



YT-82197

ANGLE POLISHER

Handing Instruction



Read through carefully and understand these instruction before use.

SYMBOLS



To reduce the risk of injury. User must read instruction manual.



Double insulation



Warning!



Wear eye protection



Wear ear protection



Wear dust mask

GENERAL SAFETY RULES



WARNING! Read all instructions failure to follow all instructions listed below may result in electric shock, fire and/or serious injury. The term “power tool” in all of the warnings listed below refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

SAVE THESE INSTRUCTIONS

1. WORK AREA

- a) **Keep work area cleans and wells 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 who 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.

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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.

CUT-OFF MACHINE SAFETY WARNINGS

- **The guard provided with the tool must be securely attached to the power tool and positioned for maximum safety, so the least amount of wheel is exposed towards the operator. Position yourself and bystanders away from the plane of the rotating wheel.** The guard helps to protect operator from broken

wheel fragments and accidental contact with wheel.

- **Use only diamond cut-off wheels for your power tool.** Just because an accessory can be attached to your power tool, it does not assure safe operation.

- **The rated speed of the accessory must be at least equal to the maximum speed marked on the power tool.** Accessories running faster than their rated speed can break and fly apart.

- **Wheels must be used only for recommended applications. For example: do not grind with the side of cut-off wheel.** Abrasive cut-off wheels are intended for peripheral grinding, side forces applied to these wheels may cause them to shatter.

- **Always use undamaged wheel flanges that are of correct diameter for your selected wheel.** Proper wheel flanges support the wheel thus reducing the possibility of wheel breakage.

- **The outside diameter and the thickness of your accessory must be within the capacity rating of your power tool.** Incorrectly sized accessories cannot be adequately guarded or controlled.

- **The arbour size of wheels and flanges must properly fit the spindle of the power tool.** Wheels and flanges with arbour holes that do not match the mounting hardware of the power tool will run out of balance, vibrate excessively and may cause loss of control.

- **Do not use damaged wheels. Before each use, inspect the wheels for chips and cracks. If power tool or wheel is dropped, inspect for damage or install an undamaged wheel. After inspecting and installing the wheel, position yourself and bystanders away from the plane of the rotating wheel and run the power tool at maximum no load speed for one minute.** Damaged wheels will normally break apart during this test time.

- **Wear personal protective equipment. Depending on application, use face shield, safety goggles or safety glasses. As appropriate, wear dust mask, hearing protectors, gloves and workshop apron capable of stopping small abrasive or workpiece fragments.** The eye protection must be capable of stopping flying debris generated by various operations. The dust mask or respirator must be capable of filtering particles generated by your operation. Prolonged exposure to high intensity noise may cause hearing loss.

- **Keep bystanders a safe distance away from work area. Anyone entering the work area must wear personal protective equipment.** Fragments of workpiece or of a broken accessory may fly away and cause injury beyond immediate area of operation.

- **Hold the power tool by insulated gripping surfaces only, 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.

- **Position the cord clear of the spinning accessory.** If you lose control, the cord may be cut or snagged and your hand or arm may be pulled into the spinning wheel.

- **Never lay the power tool down until the accessory has come to a complete stop.** The spinning wheel may grab the surface and pull the power tool out of your control.

- **Do not run the power tool while carrying it at your side.** Accidental contact with the spinning accessory could snag your clothing, pulling the accessory into your body.

- **Regularly clean the power tool's air vents.** The motor's fan will draw the dust inside the housing and excessive accumulation of powdered metal may cause electrical hazards.

- **Do not operate the power tool near flammable materials.** Sparks could ignite these materials.

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• **Do not use accessories that require liquid coolants.** Using water or other liquid coolants may result in electrocution or shock.

KICKBACK AND RELATED WARNINGS

• Kickback is a sudden reaction to a pinched or snagged rotating wheel. Pinching or snagging causes rapid stalling of the rotating wheel which in turn causes the uncontrolled power tool to be forced in the direction opposite of the wheel's rotation at the point of the binding. For example, if an abrasive wheel is snagged or pinched by the workpiece, the edge of the wheel that is entering into the pinch point can dig into the surface of the material causing the wheel to climb out or kick out. The wheel may either jump toward or away from the operator, depending on direction of the wheels movement at the point of pinching. Abrasive wheels may also break under these conditions. Kickback is the result of power tool misuse and/or incorrect operating procedures or conditions and can be avoided by taking proper precautions as given below.

• **Maintain a firm grip on the power tool and position your body and arm to allow you to resist kickback forces. Always use auxiliary handle, if provided, for maximum control over kickback or torque reaction during start-up.** The operator can control torque reactions or kickback forces, if proper precautions are taken.

