use hand sockets on impact tools.
- Poor condition sockets or hand sockets used with impact wrenches can shatter.
- Always use the simplest hook-up possible. Long springy extension bars and adaptors absorb impact power and could break. Use deep sockets wherever possible.

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 on tool. See instructions for correct set up.
- Whenever universal twist couplings are used, lock pins must be installed.
- Do not exceed maximum air pressure of 90psi/6.2bar or as stated on tool nameplate.

SPECIFICATIONS

MODEL NUMBER	FSO150
BACKING PAD SIZE	Ø 150mm (6”)
BACKING PAD TYPE	Hook & Loop
ORBIT DIAMETER	5mm (3/16”)
SUCTION TYPE	Self generating vacuum
SPINDLE SIZE	5/16” NPT
FREE SPEED	12,000rpm
AIR INLET THREAD	1/4” NPT
MINIMUM AIR HOSE SIZE (ID)	10mm (3/8”)
AIR PRESSURE	6.2bar (90psi)

MOTOR POWER	0.2hp
AIR CONSUMPTION[1]	385Ltr/m (3cfm)
SOUND POWER LEVEL	83.52dBA
SOUND PRESSURE/NOISE LEVEL	72.52dBA
VIBRATION LEVEL[2]	2.8m/s^2
OVERALL LENGTH	280mm
NET WEIGHT	1.04kg

[1] Air consumption without load in 1 minute.
[2] Per EN 28662-1 and EN 28662-8.

UNPACKING & BOX CONTENTS

It is recommended that the packaging materials (plastic bags, polystyrene, cable ties etc.) are saved for future transportation of the tool in the event of it requiring service or repair. If you decide not to keep them, they must be disposed of in an appropriate refuse collection container. These materials must not be left within the reach of children as they are potential sources of danger.

Make sure the tool is in perfect condition and that there are no visible damaged parts. If in doubt, do not use the tool and contact your local Kobe agent from whom it was purchased.

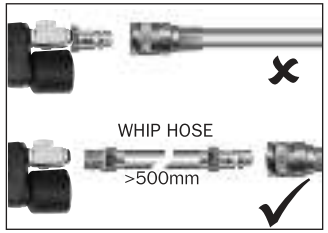


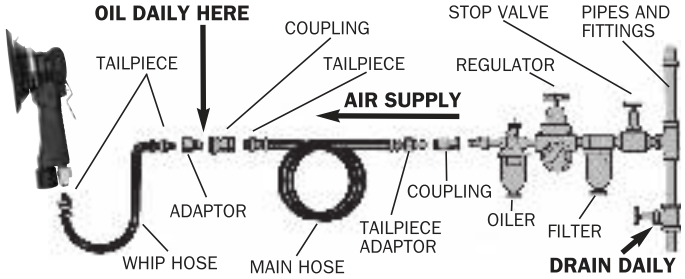
I x Random Orbital Sander FSO150



1 x 24mm Spanner.

SUGGESTED AIR SUPPLY





Before connecting, ensure the dust cap is removed (See page 5 for further details).
Connect tools to the air line using pipe, hose and fitting sizes listed in the specifications.

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.

