

XINPU

Rotary Hammer

Model: *XP-R30*

HANDLING INSTRUCTIONS

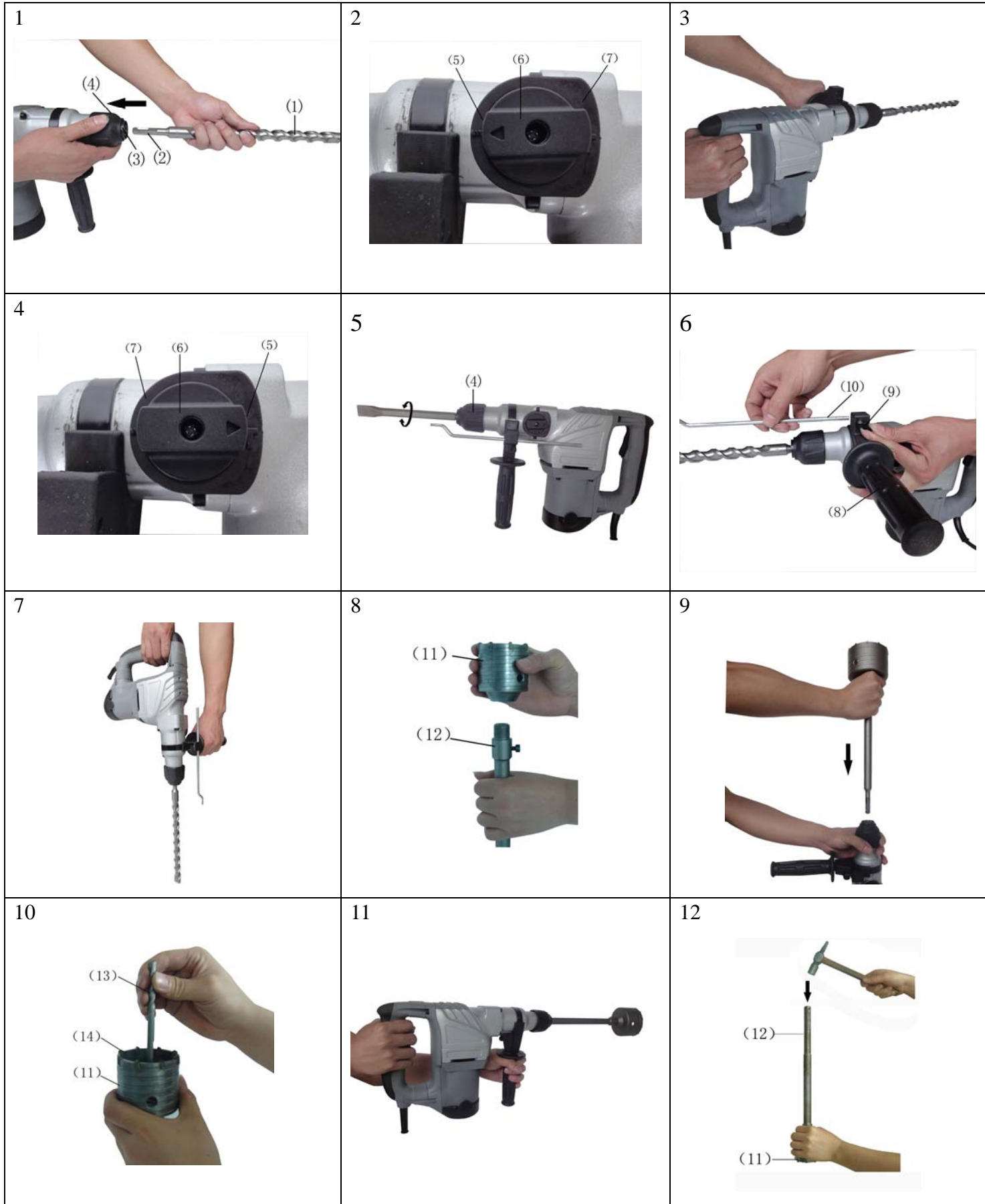


Before using this XINPU Rotary hammer, please carefully read through these **HANDLING INSTRUCTIONS**. Ensure that you know how the machine works, and how it should be operated. Maintain the machine in accordance with the instructions, and make certain that the machine work correctly, please store this instruction and other enclosed documents with the machine together.



