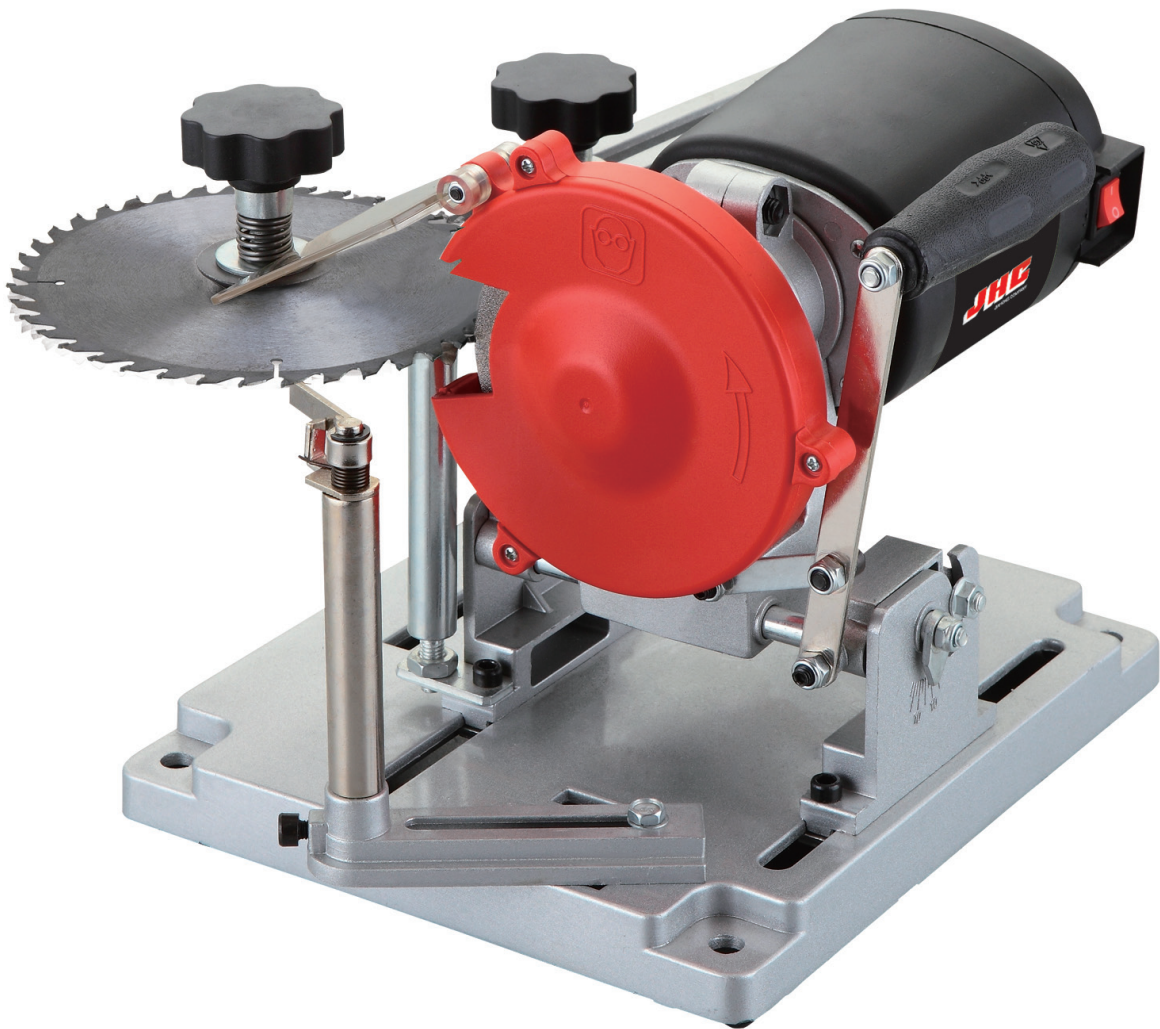


595948
ELECTRIC SAW BLADE
SHARPENER

TOOLEX[®]
Industrial



INSTRUCTION MANUAL




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1. SPECIFICATIONS

Model Number	595948
Volt/Frequency	240V/50Hz
Input Power	110W
Max. Speed	5300 RPM
Grind Stone diameter	4" (103mm)
Circular Saw Blade diameter	90-400mm
Net Weight	5.6 Kg

2. SYMBOLS

	Danger	Indicates an imminently hazardous situation which, if not avoided, will result in death.
	Warning	Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
	Caution	Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

	Warning
	Read the Instruction manual
	Wear eye protection, ear muffs and helmet

	Wear foot protection
	Wear gloves

3. SAFETY ADVICE



Warning! When using electric tools basic safety precautions should always be followed to reduce the risk of fire, electric shock and personal injury including the following.

