INSTRUCTION MANUAL

RANKOR

CUT OFF SAW

RCS270001

MADE IN CHINA

READ AND FOLLOW ALL SAFETY PRECAUTIONS IN THE INSTRUCTION MANUAL.

Content

Safety Notes

General Power Tool Safety Warnings

⚠WARNING

Read all safety warnings and all instructions. Failure to follow the warnings and instructions may result in electric shock, fire, or severe injury. Save all warnings and instructions for future reference. The power tool in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

Work area safety

- **Keep the work area clean and well-lit. Cluttered or dark areas invite accidents.**
- **Do not operate power tools in explosive atmospheres, such as in flammable liquids, gases or dust. Power tools create sparks that may ignite the dust or fumes.**
- **Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.**

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 the 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 the cord away from heat, oil, sharp edges and 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. Using 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. The use of an RCD reduces the risk of electric shock.**

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 dust masks, non-skid safety shoes, hard hats, and hearing protection for appropriate conditions will reduce personal injuries.**
- **Prevent unintentional starting. Ensure the switch is off position before connecting it to the power source or battery pack or picking up or carrying the tool. Carrying power tools with your finger on the switch or energising power tools with 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.**
- **Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.**
- **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.**
- **If devices are provided for connecting dust extraction and collection facilities, ensure these are connected and properly used. The use of dust collection can reduce dust-related hazards.**

Power tool use and care

- ▶**Don’ t 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 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 or the battery pack 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. 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. Poorly maintained power tools cause many accidents**
- ▶**Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp edges are less likely to bind and are easier to control.**
- ▶**Use the power tool, accessories, tool sets, etc., in accordance with these instructions, taking into account the working conditions and the work to be performed. Using the power tool for operations different from those intended could result in a hazardous situation.**

Service

- ▶**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.**

Additional Safety Rules for Cut-Off Machine

⚠WARNING

Don't use the tool before assembling and mounting it according to the instructions.

- ▶**For those unfamiliar with the operation, please read the instruction manual and follow the instructions. It is recommended to wear safety glasses,mask, head shield, and other body protective equipment to avoid injury.**
- ▶**Before operation, tighten the axle screw and all clamps and make sure that the axis lock is off.**
- ▶**Only use the reinforced wheel with a buffer. To avoid the workpiece moving while working, fix it firmly before cutting.**
- ▶**Always use a shield and operate according to the procedures. Don't touch the cutting disc with your hands, and don’ t stretch your hand across the button or the back of the cutting disc. The cutting disc should stop rotating completely before moving the workpiece away or changing its angle.**
- ▶**When mounting the disc, carefully tighten the spindle screw. Over-tightening may cause damage to the cutting disc and its flange.**
- ▶**Before operation, always check for cracks or other damage on the cutting disc and replace it immediately if damaged. Each disc's cutting times and quality may vary significantly according to the cutting time. Quick cutting may cause disc wear promptly, but it is helpful to remove burrs and fading in colour. Only use cutting discs with a rotation rate of at least 3900/min.**
- ▶**Only use the defined disc flange. Ensure there is nothing on the disc flange's inner surface and the disc's two sides.**
- ▶**Before starting to cut, confirm that the motor has reached full-speed revolution, and ensure the cutting disc doesn't touch the workpiece.**
- ▶**After switching on, slightly lower the cutting disc until it touches the workpiece, then start to cut. The tool can cut any material successfully with minimal touch. Don't let the disc shake and jump, as this will damage the round edge and may damage the disc.**

- ▶Use a disc shield at all times, and don't use the tool in the vicinity of flammable liquids or gases. To avoid an electric shock, don't use the tool in wet places or under rain.
- ▶The tool is designed to cut iron metal. Do not use it to cut wood, brick, aluminium, or magnesium.
- ▶When mounting a new disc, don’t align the disc to start the tool. Run the tool for at least 1 minute before cutting.
- ▶Disconnect the attachment plug from the power receptacle before maintenance or adjustment. If any part or component of the tool is missing or damaged, disconnect the power source and replace the part before operating.

⚠WARNING

1.DON'T USE THE CUT-OFF MACHINE WITHOUT A PROTECTIVE COVER IN A SUITABLE POSITION.
2.THE RECOMMENDED THICKNESS OF THE GRINDING WHEEL IS 3MM, AND THE DIAMETER OF THE WHEEL'S HOLE IS 25.4MM.
3.THE MAXIMUM CUTTING CAPACITY OF THE CUT-OFF MACHINE IS 100MM.