Bj:2013

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(1)	Tool
(2)	SDS-plus shank
(3)	Limit set
(4)	Flex Sheath
(5)	locked Pushbutton
(6)	Function Knob
(7)	Knob Support
(8)	Side handle
(9)	Papilionaceous Short Bolt
(10)	Orientation Staff Guage
(11)	Core bit
(12)	Core bit shank
(13)	Drill bit
(14)	Core bit tip
(15)	Oil Tank Cover

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General Power Tool Safety Warnings



WARNING:

Read all safety warnings and all instructions. *Failure to follow all 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 refer to your mains operated (corded) power tool or battery operated (cordless) power tool.

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 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 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 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.*

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 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. Ensure the switch is in the off position before plugging in.** *Carrying power tools with your finger on the switch or plugging in 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 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 tools 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 and in the manner intended for the particular type of power tool, taking into account the working conditions and the work to be performed.** *Use of the power tool for operations different from intended could result in a hazardous situation.*

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.*

Special Warning for Electric hammer

- **Wear ear protection.** *Exposure to noise can cause hearing loss.*
- **Use auxiliary handle with the tool.** *Loss of control can cause personal injury.*
- **Hold 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.*
- **Wear a dust mask.**
- **Do not use the power tool with a damaged cord. Do not touch the damaged cord and pull the plug from the outlet when the cord is damaged while working.** Damaged cords increase the risk of an electric shock.
- **Before beginning work, check the working area (e.g. with a metal detector) to ensure that no concealed electric cables or gas and water pipes are present.** Contact with electric lines can lead to fire and electric shock. Damaging a gas line can lead to explosion. Penetrating a water line causes property damage or may cause an electric shock.
- In case of damages the replacement of the plug or the supply cord shall always be carried out by the manufacturer of the tool or his service organization
- Do not touch the bit during or immediately after operation. The bit becomes very hot during operation and could cause serious burns.

Technical Data

Machine Type	XP-R30
Rated Voltage	230V~
Frequency	50Hz
Rated input	1100W
No-load speed	600/min
Full-load impact rate	3500/min
Capacity: concrete	30mm
wood	30mm
Weight (without cord and side handle)	5.2kg

*Be sure to check the nameplate on product as it is subject to change by areas.

Standard accessories

- | | |
|-----------------------------------|---|
| (1) Plastic case----- | 1 |
| (2) Depth gauge----- | 1 |
| (3) Carbon brush (6*10*14mm)----- | 1 |
| (3) One bottle of grease 30g----- | 1 |

Standard accessories are subject to change without notice.

OPTIONAL ACCESSORIES (sold separately)

1. Through-hole drilling (Rotation + Hammering)



(1) Drill bit (SDS-plus shank)

Outer diameter (mm)	Overall length(mm)
8	280
10	280
12	280
14	280
16	280
18	350
20	350
22	350
25	350
28	350
30	350

2. Large dia. hole boring (Rotation + Hammering)



(1)Drill bit (2) Core bit (3) Core bit shank (SDS-plus shank)

(1)Drill bit

- Applied to core bits 30mm to 120 mm

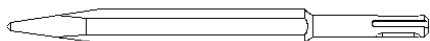
(2) Core bit

- External dia.30mm,35mm,40mm,45mm,50m,55mm,60mm,70mm, 75mm, 80mm, 85mm, 90mm

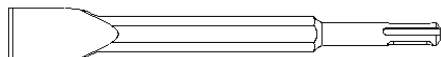
(3) Core bit shank

- Applied to core bits above 30mm.

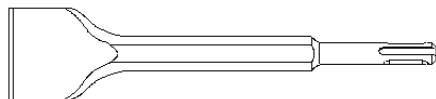
3. Tine Chisel (SDS-plus shank)



4. Flat Chisel (SDS-plus shank)



5. Big Flat Chisel (SDS-plus shank)



6. Grease (30g)



Optional accessories are subject to change without notice.

APPLICATIONS

- Drilling holes in concrete
- Drilling anchor holes
- Crushing concrete, chipping, digging, and squaring
(by applying optional accessories)

Name of the parts



(1)	Flex Sheath
(2)	Function Knob
(3)	Decelerate Box
(4)	Oil Tank Cover
(5)	Switch
(6)	Main Handle
(7)	Cord
(8)	Fan Cover
(9)	Housing Ass'y
(10)	Side Handle Ass'y

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. Power switch

Ensure that the power switch is in the OFF position. 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, which could cause a serious accident.



