KOBE INDUSTRIAL 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 KOBE AUTOMATIC SHUT-OFF SCREWDRIVER 0.6-5.1Nm

(ORDER CODE: KBE-270-3760K)

complies with all the relevant provisions of the

Directives: Machinery 2006/42/EC.

Standards Applied:

EN ISO 12100:2010 , EN ISO 11148-7:2012, EN ISO 28927-1:2009 & EN ISO 15744:2008.

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 AIR TOOLS

AUTOMATIC SHUT-OFF SCREWDRIVER 0.6-5.1Nm

MODEL:
CSP005s

ORDER CODE:
KBE-270-3760K



- **Heavy duty reverse action pistol grip screwdriver suitable for production and assembly applications**
- **Push to start type with auto shut-off clutch for precision applications**
- **3 interchangeable torque springs allow for easy conversion for new applications**
- **¼" HEX drive.**
- **External torque adjustment does not require disassembly of the tool**
- **Variable speed throttle**
- **Soft ergonomic grip for operator comfort.**
- **Handle exhaust directs air away from the workpiece and operator**
- **Hanging ring included**

CONTINUOUS USE

CE

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 industrial 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 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, 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.

SPECIFIC OPERATING HAZARDS

- The clutch can stall if adjusted over the maximum power output of the tool, or if there is a drop in air pressure. The operator must then resist stall torque until the throttle is released.
- Poor quality bits can cause vibration during run down. Use quality bits.
- The user is responsible for making sure that the specification label on the air tool is kept legible, indicating the model number, serial number and rpm. If not, reorder 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.
- 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.

PERSONAL PROTECTION

- Always ensure that all long hair, loose clothing & jewelry, etc., are secured or removed.
- Avoid wearing watches, rings or bracelets whilst using this tool.



SPECIFICATIONS

FREE SPEED	600rpm
CHUCK SIZE	1/4" (6mm) HEX
AIR INLET THREAD	1/4"NPT
AIR HOSE SIZE (ID)	3/8"(10mm)
AIR PRESSURE	90PSI (6.2Bar)
GREEN TORQUE SPRING	0.6-2.1 Nm (5-19 in/lbs)
BLACK TORQUE SPRING	1.1-4.3 Nm (10-38 in/lbs)
YELLOW TORQUE SPRING*	1.7-5.1 Nm (15-45 in/lbs)
AIR CONSUMPTION**	4CFM

OVERALL LENGTH	210mm
NET WEIGHT	815g

This Tool Produces a Noise Level of 84 dBA Sound Pressure and 93 dBA Sound Power Per Pneurop Standard PrEN ISO15744:2008. Vibration Level is 0.5m/s² tested per EN ISO 28927-2:2009

* Already pre-installed.

**Air consumption without load in 1 minute.

BOX CONTENTS



I x Automatic Shut-off Screwdriver.



1 x Green Torque Spring 0.6-2.1 Nm (5-19 in/lbs).



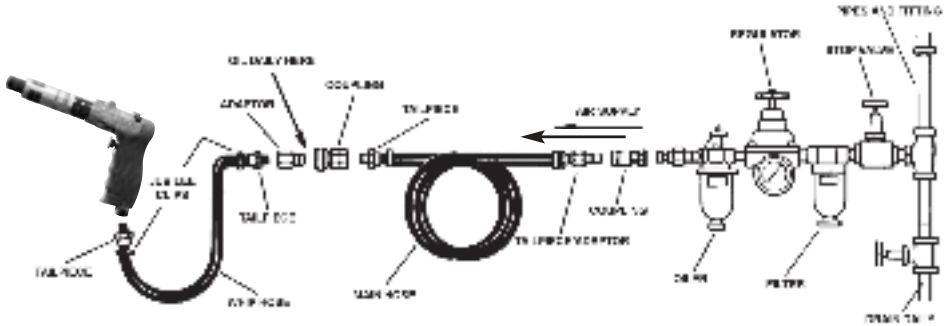
1 x Black Torque Spring 1.1-4.3 Nm (10-38 in/lbs).