Read all these instructions before attempting to operate this product and save these instructions for future reference.

- **Keep work areas clear**
Cluttered work areas and benches can put you in a situation where injuries occur.
- **Consider work area environment**
Do not expose tools to rain. Do not use tools in damp or wet locations. Keep work areas well lit. Do not use tools in the presence of flammable liquids or gases.
- **Guard against electric shock**
Avoid body contact with earthed or grounded surfaces (e.g. Pipes, radiators, ranges, refrigerators).
- **Work clear of other persons**
Do not let any person, especially children, get involved in the work you are performing, touch the tool or the extension cord. Keep them away from the work area.
- **Lock tools away when not in use**
When not in use, tools should be stored in a dry locked-up place, out of reach of children.
- **Do not force the tool**
It will do the job better and safer at the rate for which it was intended.
- **Use the right tool**
Do not force small tools to do the job of a heavy-duty tool. Do not use tools for purposes not intended; for example, do not use circular saws to cut tree limbs or logs.
- **Dress appropriately**
Do not wear loose clothing or jewellery; they can be caught in moving parts. Non-slip footwear is recommended when working outdoors. Wear protective hair covering to contain long hair.
- **Use safety glasses**
Use face or dust masks if working operations create dust.
- **Connect dust extraction equipment**
If the tool is provided for the connection of dust extraction and collecting equipment, ensure these are connected and properly used.
- **Do not abuse the power cord**
Never pull the power cord to disconnect the plug from the socket. Remove the power cord by gripping the outer edges of the plug. Keep the cord away from heat, oil and sharp edges.
- **Secure work**
Where possible use clamps or a vice to hold the work. It is safer than using your hand.
- **Do not overreach**
Keep proper footing and balance at all times.

- **Maintain tools with care**

Keep cutting tools sharp and clean for better and safer performance. Follow instructions for lubricating and changing accessories. Inspect tool power cords and plugs periodically and if damaged have them repaired by an authorised service facility. Inspect extension cords periodically and replace if damaged. Keep handles dry, clean and free from oil and grease.

- **Disconnect tools**

When not in use, before servicing and when changing accessories such as blades, bits and cutters, disconnect tools from the power supply.

- **Remove adjusting keys and wrenches**

Form the habit of checking to see that keys and adjusting wrenches are removed from the tool before turning on.

- **Avoid unintentional starting**

Ensure switch is in “off ” position when plugging in.

- **Use outdoor extension leads.**

When the tool is used outdoors, use only extension cords intended for outdoor use and so marked.

- **Stay alert**

Watch what you are doing, use common sense and do not operate the tool when you are tired or under the influence of Alcohol or Drugs.

- **Check damaged parts**

Before further use of tool, it should be carefully checked to determine that it would operate properly and perform its intended function. Check for alignment of moving parts, blinding of moving parts, breakage of parts, mounting and any other conditions that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced by an authorised service centre unless otherwise indicated in this instruction manual. Have defective switches replaced by an authorised service centre. Do not use the tool if the switch does not turn the tool on and off.

- **Warning!**

The use of any accessory or attachment other than those recommended in this instruction manual may present a risk of personal injury.

- **Have your tool repaired by a qualified person**

This electric tool complies with the relevant safety rules. Repairs should only be carried out by qualified persons using original spare parts; otherwise this may result in considerable danger to the user.



Switch off the machine immediately if any malfunction or defects, smoke or abnormal noise occurs.

