

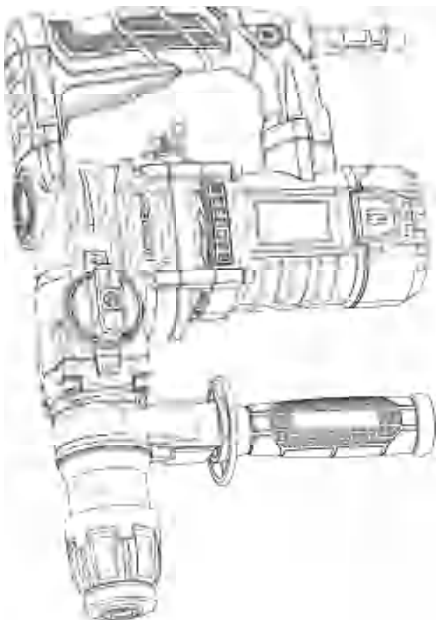


AC 1050-W 

สว่านโรตารี 26 มม. 1050 วัตต์

ROTARY HAMMER

PDRE10.5-M-EU



Original instructions

Read and follow all safety precautions in instruction manual.

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To reduce the risk of injury, user must read instruction manual.

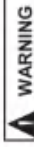


The product complies with the applicable European directives and an evaluation method of conformity for these directives was done.



Electrical products should not be discarded with household products. According to the European Directive 2012/19/EU on waste electrical and electronic equipment and its implementation into national law, used electrical products must be collected separately and disposed at collection points provided for this purpose. Talk with your local authorities or dealer for advice on recycling.

