# Original instruction

### GENERAL SAFETY INSTRUCTIONS

WARNING! Read all instructions. Failure to follow all instructions listed below may result in electric shock, fire and /or serious injury. The term "power tool" in all of the warnings listed below refers to your mains operated power tool.

### SAVE THESE INSTRUCTIONS.

### 1) WORK AREA

a) **Keep work area clean and well lit.** Cluttered and dark areas invite accidents.

b) Do not operate power tools in explosive atmospheres, such as in the presence of flammable **liquids, gases or dust.** Power tools create sparks which may ignite the dust or fumes. c) Keep children and bystanders away while operating a power tool. Distractions can cause you to

### 2) ELECTRICAL SAFETY

a) Power tool plugs must match the outlet. Never modify the plugs in any way. Do not use any adapter plugs with earthed grounded power tools. Unmodified plugs and matching outlets will reduce risk of electric shock

b) Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges and **refrigerators.** There is an increased risk of electric shock if your body is earthed or grounded. c) **Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock

Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. d) **Keep cord away from heat, oil, sharp edges or moving parts.** Damaged or entangled cords increase the risk of electric shock.

e) When operating a power tool outdoors, use an extension cord suitable for outdoor use. Use of a cord suitable for outdoor use reduces the risk of electric shock f) If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply. Use of an RCD reduces the risk of electric shock.

### 3) PERSONAL SAFETY

a) Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating power tools may result in serious personal injury.

b) Use personal protective equipment. Always wear eye protection. protective equipment such as dust mask, no-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce

c) Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the tool. Carrying power tools with your finger on the switch or energising power tools that have the switch on invites accidents.

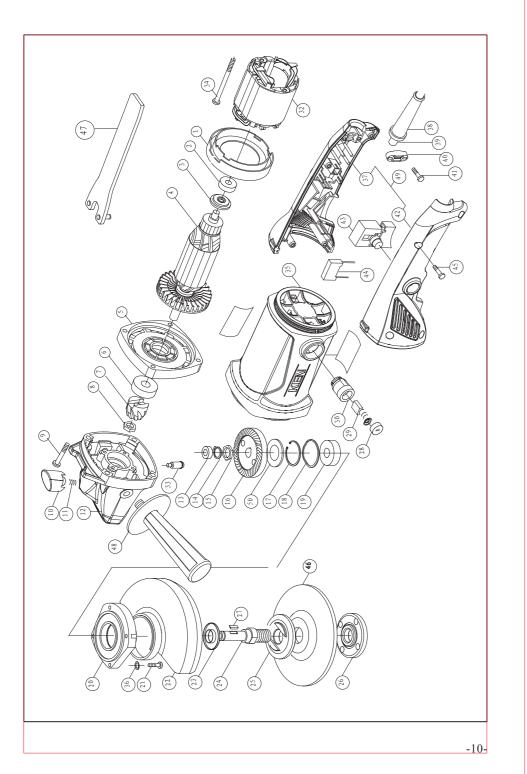
d) Remove any adjusting key or wrench before turning the power tool on. A wrench or a key left attached to a rotating part of the power tool may result in personal injury. e) Do not overreach. Keep proper footing and balance at all times. This enables better control of the

power tool in unexpected situations f) Dress properly. Do not wear loose clothing or jeweler. Keep your hair, clothing and gloves away

**from moving parts.** Loose clothes, jeweler or long hair can be caught in moving parts. g) If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used. Use of these devices can reduce dust related hazards.

# 4) POWER TOOL USE AND CARE

a) Do not force the power tool. Use the correct power tool for your application. The correct power tool will do the job better and safer at the rate for which it was designed.





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# ■ PRACTICAL TIPS

electric brush (Picture Eight).

**♦** Replace the Electric Brush

The tool has set the electric brush limited position

equipment especially, please replace the electric

brush if there's big sparks or the rotation stops

during the running. Please use screwdriver to

screw the lid of the electric brush and take out the wearing electric brush and install the new ones,

and please use hands to try and confirm it can slide

freely in the slot, and then install and screw the lid

of the electric brush. Please replace two brushes at

the same time, and use the specified "KEN" brand

Please use the cymbal shape emery wheel which linear velocity is higher than the speed stipulated n the name plate of the body, and use correct grinding and cutting face to do the processing. Don't use the upside face and side face of the emery wheel.

The using emery wheel must be in complete and perfect working condition, it has no disruption sound if beat it slightly with wooden mallet, the reserving period of the emery wheel shall not over one year, it only can be used after making tests of turn and hardness if the period has passed one year. ◆ Don't insert the electric source plug into the socket when assemble or disassemble the emery

wheel. The maximum circumference speed of all the emery wheels shall not less than 4800m/min. Prohibit doing grinding and cutting work on the condition that the protective shield has been dismantled. When putting away the tool, please do switch off the current source and wait for the

# ■ MAINTENANCE AND CARE

emery wheel completely stops.