Switch operation

Switch on	Press the switch towards ①direction
Switch off	Release the switch towards ②direction

3. Extension cord

When the work area is removed from the power source, use an extension cord of sufficient thickness and rated capacity. The extension cord should be kept as short as practicable.

4. Install tool (Fig.1)

CAUTION

To prevent accidents, make sure to turn the switch off and disconnect to the plug from the receptacle.

NOTE:

When using tools such as Tine chisel, drill bits, etc., make sure to use the genuine parts designated by our company.

- (1) To attach the tool, insert it into the hole until it contacts the innermost end of the hole as illustrated in **Fig.1**.

If you continue to turn the tool with slight pressure, you can feel a spot where there is a hitch. At that spot, pull the flex sheath to the direction of an arrow mark and insert the tool all the way until it hits the innermost end.

Releasing the flex sheath reverts the flex sheath and secures the tool in place.

- (2) Pull the tool to make sure it is locked completely.
- (3) To remove the tool, fully pull the flex sheath in the direction of the arrow and pull out the tool.

HOW TO USE

CAUTION:

To prevent accidents, make sure to turn the switch off and disconnect the plug from the receptacle when the drill bits and other various parts are installed or removed. The power switch should also be turned off during a work break and after work.

1. When drilling at “rotation + hammering”:

If you switch the function knob during motor rotation, the tool can start to rotate abruptly, resulting in unexpected accidents. Be sure to switch the function knob when the motor is at a complete stop.

- (1) Switching to “rotation + hammering”
 - (a) Push the locked Pushbutton, release lock and turn the function knob.
 - (b) Align ▲ of the function knob and ■ T of the left cover as illustrated in **Fig.2**.
 - (c) Release the locked Pushbutton to lock the function knob.

NOTE:

Turn the function knob (do not push the locked Pushbutton) to check if it is completely locked and make sure that it does not turn.

- (2) Mount the drill bit.
- (3) Pull the trigger switch after applying the drill bit tip to the drilling position (**Fig.3**)
- (4) Pushing the rotary hammer forcibly is not necessary at all. Pushing slightly so that drill dust comes out gradually is sufficient.

2. When chipping and chiseling at “hammering”:

CAUTION:

- If the function knob is switched during motor rotation, the tool can start to rotate abruptly, resulting in unexpected accidents. Make sure to switch the function knob when the motor is at a complete stop.
 - If the bull point or cold chisel is used at the position of “rotation hammering”, the tool can start to rotate, resulting in unexpected accidents. Make sure that they are used at the position of “hammering”.
- (1) Switching to “hammering”
 - (a) Push the locked Pushbutton, release lock and turn the function knob.

- (b) Align **▲** of the function knob and **T** of the knob support as illustrated in **Fig. 6**.
 - (c) Release the locked Pushbutton to lock the function knob.
 - (2) Mount the tine chisel or flat chisel.
 - (3) Press the push button, turn the function knob to middle of “**T**” mark. (**Fig. 2**)
The rotation is released, turn the flex sheath and adjust the flat chisel to desired position. (**Fig. 5**)
 - (4) Turn the function knob to **T** mark. Then tine chisel or flat chisel is locked.
- 3. Using Staff Gauge (Fig. 6)**
- (1) Loosen the papilionaceous short bolt on the side handle, and insert the staff gauge into the mounting hole on the side handle.
 - (2) Adjust the staff gauge position according to the depth of the hole and tighten the papilionaceous short bolt securely.
- 4. Warming up (Fig. 7)**
- The grease lubrication system in this unit may require warming up in cold regions.
Position the end of the bit so makes contact with the concrete, turn on the switch and perform the warming up operation. Make sure that a hitting sound is produced and then use the unit.
- CAUTION:**
- When the warming up operation is performed, hold the side handle and the main body securely with both hands to maintain a secure grip and be careful not to twist your body by the jammed drill bit.

HOW TO HANDLE A CORE BIT

When a core bit is used, large diameter holes and blind holes can be drilled. In this case, use optional accessories for core bits (such as a dill bit and core bit shank) for more efficient operation.

1. Mounting

CAUTION:

Be sure to turn power OFF and disconnect the plug from the receptacle.