• **Never place your hand near the rotating accessory.** Accessory may kickback over your hand.

• **Do not position your body in line with the rotating wheel.** Kickback will propel the tool in direction opposite to the wheel's movement at the point of snagging.

• **Use special care when working corners, sharp edges, etc. Avoid bouncing and snagging the accessory.** Corners, sharp edges or bouncing have a tendency to snag the rotating accessory and cause loss of control or kickback.

• **Do not attach a saw chain, woodcarving blade, segmented diamond wheel with a peripheral gap greater than 10 mm**

or toothed saw blade. Such blades create frequent kickback and loss of control.

• **Do not "jam" the wheel or apply excessive pressure. Do not attempt to make an excessive depth of cut.** Overstressing the wheel increases the loading and susceptibility to twisting or binding of the wheel in the cut and the possibility of kickback or wheel breakage.

• **When wheel is binding or when interrupting a cut for any reason, switch off the power tool and hold the power tool motionless until the wheel comes to a complete stop. Never attempt to remove the wheel from the cut while the wheel is in motion otherwise kickback may occur.** Investigate and take corrective action to eliminate the cause of wheel binding.

• **Do not restart the cutting operation in the workpiece. Let the wheel reach full speed and carefully re-enter the cut.** The wheel may bind, walk up or kickback if the power tool is restarted in the workpiece.

• **Support panels or any oversized workpiece to minimize the risk of wheel pinching and kickback.** Large work-pieces tend to sag under their own weight. Supports must be placed under the workpiece near the line of cut and near the edge of the workpiece on both sides of the wheel.

• **Use extra caution when making a "pocket cut" into existing walls or other blind areas.** The protruding wheel may cut gas or water pipes, electrical wiring or objects that can cause kickback.

SAFETY WARNINGS FOR POLISHERS

Safety warnings common for sanding with sanding discs, working with wire brushes and polishing

• **This power tool is intended to function as a sander, wire brush and polisher. Read all safety warnings, instructions, illustrations and specifications provided with this power tool.** Failure to follow all instructions listed below may result in electric shock, fire and

or serious injury.

- **Operations such as grinding or cutting-off are not recommended to be performed with this power tool.** Operations for which the power tool was not designed may create a hazard and cause personal injury.

- **Do not use accessories which are not specifically designed and recommended by the tool manufacturer.** Just because the accessory can be attached to your power tool, it does not assure safe operation.

- **The rated speed of the accessory must be at least equal to the maximum speed marked on the power tool.** Accessories running faster than their rated speed can break and fly apart.

- **The outside diameter and the thickness of your accessory must be within the capacity rating of your power tool.** Incorrectly sized accessories cannot be adequately guarded or controlled.

- **The arbor size of wheels, flanges, backing pads or any other accessory must properly fit the spindle of the power tool.** Accessories with arbor holes that do not match the mounting hardware of the power tool will run out of balance, vibrate excessively and may cause loss of control.

- **Do not use a damaged accessory. Before each use inspect the accessory such as abrasive wheels for chips and cracks, backing pad for cracks, tear or excess wear, wire brush for loose or cracked wires. If power tool or accessory is dropped, inspect for damage or install an undamaged accessory. After inspecting and installing an accessory, position yourself and bystanders away from the plane of the rotating accessory and run the power tool at maximum no-load speed for one minute. Damaged accessories will normally break apart during this test time.**

- **Wear personal protective equipment. Depending on application, use face shield, safety goggles or safety glasses.**

As appropriate, wear dust mask, hearing protectors, gloves and workshop apron capable of stopping small abrasive or workpiece fragments. The eye protection must be capable of stopping flying debris generated by various operations. The dust mask or respirator must be capable of filtering particles generated by your operation. Prolonged exposure to high intensity noise may cause hearing loss.

- **Keep bystanders a safe distance away from work area. Anyone entering the work area must wear personal protective equipment.** Fragments of workpiece or of a broken accessory may fly away and cause injury beyond immediate area of operation.

- **Hold power tool by insulated gripping surfaces only, 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 shock the operator.

- **Position the cord clear of the spinning accessory.** If you lose control of the power tool, the cord may be cut or snagged and your hand or arm may be pulled into the spinning accessory.

- **Never lay the power tool down until the accessory has come to a complete stop.** The spinning accessory may grab the surface and pull the power tool out of your control.

- **Do not run the power tool while carrying it at your side.** Accidental contact with the spinning accessory could snag your clothing, pulling the accessory into your body.

