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SAFETY RULES
MODEL KD-400
ELECTRIC SHEAR



The KD-400 has a
DOUBLE INSULATED
power unit equipped with a
2 wire cord and
2 prong plug

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 and/or serious injury.*

Save all warnings and instructions for future reference.

The term "power tool" in the warnings refers 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 or 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 tool in a damp location is unavoidable, use a residential 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 and/or battery pack.** *Carrying tools with your finger on the switch or energising 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 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, jewelry 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 dust collection 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 and/or the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools.** *Such preventive 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 those 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.*
- b) **For KD-400 and all double insulated tools:** *When servicing, use only identical replacement parts.*

SYMBOLS

The symbol on the Caution Label is mean to convey this message. Ne pas exposer a la pluie et ne pas utiliser dans les emplacements humides. Don't use power tools in damp or wet locations.



Definitions of Symbols

Class II Construction
(Double insulated motor) =



Underwriters Laboratory =



n_0 = No load speed

/min = Revolutions per minute

AC = Alternating current



Hz = Hertz

A = Amperes

V=Volts

Motor

Be sure your power supply agrees with nameplate marking. Use Alternating Current Only (50 to 60 Cycles), 120 volts. Voltage variation of more than 10% will cause loss of power and overheating. Motors are factory tested. If this shear does not operate, check the following: supply line for blown fuses; plug and receptacle for contact. This tool will stop when the brushes wear to a preset length. Damage to the motor is thus avoided.

FUNCTIONAL DESCRIPTION

Please read carefully all safety rules and operating instructions. The Model KD-400 Shear is recommended for CR sheet steel up to 18 gage. Secure work piece. To start cut, place side knives of shear slightly on the edge of the top side of the work piece to steady the tool and ready it for the cut. Depress the trigger switch and guide shear into the work. Do not force it. Avoid double thicknesses of material which exceed the 18 gage recommended capacity. For cutting within perimeter of work piece, drill a 1/2" diameter starting hole and follow instructions above. If resistance to tool develops or cutting becomes difficult, discontinue cutting and check the following: lubrication; thickness of material; sharpness of cutting blades.

OPERATION

Avoid Accidental Starting

Don't carry plugged-in tool with finger on switch. Be sure switch is OFF when plugging in. Use of any accessory with this power unit might increase the hazard. The tool should be used only for the purpose for which it is designed.

Plug

THE POLARIZED PLUG IS A SAFETY FEATURE. This tool is equipped with a polarized two wire AC line plug. The two wire polarized plug (having one blade wider than the other) will fit into the power outlet only one way. DO NOT DEFEAT THE SAFETY PURPOSE OF THE POLARIZED PLUG, by tampering with it. If the plug does not fit you should still be unable to fully insert the plug into the socket, you may find that a proper outlet is needed to meet today's electrical standards. An electrician will replace your outlet safely.

Extension Cords

Always check the extension cord and repair or replace if damaged.

Outdoor Use Extension Cords

When tool is used outdoors, use only extension cords marked W-A or W.

Stay Alert

Watch what you are doing, use common sense when operating a power tool. Do not use tool while tired or under the influence of drugs, alcohol or medication.

Check Damaged Parts

Before further use of the tool, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment if moving parts, binding or 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 authorized service center unless otherwise indicated elsewhere in this instruction manual. Have defective switches replaced by authorized service center. Do not use tool if switch does not turn it on or off.

DO NOT OPERATE power tools in explosive atmospheres such as in the presence of flammable liquids, gases, or dust. Motors in these tools normally spark and sparks can possibly ignite fumes.

Read all instruction.

Save these instructions.

MAINTENANCE

When servicing, use only identical replacement parts. Tool may be cleaned and lubricated by the user, but any other servicing, including the changing of carbon brushes, should be performed by the manufacturer or any authorized representative or service station.

Cable

The cable or cord is the "life line" of your tool. Keep it clean by wiping it off occasionally. Keep it out of oils and greases. Coil it neatly when not in use and avoid dragging it across sharp surfaces or using it as a handle to lift the tool.

When using the tool at a considerable distance from power source, an extension cable of adequate size must be used to prevent loss of power and overheating.

For extension cables up to 75 feet use number 18; for 100 feet use number 16; and for up to 200 feet use number 14 wire gage. If you are working with a 230 volt tool, cable lengths may be doubled using the same wire gage sizes as prescribed above for the 120 volt tool.

Lubrication

Always disconnect KD-400 Electric Shear from power source before lubricating.

Once every three months, depending upon usage, remove the shear Head from the power unit following the instructions given on the service sheet under the heading "Disassembly-To remove the shear head assembly (60-20) from the drive motor." Put a few drops of heavy oil on the Eccentric Bearing Assembly (60-24), so that it saturates the needle bearing (60-24- 2). Grease is even better if it can be forced or pressed into the needle bearing rollers. The outside surface of the Eccentric Bearing Ring (60-24-3) should also be greased.

Tools that have seen continuous use should also have the gear train lubricated periodically, preferably at the same time the eccentric bearing assembly is serviced. To lubricate the gears remove the screws that hold the gear case to the motor shell. Remove the gear case from the cover plate and wipe out the old grease with a cloth. Wash the gears and spindles with kerosene or cleaning fluid. Refill the gear case ONLY 1/3 FULL with a good standard gear grease. Never fill more than 1/3. The Ball bearing in the gear case is a closed type bearing. It has been permanently lubricated at the factory to last the life of the bearing. This bearing should NEVER be immersed in a solvent or cleaning fluid.

Adherence to these maintenance instructions will greatly increase the life of your Model KD-400 Electric Shear, so it will give you long and satisfactory service.



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