Rotary Hammer

Model: *XP-R32VA*

HANDLING INSTRUCTIONS

Original Instructions

Before using this XINPU Rotary hammer, please carefully read though 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 instriation and other enclosed documents with the machine together.

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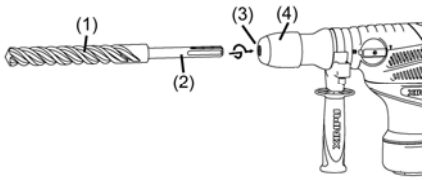

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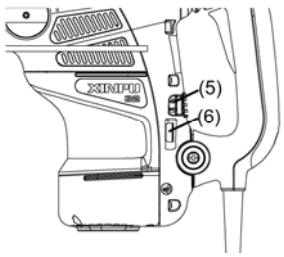

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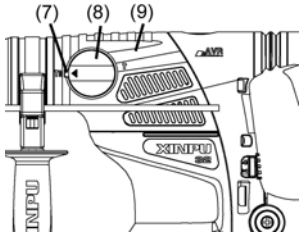

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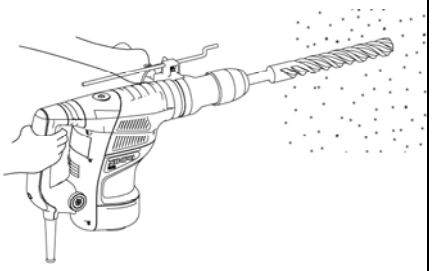

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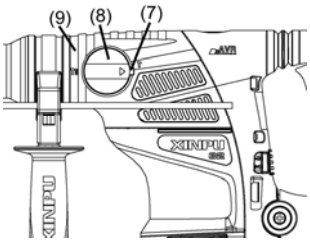

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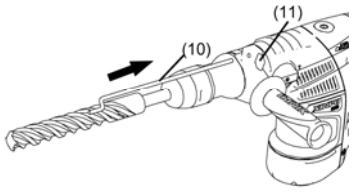

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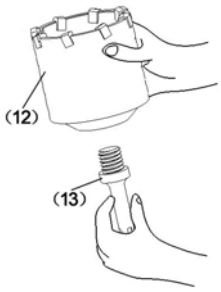

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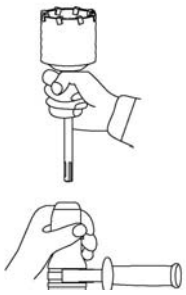

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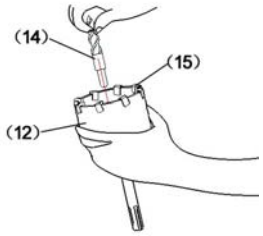

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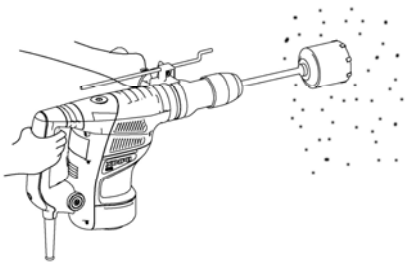

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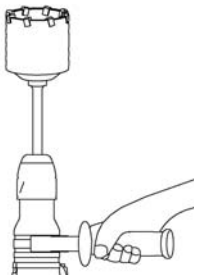

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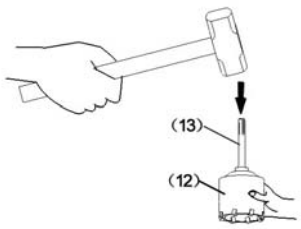

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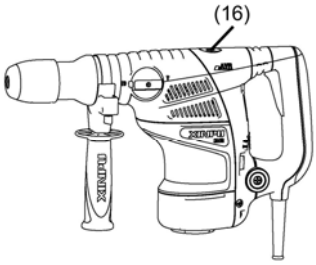


(1)	Drill bit
(2)	Part of SDS max shank
(3)	Turn Staff Armor
(4)	Flex Sheath
(5)	Power source Indicator and carbon brushes Indicator
(6)	Speed Adjuster Knob
(7)	locked Pushbutton
(8)	Function Knob
(9)	Cover
(10)	Orientation Staff Guage
(11)	Papilionaceous Short Bolt
(12)	Core bit
(13)	Core bit shank
(14)	Drill bit
(15)	Core bit tip
(16)	Oil Tank Cover

list:

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 ha2ards.*

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 requirements for rotary hammer

- **Wear ear protectors with impact drills.** *Exposure to noise can cause hearing loss.*
- **Use auxiliary handles supplied 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 inhale the harmful dusts generated in drilling or chiseling operation. The dust can endanger the health of yourself and bystanders.
- **Always hold the body handle and side handle of the power tool firmly.** Otherwise the counterforce produced may result in inaccurate and even dangerous operation.
- **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.
- **Do not use the power tool with a damaged cord. Do not touch the damaged cord and pill the plug from the outlet when the cord is damaged while working.** Damaged cords increase the risk of an electric shock.

Warning: Reduce the working time to avoid risks related with too much vibration.

2. Safety instructions

In this operator's manual/or machine's labels following symbols are used:


Accordance with essential applicable safety of European directives


Double insulation


Denote risk of personal injury, loss of life or damage to the tool in case of nonobservance of the instruction in this manual.


Indicate electrical shock hazard.


mmediately unplug the plug from the main electricity in the case that the cord gets damage and during maintenance.


Wear ear and eye protection.

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

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

SPECIFICATIONS

Model No	XP-R32VA
Product No	8 8018 011
Voltage	220-240V
Frequency	50Hz
Rated power	1100W
No load speed	300-720 min^{-1}
Impact rate	2000-4200min^{-1}
Impact energy	1-9J
Capacity	Drill bit: Φ32mm Core bit: Φ90mm
Optimum drilling diameter in concrete	Φ16-Φ28mm
Weight (without cord and auxiliary handle)	5.7kg

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

STANDARD ACCESSORIES

(1) Carbon Brush (6*10*14mm) …… …….. 1
(2) Hammer grease …… …… 1
(3) Auxiliary handle ……1
(4) Staff Guage……..…….……...1

Standard accessories are subject to change without notice.

OPTIONAL ACCESSORIES (sold separately)

1. Through-hole drilling (Rotation + Hammering)

(1) Drill bit (SDS-max shank)

Outer diameter (mm)	Overall length(mm)	Outer diameter (mm)	Overall length(mm)
8	280	20	400
10	280	22	400
12	280	25	400
14	280	28	400
16	400	30	400
18	400	32	400

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

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

(1)Drill bit

● Applied to core bits 30mm to 90 mm

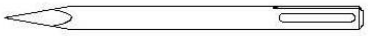
(2) Core bit

● 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-max shank）



4. 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)

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.

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. How to install Drill bit

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 drill bit (SDS-max shank), 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 drill bit 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 drill bit all the way until it hits the innermost end.
Releasing the flex sheath reverts the flex sheath and secures the drill bit in place.
(2) Pull the tool to make sure it is locked completely.
(3) To remove the drill bit, fully pull the flex sheath in the direction of the arrow and pull out the drill bit.

5. Regulating the number of rotations and hammering (Fig. 2)

This Rotary Hammer is equipped with a built-in electronic control circuit that can adjust and regulate the number of rotations and times of hammering. This Rotary Hammer can be used by adjusting the speed adjuster knob, depending upon the contents of operation, such as boring holes into fragile materials, chipping, centering, etc.

The scale'1' of the speed adjuster knob is designed for a minimum speed with the number of 300 rotations per minute and 2000 times of blow per minute. The scale '6' is designed for a maximum speed with the number of 720 rotations per minute and 4200 times of blow per minute.

CAUTION:

Do not adjust the speed adjuster knob during operation. Doing so can result in injury because the Rotary Hammer must be held by only one hand, disabling the steady control of the Rotary Hammer.

HOW TO USE THE ROTARY HAMMER

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.Switch operation

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

2. When drilling at "rotation + hammering":

CAUTION:

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 cover as illustrated in **Fig.3.**

(c) Release the locked Pushbutton to lock the function knob.

CAUTION:

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.4**
(4) Pushing the rotary hammer forcibly is not necessary at all. Pushing slightly so that drill dust comes out gradually is sufficient.