SPARE PARTS BREAKDOWN

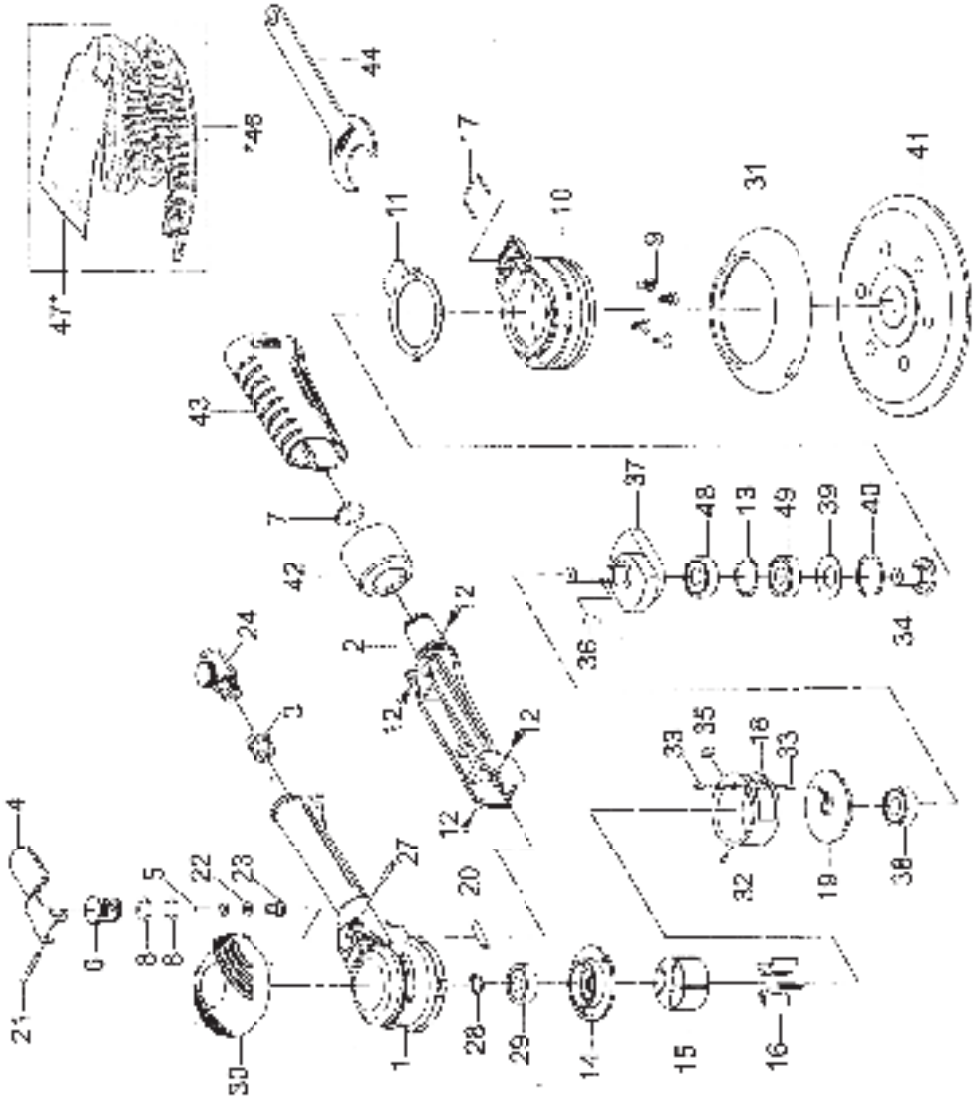
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Index No.	Order Code	Description	QTY
1	KBE-298-5692A	HOUSING	1
2	KBE-298-5701B	VACUUM ADAPTOR	1
3	KBE-298-0006M	AIR INLET	1
4	KBE-298-5703D	THROTTLE LEVER	1
5	KBE-298-5704E	VALVE	1
6	KBE-298-5692F	BUSHING	1
7	KBE-298-5706G	“O” RING (17.5X1.5)	1
8	KBE-298-5707H	“O” RING (2) (12X1.5)	1
9	KBE-298-5708J	SCREW (4) (M4X10)	1
10	KBE-298-5709K	PLASTIC SHROUD	1
11	KBE-298-5710L	GASKET	1
12	KBE-298-5711M	SCREW (4) (M3X8)	1
13	KBE-298-5712N	WASHER	1
14	KBE-298-5713P	REAR END PLATE	1
15	KBE-298-5714Q	ROTOR	1
16	KBE-298-5715R	ROTOR BLADE (5)	1
17	KBE-298-5716S	RUBBER STRIP	1
18	KBE-298-5717T	CYLINDER	1
19	KBE-298-5718V	FRONT END PLATE	1
20	KBE-298-5719W	BRASS TUBE	1
21	KBE-298-0004S	SPRING PIN (3X24L)	1
22	KBE-298-3506S	“O” RING (P5)	1
23	KBE-298-1801S	SPRING	1
24	KBE-298-5325H	REGULATOR	1
27	KBE-298-5260N	PIN (Ø3X17.8L)	1
28	KBE-298-5728E	RETAINER RING	1
29	CES-298-6001B	BALL BEARING (6000ZZ)	1

Index No.	Order Code	Description	QTY
30	KBE-298-5730G	RUBBER HAT	1
31	KBE-298-5731H	SHROUD	1
32	KBE-298-9347S	SPRING PIN (2.5X5L)	1
33	KBE-298-5733K	SPRING PIN (2) (3X6L)	1
34	KBE-298-5734L	SHAFT	1
35	KBE-298-5735M	“O” RING (6X1.5)	1
36	KBE-298-5134L	KEY (3X13)	1
37	KBE-298-5737P	BALANCER SHAFT	1
38	CES-298-6002M	BALL BEARING (3) (6001ZZ)	1
39	KBE-298-5739R	WASHER	1
40	KBE-298-5740S	SNAP RING	1
41	KEN-280-3390K	150MM BACKING PAD FOR	1
	KEN-280-3920K*	150MM BACKING PAD FOR	1
43	KBE-298-5743W	GRIP	1
44	KBE-298-5744X	SPANNER	1
46*	KBE-298-5852M	SELF VACUUM PIPE	1
47*	KBE-298-5835E	SELF VACUUM BAG	1
48	KBE-298-5801G	BALL BEARING (6001)	1
49	KBE-298-5801L	BALL BEARING (6001P)	1

*NOT INCLUDED WITH THE RANDOM ORBITAL SANDER FSO150.

