

TOTAL

One-Stop Tools Station

TOTAL

ROTARY HAMMER

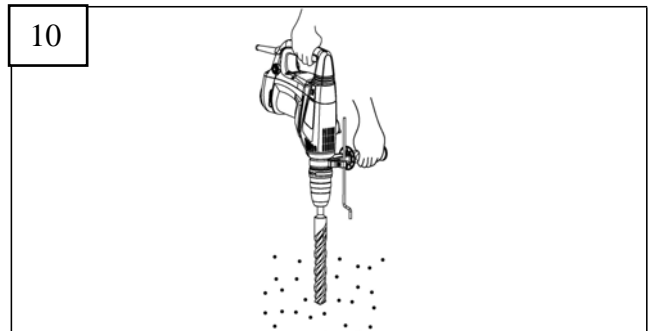
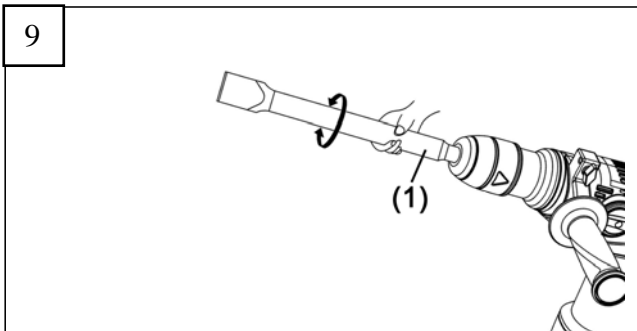
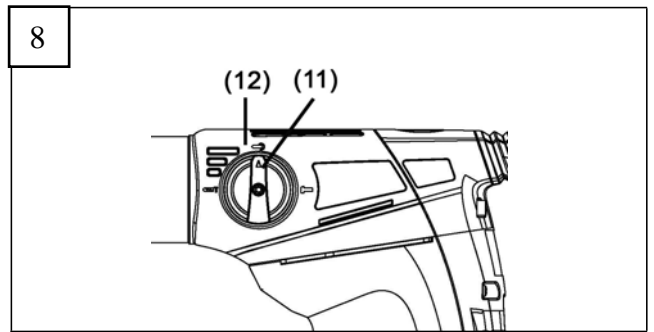
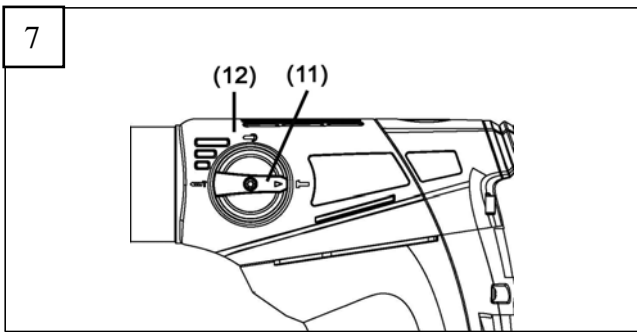
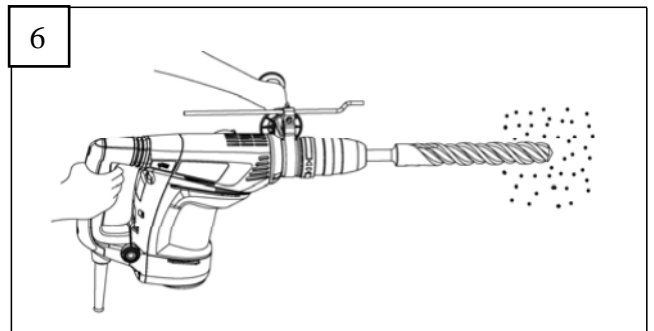