PARTS LIST



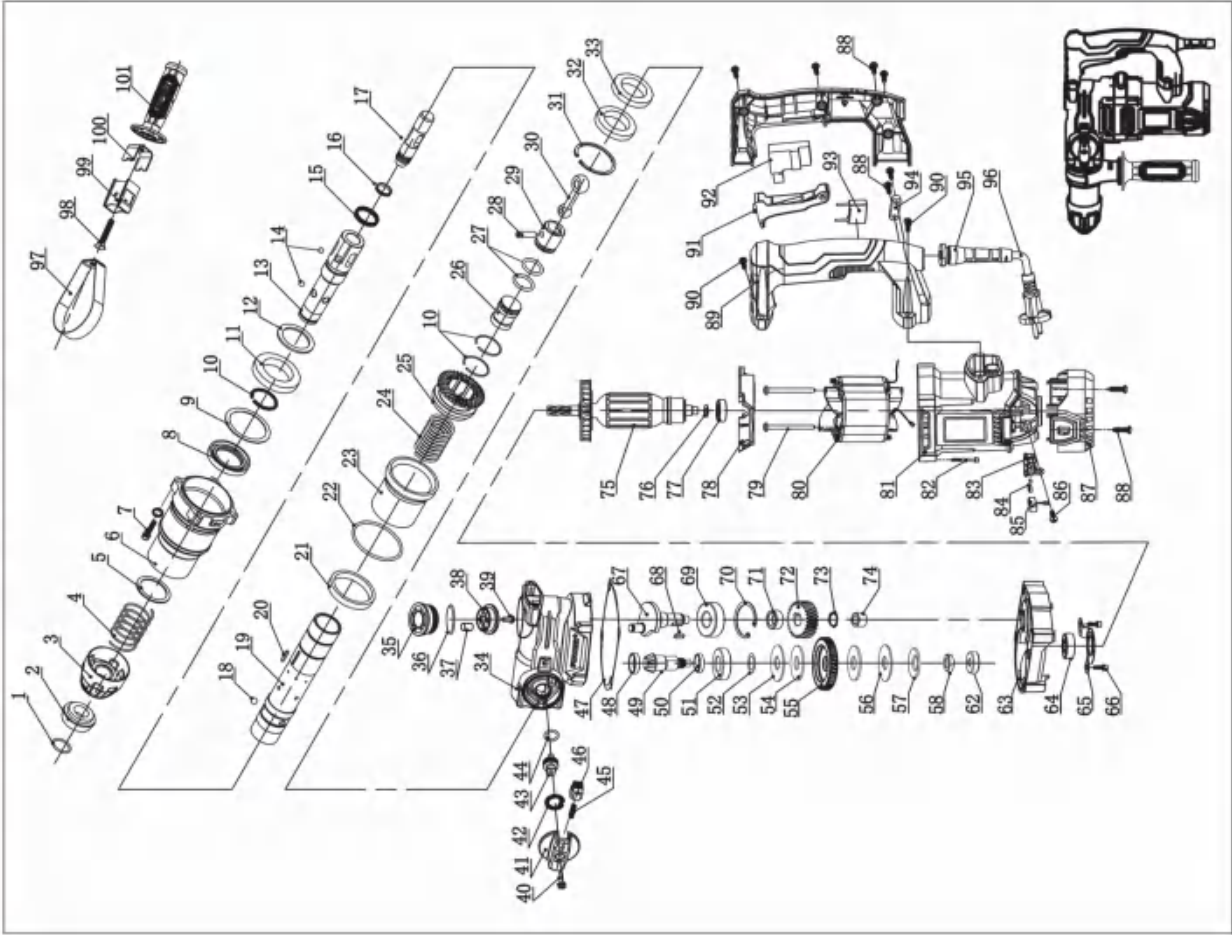
WARNING

When servicing, use only identical replacement parts. Use of any other parts may create HAZARD or cause damage to your power tool.
Any attempt to repair or replace electrical parts on this power tool may create a hazard unless repair is performed by a qualified technician.

SPARE PARTS LIST

NO.	NAME	QTY	NAME	QTY
1	Steel Ring 17.5*2	1	52 Washer 14*20*0.5	1
2	Block Blessing	1	53 Washer with square hole	1
3	steel frame	1	54 Friction plate	2
4	Spring 29.8*2*75	1	55 Gear 39 Teeth	1
5	Washer 29.5*37*1.5	1	56 Washer with square hole	1
6	Cylinder House	1	57 Spring 16X30X1.8	1
7	Screw	4	58 Nut M10*0.75	1
8	Oil Seal 30*45*6	1	62 Bearing 627	1
9	Washer 37x47x1.5	1	63 Inner cover	1
10	Steel Ring 28*1.6	3	64 Bearing 6200	1
11	Bearing 61906-RZ	1	65 Bearing plate	1
12	Washer	1	66 Inner hexagon screw M4*12	2
13	Teletex	1	67 Eccentric shaft	1
14	Ball Ø7.14	5	68 Flat key 4*4*12	1
15	X-ring 20.9*2.2*4	1	69 Bearing 6202	1
16	X-ring 13x1x4	1	70 Washer 35	1
17	Impact hammer	1	71 Spacer	1
18	Ball Ø6.35	3	72 Gear 31 Teeth	1
19	Cylinder	1	73 Steel Ring 12	1
20	Flat key 3*2.5*18	2	74 Needle Bearing HK1410	1
21	Ring 41.5x49.5x7	1	75 Rotor	1
22	O-ring 50*2.5	1	76 Dust proof washer	1
23	Distance Sleeve	1	77 Bearing 608	1
24	Spring	1	78 Fan Guide	1
25	Gamp gear	1	79 Screw ST3.9*55	2
26	Rammer 25*30	1	80 Stator	1
27	O-ring 19*3.1	2	81 Motor Shell	1
28	Piston Pin 6*23.5	1	82 Inner hexagon screw M5X50	4
29	Piston	1	83 Brush frame	2
30	Connecting Rod	1	84 Coil spring	2
31	Washer 47	1	85 Brush	2
32	Oil plate	1	86 Screw ST3.9*10	2
33	Bearing 30*47*9	1	87 Back Cover	1
34	Gear Box	1	88 Screw ST3.9*16	8
35	Oil Cover	1	89 Handle	1
36	O-ring 31.5*2	1	90 Cross Recess Head Screw M5X22	2
37	Pin 7*15	1	91 Shift knob	1
38	Vent caps	1	92 Switch	1
39	Self tapping screw	1	93 Electric capacity	1
40	Cross Recess Head Screw M4X14	1	94 Cable Board	1
41	Knob	1	95 Cable sheath	1
42	Washer 17	1	96 Cable	1
43	Two Functions Knob	1	97 Hoop	1
44	O-ring 11*2.2	1	98 Square screw	1
45	Spring	1	99 Bracket	1
46	Bufon	1	100 U type iron	1
47	Middle cover seal pad	1	101 Auxiliary handle	1
48	Oil Seal 19*28*4.5	1	102 Screw ST4.8*25	2
49	Small gear	1		
50	Washer 15*19*4.7	1		
51	Bearing 6002	1		