1 x Torque Adjusting Screwdriver.

N.B. 1 x Yellow Torque Spring 1.7-5.1 Nm (15-45 in/lbs) is already pre-installed.

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.

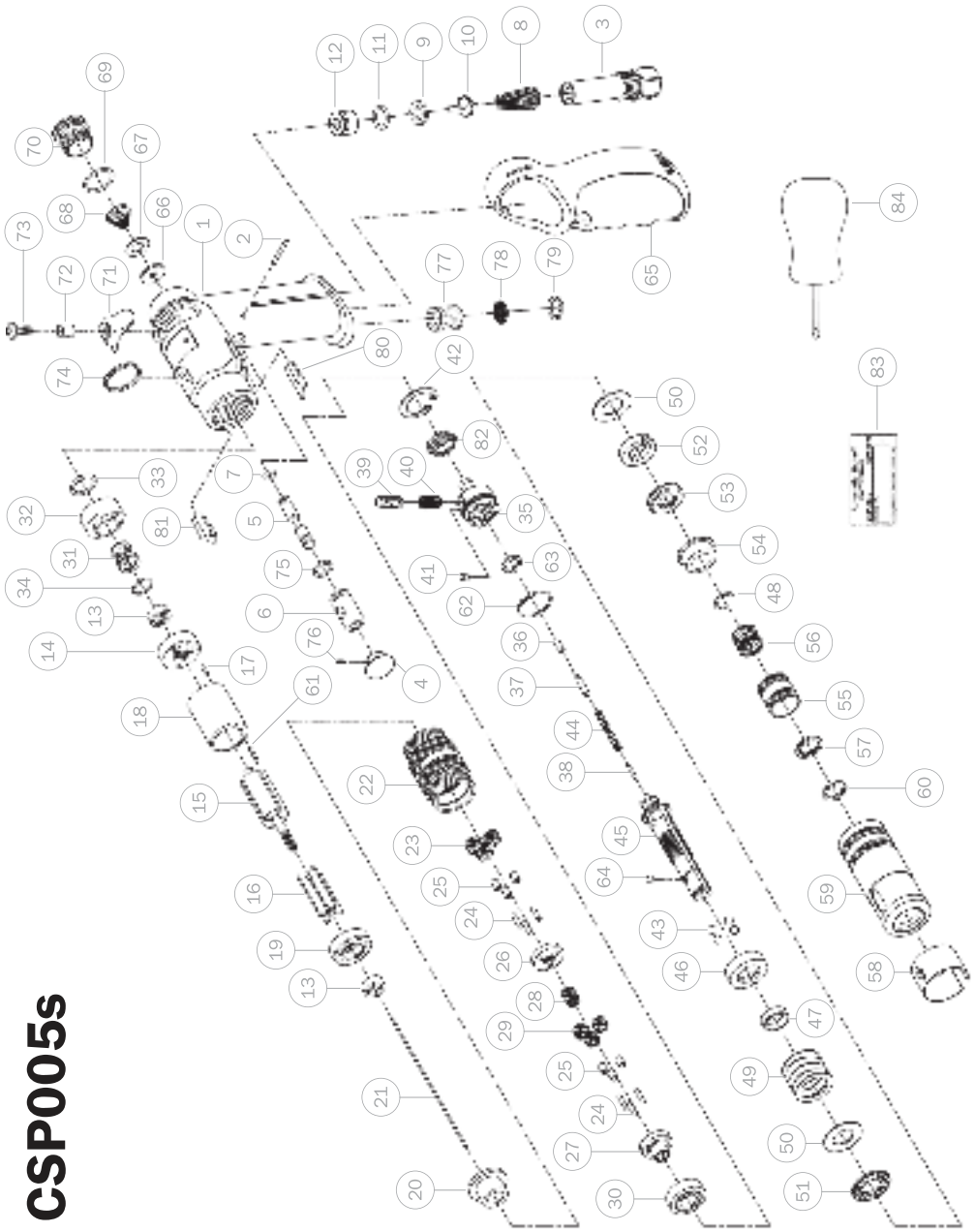
Requirements for Quick Acting Couplings connected to Air Tools:

