USER MANUAL
Polisher

Translation Of The Original Instruction Manual

MODEL NO.: K7210

Before using this tool for the first time, please read this manual carefully from every beginning to the end, in order to avoid wrong operation. Preserve it well and hand it to any subsequent user, by aids of reading of this manual, the users will be well informed at any time.

SYMBOLS

 Please read the operating instruction carefully and observe the notes given.Use these operating instructions to familiarise yourself with the product, the proper use and the safety instructions. Keep these operating instructions in a safe place for future uses.

 For safety reasons, children and young people under the age of 16, as well as people not familiar with these operating instructions, may not use this product. Persons with reduced physical or mental abilities may use the product only if they are supervised or instructed by a responsible person.

The following symbols are used in this manual:

 **Type and source of the danger:** Failure to observe this danger notice may cause physical injury or death.

 **Type and source of the danger:** This danger notice warns of damage to the appliance, the environment or other property.

 **Note:**This symbol signifies information that may help you reach a better understanding of the processes involved.

 Wear eye protection

 Wear a breathing Mask

 Wear hands protection

CONTENTS

1. SAFETY INSTRUCTIONS

 WARNING Read all safety warnings and instructions. Failure to follow the warnings and instructions may result in electric shock, fire and /or serious injury.

Save all warnings and instructions for future reference.

The term "power tool" in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

1. WORK AREA SAFETY

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 lose control.

2. ELECTRICAL SAFETY

a) Power tool plugs must match the outlet. Never modify the plug 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.

d) Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edge 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, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.

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 jewellery. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewellery 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.

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 power tools.

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.

5) SERVICE

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

Safety Warnings Common for Polishing Operations:

a) This power tool is intended to function as a polisher. 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 grinding, sanding, wire brushing or cutting-off are not recommended to be performed with this power tool. Operations for wool 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 operation.

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.

f) Threaded mounting of accessories must match the grinder spindle thread. For accessories mounted by flanges, the arbour hole of the accessory must fit the locating diameter of the flange. Accessories 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.

h) 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 may cause hearing loss.

i) 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.

j) Position the cord clear of the spinning accessory. If you lose control, the cord may be cut or snagged and your hand or arm may be pulled into the spinning accessory.

k) Never lay the power tool down until the accessory has come to a complete stop. The spinning accessory may grab the surface and pull the power tool out of your control.

l) Do not run the power tool while carrying it your side. Accidental contact with the spinning accessory could snag your clothing, pulling the accessory into your body.

m) Regularly clean the power tool's air vents. The motor 's fan will draw the dust inside the housing and excessive accumulation of powered metal may cause electrical hazards.

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

o) Do not use accessories that require liquid coolants. Using water or other liquid coolants may result in electrocution or shock.

Further safety instructions for all operations

Kickback and Related Warnings

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 the point of the binding

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 conditions.

Kickback is the result of power tool misuse and/or incorrect operating procedures or conditions and can be avoided by taking proper precautions as given below.
a) Maintain a firm grip on the power tool and position your body and arm to allow you to resist kickback forces. Always use auxiliary handle, if provided, for maximum control over kickback or torque reaction during start-up. The operator can control torque reactions or kickback forces, if proper precautions are taken.
b) Never place your hand near the rotating accessory. Accessory may kickback over your hand.
c) Do not position your body in the area where power tool will move if kickback occurs. Kickback will propel the tool in direction opposite to the wheel's movement at the point of snagging.
d) Use special care when working corners, sharp edges etc. Avoid bouncing and snagging the accessory. Corners, sharp edges or bouncing have a tendency to snag the rotating accessory and cause loss of control or kickback.
e) Do not attach a saw chain woodcarving blade or toothed saw blade. Such blades create frequent kickback and loss of control.

Additional safety instructions for polishing operations

a) Do not allow any loose portion of the polishing bonnet or its attachment strings to spin freely. Tuck away or trim any loose attachment strings. Loose and spinning attachment strings can entangle your fingers or snag on the workpiece.

EXTRA SAFETY REGULATIONS CONCERNING POLISHER

1.Wear ear protectors with this polisher. Exposure to noise can cause hearing loss.
2. Check that speed marked on the wheel is equal to or greater than the rated speed of the polisher.
3. Inspect the sponge pad before use. Do not use chipped, cracked or otherwise defective products.
4. Ensure that the bonnets are fitted in accordance with the manufacturer's instructions.

5. Ensure that the bonnet is correctly mounted and tightened before use and run the tool at no-load for 30 seconds in a safe position. Stop immediately if there is considerable vibration or if other defects are detected. If this condition occurs, check the machine to determine the cause.
6. Ensure that sparks resulting from use do not create a hazard e.g. do not hit persons, or ignite flammable substances.
7. For cleaning, personal protective equipment such as gloves and apron should be worn.
8. The wheel continues to rotate after the tool is switched off. And it will stop soon.
9. Do not use the polisher as a fixed tool.