PARTS DIAGRAM



SPECIFICATIONS

Model	PDRE10.5-M-EU
Voltage	230-240V - / 50 Hz
Power Input	1050W
Impact Energy	4.5 J
No Load Speed	1150 / min
Blows Per Minute	0-4200bpm
Functions	3
Max. Drilling Capacity [Concrete]	26mm
Capacity	Wood: 42mm Metal: 13mm
Product weight	4.2kg



WARNING

The electric hammer chisel power tool noise output may exceed 85dB(A) at the workplace. In this instance, wear ear protection.

Wear safety-hearing protection

Wear Dust mask

Wear safety goggles

Wear safety shoes

Wear hard hat

SAVE THESE INSTRUCTIONS FOR REFERENCE

General power tool safety warnings

WARNING 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.

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

- Keep work area clean and well lit. Cluttered or dark areas invite accidents.
- 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.
- Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

2) Electrical safety

- 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.
- 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.
- 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. Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.
- 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.
- 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

- 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.
- Use personal protective equipment. Always wear eye protection. Protective equipment such as a dust mask, non-skid safety shoes, hard hat or hearing protection used for appropriate conditions will reduce personal injuries.
- 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.

- 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 and clothing 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 dust collection can reduce dust-related hazards.

h) Do not let familiarity gained from frequent use of tools allow you to become complacent and ignore tool safety principles. A careless action can cause severe injury within a fraction of a second.

4) Power tool use and care

- 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.
- 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.
- Disconnect the plug from the power source and/or remove the battery pack, if detachable, 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.
- 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.
- Maintain power tools and accessories. 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.
- Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- 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.
- Keep handles and grasping surfaces dry, clean and free from oil and grease. Slippery handles and grasping surfaces do not allow for safe handling and control of the tool in unexpected situations.

Be prepared for binding and bit breakthrough. When these situations occur, the chisel bit has the tendency to grab the workpiece.

This action will kick the chisel opposite to the direction of chisel bit rotation and could cause loss of control when breaking through material as you complete chiseling the hole. If you are not prepared, this loss of control can result in possible serious injury.



WARNING

GENERAL

When servicing, use only identical replacement parts. Use of any other part may create a hazard or cause product damage.

DO NOT use solvents when cleaning plastic parts. Most plastics are susceptible to damage from various types of commercial solvents and may be damaged by their use. Use clean cloth to remove dirt, dust, oil, grease etc.

Do not at any time allow brake fluids, gasoline, petroleum-based products, penetrating oils, etc. to come in contact with plastic parts. They contain chemicals that can damage, weaken or destroy plastic.

DO NOT abuse power tools. Abusive practices can damage the tool as well as the workpiece.

DO NOT attempt to modify tools or create accessories not recommended. Any such alteration or modification is misuse and could result in a hazardous condition leading to possible serious injury. It will also void any warranty given.

Maintenance and inspection

1. Inspecting the tool

When using dull tool bits this can cause motor malfunction and degraded efficiency. Always replace dull bits with new ones without delay when abrasion is noted.

2. Inspecting the mounting screws

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

3. Maintenance of the motor.

The motor unit winding is the very "heart" of the power tool. Exercise due care to ensure the winding does not become damaged and/or wet with oil or water.

4. Inspecting the carbon brushes.

The motor employs carbon brushes that are consumable parts; since an excessively worn carbon brush could result in motor trouble, replace the carbon brush. Wear limiter (5) No. of carbon brush (7). (See Fig 7)

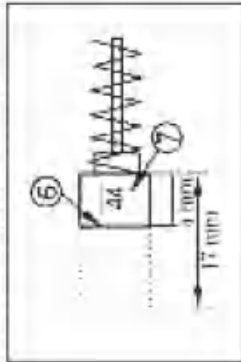


Fig 7

Always keep carbon brushes clean and ensure that they slide freely within the brush holders.