SPARE PARTS BREAKDOWN



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 air tool 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.

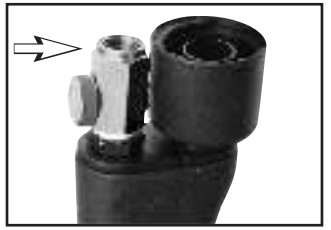


Fig. 1

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 tool with flammable or volatile liquids such as paraffin (kerosene), diesel or jet fuel.

OPERATION Continued

DUST COLLECTION

Always wear a protective dust mask in addition to using a dust extraction hose.

The Orbital Sander generates its own vacuum. Kobe Tools thoroughly recommends that the Orbital Sander is connected to a Portable Dust Collection System (See fig. 2) which is sold separately (See page 6) or connected to a central vacuuming system.



Fig. 2

OPERATION

Remove foreign objects such as nails and screws from the work piece before commencing sanding.

1. Carry out daily inspection and lubrication of the tool.
2. Remove the plastic dust cap using a pair of pliers (See fig. 3).
3. The amount the throttle lever is pressed down, will determine the speed of the tool (See fig. 4).
4. Adjust the power regulator on the top of the Orbital Sander by turning it in either direction (See fig. 5).
5. To get an even finish, move the Orbital Sander up and down and then change the direction from left to right (See fig. 6).
6. To avoid unwanted swirl marks, place the Orbital Sander on the material and then switch it on. When finished sanding, remove the Orbital Sander and then switch it off.
7. Beware of the tool running on for some time after the throttle lever is released.

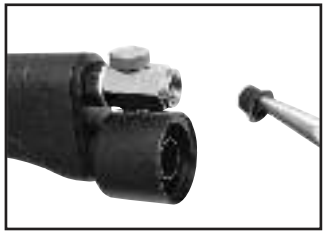


Fig. 3



Fig. 4



Fig. 5

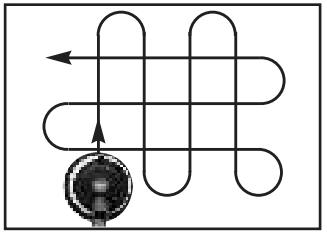


Fig. 6

OPERATION

ATTACHING/REPLACING SANDING SHEETS

1. Always disconnect the Orbital Sander from the air supply before changing the sanding sheets.
2. This sander is equipped to accept Hook & Loop type sanding sheets. Simply align the edges of the sanding sheet with the backing pad, ensure the holes are correctly aligned and press together firmly. If the sanding sheet is a non-punched type, use a suitable tool to pierce the sheet in the appropriate areas before fitting.
3. When used, peel off the sanding sheet and remove any dust from the backing pad by tapping it gently or using compressed air.


Fig. 7

REPLACING THE BACKING PAD

1. Always disconnect the Orbital Sander from the air supply before changing the backing pad.
2. To access the shaft, lift up the edge of the shroud by holding the tab (See fig. 7) and fold it up (See fig. 8).
3. Insert the spanner provided and locate it onto the flats on the side of the shaft (See fig. 9).
4. Hold the spanner firmly along with the Orbital Sander whilst unscrewing the backing pad (See fig. 10).
5. Still holding the spanner and the Orbital Sander firmly, attach a new backing pad. **Do not over tighten it.**
6. Fold the shroud back down.
7. Check to make sure the backing pad is rotating freely. If it is not, slide the shroud further up the body of the Orbital Sander.
8. **Always ensure the spanner has been completely removed before restarting the Orbital Sander.**


Fig. 8


Fig. 9


Fig. 10

TROUBLESHOOTING

Other factors outside the tool may cause loss of power or erratic action. Reduced compressor output, excessive drain on the airline, moisture or restrictions in air pipes or the use of hose connections of improper size or poor conditions may reduce air supply. If outside conditions are in order and the tool still runs erratically, disconnect the tool from the air hose and take it to your local Kobe agent.

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, 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. 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 1,000 hours use or every 12 months, whichever is sooner.

A comprehensive repair and service facility is available through your local Kobe agent for all your electric and pneumatic tools.





THE ENVIRONMENT



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

Never allow lubricants to contaminate rivers, water ways or drains.