- **Regularly clean the power tool's air vents.** The motor's fan will draw the dust inside the housing and excessive accumulation of powdered metal may cause electrical hazards.

- **Do not operate the power tool near flammable materials.** Sparks could ignite these materials.

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For example, if an abrasive wheel is snagged or pinched by the workpiece, the edge of the wheel that is entering into the pinch point can dig into the surface of the material causing the wheel to climb out or kick out. The wheel may either jump toward or away from the operator, depending on direction of the wheel's movement at the point of pinching. Abrasive wheels may also break under these conditions.

Kickback is the result of power tool misuse and/or incorrect operating procedures or conditions and can be avoided by taking proper precautions as given below.

- **Maintain a firm grip on the power tool and position your body and arm to allow you to resist kickback forces. Always use auxiliary handle, if provided, for maximum control over kickback or torque reaction during start-up.** The operator can control torque reactions or kickback forces, if proper precautions are taken.

- **Never place your hand near the rotating accessory.** Accessory may kickback over your hand.

- **Do not position your body in the area where power tool will move if kickback occurs.** Kickback will propel the tool in direction opposite to the wheel's movement at the point of snagging.

- **Use special care when working corners, sharp edges, etc. Avoid bouncing and snagging the accessory.** Corners, sharp edges or bouncing have a tendency to snag the rotating accessory and cause loss of control or kickback.

- **Do not attach a saw chain woodcarving blade or toothed saw blade.** Such blades

create frequent kickback and loss of control over the power tool.

SAFETY WARNINGS SPECIFIC FOR SANDING OPERATIONS

- **Do not use excessively oversized sanding disc paper. Follow manufacturers recommendations, when selecting sanding paper.** Larger sanding paper extending beyond the sanding pad presents a laceration hazard and may cause snagging, tearing of the disc, or kickback.

SAFETY WARNINGS SPECIFIC FOR POLISHING OPERATIONS

- **Do not allow any loose portion of the polishing bonnet or its attachment strings to spin freely. Tuck away or trim any loose attachment strings.** Loose and spinning attachment strings can entangle your fingers or snag on the workpiece.

SAFETY WARNINGS SPECIFIC FOR WIRE BRUSHING OPERATIONS

- **Be aware that wire bristles are thrown by the brush even during ordinary operation. Do not overstress the wires by applying excessive load to the brush.** The wire bristles can easily penetrate light clothing and/or skin.

- **If the use of a guard is recommended for wire brushing, do not allow any interference of the wire wheel or brush with the guard.** Wire wheel or brush may expand in diameter due to work load and centrifugal forces.

PACKAGE CONTENTS

The package contains:

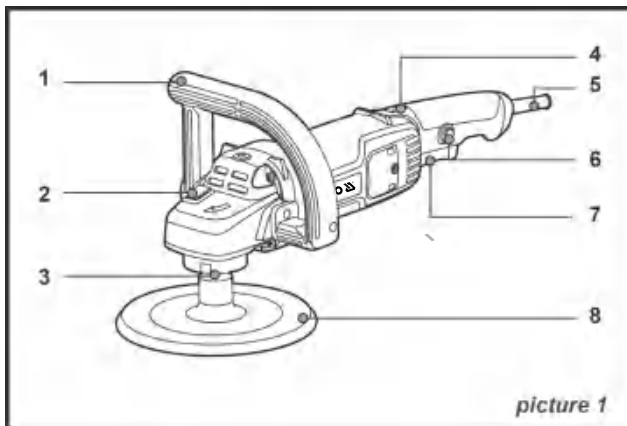
Angle polisher	1
Bow handle	1
Polishing plate	1
Sand paper	1
Wool pad	1
Allen key	1
Carbon brush	1
Instruction manual	1

Check for damage to the tool, parts or accessories which may have occurred during transport.

Take the time to thoroughly read and understand this manual prior to operation.

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DESCRIPTION



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1. Bow handle

2. Spindle lock button

3. Grinder spindle

4. Thumbwheel for speed preselection

5. Power cord

6. Lock-on button for ON/ OFF switch

7. ON/OFF Switch

8. Polishing plate

TECHNICAL DATA

Number: YT-82197

Rated voltage: 220-240V~50-60Hz

Rated power: 1400W

No-load speed: 1500-3800rpm

Diameter: 180mm

ELECTRICAL SAFETY

The electric motor has been designed for one voltage only. Always check that the power supply corresponds to the voltage on the rating plate.

ASSEMBLY AND ADJUSTMENT



NOTE: Before using the tool, read the instruction book carefully. Prior to assembly and adjustment always unplug the tool.



Prior to assembly and adjustment always unplug the tool.