The tool must be used only for its prescribed purpose. Any use other than those mentioned in this Manual will be considered a case of misuse. The user and not the manufacturer shall be liable for any damage or injury resulting from such cases of misuse. To use this tool properly, you must observe the safety regulations, the assembly instructions and the operating instructions to be found in this Manual. All persons who use and service the machine have to be acquainted with this Manual and must be informed about its potential hazards. Children and frail people must not use this tool. Children should be supervised at all times if they are in the area in which the tool is being used. It is also imperative that you observe the accident prevention regulations in force in your area. The same applies for general rules of occupational health and safety. The manufacturer shall not be liable for any changes made to the tool nor for any damage resulting from such changes. Even when the tool is used as prescribed it is not possible to eliminate all residual risk design:
Damage to the lungs if an effective dust mask is not worn.
Damage to hearing if effective hearing protection is not worn.

2. DESCRIPTION

1 Pad
2 Auxiliary handle
3 On/off switch
4 Speed adjustor

3. TECHNICAL DATA

Rated voltage	AC 220 ~240V, 50 Hz
Rated power input	710W
No-Load Speed	2500-6300/min
Disk diameter (max.)	Ø150 mm
Weight	2.7kg
Protection class	class II
Accessories	polishing Pad auxiliary handle spanner

NOTE:
-The declared vibration total value has been measured in accordance with a standard test method
and may be used for comparing one tool with another;
-The declared vibration total value may also be used in a preliminary assessment of exposure.
WARNING:

-The vibration emission during actual use of the power tool can differ from the declared total value depending on the ways in which the tool is used;
-Identify safety measures to protect the operator that are based on an estimation of exposure in the actual conditions of use (taking account of all parts of the operating cycle such as the times when the tool is switched off and when it is running idle in addition to the trigger time). Depending on the actual use of the product the vibration values can differ from the declared total! Adopt proper measures to protect yourself against vibration exposures! Take the whole work process including times the product is running under no load or switched off into consideration! Proper measures include among others regular maintenance and care of the product and application tools, keeping hands warm, periodical breaks and proper planning of work processes!

4. BEFORE USE

•Always check that the supply voltage is the same as the voltage indicated on the nameplate of the tool (tools with a rating of 230V or 240V can also be connected to a 220V supply)
•Always mount auxiliary handle; never use the tool without it
•Dust from material such as paint containing lead, some wood species, minerals and metal may be harmful (contact with or inhalation of the dust may cause allergic reactions and/or respiratory diseases to the operator or bystanders); wear a dust mask and work with a dust extraction device when connectable.
•Certain kinds of dust are classified as carcinogenic (such as oak and beech dust) especially in conjunction with additives for wood conditioning; wear a dust mask and work with a dust extraction device when connectable
• Follow the dust-related national requirements for the materials you want to work with
• Secure the workpiece (a workpiece clamped with clamping devices or in a vice is held more securely than by hand)
• Do not clamp the tool in a vice.

5. OPERATION

DANGER! Risk of injury due to electric shock.

Warning! Do not plug in before installation is fully completed!

When working, always hold the tool firmly with both hands and take a secure stance
• Always keep the cord away from moving parts of the tool; direct the cord to the rear, away from the tool
• If the cord is damaged or cut through while working, do not touch the cord, but immediately disconnect the plug
• Never use the tool when cord is damaged; have it replaced by a qualified person
• In case of electrical or mechanical malfunction, immediately switch off the tool and disconnect the plug
• In case of current interruption or when the plug is accidentally pulled out, release switch in order to prevent uncontrolled restarting

6. MAINTENANCE

DANGER! Risk of injury due to electric shock.

Warning! Always remove the plug from the socket before servicing, cleaning or storage.

• Your power tool requires no additional lubrication or maintenance. Always store your power tool in a dry place.
• If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
• If a fault cannot be rectified, return the polisher to an authorized dealer for repair.

Cleaning

• Keep the safety devices, ventilation slots and Motor housing as free of dirt and dust as possible. Clean the unit by rubbing it with a clean cloth or blow it clean using low-pressure compressed air.
• We recommend that you always clean the unit immediately after using it.
• Clean the unit regularly by rubbing it with a damp cloth and a little soft soap. Do not use cleaners or solvents; these will attack the plastic parts in the unit. You must also ensure that water cannot get into the inside of the unit.

Carbon brushes

• If excessive sparking occurs you must have the carbon brushes checked by a quailed electrician.

• Attention! Only a quailed electrician is allowed to change the brushes.