Replacement steps.

The carbon brush can be removed by removing the cap cover (9), cap rubber and brush cap in that order at the interior (See Fig 8)



Carbon brush

Fig 8

To replace carbon brush reverse order of removal.

INSTALLING BITS

Never hold the chuck body with one hand and use the chisel power to the chisel body to loosen or tighten bits. You may severely injure your hand.



WARNING

Have you read "POWER TOOL SAFETY", "DRILL SAFETY" and "SYMBOLS" on pages 4, 5 & 6 of this manual? If not, please do it now before you operate this drill. Your safety depends on it!

Every time you use the drill you should verify the following:

1. Hex bit is secure.
2. Oil level is full.
3. Select to the function you want to do before you engage in the proposed operation
4. All safety apparel, Safety Glasses, Safety Shoes, Safety Gloves, Ear Defenders and Safety Hat are being worn.

Failure to adhere to these safety rules can greatly increase the chances of injury.

5) 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 tool is maintained.

If the supply cord of this power tool is damaged, it must be replaced by a specially prepared supply cord available through the service organization.

Hammer safety warnings

1) Safety instructions for all operations

- a) Wear ear protectors. Exposure to noise can cause hearing loss.
- b) Use auxiliary handle(s), if supplied with the tool. Loss of control can cause personal injury.
- c) Hold the power tool by insulated gripping surfaces, when performing an operation where the cutting accessory may contact hidden wiring or its own cord. Cutting accessory contacting a "live" wire may make exposed metal parts of the power tool "live" and could give the operator an electric shock.

2) Safety instructions when using long drill bits with rotary hammers

- a) Always start drilling at low speed and with the bit tip in contact with the workpiece. At higher speeds, the bit is likely to bend if allowed to rotate freely without contacting the workpiece, resulting in personal injury.
- b) Apply pressure only in direct line with the bit and do not apply excessive pressure. Bits can bend, causing breakage or loss of control, resulting in personal injury.

$$L_{w1} = 83,3 \text{ dB(A)} \quad K = 1,5 \text{ m/s}^2$$

$$L_{w2} = 90,4 \text{ dB(A)} \quad K = 1,5 \text{ m/s}^2$$

$$a_{h1} = 2,0 \text{ m/s}^2 \quad K = 1,5 \text{ m/s}^2$$

$$a_{h2} = 2,1 \text{ m/s}^2 \quad K = 1,5 \text{ m/s}^2$$

- The declared vibration total value(s) and the declared noise emission value(s) have been measured in accordance with a standard test method and may be used for comparing one tool with another.

- The declared vibration total value(s) and the declared noise emission value(s) may also be used in a preliminary assessment of exposure.

- The vibration and noise emissions during actual use of the power tool can differ from the declared

values depending on the ways in which the tool is used especially what kind of workpiece is processed.

- The need to 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).

SPECIFIC SAFETY RULES



WARNING

For your safety, do not plug in your Power tool until you have read and understood this Owner's Manual.

- **WEAR EYE PROTECTION.** Use face or dust mask along with safety goggles. Use hearing protection, particularly during extended periods of operation, wear safety shoes, wear hard hat
- **"Wear ear protectors with impact chisels.**
Exposure to noise can cause hearing loss"
- **DO NOT** wear gloves, jewellery, neckties or loose clothing
- **DO NOT** drill, cut or sand material too small to be securely held.
- **ALWAYS** keep hands out of the path of the drill bit and saw blade. Avoid awkward hand positions where a sudden slip could cause your hand to move into the path of the drill bit or saw blade.
- **SECURE WORKPIECE.** Use clamps or a vice to hold the work when practical. It is safer than using your hand and it frees both hands to operate the tool.
- **MAKE SURE** there are no nails or foreign objects in the part of the workpiece to be cut drilled or sanded.

SAVE THESE INSTRUCTIONS FOR REFERENCE

SPECIFIC SAFETY RULES – cont'd

- **TO AVOID INJURY** from accidental starting, always remove the Plug from the electrical socket before installing or removing a chisel bit.