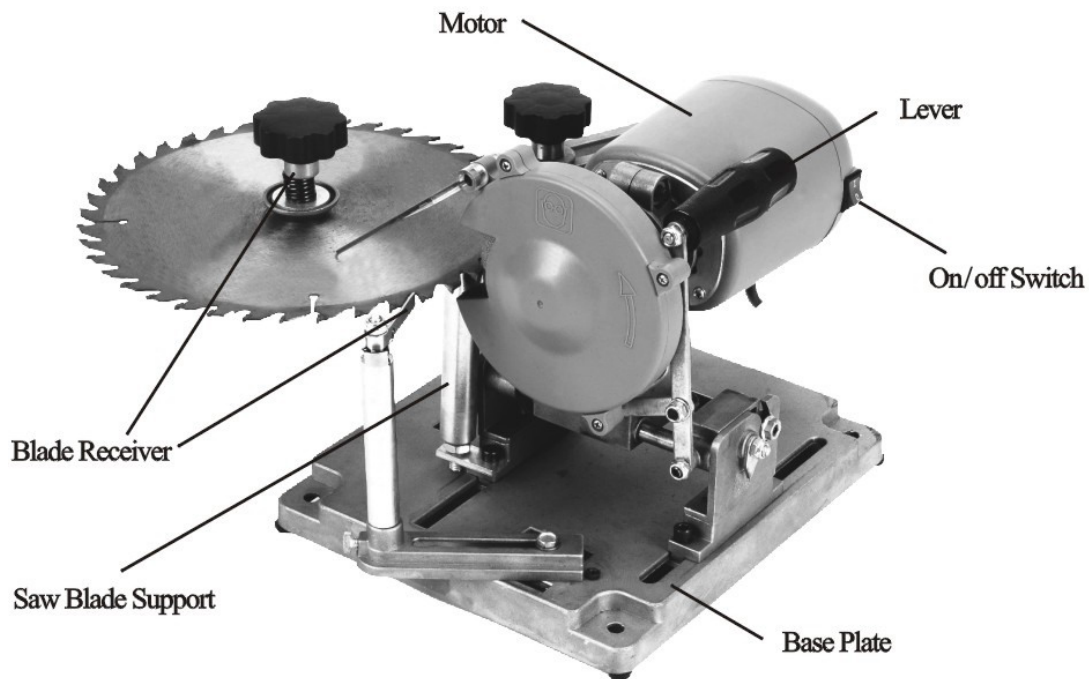


Caution! Always wear ear protectors during operation of machine.

4. INTENDED USE

This machine is designed for sharpening circular saw blades up to a diameter of 400mm. Do not use it or modify it for any other purpose. Repairs should only be carried out by an authorised service centre. To avoid accident and/or injury, only use original spare parts.

5. COMPONENTS



6. OPERATION

Please note: The voltage of the power source must correspond to the specification stamped on the rating plate affixed on the machine.

Ensure that the machine is switched off before connecting the plug to the socket to avoid unintentional starting of the machine. When setting the machine and before carrying out any work on the machine, always disconnect the plug from the socket!

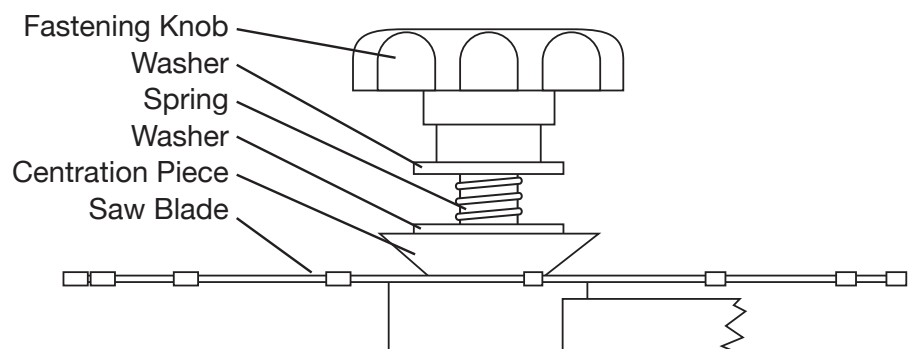
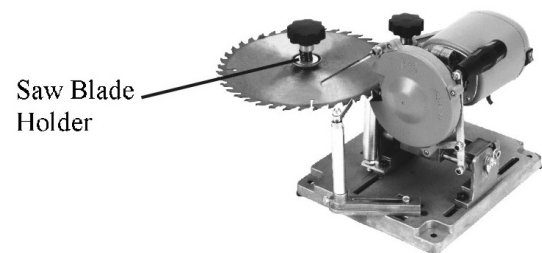
Important! Always disconnect the plug from the socket before changing the sandpaper or before carrying out any work on the machine.