NOTE：

Although this machine is equipped with a safety clutch, if the drill bit becomes bound in concrete or other material, the resultant stoppage of the drill bit could cause the machine body to turn in reaction. Ensure that the main handle and side handle are gripped firmly during operation.

3. When crushing operation 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 tine 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 ▼ of the knob support as illustrated in **Fig. 5.**

(c) Release the locked Pushbutton to lock the function knob.

CAUTION:

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.

4. Install the Orientation Staff Guage (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.

5. 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:

Prior to mounting a core bit, always disconnect the plug from the power supply 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 drill bit to the left or the right so that it does not fall even if it faces downward .**Fig. 10**

2. Drilling holes（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.

CAUTION:

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

3. How to dismount the core bit

(1) By holding the rotary hammer (with the core bit inserted) in an upward position, drive the rotary hammer to repeat impact operation two or three times, whereby the screw is loosened and the rotary hammer becomes ready for disassembly. **Fig. 12**

(2) 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. **Fig. 13**

HOW TO REPLACE GREASE

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.

When you have to replacement the grease by yourself, please following the order:

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. 14**

(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 INSPECTION

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 the “wear limit”, it could result in motor trouble. When an auto-stop carbon brush is equipped, the motor will stop automatically. At that time, replace both carbon brushes with new ones which have the same carbon brush of specification with standard. In addition, always keep carbon brushes clean and ensure that they slide freely within the brush holders.

5. Replacing carbon brushes

When the carbon brushes are worn out, the power tool switches itself off, and also the red indicator light of carbon brush will turn on. The power tool must then be sent to an after-sales service agent. **(Fig. 2)**

When you have to replacement the carbon brushes by yourself, please following the order：

(1) Loosen the four 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.

7.Warranty：For the condition of warranty, please refer to the separately provided warranty card.

8. Environment

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

CAUTION:

Repair, modification and inspection of XINPU Power tools must be must be carried out by a XINPU Authorized Service Center.

In the operation and maintenance of power tools, the safety regulations and standards prescribed in each country must be observed.

MODIFICATIONS:

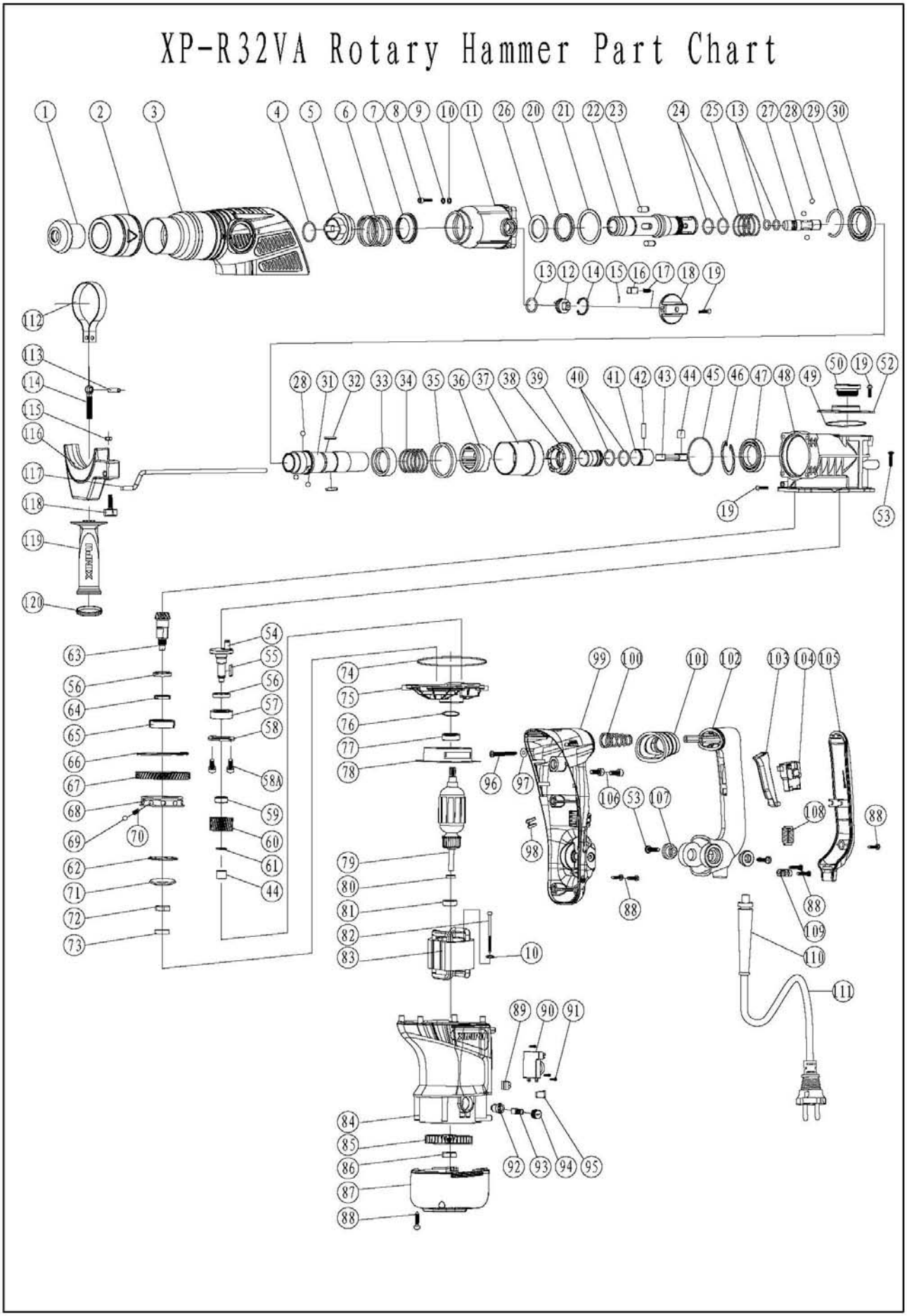
XINPU Power Tools are constantly being improved and modified to incorporate the latest technological advancements.