Technical Data

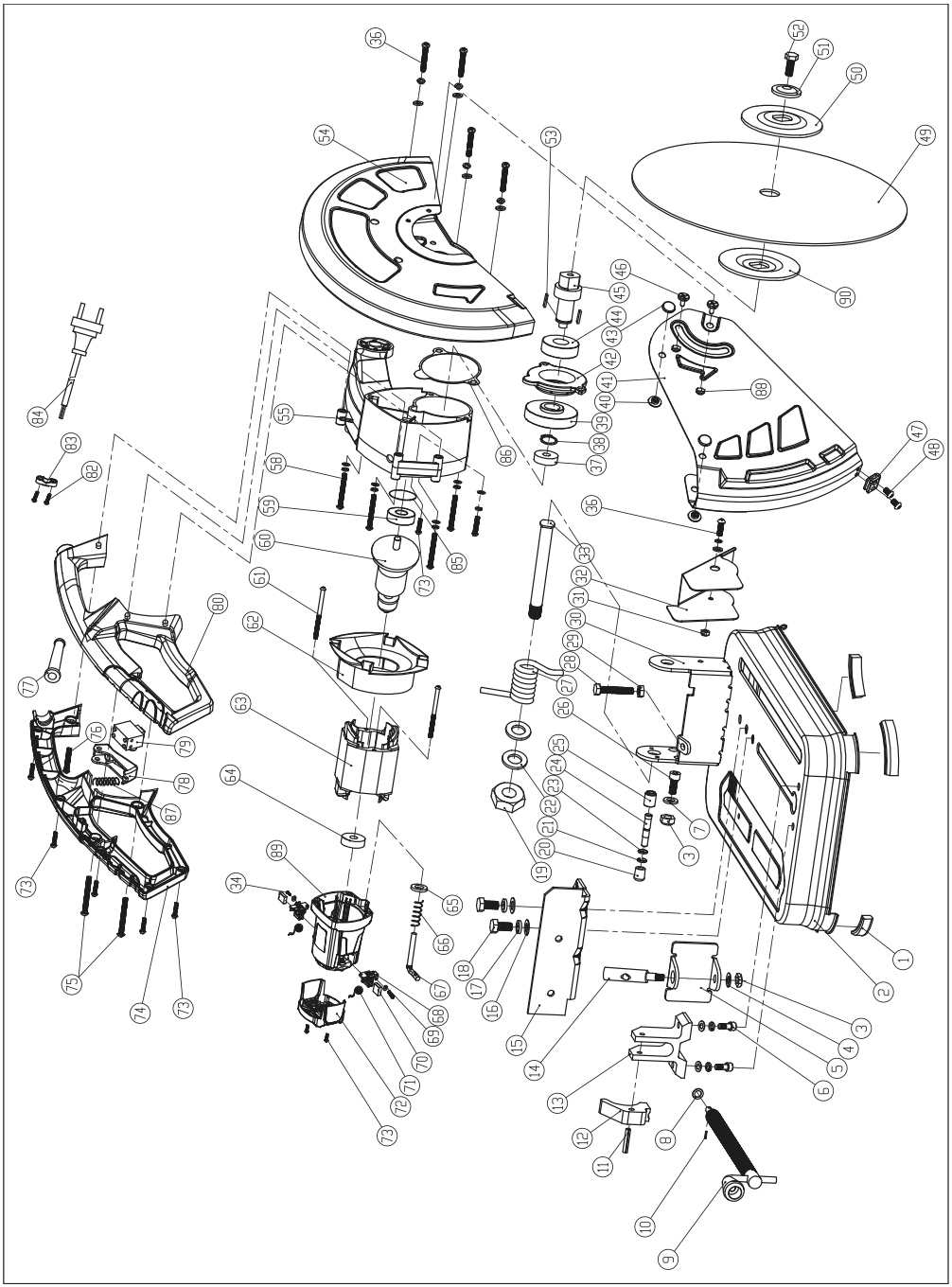
Model No.	RCS270001
No Load Speed	3900/min
Max. Disc Diameter	355mm
Rated Power	2700W
Frequency	50/60Hz
Voltage	220-240V~