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 4414 and ISO 6150.**

PARTS BREAKDOWN

Index No.	Order Code	Description	QTY
1	KBE-298-3700S	MOTOR HOUSING	1
2	KBE-298-3701S	PIN (2X18.8)	1
3	KBE-298-3702S	AIR INLET	1
4	KBE-298-3703S	TRIGGER	1
5	KBE-298-3704S	VALVE STEM	1
6	KBE-298-3705S	VALVE BUSHING	1
7	KBE-298-3706S	"O" RING (3.8X1.9)	1
8	KBE-298-3707S	SPRING	1
9	KBE-298-3708S	RUBBER SPACER	1
10	KBE-298-3709S	VALVE STEM	1
11	KBE-298-3710S	"O"RING (10.8X2)	1
12	KBE-298-3711S	VALVE	1
13	KBE-298-3712S	BALL BEARING (2) (R3-ZZ)	1
14	KBE-298-3713S	END PLATE	1
15	KBE-298-3714S	ROTOR	1
16	KBE-298-3715S	ROTOR BLADES (4)	1
17	KBE-298-3716S	SPRING PIN (1.5X6)	1
18	KBE-298-3717S	CYLINDER	1
19	KBE-298-3718S	FRONT END PLATE	1
20	KBE-298-3719S	MOTOR SPACER	1
21	KBE-298-3720S	PUSH NEEDLE	1
22	KBE-298-3721S	INTERNAL GEAR	1
23	KBE-298-3722S	PLANET GEAR (3) (16T)	1
24	KBE-298-3723S	PIN (6) (3/32"X9.5)	1
25	KBE-298-3724S	BUSHING (6)	1
26	KBE-298-3725S	REDUCTION SPINDLE	1
27	KBE-298-3726S	WORK SPINDLE	1
28	KBE-298-3727S	CENTRE GEAR (13T)	1
29	KBE-298-3728S	PLANET GEAR (3) (14T)	1
30	KBE-298-3729S	BALL BEARING (77R6ZZ)	1
31	KBE-298-3730S	INLET NOOSE	1
32	KBE-298-3731S	REVERSE VALVE	1
33	KBE-298-3732S	"O" RING (12.77X1.7)	1
34	KBE-298-3733S	"O" RING (10.5X1)	1
35	KBE-298-3734S	CLUTCH	1
36	KBE-298-3735S	PIN (1/8"X9.6)	1
37	KBE-298-3736S	RESET PIN	1
38	KBE-298-3737S	PIN (1/16"X11)	1
39	KBE-298-3738S	STIRRED LUMP	1
40	KBE-298-3739S	SPRING	1
41	KBE-298-3740S	PLUG	1
42	KBE-298-3741S	INTERNAL RING (RTW-22)	1
43	KBE-298-3742S	STEEL BALL (4) (3/16")	1
44	KBE-298-3743S	SPRING	1
45	KBE-298-3744S	CAM SPINDLE	1
46	KBE-298-3745S	COVER	1
47	KBE-298-3746S	BUSHING	1
48	KBE-298-3747S	"C" RING (5103-43)	1