Setting The Machine

Remove the knob, all washers, the spring and the centring piece from the saw blade holder.

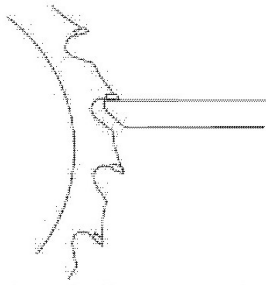
Put the saw blade (which needs to be sharpened) on the bolt and reassemble the parts in the order indicated on the picture below.

The saw blade shall only be centred but not tightly fixed. Screw down the fastening knob only as much as necessary for sufficient tension such that the saw blade can still be turned. Make sure that the centring piece is not slanted.

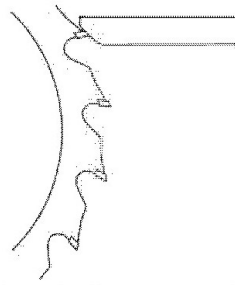


Adjustment of the Saw Blade

The position of the saw blade has to be adjusted in accordance to the grinding stone. Depending on whether you want to sharpen the tooth face or the tooth back, the saw blade must be adjusted as shown in the following drawings. The surface which is to be grinded must be parallel to the corresponding side of the grinding stone.



Position of the grinding stone when grinding the tooth face

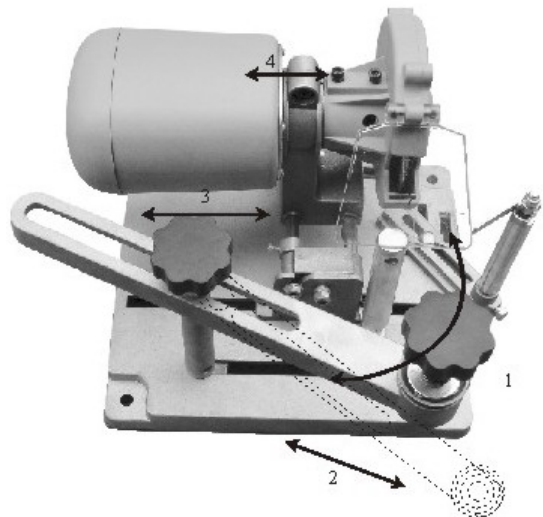


Position of the grinding stone when grinding the tooth back

According to the size of the saw blade you need to adjust the swivel arm of the saw blade holder and where necessary also the position of the motor block.

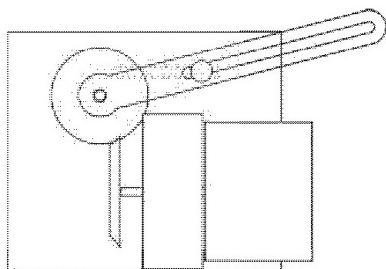
After loosening the pin nut, the arm can be pulled out (2) and turned (1). The mandrel, to which the arm is attached to, can also be moved within the slot of the base plate (3). Thereby a multitude of adjustments are possible for every diameter of saw blades in the range between 90mm to 400mm. The motor block can also be moved back and forth on the base plate (4), which is necessary for bigger blade diameters.

By means of these adjustment possibilities you can always bring your saw blade into the correct position to the grinding stone. During grinding, the stone will be moved back and forth by means of the operating lever. Therefore, the lever must be turned up when adjusting the correct position, so that the grinding stone can lock into the tooth bottom.