DRILL SAFETY

- **When using electric hammer chisel only use bits that are configured with the correct slots for this chuck.**
- **BEFORE STARTING** the operation, jog the chisel switch to make sure the chisel bit does not wobble or vibrate.
- **DO NOT USE** fly cutters or multiple-part hole cutters, as they can come apart or become unbalanced in use.
- **MAKE SURE** the spindle has come to a complete stop before touching the chuck or attempting to change the chisel bit also beware that the bit will be hot, let it cool down before changing as it could burn and cause injury.
- **ALWAYS MAKE SURE THE CHISEL OR CHISEL IS FIRMLY SEATED IN THE Hex CHUCK** before starting the job in hand.

SYMBOLS

Some of the following symbols may be used on your tool. Please study them and learn their meaning. Proper interpretation of these symbols will allow you to operate the tool better and safer.

V	volts
A	amperes
Hz	hertz
W	watt
Kw	kilowatts
F	farads
μF	microfarads
l	litres

Proceed at a moderate work rate, the use of too much force will impair efficiency.

CAUTION

Sometimes the tool does not begin the striking stroke even when the motor rotates this may be because the oil has become thick. Due to low temperature or has been standing idle for long period. Run the chisel for approx 5 minutes to bring the oil temperature up.



Fig 5

If chisel is used without oil this could seriously damaged the chisel and forfeit any warranty given.

- (2) Before feeding oil, use the provided wrench to remove the oil gauge (4). Be careful not to lose the rubber packing attached below the oil gauge.
- (3) Check the oil level once daily, confirming that oil is filled.
- (4) After feeding oil, securely clamp the oil gauge.

Note: Oil for the electric hammer chisel is sold separately, use Shell oil ROTELLA 40 (engine oil) or equivalent, this is sold at most shops or filling stations anywhere.



Fig 6

MAINTENANCE

Oil feeding

Caution. Prior to oil feeding, always disconnect the plug from the power supply receptacle. Since an oil chamber is built in this electric hammer chisel, it can be used for approximately 20 days without supplying lubrication oil, assuming that the chisel is used continuously 3–4 hours daily.

Feed oil into the oil tank as described below before using the hammer chisel. (See Fig 6)

- (1) When the chisel is held upright look through the oil gauge window to see if oil is visible, if no oil shows oil must be installed before operating.

This chisel does not have torque facility. It is not recommended to use any other bit other than masonry or chisels do not use metal cutting drills, this could cause serious injury

NOTE: chiseling for an extended period of time may cause the chisel motor to overheat. If the chisel gets hot, stop chiseling and allow it to cool for at least 15 minutes.

Precautions on using electric hammer chisel.

- 1/ Before using the electric hammer chisel always make sure the oil supply is to the full level and the screw is tight.
- 2/ This electric hammer chisel has a fixed handle always make sure the screws holding the handle are secure before operation takes place. Always use both hands when using this chisel failure to adhere to this could invite injuries.
- 3/ Safe operation, always make sure you have a stable posture and safe footing before operating the electric hammer chisel.
- 4/ When working at a high level, always make sure that no person or persons are below you, as this could invite injuries to those persons under you.
- 5/ Before starting any job like breaking, chipping a wall, floor or ceiling, thoroughly confirm that no items such as an electric cable, water pipe or conduit are buried inside as this could cause injury or flooding.
- 6/ Properly set the bit holder.
- 7/ The bit can become very hot during operation exercise extreme caution as this could cause injury.
- 8/ Always wear protective safety glasses
- 9/ Always wear ear defenders or earplugs
- 10/ Always wear suitable dust mask
- 11/ Always wear protective footwear.
- 12/ Always wear hardhat