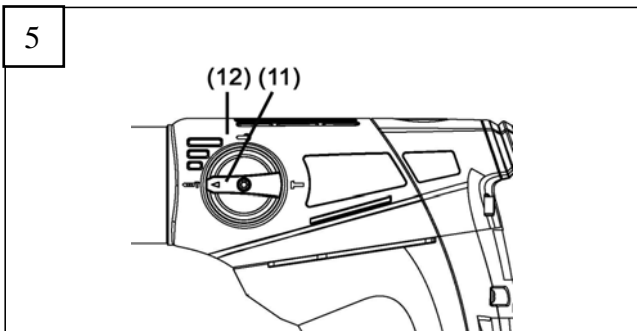
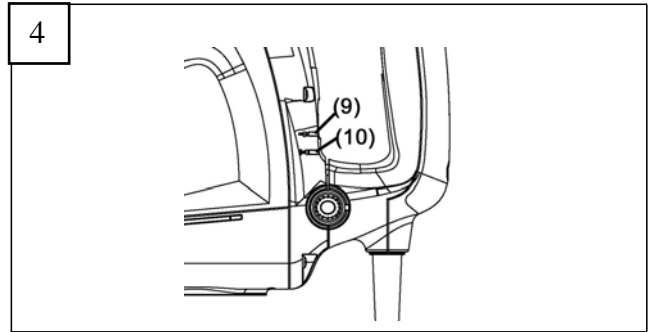
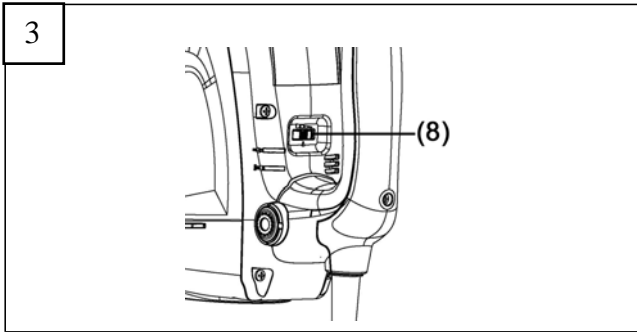
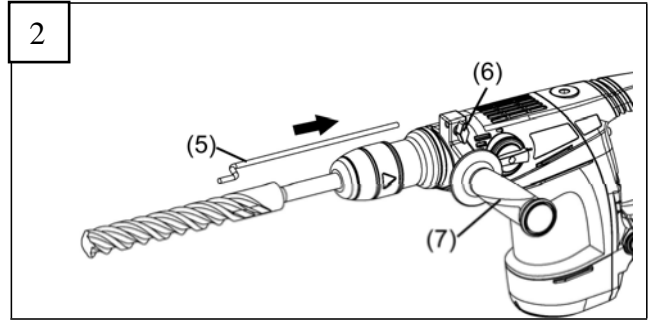
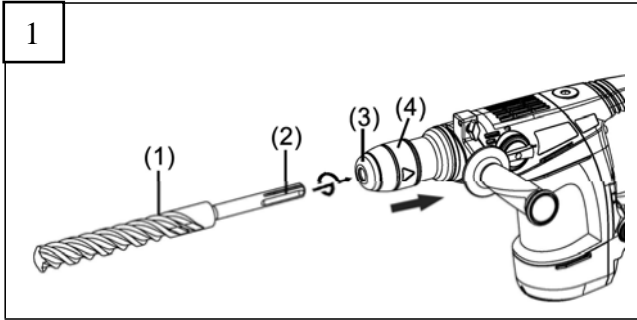
TH112381, UTH112381