Index No.	Order Code	Description	QTY
49	KBE-298-3748S	GREEN TORQUE SPRING 0.6-2.1NM (5-19IN/LBS)	1
	KBE-298-S	BLACK TORQUE SPRING 1.1-4.3NM (10-38IN/LBS)	1
	KBE-298-S	YELLOW TORQUE SPRING 1.7-5.1NM (15-45IN/LBS)	1
50	KBE-298-3749S	THRUST RACE (2) (TRA-815)	1
51	KBE-298-3750S	ROLLER THRUST BEARING	1
52	KBE-298-3751S	ADJUSTMENT LOCK RING (NTA-815)	1
53	KBE-298-3752S	ADJUSTMENT NUT	1
54	KBE-298-3753S	SPINDLE BUSHING	1
55	KBE-298-3754S	BALL RETAINER	1
56	KBE-298-3755S	SPRING	1
57	KBE-298-3756S	WASHER	1
58	KBE-298-3757S	ADJUSTMENT COVER	1
59	KBE-298-3758S	CLUTCH HOUSING	1
60	KBE-298-3759S	RETAINING RING (ISTW-11)	1
61	KBE-298-3760S	SPRING PIN (1.6X10)	1
62	KBE-298-3761S	RETAINER RING	1
63	KBE-298-3762S	STEEL BALL (13) (3/32")	1
64	KBE-298-3763S	STEEL BALL (1/8")	1
65	KBE-298-3764S	RUBBER GRIP	1
66	KBE-298-3765S	SHUT-OFF VALVE SEAT	1
67	KBE-298-3766S	SHUT-OFF VALVE	1
68	KBE-298-3767S	SHUT-OFF VALVE SPRING	1
69	KBE-298-3768S	"O" RING (15.7X1.7)	1
70	KBE-298-3769S	VALVE CAP	1
71	KBE-298-3770S	REVERSING VALVE KNOB	1
72	KBE-298-3771S	REVERSING KNOB SPACER	1
73	KBE-298-3772S	SCREW (#10-32UNFX12)	1
74	KBE-298-3773S	RING	1
75	KBE-298-3774S	"O" RING (8.8X1.7)	1
76	KBE-298-3775S	SET SCREW (M3X4L)	1
77	KBE-298-3776S	DAMPING MATERIAL	1
78	KBE-298-3777S	FILTER NET	1
79	KBE-298-3778S	INTERNAL RING (RTW-12)	1
80	KBE-298-3779S	RUBBER SHIELD	1
81	KBE-298-3780S	RUBBER SHIELD	1
82	KBE-298-3781S	SPRING	1
83	KBE-298-3782S	SPECIFICATION LABEL	1
84	KEN-572-1220K	SCREWDRIVER	1



CSP005s

Remove the plastic dust cap using a pair of pliers and connect the screwdriver to the air supply using a whip hose.

To insert and remove a hex bit, pull the ball retainer away from the tool (See fig. 2).

The Screwdriver is designed to start when the hex bit is depressed against a fastener and stop when the clutch reaches the set torque, the trigger is released or pressure is removed from the bit.

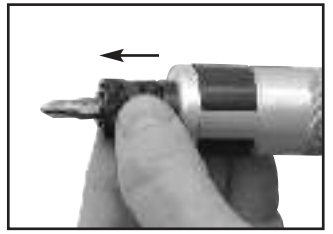


Fig. 2

CHANGING THE TORQUE SPRING

1. Remove the clutch housing by unscrewing it in the direction shown (See fig. 3). Be careful not to loose the spring.
2. The clutch assembly can now be removed (See fig. 3).
3. Using an external circlip plier remove the retaining ring. The washer, spring and ball retainer can now slide off the clutch assembly. Make sure the steel ball does not fall out. Using pliers, the “C” ring can be pulled off allowing the spindle bushing to be removed (See fig. 4).
4. Place the torque adjusting screwdriver which is provided between the adjustment nut and the adjustment lock ring. Turn the screwdriver in a counterclockwise direction (See fig. 5).
   Slowly the adjustment nut will work loose until a point at which it can be rotated using your fingers.
5. The adjustment nut and ring along with the roller thrust bearing, can now be removed. The Torque spring can be removed and replaced with a different torque spring (See fig. 6).
6. Replace the components in the reverse order ensuring that the ball retainer and the spindle bushing go on the correct way round.
7. Check the operation of the tool.
8. Torque adjustment maybe necessary. See the “Torque adjustment” section at the top of page 5 for further details.