- (1) Mount the core bit to the core bit shank. (**Fig. 8**)
Lubricate the thread of the core bit shank to facilitate disassembly.
- (2) Mount the core bit to the rotary hammer (**Fig. 9**)
- (3) Engage the drill bit with the core bit, and turn the guide plate to the left or the right so that it does not fall even if it faces downward. (**Fig. 10**)

2. Hoe to bore (Fig. 11)

- (1) Connect the plug to the power source.
- (2) By straightly and gently pressing dill bit to the wall or floor surface, the entire surface of the core bit tip attains contact to start the hole drilling job.
- (3) When boring about 5mm in depth the position of the hole will be established. Bore after that removing the drill bit from core bit.
- (4) Application of excessive force will not only expedite the work, but will deteriorate the tip edge of the drill bit, resulting in reduced service life of the hammer drill.

CAUTION:

When removing the drill bit, turn OFF the switch and disconnect the plug from the receptacle.

2. Dismounting (Fig. 12)

Remove the core bit shank from the rotary hammer and strike the head of the core bit shank strongly two or three times with a hammer holding the core bit, then the thread becomes loose and the core bit can be removed.

LUBRICATION

Low viscosity grease is applied to this rotary hammer so that it can be used for a long period without replacing the grease. Please contact the nearest service center for grease replacement when any grease is leaking from loosened screw.

Further use of the rotary hammer with lock off grease will cause the machine to seize up reduce the service life.

CAUTION:

A special grease is used with this machine, therefore, the normal performance of the machine may be badly affected by use of other grease. Please be sure to let one of our service agents undertake replacement of the grease.

Proceed for replacement of grease.

CAUTION:

Before replenishing the grease, turn the power off and pull out the power plug.

- (1) Remove the oil tank cover and wipe off the grease inside. (**Fig. 13**)
- (2) Supply 30g of XINPU Electric Hammer Grease (Standard accessory, contained in tube) to the crank case.
- (3) After replenishing the grease, install the oil tank cover securely.

NOTE:

The XINPU Electric Hammer Grease is of the low viscosity type. If necessary purchase from an XINPU Authorized Service Center.

MAINTENANCE AND SERVICE

1. Inspecting the tool

Since use of a dull tool will degrade efficiency and cause possible motor malfunction, sharpen or replace the tool as soon as 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 hazard.

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 which are consumable parts. When they become worn to or near “wear limit”, it could result in motor trouble. When an auto-stop carbon brush is equipped, the motor will stop automatically.

In addition, always keep carbon brushes clean and ensure that they slide freely within the brush holders.

