



OWNERS OPERATION MANUAL
(Model No. SHD12)

1/2" SPADE HANDLE DRILL



WARNING –To reduce the risk of injury, user must read instruction manual!
Made in China.

Tool specifications:

Model	SHD12
Rated Input: A	7.5
Rated Voltage: V	120
No Load Speed: RPM	0-550
Speed Selection:	Yes
Right /Left Rotation	Yes
Gear Rim Chuck	Yes
Drill Output: mm	
Steel (max)	13
Wood (max)	40
Concrete (max)	No
Net Weight: kg	3.1
Sound pressure level	
Sound power level	
Declaration of the vibration emission value: m/s^2 The uncertainty Value $K=1.5 \text{ m/s}^2$	
Impact drilling into concrete	No
Drilling into metal	

Intended use

This machine is intended for drilling in wood、metal、ceramic、and plastic. Machines with electronic control and right/left rotation are also suitable for screwing and thread cutting.

Electrical Safety

The electric motor has been designed for one voltage only. Always check that the power supply corresponds to the voltage on the rating plate.

☐ These tools are double insulated in accordance with EN60745; therefore no earth wire is required.

General safety hints for work with electric tools

WARNING! Read and understand all instructions. Failure to follow all instructions listed below, may result in electric shock, fire and/or serious personal injury.

Safety warning and precautions

Save this manual. you will need the manual for the safety warning and precautions, assembly instructions, operating and maintenance procedures, parts list and diagram. Read these instructions before operating this product. Save this instruction and follow them to reduce the risk of fire, and personal injury.

Work Area

- a) **Keep your work area clean and well lit.** Cluttered benches 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 bystanders, children, and visitors away while operating a power tool.** Distractions can cause you to lose control.

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 grounded surfaces such as pipes, radiators, ranges and refrigerators.** There is an increased risk of electric shock if your body is grounded.
- c) **Don't 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 to carry the tools or pull the plug from an outlet. Keep cord away from heat, oil, sharp edges or moving parts. Replace damaged cords immediately.** Damaged cords increase the risk of electric shock.
- e) **When operating a power tool outside, use an outdoor extension cord marked "W-A" or "W".** These cords are rated for outdoor use and reduce the risk of electric shock.
- f) **If operating a power tools in a damp location is unavoidable, use a residual current device (RCD) protected supply.** Use of an RCD reduces the risk of electric shock.

Personal Safety

- a) **Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use tool while 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 safety equipment. Always wear eye protection.** Safety equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
- c) **Avoid accidental starting. Be sure switch is off before plugging in.** Carrying tools with your finger on the switch or plugging in tools that have the switch on invites accidents.
- d) **Remove adjusting keys or switches before turning the tool on.** A wrench or a key that is left attached to a rotating part of the tool may result in personal injury.
- e) **Do not overreach. Keep proper footing and balance at all times.** Proper footing and balance enables better control of the tool in unexpected situations.
- f) **Dress properly. Do not wear loose clothing or jewelry. Contain long hair. Keep your hair, clothing, and gloves away from moving parts.** Loose clothes, jewelry, 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 dust collection can reduce dust-related hazards.

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 is 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 before making any adjustments, changing accessories, or storing the tool.** Such preventive safety measures reduce the risk of starting the tool accidentally.
- d) Store idle tools out of reach of children and other untrained persons.** Tools are dangerous in the hands of untrained users.
- e) Maintain tools with care. Keep cutting tools sharp and clean.** Properly maintained tools, with sharp cutting edges are less likely to bind and are easier to control.
- f) keep cutting tools sharp and clean.** Properly maintained cutting tools will sharp cutting edges are less likely to bind and are easier to control.
- g) Use the power tools, accessories and tool bits etc. in accordance with these instructions and in the manner intended for the particular type of power tools, taking into account the working conditions and the work to be performed.** Use of the power tools for operations different from intended could result in a hazardous situation.