• Unplug the tool from the socket before performing any works on the tool!

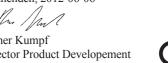
· Tool requires no special maintenance, but after some time you must control the parts that are submitted to wear-and-tear under normal operating conditions. This includes the control and replacement of carbon brushes and grease in reducing gear housing. Take the tool to an authorized

- Keep the tool and supply cord clean. Keep ventilation slots clean and open. Wipe the surface of the

• It is not allowed to use household cleaning agents that contain petrol, trichloroethylene, ammonia and chlorides. These substances corrode and damage plastic parts of the tool. · Excessive sparking generally indicates the presence of dirt in the motor or abnormal wear on the

- In case of electric or mechanical failure, send the tool to a KEN authorized service centre for repair.

We declare under our sole responsibility that the product described under "Technical Data" fulfills all the relevant provisions of the directives 2006/42/EC and the following harmonized standards documents have been used:EN 60745-1; EN 60745-2-3.



Director Product Developement

# SYMBOL V :Volts

Hz:Hertz

:Double insulation

:Wear eye protection Waste electrical products should not :Wear ear protection be disposed of with household waste. Please recycle where facilities exist. Check wity your Lccal Authority or

# n<sub>o</sub>: No load Speed

### retailer for recycling advice. **( €** :CE conformity. min<sup>-1</sup>:Revolutions or reciprocations per minute SAFETY

# a. Only use our recommendedsanding wheelsand the specially-designed safety guard for the wheels. It will be dangerous and could not protect your safety if using other sanding wheels which aren't designed

b. The safety guard must be stably fixed onto the tool and adjusted into the best position, only expose the minimum part of the wheel in front of the operator. The safety guard will protect the operator from being hurt by the exploded sanding wheels or incidentally touching the wheels.

c. Only use the wheels limited to our recommended usages. For example, never grind or cut by the side part of the cutting wheel. The pressures applied on the side part of the wheel may make it damage. d. Always choose the undamaged flanges with correct specifications and shapes for your wheels. The

proper flanges can reduce the risk of wheel breakage. The flanges for cutting wheel might be different e. Do not use the left worn wheel from the big size power tools. The wheel for big size power tools is not

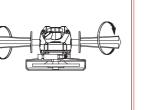
suitable for the small size power tools and may be broken during high-speed operation. f. Ensure the wheel you use is complete without any damage. There should be no breakage by hammering the wheel lightly with a wooden hammer. The valid date for the wheel should not exceed one year

# OPERATION

Observe correct mains voltage: The voltage of the power source must agree with the voltage specified on the nameplate of the machine.

unless it passes the running test and approves OK.

**♦**Subsidiary Handle Please use subsidiary handle in order to do work safely and conveniently. Subsidiary handle can be assembled on the three positions of the tool body (Picture One).



# picture 1

Please read the instructions carefully:

before stariting the machine.

### PARTS LIST of the Mod.9925 9925D 9950 9950D ANGLE GRINDER Name Code Name 321011 Air deflector 133045 133107 211020 Bearing 319032 139032 Plastic ring Inner Flange 4 442010 Armature Outer Flange | 163006G | Medial flange 276004 Kev 6 211043 Bearing 6201-2Z | 28 | 433002A | Brush cap Small Gear 29 | 431007B | Carbon brusl 30 | 432001A | 8 | 261006 | Checking Nut Brush holder 441011 9 221026 Field Screw 317010 Locking pin Locking cap 145006 317021 151001 9925/9950 34 221072 ST5×65 Screw Locking spring | 151005 950D 35 | 313028 | Motor housing 162029D 241002 Spring washer 162105 314056 Right handle 13 211009 607-2Z | 38 | 332006 | Cable protector Bearing 14 | 252004 | Retainer 39 | 411029 | Power cord 15 | 261013 40 318001 Cable clamp 16 | 137015B Big Gear 222002 Screw 17 | 251006 | 42 | 314057 Retainer Left handle 18 | 243007 | Waveform Washer 445007 Switch Bearing Capacitor ST4×18 161009E 9925/9950 | 45 | 221010 Screw 611009 Emery Wheel 21 231027 Screw 611020 112085 623001 Wrench 112086 5/9925D 48 | 627004 | Subsidiary Handle Safety guard 115004 Dust protector 49 712026 Handle assembled 50 | 143022 | Sleeve

b) Do not use the power tool if the switch does not turn it on and off. Any power tool that cannot be controlled with the switch is dangerous and must be repaired

c) Disconnect the plug from the power source and/or the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools. Such preventive safety measures reduce the risk of starting the power tool accidentally. d)Store idle power tools out of the reach of children and do not allow persons unfamiliar

with the power tool or these instructions to operate the power tool. Power tools are dangerous in the hands of untrained users.

e) Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained

f) Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.

g) Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed. Use of the power tool for operations different from those intended could result in a hazardous situation.