Accordingly, some parts (i.e. code numbers and/or design) may be changed without prior notice.

NOTE:

Due XINPU’s continuing program of research and development, the specifications herein are subject to change without prior notice.

XP-R32VA Rotary Hammer Part Chart



ID No.8 8018 011

XP-R32VA Rotary Hammer Parts List

XP-No	Item No.	Part Describe	Quantity	XP-No	Item No.	Part Describe	Quantity
88264163	1	Turn Staff Armor	1	88210113	61	Φ12 Retaining Ring	1
88264165	2	Flex Sheath	1	88224090	62	Friction plate Washer Φ35×Φ14.2×2	1
88264166	3	Cover	1	88224107	63	Bevel gear shaft（3#Tooth）	1
88224019	4	Steel Wire Block Ring Φ2×Φ25.5	1	88224108	64	Bevel gear shaft sleeveΦ19×Φ15×4.5	1
88275001	5	Lock Bead Sheath	1	88239002	65	Ball Bearing 6002 RS	1
88224022	6	Lock Bead Sheath Spring Φ2.5×Φ42.5×74	1	88210198	66	Φ52 Retaining Ring	1
88224006	7	Spring Seat	1	88224127	67	Clutch Gear	1
88210165	8	Hex.Socket Bolt M5×25	4	88224128	68	Clutch Seat	1
88210051	9	Φ5 Spring Washer	4	88210196	69	Clutch Steel Ball SΦ5.55	10
88210090	10	Φ5 Flat Washer	6	88224118	70	Clutch Spring Φ1×Φ4.5×12	10
88290107	11	Front housing	1	88224092	71	Bowl Type Gasket	1
88224121	12	Dial Staff Sheath	1	88224111	72	Bevel Gear Six Nut	1
88264121	13	Fluorin O Ring Φ14×Φ2.5	3	88239004	73	Ball Bearing 627 Z	1
88210197	14	Φ18 Retaining Ring	1	88264123	74	Airproof Ring	1
88224122	15	Pushbutton lockpin	1	88290092	75	Inner Cover	1
88264024	16	locked Pushbutton	1	88210204	76	Φ28 Urethane Washer	1
88224002	17	Pushbutton Spring Φ0.6×Φ4.4×14	1	88239003	77	Ball Bearing 6001 RS	1
88264127	18	Function Knob	1	88264129	78	Fan Guide	1
88210032	19	Machine Screw M4×12	6	88280125	79	Armature	1
88264138	20	Oil Seal Ring Φ35×Φ51×6	1	88243033	80	Magnetism Inductorium	1
88224088	21	Washer Φ55×Φ45×1	1	88239006	81	Ball Bearing 608 RS	1
88224139	22	Hammer Staff Sheath	1	88210042	82	Tapping Screw ST4.8×58	2
88224009	23	Lock Staff Bead Φ8×19.3	2	88280126	83	Stator	1
88264081	24	Fluorin O Ring Φ26×Φ2.1	2	88264167	84	Housing Ass'y	1
88224085	25	Flex Sheath Spring Φ2×Φ31×80	1	882890524	85	Fan	1
88310009	26	Felt ringΦ45×Φ40×3.5	1	88210206	86	Nut M8x1x3.8	1