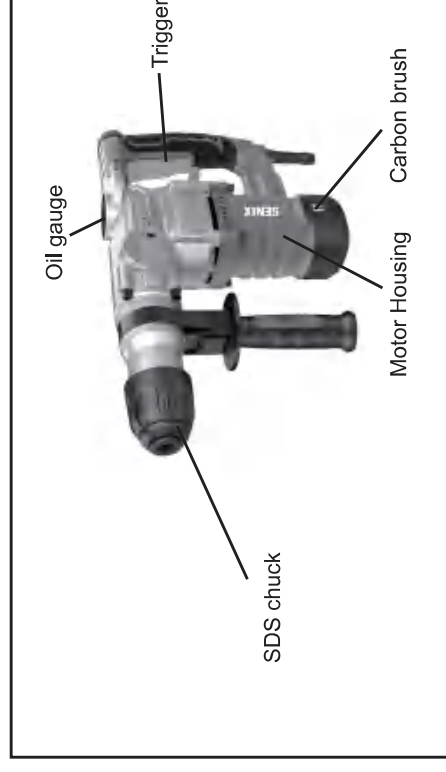
Information on how to use the electric hammer chisel.

Prior to operation

1. Power source
Ensure that the power source to be utilized conforms to the power requirements specified on the product nameplate.
2. Grounding
This tool should be grounded while in use to protect the operator from electric shock. The tool is equipped with a three-conductor cord and grounding type receptacle, the green (or green and yellow) conductor in the cord is the grounding wire. Never connect the green (or green and yellow) wire to a live or neutral terminal.
3. Power switch
Ensure that the power switch is in the off position before any work is carried out on the chisel. If the plug is connected to a power receptacle while the power switch is in the on position, the power tool will start operating immediately this could invite serious injury.
4. Extension cord.
When the work area is away from the power source, use an extension cord of sufficient thickness and rated capacity. The extension cord should be kept as short as practicable

How to use the electric hammer chisel.

- Place the bit you are going to use to do the job in hand as in Fig 3 and 4 page 10
- (1) Pull the trigger switch after applying the chisel bit tip to the chiseling position.
 - (2) It may be necessary to punch the bit against the crushing position forcibly in order to begin the striking stroke. This is not due to malfunction of the tool, it means that the safe guard mechanism against no-load striking is working.
 - (3) By utilizing the weight of the machine and by firmly holding the hammer chisel with both hands, one can effectively control the subsequent recoil motion. (See Fig 5)



AVAILABLE ACCESSORIES



Use only accessories recommended for this electric hammer chisel. Follow instructions that accompany accessories. Use of improper accessories may cause injury to the operator or damage to the cordless drill.

Do not use any accessory unless you have completely read the instructions or Owner's Manual for that accessory.

- Various chisels

CARTON CONTENTS – cont'd

ROTARY HAMMER		
KEY	DESCRIPTION	QTY
A	ROTARY HAMMER	1
B	Chisels	2
C	Drill bits	3
D	OIL KEY	1
E	Carry case	1
F	Dust ring	1
G	Depth ruler	1
H	Lubricant	1



Always make sure the power tool is isolated from the power supply before fitting any attachment

Handle. See (Fig 1)

Always make sure the auxiliary handle is secure before any job takes place as a loose handle could invite injuries.



Fig 1

Switching the Hammer on/off

The chisel has an On/Off switch (Fig 2) built in to the handle. Holding the chisel with both hands simply squeeze the trigger and the motor will start. To switch off release the trigger.

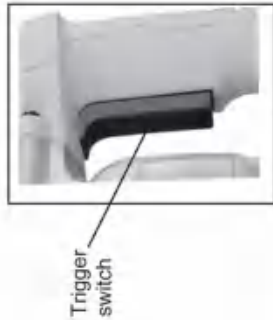


Fig 2

WARNING

The electric hammer chisel continues for a few second after the trigger has been release, be careful when putting it down.

Fitting a chisel bit into the SDS-plus housing.
(See Fig 3)

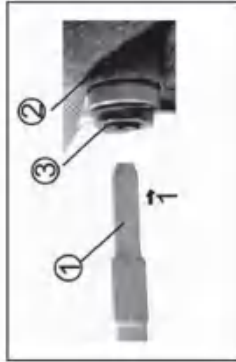


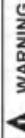
Fig 3

Put the bit into the hex housing and clamp the bit by turning the stop lever half a turn anti clockwise. This will lock the bit in place.
(See Fig 4)

Do not use the chisel until you are satisfied the bit is secured.



Fig 4



This electric hammer chisel does not have reverse direction, so always take care not to force the chisel in case the chisel bit gets stuck. Always make sure you keep the chisel going in and out to remove debris.