Have your power tool serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the power tool is maintained.

**Safety Warnings Common for Grinding Operations:** 

a) This power tool is intended to function as a grinder tool. Read all safety warnings, instructions, illustrations and specifications provided with this power tool. Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury.

b) Operations such as sanding, wire brushing, polishing or cutting-off are not recommended to **be performed with this power tool.** Operations for which the power tool was not designed may create a hazard and cause personal injury.

c) Do not use accessories which are not specifically designed and recommended by the tool manufacturer. Just because the accessory can be attached to your power tool, it does not assure safe

d) The rated speed of the accessory must be at least equal to the maximum speed marked on the **power tool.** Accessories running faster than their rated speed can break and fly apart.

e) The outside diameter and the thickness of your accessory must be within the capacity rating of your power tool. Incorrectly sized accessories cannot be adequately guarded or controlled The arbour size of wheels, flanges, backing pads or any other accessory must properly fit the

spindle of the power tool. Accessories with arbour holes that do not match the mounting hardware of the power tool will run out of balance, vibrate excessively and may cause loss of control. g) Do not use a damaged accessory. Before each use inspect the accessory such as abrasive wheels for chips and cracks, backing pad for cracks, tear or excess wear, wire brush for loose or cracked wires. If power tool or accessory is dropped, inspect for damage or install an undamaged accessory. After inspecting and installing an accessory, position yourself and

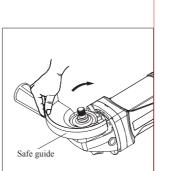
bystanders away from the plane of the rotating accessory and run the power tool at maximum **no-load speed for one minute.** Damaged accessories will normally break apart during this test time. ) Wear personal protective equipment. Depending on application, use face shield, safety goggles or safety glasses. As appropriate, wear dust mask, hearing protectors, gloves and workshop apron capable of stopping small abrasive or workpiece fragments. The eye protection must be

capable of stopping flying debris generated by various operations . The dust mask or respirator must be capable of filtrating particles generated by your operation. Prolonged exposure to high intensity noise may cause hearing loss Keep bystanders a safe distance away from work area. Anyone entering the work area must

wear personal protective equipment. Fragments of workpiece or of a broken accessory may fly away and cause injury beyond immediate area of operation.

# ◆Protective Shield of the Emery Wheel

Please aim the convex end of the emery wheel shield to the slot mouth of the front cover, and then rotate the shield body to 180 degree (Picture Two).



picture 2

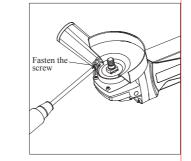
# Tighten the fastening screw (Picture Three)

**♦** Assemble or Disassemble the Emery Wheel

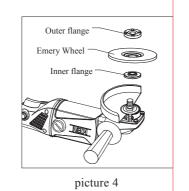
Equip the inner flange on the output axis, and then

equip the emery wheel on the inner flange, screw

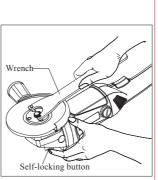
the outer flange the output axis (Picture Four).



picture 3



◆ Press the self-locking button, use the special wrench to screw the upper pressure plate tightly (Picture Five).



# Switching on/off

Press or release the on/off switch. The on/off switch can be locked on with the

Press the locking button with thumb, release on/off switch.

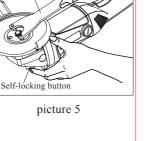
To release, briefly press and release the on/off

switch (Picture Six).

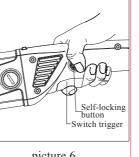
### **◆** Effective and Safe Grinding and Cutting Methods Please use the correct part of the emery wheel, otherwise it is easy to be damaged.

 The users can get satisfied effects if the users give 1/2 strength compared with the own weight of the tool. Over strength is easy to make the tool engine and emery wheel damaged because of overload. · Generally speaking, please keep the grinding and cutting part of the emery wheel and disc in the scope of 15 to 30 degree with the surface of processing object (Picture Seven).

· When you use new emery wheel, please don't move the tool toward B direction, otherwise, the processing object is easy to cut-off. When the margin angle of the emery wheel turns round, the tool can be moved towards two directions of A and B (Picture Seven).