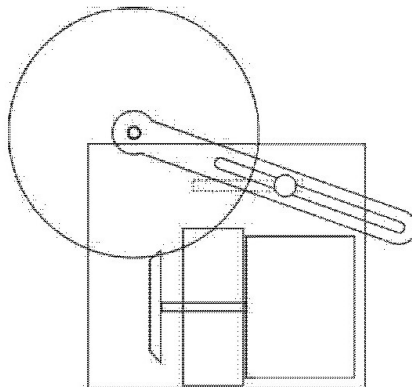


Adjustment Examples for Different Saw Blade Diameters

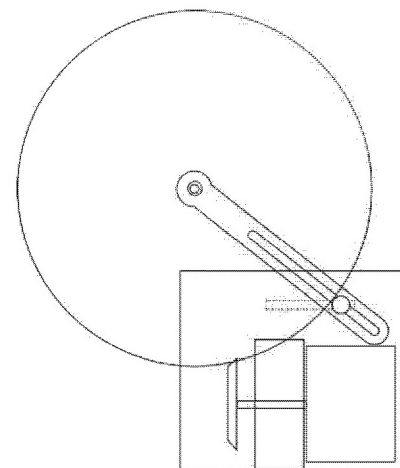
- (1) 90mm saw blade, motor moved backward
- (2) 230mm saw blade; motor must be moved forward in order to avoid any collision with the arm
- (3) 400mm saw blade; motor moved forward, arm must be adjusted in such a way, that the pin nut does not collide with the saw blade.



(1) 90mm blade diameter



(2) 230mm blade diameter

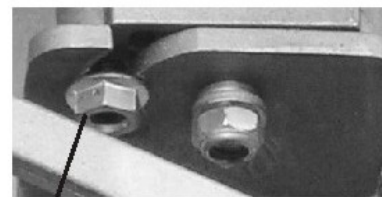


(3) 400mm blade diameter

Depth Gauge

After having adjusted the correct position of the arm, motor and saw blade, the depth gauge need to be adjusted as well.

To adjust the depth gauge, position the grinding stone into the tooth bottom, so that the tooth face can be completely sharpened, but the grinding stone does not touch the tooth bottom (there must be a space of some mm). Tighten the fastening screw of the depth gauge to fix the correct position.

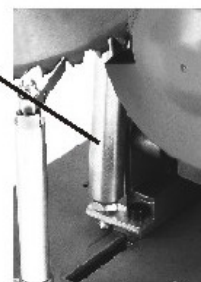


Depth Gauge

Saw Blade-Support

For a better stability and more accurate positioning it is necessary to place the saw blade-support as close as possible to the grinding stone, so that the saw blade can rest on it.

Saw Blade-Support

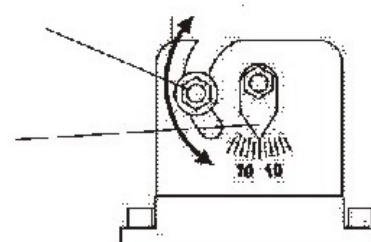


Saw Blades with Set Teeth

For saw blade with set teeth the motor can be tilted. Unscrew the fixing nuts on both sides of the motor retainer and adjust the desired angle. The motor retainer can be tilted up to ca. 25° in both directions. It might be possible that the desired angle cannot be adjusted as the motor touches the base plate for large angles. In this case turn the motor block by 180° within the collar of the motor holder (loosen the clamping screw on the neck of the motor).

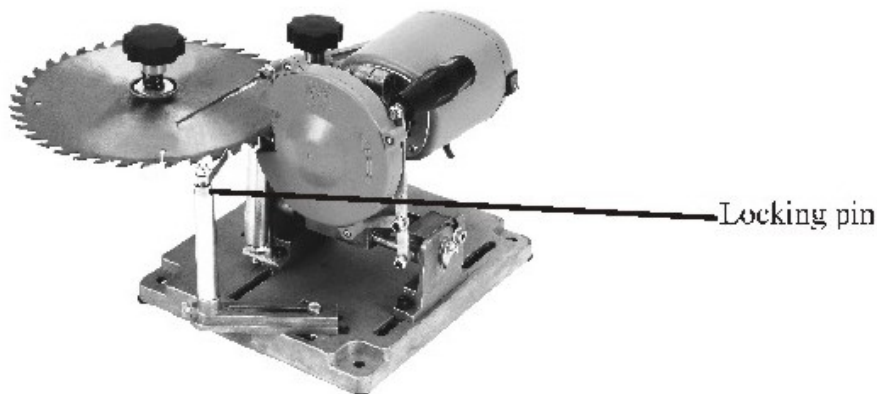
Fixing Nut

Angle Gauge



Sharpening of Circular Saw Blades

After all adjustments have been completed, position the locking pin in such a way, that it will put slight pressure on the saw blade (see drawing below).