Service

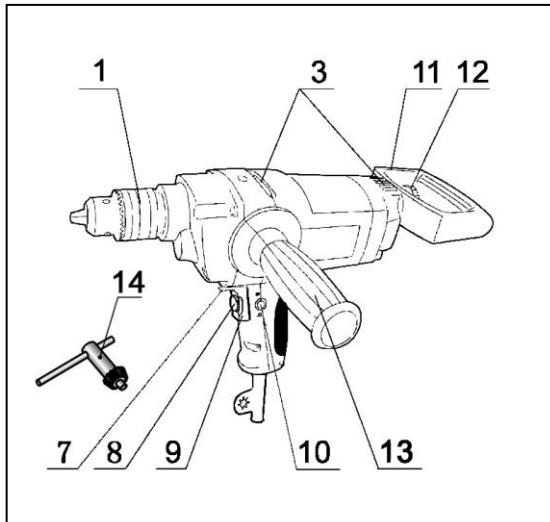
- a) Have your power tool serviced by a qualified repair person using only identical replacement parts.** This will ensure that the safety of the power tools is maintained.

Additional safety regulations

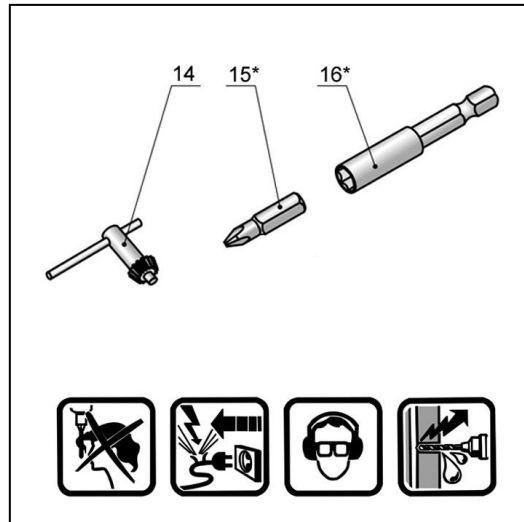
WARNING: Remove the plug from socket before carrying out any installation, adjustment, servicing or maintenance.

The manual should indicate the content as follow:

- (1). Stay alert and use common sense when operating the tool. Do not use the tool when tired or under influence of drug, alcohol or medicine.
- (2). Never put fingers on the switch button while moving the tool to avoid unintentional starting of the tool.
- (3) Ensure the mounting screws and other assemblies are fixed properly and securely before operate the tool. Turn on the switch and let the tool work for 30 second in a safe position. Stop immediately if considerable vibration or other defects are detected, have it repaired.



CT2163



Operating Controls

- 1、 Drill chuck
 - 3、 Ventilation slots
 - 7、 Rotation direction switch
 - 8、 Speed selector thumbwheel
 - 9、 on/off switch
 - 10、 Locking button for on/off switch
 - 11、 “D” handle
 - 12、 Clamp to rivet nut for “D” handle
 - 13、 Side handle
 - 14、 Chuck key
 - 15、 Bit*
 - 16、 Bit holder*
- * Optional extra

The side handle and spade handle

-spade handle assembly:

This spade handle **11** can be attached either horizontally or vertically. Place the handle into the locking boss on the back of the drill and assemble with holding knob **12**.

-Side handle:

The side handle **13** can be placed in either side of the drill or the top of the drill according to operator preference and available working clearance. The spade handle can temporarily removed if working clearance at rear of the tool is limited, always replace spade handle **11** when possible.

CAUTION: Always use the side handle and switch handle. This is a high-torque drill. Always hold it firmly with both hands when operation.

Drill chuck

Insert the tool and tighten all 3 bores equally with the chuck key.

Screwdriver tools

When using screwdriver bits, a bit holder should always be used. Use only the screwdriver bits that fit the screw head. Set selector switch 2 to the drill symbol for the screwing function.

Initial operating

Always use the correct supply voltage: The power supply voltage must match the information quoted on the tool identification plate.

Switching on and off

Brief activation

Press the on/off switch **9** and then let go again.

Continuous use

Switch on:

Press on/off switch **9** and retain with locking button 10.

Switch off:

Press and release on/off switch **9**.

Stepless speed control



The machine runs with variable speed between 0 and maximum depending on the pressure applied to the on/off switch **9**.