TH112381-6, TH112381-8, TH112381S

INDUSTRIAL



1200W



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 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 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 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, picking up or carrying the tool.** *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 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 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

1. **Wear ear protectors.** *Exposure to noise can cause hearing loss.*
2. **Use auxiliary handles, if supplied with the tool.** *Loss of control can cause personal injury.*
3. **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.*
4. **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.
5. **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.
6. If the supply cord of this power tool is damaged, it must be replaced by a specially prepared cord available through the service organization.
7. Do not touch the bit during or immediately after operation. The bit becomes very hot during operation and could cause serious burns.
8. **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.
Warning: Reduce the working time to avoid risks related with too much vibration.

Safety instructions

	Double insulation		Read the operating instructions before use.
	General Warning		Warning: Electricity
	Wear ear and eye protection.		Immediately unplug the plug from the main electricity in the case that the cord gets damage and during maintenance.

SPECIFICATIONS

Model No.	TH112381	UTH112381
Voltage:	220-240V~50/60Hz	110-120V~60Hz
Input power:	1200W	1200W
No-load speed:	300-760/min	300-760/min
Impact rate:	1950-4860/min	1950-4860/min
Impact energy:	1-7J	1-7J
Drilling capacity:Concrete	38mm	1 1/2"
Core bit:	100mm	4"
Tool holder type:	SDS-Max	SDS-Max

Model No.	TH112381-8 (BS PLUG)	TH112381S (SAA PLUG)	TH112381-6 (ISRAEL PLUG)
Voltage:	220-240V~50/60Hz	220-240V~50/60Hz	220-240V~50/60Hz
Input power:	1200W	1200W	1200W
No-load speed:	300-760/min	300-760/min	300-760/min
Impact rate:	1950-4860/min	1950-4860/min	1950-4860/min
Impact energy:	1-7J	1-7J	1-7J
Drilling capacity:Concrete	38mm	38mm	38mm
Core bit:	100mm	100mm	100mm
Tool holder type:	SDS-Max	SDS-Max	SDS-Max

*Note type designation on the device, differences might depend on area.

STANDARD ACCESSORIES

(1) Carbon Brush	1
(2) Auxiliary handle	1
(3) Depth Guage.....	1
(4) SDS-Max drill bits.....	2
(5) SDS-Max chisels.....	2

Standard accessories are subject to change without notice.

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 check

Ensure that the power source to be utilized conforms to the power requirements specified on the product nameplate.

2. Switch status check

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.

Recommended minimum conductor cross section and max. cable lengths:

Nominal cross section of conductor	Max. length
1.0mm ²	40m
1.5mm ²	60m

Assembly

1. Install and Removing the SDS-max bit (Fig.1)

CAUTION:

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

NOTE :

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

- (1) Clean the bit shank and apply grease before inserting the bit.
- (2) Insert the bit into the tool. Turn the 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.
- (3) Pull the bit to make sure it is locked completely.
- (4) To remove the bit, fully pull the flex sheath in the direction of the arrow and pull out the tool.

2. Auxiliary handle (Fig.2)

Operate your power tool only with the auxiliary handle .

The auxiliary handle can be set to any position for a secure and low-fatigue working posture.

Turn the bottom part of the auxiliary handle in counterclockwise direction and swivel the auxiliary handle to the desired position. Then retighten the bottom part of the auxiliary handle by turning in clockwise direction.

Pay attention that the band of the auxiliary handle is positioned on the cover as intended for.

3. Install the Orientation Staff Gauge (Fig.2)

- (1) Loosen the papilionaceous bolt on the auxiliary 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 bolt securely.

4. Regulating the number of rotations and hammering (Fig. 3)

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 1950 times of blow per minute. The scale '6' is designed for a maximum speed with the number of 760 rotations per minute and 4860 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.

5. Indicator LEDs (Fig. 4)

The green power-ON indicator LED lights up when the tool is plugged. If indicator led does not light up, the mains cord or the controller may be defective. The red service indicator LED lights up when the carbon brushes are worn out to indicate that the tool needs servicing.

Operation

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 ① direction
Switch off	Release the switch towards ② direction

2. 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”

Turn the function knob clockwise. Align ▲ of the function knob and ■T of the cover as illustrated in Fig.5.

(2) Mount the drill bit.

(3) Pull the trigger switch after applying the drill bit tip to the drilling position Fig.6

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

CAUTION:

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 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 tine chisel or flat 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”

Turn the function knob counterclockwise. Align ▲ of the function knob and T of the cover as illustrated in **Fig. 7**.

(2) When fixing working positions of flat chisel such as cold chisel, etc.,

(a) Turn the function knob, Align ▲ of the function knob and ◀ of the cover as illustrated in **Fig. 8**.

(b) Turn the bit as illustrated in **Fig. 9** and fix the flat chisel to the desired working direction.

(c) Switch the selector lever to “hammering” according to the procedures mentioned in the above item (1) and secure the position of the tool.

5. Warming up (Fig.10)

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 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.
- (2) Supply 30g of TOTAL 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 TOTAL Electric Hammer Grease is of the low viscosity type. If necessary purchase from an TOTAL 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. The red service indicator LED lights up when the carbon brushes are worn out to indicate that the tool needs servicing. The power tool must then be sent to an after-sales service agent.

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 helical spring and carbon brushes.
- (3) After replacing the carbon brushes, install the helical spring and fan cover, with securely tightening four set screws.