88224140	27	Ram	1	88264168	87	Fan Cover	1
88210180	28	Steel Ball SΦ7.144	6	88210038	88	Tapping Screw ST4.2×18	11
88224130	29	Steel Wire Block Ring Φ32xΦ2	1	88210076	89	Rivet	2
88239001	30	Ball Bearing 6907 RS	1	88244135	90	Speed Adjuster	1
88224129	31	Cylinder	1	88210202	91	Cross recessed pan head tapping screws	3
88210167	32	Palt Key 3x20	2	88243007	92	Brush Holder	2
88264101	33	Spring set	1	88243028	93	Carbon Brush	2
88224087	34	Clutch Spring Φ1.8×Φ40×80	1	88243001	94	Brush Cap	2
88264084	35	Washer Φ47×Φ54.5×7	1	88264158	95	Limit block	1
88224100	36	Clutch1	1	88210181	96	Machine Screw ST5.5x30	2
88264094	37	Lining	1	88210183	97	Flat Washer Φ5.5×Φ12×1	2
88224101	38	Bevel gear（1#Tooth）	1	88264169	98	Indicator	1
88224102	39	Impact Piston	1	88264170	99	Main Handle Seat	1
88264085	40	Fluorin O Ring Φ26×Φ3.1	2	88223057	100	Shock Absorption Spring	1
88224112	41	Piston	1	88264124	101	Shock Absorption Jacket	1
88224103	42	Piston Pin	1	88264135	102	Main Handle	1
88224141	43	Connecting Rod Ass'y	1	88264134	103	Switch Trigger	1
88234016	44	Needle Bearing HK081410	2	88244136	104	Switch	1
88264086	45	O Ring Φ59×Φ2	1	88264136	105	Main Handle Cover	1
88210067	46	Φ47 Retaining Ring	1	88210003	106	Hex.Socket Bolt M5×16	2
88233007	47	Oiliness Bearing	1	88223059	107	Main Handle Platen	2
88290091	48	Decelerate Box	1	88243049	108	Electricity Feels	1
88264122	49	O Ring Φ57×Φ1.5	1	88261010	109	Cord Clip	1
88223055	50	Oil Tank Cover	1	88261051	110	Cord Armor	1
88264128	52	Shell cover	1	88250000	111	Cord	1
88210119	53	Machine ScrewST5.5×25	6	88224120	112	Side Handle Ass'y Steel Tie	1
88224124	54	Crank Shaft	1	88210170	113	Spring Column Pin Φ5×23	1
88210168	55	Palt Key 4×12	1	88210171	114	Abnormity Bolt	1
88264088	56	Oil Seal Ring Φ20×Φ28×4.5	2	88210070	115	Nut M6	1
88239005	57	Ball Bearing 6202 RS	1	88264137	116	Side Handle Ass'y Base	1
88224089	58	Bearings Cover	1	88301023	117	Orientation Staff Guage	1
88210188	58A	Hex.Socket Bolt M4x12(12.9)	2	882690217	118	Papilionaceous Short Bolt	1
88224125	59	Crankshaft bush	1	88264171	119	Side Handle	1
88224126	60	Crankshaft gear（2#Tooth）	1	88264172	120	Side Handle Cover	1