5. Replacing carbon brushes

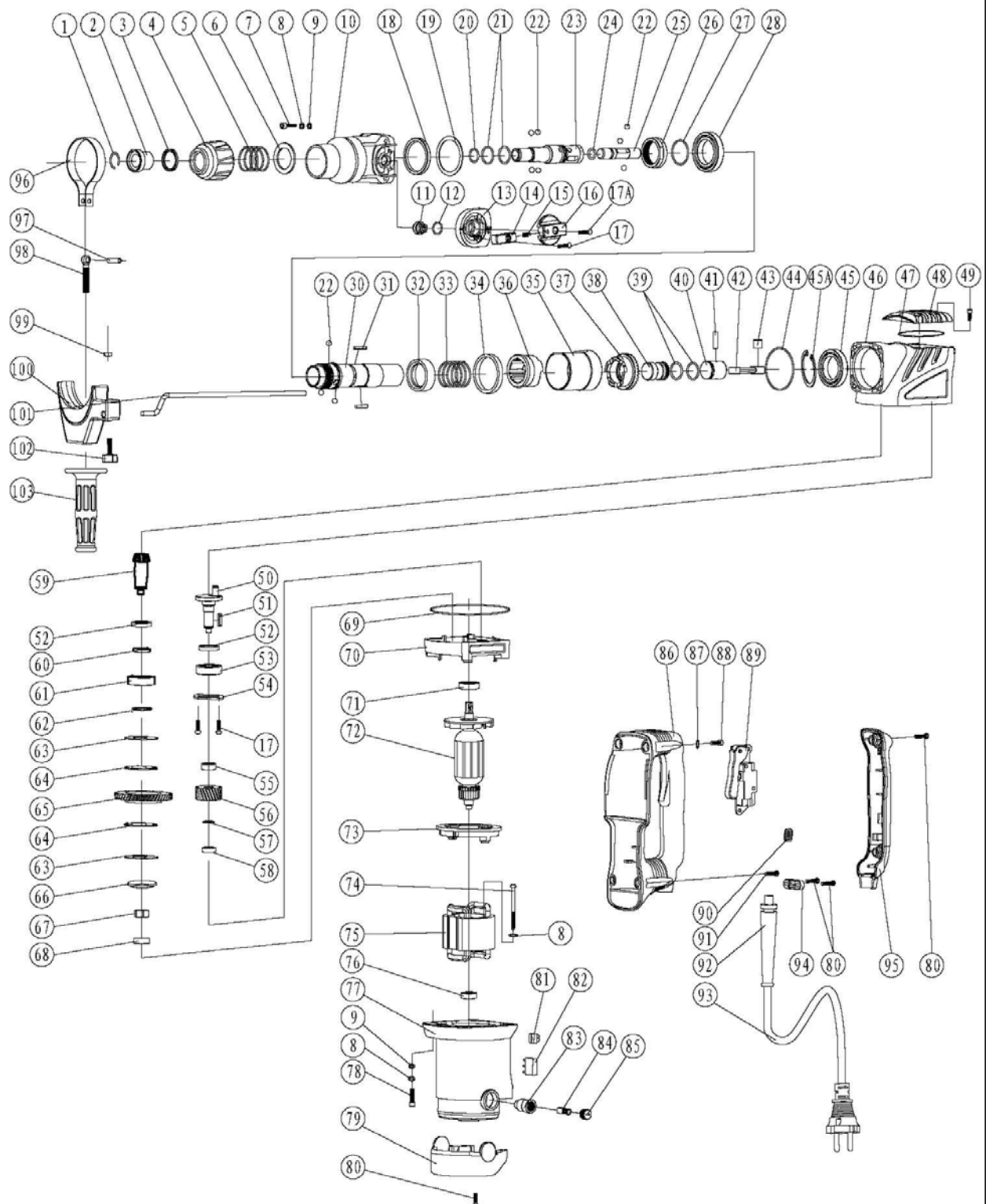
- (1) Loosen the two set screws and remove the fan cover.
- (2) Remove the brush caps and carbon brushes.
- (3) After replacing the carbon brushes, tighten the brush caps securely and install the fan cover with securely tightening two set screws.

Environment



Faulty and /or discarded electrical or electronic apparatus have to be collected at the appropriate recycling location.