CAUTION:

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

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

MODIFICATIONS:

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

Disposal



Do not dispose of electric tools together with household waste material!

In observance of European Directive on waste electrical and electronic equipment and its implementation in accordance with national law, electric tools that have reached the end of their life must be collected separately and returned to an environmentally compatible recycling facility.

TH112381, UTH112381

TH112381-6, TH112381-8, TH112381S Spare part list

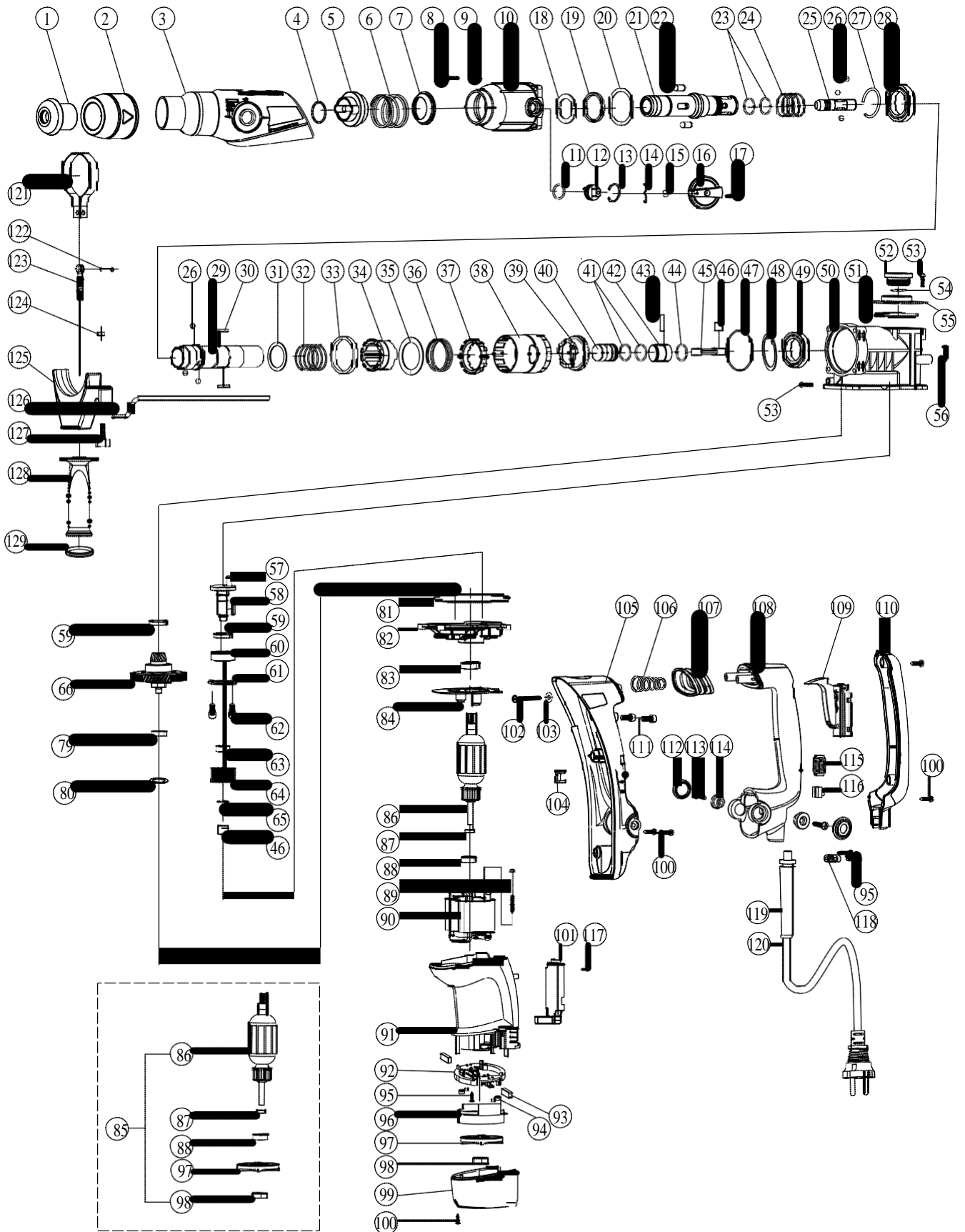
No.	Part Description	Qty
1	Turn Staff Armor	1
2	Flex Sheath	1
3	Cover	1
4	Steel Wire Block Ring $\Phi 2 \times \Phi 25.5$	1
5	Lock Bead Sheath	1
6	Lock Bead Sheath Spring $\Phi 2.5 \times \Phi 42.5 \times 74$	1
7	Spring Seat	1
8	Hex.Socket Bolt M5x25 (12.9)	4
9	$\Phi 5$ Spring Washer	4
10	Front housing	1
11	Fluorin O Ring $\Phi 14 \times \Phi 2.5$	1
12	Dial Staff Sheath	1
13	$\Phi 18$ Retaining Ring	1
14	Shrapnel	2
15	Spring Pole	2
16	Function Knob	1
17	Tapping Screw ST4.2x10	1
18	Felt Ring $\Phi 45 \times \Phi 40 \times 3.5$	1
19	Oil Seal Ring $\Phi 35 \times \Phi 51 \times 6$	1
20	Washer $\Phi 55 \times \Phi 45 \times 1$	1
21	Hammer Staff Sheath	1
22	Lock Staff Bead $\Phi 8 \times 19.3$	2
23	Fluorin O Ring $\Phi 26 \times \Phi 2.1$	2
24	Flex Sheath Spring $\Phi 2 \times \Phi 31 \times 80$	1
25	Ram Subassembly	1
26	Steel Ball S $\Phi 7.144$	6
27	Steel Wire Block Ring $\Phi 32 \times \Phi 2$	1
28	Ball Bearing 6907 RS	1
29	Cylinder	1
30	Palt Key 3X20	2
31	Clutch Spring Seat $\Phi 42 \times \Phi 32.4 \times 1.5$	1
32	Clutch Spring $\Phi 1.8 \times \Phi 36 \times 80$	1
33	Washer $\Phi 47 \times \Phi 54.5 \times 7$	1
34	Clutch1	1
35	Ratchet Spring Seat $\Phi 55 \times \Phi 40 \times 1.5$	1
36	Ratchet Spring $\Phi 2 \times \Phi 45.5 \times 30$	1
37	Ratchet Ring	1
38	Lining	1
39	Bevel gear (1#Tooth)	1