CUT-OFF MACHINE SPARE PARTS LIST

Exploded view No.	Part nam	Qty	Material	Exploded view No.	Part name	Qty	Material
1	Base foot	3	NBR	28	Hexagon head bolt M8X35	1	Q235
2	Base plate	3	Q235	29	Hexagon nut M8	1	Q235
3	Type 1 non-metallic insert hexagon lock nut M8	1	Q235	30	Bracket	1	Q235
4	Large washer Φ20xΦ8x2	2	Q235	31	Type 1 non-metallic insert hexagon lock nut M6	1	Q235
5	Small clamp plate	1	Q235	32	939s chip shield	1	Q235
6	Hexagon cylinder head screw M8X16 with built-in washer and spring pad	1	Q235	33	Swing arm pivot pin	1	45
7	Standard type spring pad 8		Q235	34	Cross recessed pan head self-tapping screw / ST4X10	2	Q2135
8	Flat washer Φ16xΦ8x1		Q235	36	Hexagon cylinder head screw M6X22 with built-in washer and spring pad	2	Q235
9	KU760 lead screw assembly		HT200	37	Deep groove ball bearing 6000	1	
10	Elastic cylindrical pin with straight groove 4X16	1	Q235	38	Axial elastic retaining ring 20	1	65Mn
11	Heavy duty elastic cylindrical pin with straight groove 6.330	1	HT200	39	KU760 gear	1	40Cr
12	KU760 quick advance nut	5	Q235	40	Protective lock clip	3	PE
13	KU760 quick advance nut seat	2	65Mn	41	939C movable shield assembly	1	Q235
14	Vise clamp pin	2	Q235	42	Front cover	1	ADC12
15	Large clamp plate		Q235	43	Protective lock pin	3	PE
16	Hexagon cylinder head screw M6X18 with built-in washer and spring pad		Q235	44	Deep groove ball bearing 6204	1	
17	Hexagon head bolt M10X20 (across flat 16.9) 8.8 grade	2	Q235	45	KU760 output shaft	1	45
18	Type 1 non-metallic insert hexagon lock nut M16	2	65Mn	46	KU760 protective cover screw	2	
19	Rising limit pin cap	2	Q235	47	932 movable shield protection block	1	TPU
20	Split ring 6	1	Q235	48	Cross recessed pan head screw M5X6	2	Q235
21	Transfer pin flat washer A		NBR	49	Grinding disc	1	
22	O-ring vacuum r ubber seal 8.51.9			50	KU760 outer pressure plate	1	Q235
23	Rising limit pin	1	40Gr	51	Small pressure plate	1	Q235
24	Limiting sleeve	1	45	52	Hexagon head bolt 8.8 grade M10X20 (across flat 16.9mm)	1	Q235
25	Hexagon cylinder head screw M8X16	1	65Mn	53	KU760 flat key 5X5X16	2	45
26	Large spring	2	Q235	54	KU760 protective cover assembly	1	
27	Hexagon head bolt M8X35e	1	Q235	55	H355-1 swing arm	1	ADC12

Exploded view No.	Part name	Qty	Material	Exploded view No.	Part name	Qty	Material
58	Cross recessed pan head screw M5X30 with built-in washer and spring pad	4	Q235	74	Handle left cover	1	PA6-GF30
59	Deep groove ball bearing 6202	1		75	Cross recessed pan head self-tapping screw ST5X45	2	Q235
60	940 stator assembly	1		76	Cross recessed pan head self-tapping screw ST5X30	1	Q235
61	Cross recessed pan head self-tapping screw / pointed head ST5X75	2	Q235	77	Sheath (same as 988)	1	PVC
62	Baffle	1	PA6-GF30	78	Switch trigger	1	
63	940 stator assembly	1		79	Switch	1	
64	Deep groove ball bearing 6000	1		80	Handle right cover	1	PA6-GF30
65	Wool felt ring Φ11xΦ5.5x2	1	Wool felt	82	Cross recessed pan head self-tapping screw ST4X16	2	Q2135
66	Self-locking spring	1	65Mn	83	Cable clamp	1	PA6-GF30
67	Self-locking pin	1	Q235	84	Cable (two-core, 1.5 square millimeters)	1	Rubber thread
68	940 brush holder	2		85	Bearing housing O-ring Φ35xΦ38.5X2.5	1	Fluororubber
69	Flat washer Φ10xΦ4x0.5	2		86	Oil-resistant felt	1	
70	940 brush	2		87	Trigger spring	1	65Mn
71	940 brush holder spring	2		88	Type 1 non-metallic insert hexagon lock nut M5 (heightened)	2	Q235
72	940 rear cover	1	PA6-GF30	89	940 housing	1	Q235
73	Cross recessed pan head self-tapping screw / ST4X14	8	Q2135	90	KU760 inner pressure plate	1	Q235

***The number in the exploded image corresponding to no item in the BOM means no such accessorv exists in the whole machine**

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