7. TROUBLE SHOOTING

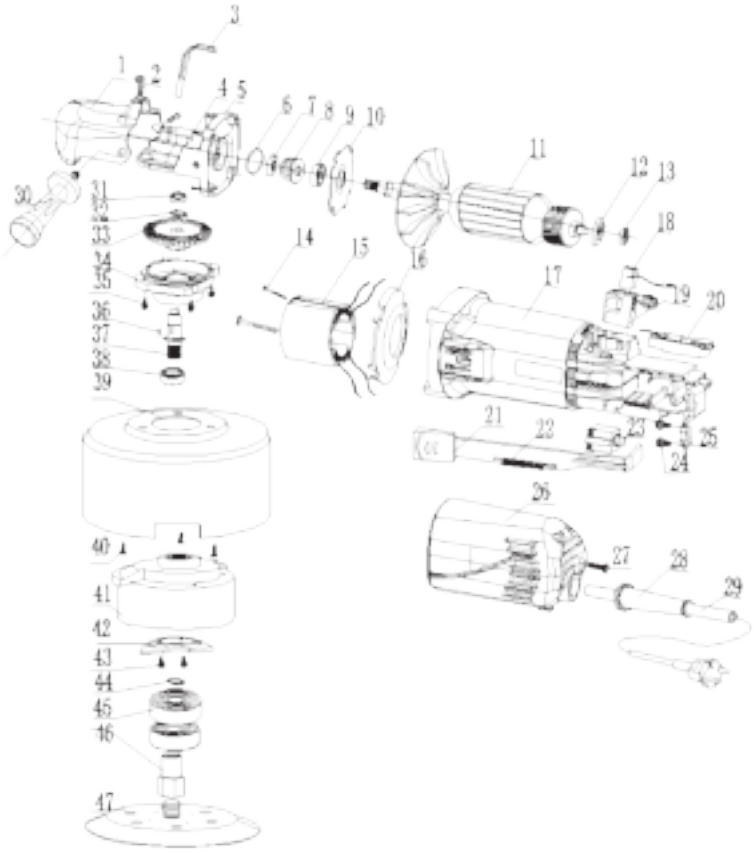
DANGER! Risk of injury due to electric shock.

Warning! Before any trouble shooting, switch off the tools and remove the plug from the socket.

Problems	Probable causes	Corrective actions
The polisher fails to start up	No Power	Check Voltage and Ensure polisher switch is switched on
Motor gets hot.	Foreign substances have got inside the motor.	Have the foreign substances removed.
	Lack of or contaminated lubrication grease.	Have lubricating grease applied or replaced.

8. DISPOSAL AND RECYCLING

Do not dispose of in general household waste. Instead dispose of in an environmental friendly way, contact your local recycling center of council for advice. Please take the care of the environment very seriously.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9.PART LIST

NO.	Name	Qty	Item/Size
1	Head case plastic cover	1	According to drawing
2	Plastic screw	3	M8 thread
3	Hex wrench	1	6X6mm
4	Tapping screw	4	ST4x25mm
5	Head case	1	According to drawing
6	O-Ring	1	Thickness 1.8mm
7	Lock nut	1	Φ6mm
8	pinion	1	According to drawing
9	bearing	1	CHL6000
10	Bearing cover	1	According to drawing
11	armature	1	According to drawing
12	Magnet ring	1	Thickness 6.5mm
13	bearing	1	CHL608
14	Wind baffle	1	Inner circle 37mm
15	Tapping screw	2	ST4x70mm
16	Stator	1	According to drawing
17	Machine case	1	According to drawing
18	Carbon brush	2	size: (6x9x14.5) mm
19	Carbon brush holder	2	According to drawing
20	Speed governor	1	According to drawing
21	Switch pull rod	1	According to drawing
22	spring	1	Length 20mm cycles 10
23	switch	1	JL FA2-6/2W6(6)A 250VAC～5E4
24	screw	2	ST4x14mm
25	Wire clamp	1	Space between two holes 19mm
26	Back cover	1	According to drawing
27	screw	1	ST4x16mm slotting
28	Cord jacket	1	Length 67mm
29	cable	1	According to order
30	handle	1	M8 thread
31	bearing	1	NMB1680

32	Clamp spring	1	Φ12
33	spiral bevel gear	1	
34	Front cover	1	According to drawing
35	screw	4	M4x16mm three-combination
36	Woodruff key	1	4xΦ13
37	Output shaft	1	According to drawing
38	bearing	1	CHL6001
39	Aluminum gland	1	excircle Φ77.5mm internal Φ20mm thickness 3mm
40	screw	3	M4x10mm
41	Eccentric wheel	1	According to drawing
42	Clamp spring	1	Φ12
43	bearing	2	CHL6001
44	Eccentric wheel pressing plate	1	According to drawing
45	screw	2	M4x16mm three-combination
46	Eccentric shaft	1	According to drawing
47	Polishing disc	1	Φ150mm