No.	Part Description	Qty
40	Impact Piston	1
41	Fluorin O Ring $\Phi 26 \times \Phi 3.1$	2
42	Piston	1
43	Piston Pin	1
44	Fluorin O Ring $\Phi 17.7 \times \Phi 1.5$	1
45	Connecting Rod Ass'y	1
46	Needle Bearing HK081410	2
47	O Ring $\Phi 59 \times \Phi 2$	1
48	$\Phi 47$ Retaining Ring	1
49	Oiliness Bearing	1
50	Decelerate Box	1
51	O Ring $\Phi 57 \times \Phi 1.5$	1
52	Oil Tank Cover	1
53	Machine Screw M4x12	5
54	O Ring $\Phi 20 \times \Phi 2$	1
55	Shell cover	1
56	Machine Screw ST5.0x25	4
57	Crank Shaft	1
58	Palt Key 4x12	1
59	Oil Seal Ring $\Phi 20 \times \Phi 28 \times 4.5$	2
60	Ball Bearing 6202 RS	1
61	Bearings Cover	1
62	Hex.Socket Bolt M4x12(12.9)	2
63	Crankshaft bush	1
64	Crankshaft gear (2#Tooth)	1
65	$\Phi 12$ Retaining Ring	1
66	Clutch Compages	1
79	Ball Bearing 627 Z	1
80	Washer $\Phi 22 \times \Phi 14 \times 0.5$	1
81	Airproof Ring	1
82	Inner Cover	1
83	Ball Bearing 6001 RSW	1
84	Fan Guide	1
85	Armature Subassembly	1
86	Armature	1
87	Magnetism Inductorium	1
88	Ball Bearing 608 RS	1
89	Tapping Screw ST4.8x58	2
90	Stator	1