Light pressure results in a low rotational speed thus allowing smooth, controlled starts.

Do not load the machine so heavily that it comes to a standstill.

Speed selection

With the thumb wheel **8** the required speed can be selected (also while running).

The required speed is dependent on the material and can be determined with practical trials.

After longer periods of working at low speed, allow the machine to cool by running for approx. 3 minutes at maximum speed with no load .

Change the rotational directions

Operate the rotation direction switch only at a standstill.

With the rotational direction switch **7**, the rotational direction of the machine can be switched (when the on/off switch **9** is operated, the rotation direction switch is locked.)

Right Rotation

Press the rotational direction switch **7** through to the right stop (for drilling, impact drilling, riving screws, etc.)

Left Rotation

Press the rotational direction switch **7** through to the left stop (for loosening and unscrewing and nuts).

NEVER COVER THE VENTILATION SLOTS (3) SINCE THEY MUST ALWAYS BE OPEN FOR PROPER MOTOR COOLING.

Maintenance and inspection

Before any work on the machine itself, pull the mains plug.

Inspection the drill bit.

Continued use of a worn and/or damaged drill bit will result in reducing drilling efficiency and may seriously overload the drill motor. Inspect the drill bit often and replace it with a new bit as necessary.

Inspecting the mounting screws

Regularly inspect all mounting screws and ensure that they are properly tightened. Should any of the screws be loose, tighten them immediately. Failure to do so could result in personal injury.

The brushes should be checked periodically and worn-out brushes should be replaced in time.

After replacing, inspect whether the new brushes can move freely in the brush holder. Keep running the motor for 15 minutes to match the contact of the brushes and commutator.

Keep the ventilation slots clear from dirt, clean off the accumulated dust and oil dirt periodically.

During normal operation, if anything happens, the power supply should be cut off at once and the tool should be checked and repaired.



WARNING!

To ensure safety and reliability, all repairs should be performed by an authorized service center or other qualified service organization.

CE Declaration of conformity

We declare under our sole responsibility that this product is in conformity with the EC

Directive :

EC Machinery Directive 2006/42/EC

EC Low Voltage Directive 2006/95/EC as last amended by EC Directive 93/68/EEC
EC Directive of electromagnetic Compatibility 2004/108/EC as last amended
by EC Directive 93/68/EEC