MOUNTING THE PROTECTIVE DEVICES

- Before any work on the machine itself, pull the mains plug.
- Operate your machine only with the bow handle.

BOW HANDLE



Fasten the bow handle to the gear case as shown in the picture 2.

MOUNTING THE GRINDING TOOLS

- Before any work on the machine itself, pull the mains plug.
- Clean the grinder spindle and all parts to be mounted.
- For clamping and loosening the grinding tools, lock the grinder spindle with the spindle lock button.
- Actuate the spindle lock button only when the grinder spindle is at a standstill. Otherwise, the machine may become damaged.

Polishing Plate



- Mount polishing plate onto the spindle and screw on
- Pull the lamb's wool bonnet over the polishing plate and tighten the attachment strings.
- Mount polishing plate onto the spindle and screw on
- Firmly press the sanding sheet onto the bottom side of the polishing plate.

Cup Brush/Disc Brush

- The cup brush/disc brush must be able to be screwed onto the grinder spindle..

Dust/Chip Extraction

- Dusts from materials such as lead-containing coatings, some wood types, minerals and metal can be harmful to one's health. Touching or breathing-in the dusts can cause allergic reactions and/or lead to respiratory infections of the user or bystanders. Certain dusts, such as oak or beech dust, are considered as carcinogenic, especially in connection with wood-treatment additives (chromate, wood preservative). Materials containing asbestos may only be worked by specialists.

--- Provide for good ventilation of the working place.

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--- It is recommended to wear a P2 filter-class respirator.

- Observe the relevant regulations in your country for the materials to be worked.

• **Prevent dust accumulation at the workplace.** Dusts can easily ignite.

INSTRUCTIONS FOR USE



Always observe the safety instructions and applicable regulations.

- **Observe correct mains voltage! The voltage of the power source must agree with the voltage specified on the nameplate of the machine.** When operating the machine with power from mobile generators that do not have sufficient reserve capacity or are not equipped with suitable voltage control with starting current amplification loss of performance or untypical behavior can occur upon switching on.
- Please observe the suitability of the power generator being used, particularly with regard to the mains voltage and frequency.

SWITCHING ON AND OFF

- press the lock-on button
- To switch off the machine, release the On/Off switch or when it is locked with the lock-on button, briefly press the On/Off switch and then release it.

• **Check grinding tools before using. The grinding tool must be mounted properly and be able to move freely. Carry out a test run for at least one minute with no load.**

Do not use damaged, out-of-centre or vibrating grinding tools. Damaged grinding tools can burst and cause injuries.

SPEED PRESELECTION

- The required speed can be preselected with the thumbwheel (also while running).
- The required speed depends on the material and the working conditions and can be determined

through practical testing.

CONSTANT ELECTRONIC CONTROL

- Constant electronic control holds the speed constant at no-load and under load, and ensures uniform working performance.

WORKING ADVICE

• **Clamp the workpiece if it does not remain stationary due to its own weight.**

• **Do not strain the machine so heavily that it comes to a standstill.**

• **After heavily straining the power tool, continue to run it at no-load for several minutes to cool down the accessory.**

- For sanding applications on soft materials, e. g., gypsum or paint, it is recommended to use the rubber sanding plate with sanding sheet. Cup brushes and wheel brushes are suitable for rust removal.

POLISHING

- For the polishing of weathered paint or buffing out scratches (e.g., acrylic glass), the machine can be equipped with appropriate polishing accessories such as lamb's wool bonnet, polishing felt or sponge (accessories).
- Select a low speed for polishing (stage 1 – 2) in order to avoid excessive heating of the surface. Apply the polish onto a somewhat smaller surface than you intend to polish. Work the polishing agent in with a suitable polishing tool applying it crosswise or with circular motion and moderate pressure.
- Do not allow the polishing agent to dry out on the surface, otherwise the surface can become damaged. Do not subject the surface to be polished to direct sunlight.
- Clean the polishing accessories regularly to ensure good polishing results. Wash out polishing accessories with a mild detergent and warm water; do not use paint thinner.

MAINTENANCE

Your power tool has been designed to operate over a long period of time with a minimum of maintenance. Continuous satisfactory operation depends upon proper tool care and regular cleaning.

LUBRICATION

Your power tool requires no additional lubrication.

CLEANING

Keep the ventilation slots clear and regularly clean the housing with a soft cloth.