No.	Part Description	Qty
91	Housing Ass'y	1
92	Brush Carrier Subassembly	1
93	Carbon Brush	2
94	Coil spring	2
95	Tapping Screw ST4.2x16	6
96	Below Fan Guide	1
97	Fan	1
98	Nut M8x1x3.8	1
99	Fan Cover	1
100	Tapping Screw ST4.2x18	9
101	Speed Adjuster	1
102	Machine Screw ST5.5x30	2
103	Flat Washer $\Phi 5.3 \times \Phi 16 \times 1.2$	2
104	Indicator	1
105	Main Handle Seat	1
106	Shock Absorption Spring	1
107	Shock Absorption Jacket	1
108	Main Handle	1
109	Switch	1
110	Main Handle Cover	1
111	Hex.Socket Bolt M5x16	2
112	Screw Cap	2
113	Machine Screw ST5.5x25	2
114	Main Handle Platen	2
115	Electricity Feels	1
116	Rivet	2
117	Machine Screw ST3.5x16	2
118	Cord Clip	1
119	Cord Armor	1
120	Cord	1
121	Side Handle Ass'y Steel Tie	1
122	Spring Column Pin $\Phi 5 \times 23$	1
123	Abnormity Bolt	1
124	Nut M6	1
125	Side Handle Ass'y Base	1
126	Orientation Staff Guage	1
127	Papilionaceous Bolt	1
128	Side Handle	1
129	Side Handle Cover	1

TH112381, UTH112381

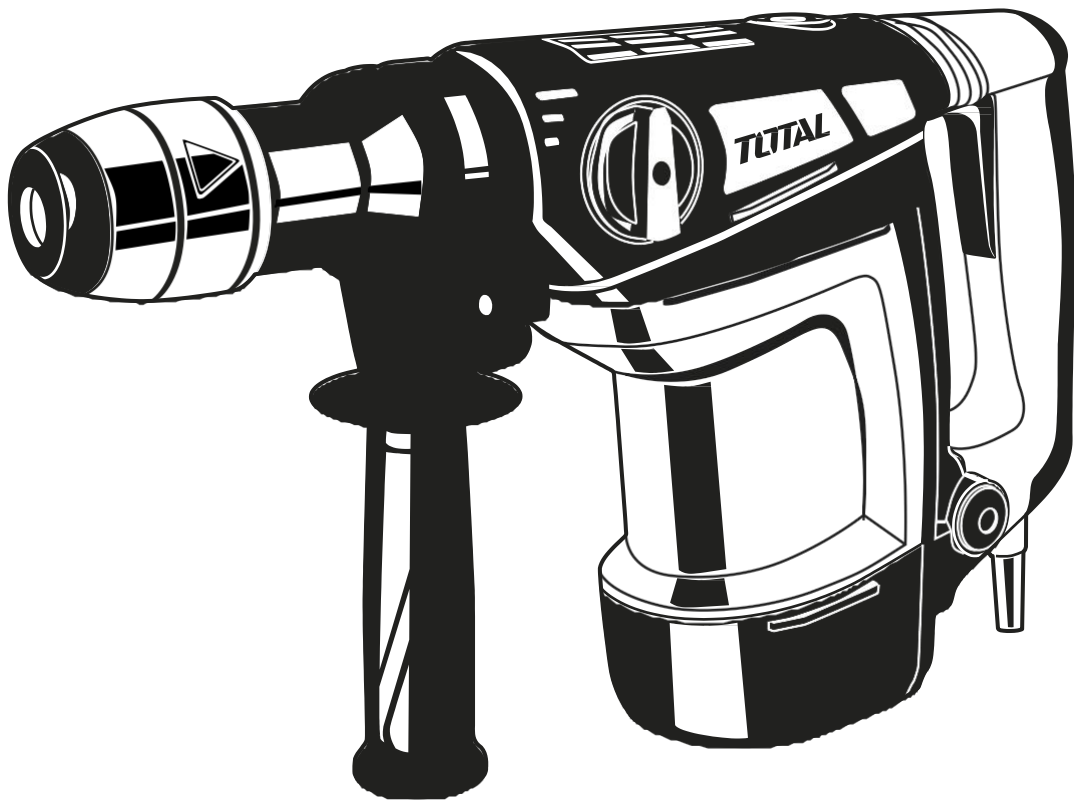
TH112381-6, TH112381-8, TH112381S Exploding view



TOTAL

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TOTAL



ROTARY HAMMER

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1200W