Switch the machine on to start with the sharpening process and operate the lever to move the grinding stone towards the tooth until it has reached the adjusted depth gauge.

Pull back the grinding stone and catch (by operating the lever) and turn the saw blade to sharpen the next tooth. Repeat these steps until all teeth have been sharpened.

In case of set teeth, only grind every second tooth and then reverse the angle to grind the remaining teeth.

When grinding the tooth back adjust the grinding stone analogically according to the directions of the chapter *Adjustment of the Saw Blade*.

7. MAINTENANCE AND CLEANING

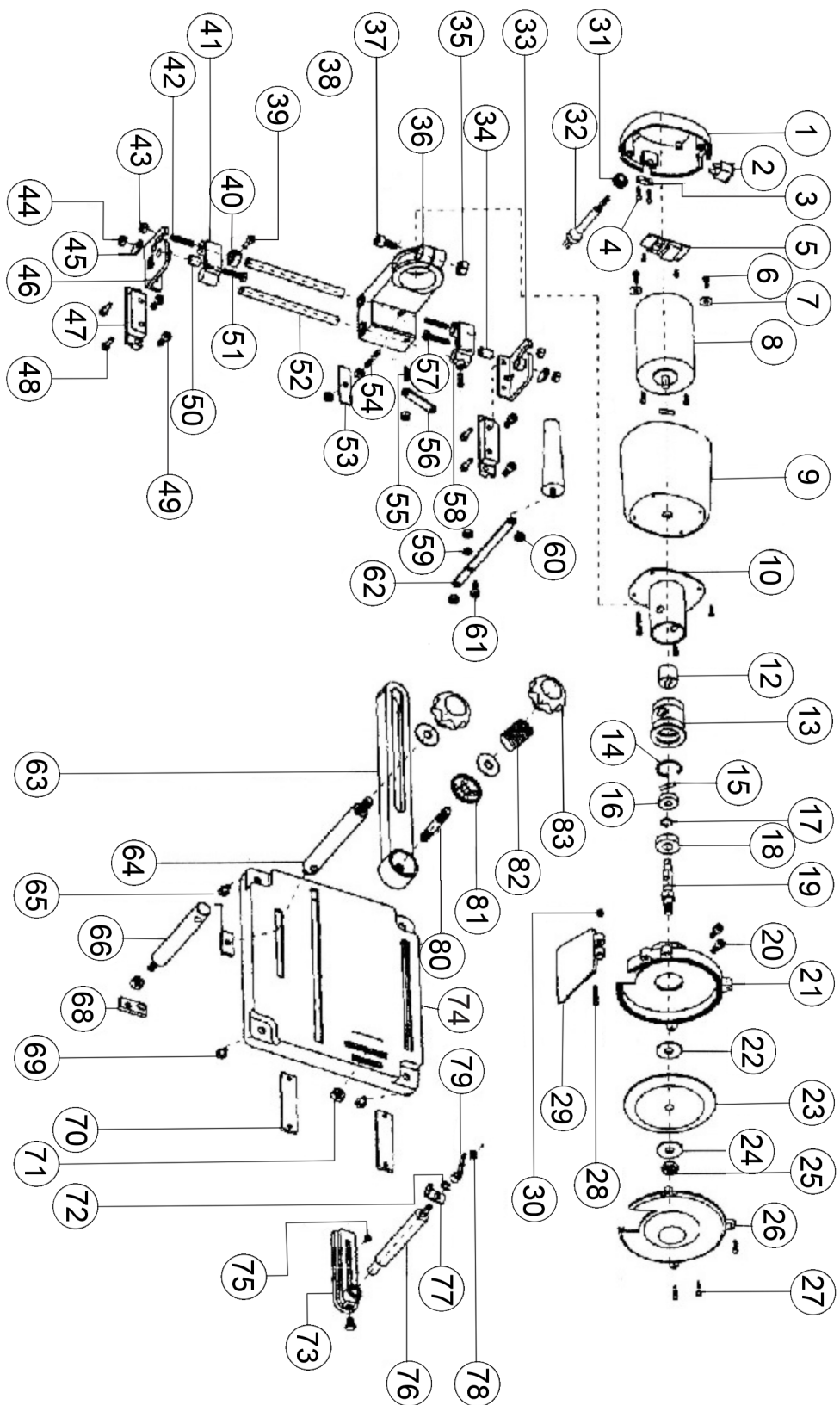
Important! Always disconnect the plug from the socket before carrying out any work on the machine.