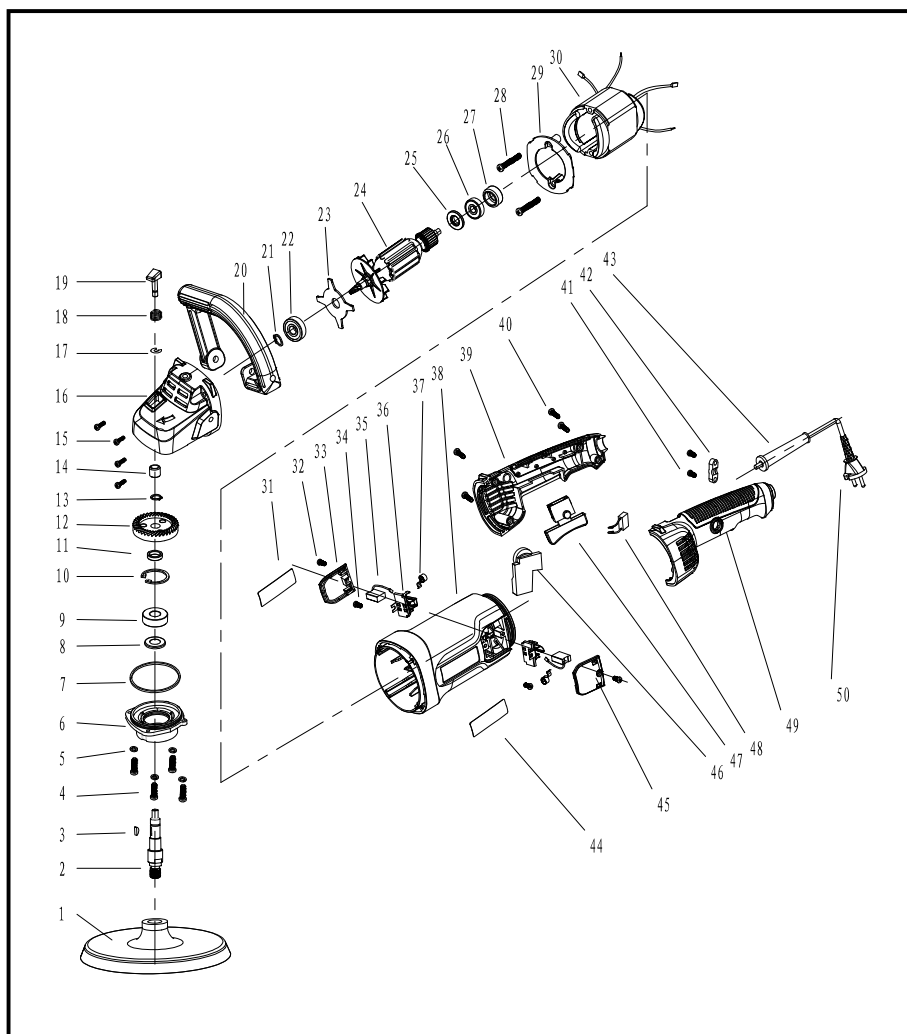


UNWANTED TOOLS AND THE ENVIRONMENT

Take your tool to an authorized repair agent where it will be disposed of in an environmentally safe way.

EXPLODING VIEW

YT-82197



EXPLODING LIST

YT-82197

No.	NAME	Qty	No.	Part No.	Number
1	Polisher bonnt	1	26	608 Bearing	1
2	Main Spindle	1	27	Bearing Sheath	1
3	Woodruff Key 4×13	4	28	Cross Screw ST4×80	2
4	Screw M4×16	4	29	Wind Screen	1
5	Spring Washer 4	1	30	Stator	1
6	Bearing Block	1	31	Nameplate	1
7	Seal ring	1	32	Cross Screw ST4×14	2
8	Dustproof Cover	1	33	Right Brush Cover	1
9	6202 Bearing	1	34	Cross Screw ST4×12	2
10	Check Ring 35	1	35	Carbon Brush	2
11	Steel Pipe	1	36	Brush Holder	2
12	Large Bevel Gear	1	37	Spring	2
13	Check Ring 14	1	38	Housing	1
14	Bearing 8×14×10	4	39	Right Handle	1
15	Cross Screw ST4×30	1	40	Cross Screw ST4×16	4
16	Reduction Gear Box	1	41	Cross Screw ST4×14	2
17	Check Ring 6	1	42	Cable Clip	1
18	Spring	1	43	Cable Potector	1
19	Lock Pin	1	44	Brand	1
20	D hook handle	1	45	Left Brush Cover	1
21	Check Ring 12	1	46	Variable Speed Switch	1
22	6201 Bearing	1	47	Switch	1
23	Press Plate of Bearing	1	48	Capacitor	1
24	Rotor	1	49	Left Handle	1
25	Dustproof Cover	1	50	Power cord	1