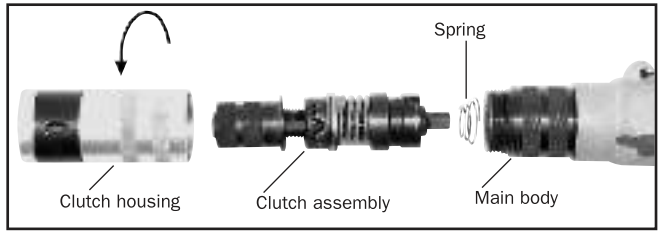


Fig. 3

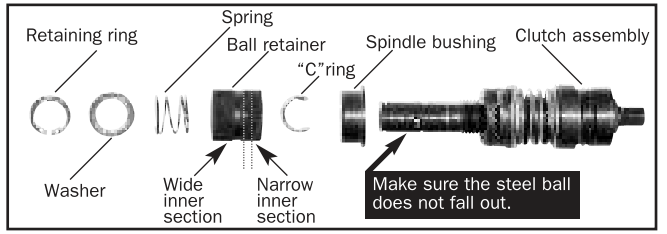


Fig. 4

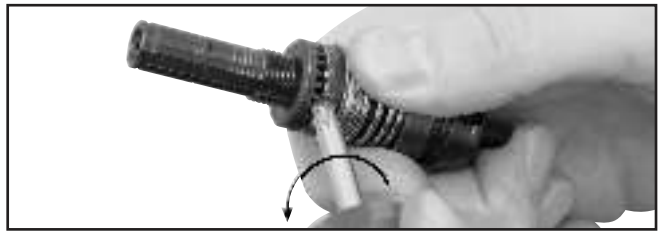


Fig. 5

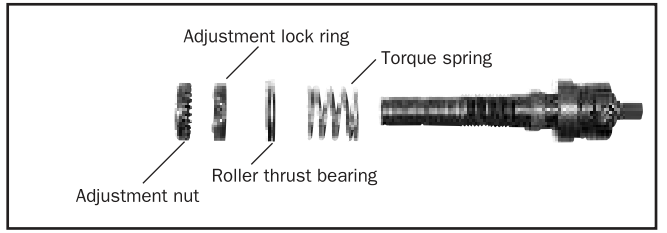


Fig. 6

OPERATION Continued

TORQUE ADJUSTMENT

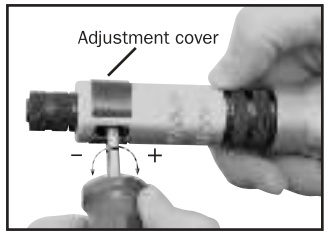


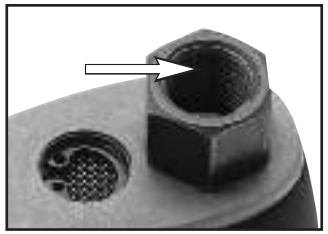
Fig. 7

1. Rotate the adjustment cover to expose the adjustment slot.
2. Rotate the clutch housing until the hole in the adjustment lock plate is visible.
3. Insert the torque adjusting screwdriver which is provided and rotate in a clockwise direction to increase the torque setting or a counterclockwise direction to decrease the setting.
4. After altering the torque setting, the adjustment cover should be rotated back to its locked position (See fig. 7).
5. **CAUTION** Check the operation of the tool by holding it securely whilst being prepared to counteract stall torque if the torque has been improperly adjusted. If the clutch is adjusted over the maximum power output of the tool, the clutch will not function and the tool will operate like a stall-type tool. Also, if the tool is being operated at its upper torque limits, a drop in air pressure could cause the clutch not to function due to a loss of motor power and the tool will function like a stall-type tool. If the tool stalls, the operator must resist stall torque until the throttle is released.

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 screwdriver 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 screwdriver with flammable or volatile liquids such as kerosene, diesel or jet fuel.

TROUBLE SHOOTING

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 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 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 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 or every 12 months, whichever is sooner.

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

SERVICE & REPAIRS

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