Ensure that the machine is always clean and dry. To clean, use a dry or moist, But not wet, towel. Moving parts are to lubricate from time to time. Do not use any strong or inflammable cleaning agents such as benzine, thinner, turpentine or the like.

The motor is maintenance-free. Make sure that all ventilation slots are clean and left open to prevent the machine from overheating.

8. PARTS LIST

1	Motor Cover	42	Screw
2	Switch	43	Screw
3	Power Cord Support	44	Screw
4	Screw	45	Finger
5	Switch Circuit Board	46	Angle Guide Right
6	Screw	47	Guide Right
7	Washer	48	Screw
8	Motor	49	Screw
9	Motor Housing	50	Steel Bushing
10	Motor Neck	51	Screw
12	Connecting Piece	52	Front Guiding Bushing
13	Bearing Bushing	53	Adjust Base
14	Retaining Ring	54	Screw
15	Pin	55	Screw
16	Bearing	56	Pull Rod
17	Retaining Ring	57	Screw
18	Bearing	58	Left Guiding Bushing
19	Arbor	59	Washer
20	Screw	60	Side Handle
21	Protection Cover	61	Screw
22	Grinder Lock Cap	62	Handle
23	Grinding Disk	63	Swivel Arm
24	Grinding Wheel Base	64	Mandrel Swivel Arm
25	Screw	65	Washer
26	Disk Cover	66	Saw Blade Support
27	Screw	67	Screw
28	Screw	68	Washer
29	Protection Plate	69	Rubber Feet
30	Screw	70	Washer
31	Power Cord Protector	71	Screw
32	Power Cord	72	Retaining Ring
33	Angle Guide Left	73	Swivel Arm Saw Blade Catch
34	Steel Bushing	74	Base
35	Nut	75	Screw
36	Motor Retainer Complete	76	Mandrel Swivel Arm
37	Screw	77	Washer
38	Rear Guiding Rod	78	Ring
39	Screw	79	Blade Stop
40	Screw	80	Screw
41	Right Guiding Bushing	81	Pressure Bushing
		82	Spring
		83	Lock Nut



PLEASE READ THE FOLLOWING CAREFULLY

THE MANUFACTURE AND/OR DISTRIBUTOR HAS PROVIDED THE PARTS DIAGRAM IN THIS MANUAL AS A REFERENCE TOOL ONLY. NEITHER THE MANUFACTURER NOR DISTRIBUTOR MAKES ANY REPRESENTATION OR WARRANTY OF ANY KIND TO THE BUYER THAT HE OR SHE IS QUALIFIED TO MAKE ANY REPAIRS TO THE PRODUCT OR THAT HE OR SHE IS QUALIFIED TO REPLACE ANY PARTS OF THE PRODUCT. IN FACT, THE MANUFACTURER AND/OR DISTRIBUTOR EXPRESSLY STATES THAT ALL REPAIRS AND PARTS REPLACEMENTS SHOULD BE UNDERTAKEN BY CERTIFIED AND LICENSED TECHNICIANS AND NOT BY THE BUYER. THE BUYER ASSUMES ALL RISK AND LIABILITY ARISING OUT OF HIS OR HER REPAIRS TO THE ORIGINAL PRODUCT OR REPLACEMENT PARTS THERETO. OR ARISING OUT OF HIS OR HER INSTALLATION OF REPLACEMENT PARTS THERETO

NOTE: Some parts are listed and shown for illustration purposes only and are not available individually as replacement parts.

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