XP-R30 Rotary Hammer Part Chart



XP-R30 Rotary Hammer Parts List

XP-No	Item No.	Part Describe	Quantity	XP-No	Item No.	Part Describe	Quantity
88224114	1	Steel Wire Block Ring $\Phi 15.8 \times \Phi 1.6$	1	88224089	54	Bearings Cover	1
88224094	2	Limit set	1	88224105	55	Crankshaft bush	1
88264077	3	Washer $\Phi 25 \times \Phi 31 \times 3.5$	1	88224106	56	Crankshaft gear (2#Tooth)	1
88264090	4	Flex Sheath	1	88210113	57	$\Phi 12$ Retaining Ring	1
88224085	5	Flex Sheath Spring $\Phi 2 \times \Phi 31 \times 80$	1	88233009	58	Ball Bearing 698 Z	1
88310009	6	Felt ring $\Phi 45 \times \Phi 40 \times 3.5$	1	88224107	59	Bevel gear shaft (3#Tooth)	1
88210165	7	Hex.Socket Bolt M5x25	4	88224108	60	Bevel gear shaft sleeve $\Phi 19 \times \Phi 15 \times 4.5$	1
88210090	8	$\Phi 5$ Flat Washer	10	88233010	61	Ball Bearing 6002 RS	1
88210051	9	$\Phi 5$ Spring Washer	8	88224091	62	Small Pads $\Phi 20 \times \Phi 14.5 \times 0.7$	1
88290070	10	front shell	1	88224090	63	Friction plate Washer $\Phi 35 \times \Phi 14.2 \times 2$	2
88224095	11	Regulating shaft	1	88224110	64	Friction Plate $\Phi 35 \times \Phi 14 \times 2$	2
88264078	12	O Ring $\Phi 15 \times \Phi 1.5$	1	88224109	65	Slab Wheel Gear	1
88264091	13	Knob Support	1	88224092	66	Bowl Type Gasket	1
88264092	14	locked Pushbutton	1	88224111	67	Bevel Gear Six Nut	1
88224086	15	Pushbutton Spring $\Phi 0.6 \times \Phi 6 \times 20$	1	88233011	68	Ball Bearing 627 Z	1
88264093	16	Function Knob	1	88264089	69	Airproof Ring II	1
88210166	17	Cross recessed pan head screws M4 x10	5	88290072	70	Inner Cover	1
88210032	17A	Machine Screw M4x12	1	88233012	71	Ball Bearing 6001 RS	1
88264079	18	Oil Seal Ring $\Phi 42 \times \Phi 51 \times 6$	1	88280113	72	Armature 220V-240V	1
88224088	19	Washer $\Phi 55 \times \Phi 45 \times 1$	1	88280122	72	Armature 110V-120V	1
88264080	20	O Ring $\Phi 20 \times \Phi 1.9$	1	88280123	72	Armature 100V	1
88264081	21	Fluorin O Ring $\Phi 26 \times \Phi 2.1$	2	88264018	73	Fan Guide	1
88210180	22	Steel Ball S $\Phi 7.144$	10	88210042	74	Tapping Screw ST4.8x58	2
88224096-1	23	Rotating sleeve	1	88280114	75	Stator 220V-240V	1
88264082	24	Fluorin O Ring $\Phi 11 \times \Phi 2$	2	88280121	75	Stator 110V-120V	1
88224097	25	Ram	1	88280124	75	Stator 100V	1
88224098	26	Nut M35x1	1	88233013	76	Ball Bearing 608 RS	1
88264083	27	O Ring $\Phi 31 \times \Phi 1.9$	1	88264096	77	Housing Ass'y	1
88233005	28	Ball Bearing 6907 RS	1	88210004	78	Hex.Socket Bolt M5x60	4
88224099	30	Cylinder	1	88264097	79	Fan Cover	1
88210167	31	Palt Key 3x20	2	88210038	80	Tapping Screw ST4.2x18	6
88264101	32	Spring set	1	88210076	81	Rivet	2
88224087	33	Clutch Spring $\Phi 1.8 \times \Phi 40 \times 80$	1	88241005	82	Electric Capacity 0.33uF	1
88264084	34	Washer $\Phi 47 \times \Phi 54.5 \times 7$	1	88243007	83	Brush Holder	2
88264094	35	lining	1	88243028	84	Carbon Brush	2
88224100	36	Clutch1	1	88243001	85	Brush Cap	2
88224101	37	Bevel gear (1#Tooth)	1	88264098	86	Main Handle	1
88224102	38	Impact Piston	1	88210057	87	$\Phi 6 \times \Phi 10.5$ Flat Washer	2
88264085	39	Fluorin O Ring $\Phi 26 \times \Phi 3.1$	2	88210007	88	Hex.Socket Bolt M6x20	2
88224112	40	Piston	1	88244002	89	Switch	1
88224103	41	Piston Pin	1	88243023	90	Electricity Feels 0.18uH	1
88224113	42	Connecting Rod Ass'y	1	88210169	91	Tapping Screw ST4.8x25	2
88233006	43	Needle Bearing HK081210	1	88261051	92	Cord Armor	1
88264086	44	O Ring $\Phi 59 \times \Phi 2$	1	88250000	93	Cord	1
88233007	45	Oiliness Bearing	1	88261010	94	Cord Clip	1
88210067	45A	$\Phi 47$ Retaining Ring	1	88264099	95	Main Handle Cover	1
88290071	46	Decelerate Box	1	88224093	96	Side Handle Ass'y Steel Tie	1
88264087	47	Airproof Ring I	1	88210170	97	Spring Column Pin $\Phi 5 \times 23$	1
88264095	48	Oil Tank Cover	1	88210171	98	Abnormity Bolt	1
88210001	49	Hex.Socket Bolt M4x12	4	88210070	99	Nut M6	1
88224104	50	Crank Shaft	1	88264100	100	Side Handle Ass'y Base	1
88210168	51	Palt Key 4x12	1	88301023	101	Orientation Staff Gauge	1
88264088	52	Oil Seal Ring $\Phi 20 \times \Phi 28 \times 4.5$	2	882690217	102	Papilionaceous Short Bolt	1
88233008	53	Ball Bearing 6202 RS	1	88263021	103	Side Handle Ass'y	1