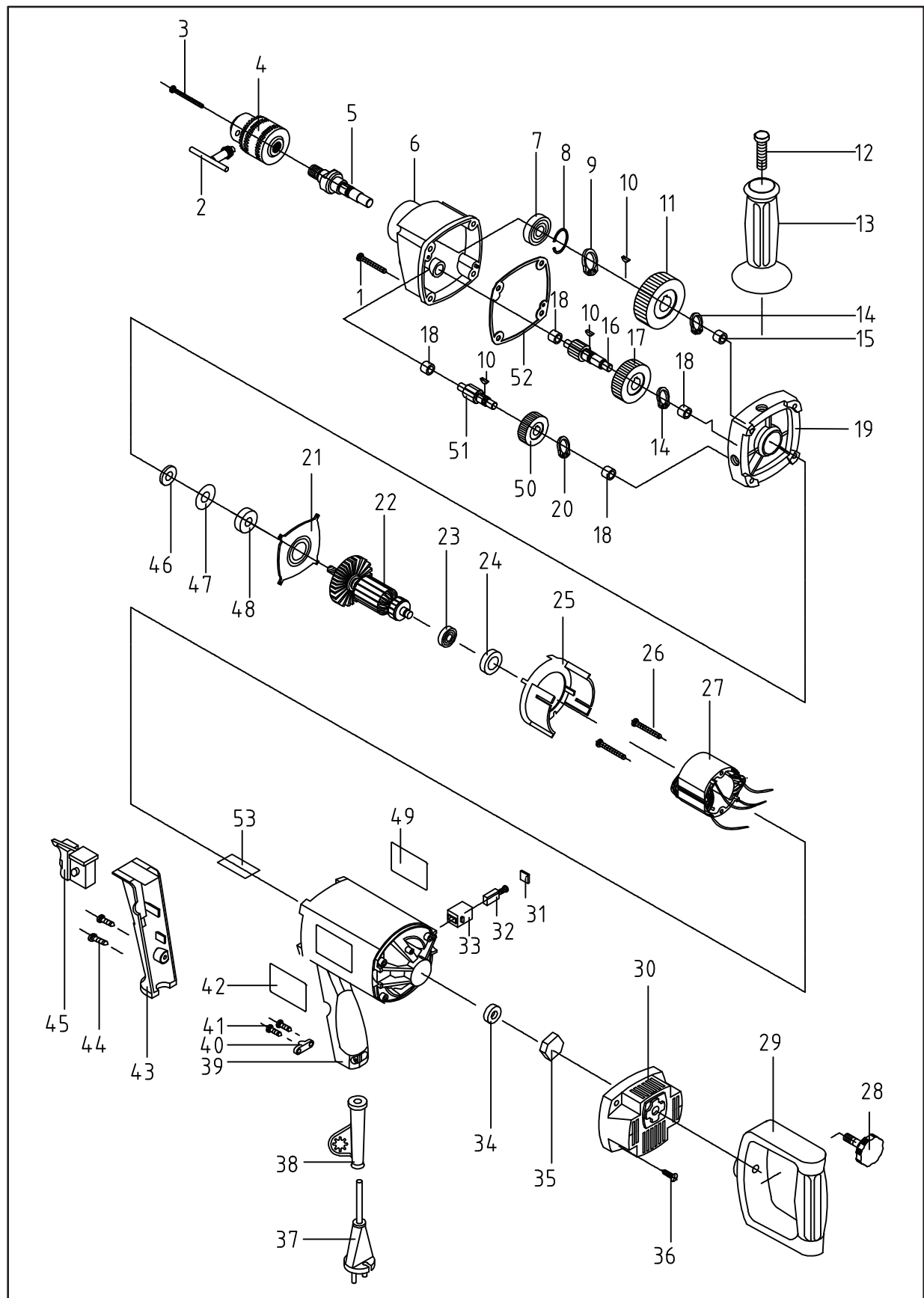
Environmental Protection and Guarantee

ENVIRONMENT PROTECTION



Waste electrical products should not be disposed of with household waste.
Please recycle where facilities exist. Check with your local Authority or retailer
for recycling advice

Model No. SHD12



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NO.	Description	Q'ty	NO.	Description	Q'ty
1	Tapping screwST5×55	4	27	Stator	1
2	Chuck key	1	28	Holding knob	1
3	Countersunk head screw(left)M6×25	1	29	D handle	1
			30	Rear cover	1
4	Chuck	1	31	Brush holder cap	2
5	Spindle	1	32	Carbon brush	2
6	Gear box	1	33	Brush holder	2
7	Ball bearing6002.2RS	1	34	Hex.nut M8	1
8	Circlip for hole ϕ 32	1	35	Cover for nut	1
9	Circlip for shaft ϕ 15	1	36	Tapping screw ST4×16	4
10	Key 3×3.7×10	3	37	Cord	1
11	Gear	1	38	Cord sleeve	1
12	Hex. bolt M10×40	1	39	Housing	1
13	Auxiliary handle	1	40	Cord clamp	1
14	Circlip for shaft ϕ 12	2	41	Tapping screwST4×16	2
15	Needle bearingHK1012	1	42	Rating label	1
16	2nd intermediate shaft	1	43	Handle cover	1
17	2nd reduction gear	1	44	Tapping screwST4×18	2
18	Needle bearing	4	45	Switch	1
19	Gear box cover	1	46	Felt ring	1
20	Circlip for shaft ϕ 10	1	47	O-ring	1
21	Bearing cover	1	48	Ball bearing6000.2RSK	1
22	Armature	1	49	Brand label	1
23	Ball bearing	1	50	1st reduction gear	1
24	Bearing bush	1	51	1st intermediate shaft	1
25	Baffle	1	52	Gasket	1
26	Tapping screwST4×55	2	53	Laminated paper	1