# SERVICING AND REPAIRS

j) Hold power tool by insulated gripping surfaces only, when performing an operation where the

k) Position the cord clear of the spinning accessory. If you lose control, the cord may be cut or

1) Never lay the power tool down until the accessory has come to a complete stop. The spinning

m)Do not run the power tool while carrying it at your side. Accidental contact with the spinning

n) **Regularly clean the power tool's air vents.** The motor's fan will draw the dust inside the housing

p) Do not use accessories that require liquid coolants. Using water or other liquid coolants may

Kickback is a sudden reaction to a pinched or snagged rotating wheel, backing pad, brush or any

other accessory. Pinching or snagging causes rapid stalling of the rotating accessory which in turn

causes the uncontrolled power tool to be forced in the direction opposite of the accessory's rotation at

For example, if an abrasive wheel is snagged or pinched by the workpiece, the edge of the wheel that

is entering into the pinch point can dig into the surface of the material causing the wheel to climb out

or kick out. The wheel may either jump toward or away from the operator, depending on direction of

the wheel's movement at the point of pinching. Abrasive wheels may also break under these

Kickback is the result of power tool misuse and/or incorrect operating procedures or conditions and

a) Maintain a firm grip on the power tool and position your body and arm to allow you to resist

or torque reaction during start-up. The operator can control torque reactions or kickback forces, if

c) Do not position your body in the area where power tool will move if kickback occurs. Kickback

d) Use special care when working corners, sharp edges etc. Avoid bouncing and snagging the

e) Do not attach a saw chain woodcarving blade or toothed saw blade. Such blades create frequent

IMPORTANT: Hold power tool by insulated gripping surfaces, when performing an

accessory contacting a "live" wire may make exposed metal parts of the power tool "live" and could

operation where the cutting accessory may contact hidden wiring or its own cord. Cutting

Thank you for buying a KEN power tool. Should you have any questions, vagueness or second thoughts

about our products, we recommend you to contact our experts in Sales and Service Departments, who

will advise you and help you find the right answers to the set questions. Please contact our local distributors

accessory. Corners, sharp edges or bouncing have a tendency to snag the rotating accessory and

b) Never place your hand near the rotating accessory. Accessory may kickback over your hand.

will propel the tool in direction opposite to the wheel's movement at the point of snagging.

kickback forces. Always use auxiliary handle, if provided, for maximum control over kickback

o) **Do not operate the power tool near flammable materials.** Sparks could ignite these materials.

"live" wire may make exposed metal parts of the power tool "live" and shock the operator.

snagged and your hand or arm may be pulled into the spinning accessory.

accessory may grab the surface and pull the power tool out of your control.

accessory could snag your clothing, pulling the accessory into your body.

can be avoided by taking proper precautions as given below.

result in electrocution or shock.

Kickback and Related Warnings

the point of the binding.

proper precautions are taken.

cause loss of control or kickback.

give the operator an electric shock.

Dear Customer,

or dealers directly.

kickback and loss of control.

and excessive accumulation of powdered metal may cause electrical hazards.

cutting accessory may contact hidden wiring or its own cord. Cutting accessory contacting a

If servicing is required, contact one of our listed service centers. It is not allowed and dangerous to

perform any individual work on the tool.

◆ Have the tool repaired by authorized persons. ♦ Any repairs of the tool in unauthorized service centers is performed at own responsibility.

The owner of the tool is responsible for all works on the tool that were not performed in authorized service center, and therefore he losses the claim for guarantee.

### ■ WASTE DISPOSAL AND ENVIRONMENT PROTECTION

The machine, accessories and packing should be sorted for environmental-friendly recycling. Only for EC countries:

◆ Do not dispose of power tools into household waste!

According the European Guideline 2002/96/EC for Waste Electrical and Electronic Equipment and its implementation into national right, power tools that are no longer usable must be collected separately and disposed of in an environmentally correct manner.

# ■ TECHNICAL DATA

Туре	S1M-SH07-125B 9925	S1M-SH12-125B 9925D	S1M-SH02-150A 9950	S1M-SH03-150B 9950D
Size of Emery Wheel	125×6×22 mm	125×6×22 mm	150×6×22 mm	150×6×22 mm
Maximum Using Circumference Speed of the Emery Wheel	4800m/min	4800m/min	4800m/min	4800m/min
Current Source	AC 220-240V~	AC 220-240V~	AC 220-240V~	AC 220-240V~
	50Hz	50Hz	50Hz	50Hz
Rated Input Power	1240W	1240W	1240W	1240W
Loading Current	5.9A	5.9A	5.9A	5.9A
Rated Speed	7500/min	7500/min	7500/min	7500/min
Weight	3.1kg	3.1kg	3.1kg	3.1kg

Subsidiary Handle 1PC

Carbon Brush 2PCS

Operating Handbook 1PC

Special Wrench 1PC

Emery Wheel 1PC

Safety Guard 1PC

