

### 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 over-heating.

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.



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### Lubrication

#### **Always disconnect 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 (93-20, 92-20, 95-20, 94-20) from the drive motor." Put a few drops of heavy oil on the Eccentric Bearing Assembly (41-24), so that it saturates the needle bearing (41-24- 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 (41-24-3) 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 Electric Shear, so it will give you long and satisfactory service.

# SAFETY RULES

## ELECTRIC SHEAR

### MODELS USING

- 93-20 STEEL (KD-1493)
- 95-20 STEEL (KD-1495)
- 92-20 ALUMINUM
- 94-20 ALUMINUM

### SHEAR HEADS



These shears have a  
DOUBLE INSULATED  
power unit equipped with a  
2 wire cord and  
2 prong plug

## Important Safety Instructions

### 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 instructions.  
Save these instructions.*

### For all double insulated tools:

When servicing, use only identical replacement parts.

### FOR ALL TOOLS:

#### Keep Work Area Clean

Cluttered areas and benches invite accidents. Keep work area well lit.

**Avoid Dangerous Environment** Don't expose power tools to rain or snow. Don't use power tools in damp or wet locations.



The symbol on the Caution Label is meant to convey this message. Ne pas exposer a la pluie et ne pas utiliser dans les emplacements humides.

#### Guard Against Electric Shock

Prevent body contact with grounded surfaces, for example: pipes, radiators, ranges, refrigerator enclosures.

#### Keep Children Away

Do not let visitors contact tool or extension cord. All visitors should be kept away from work area.

#### Store Idle Tools

When not in use, tools should be stored in dry, high or locked-up place out of reach of children.

#### Don't Force Tool

It will do the job better and safer at the rate for which it was designed.

### Use Right Tool

Don't force a small tool to do the job of a heavy duty tool. Don't use tool for on purpose not intended, for example-don't use a circular saw for cutting so tree limbs or logs.

### Dress Properly

Do not wear loose clothing or jewelry. They can be caught in moving parts. Rubber gloves and footwear are recommended when working out doors. Wear protective hair covering to contain long hair.

### Use Safety Glasses

Use safety glasses with most tools. Also face or dust mask, if cutting operation is dusty.

### Don't Abuse Cord

Never carry tool by cord or yank it to disconnect from receptacle. Keep cord from heat, oil, and sharp edges.

### Secure Work

Use clamps or vise to hold work. It's safer than using your hand and it frees both hands to operate tool.

### Don't Overreach.

Keep proper footing and balance at all times.

### Maintain Tools with Care

Keep tools sharp and clean for best and safest performance. Follow instructions for lubricating and changing center blades and side knives. Inspect tool cords periodically and if damaged, have repaired by authorized service facility. Inspect extension cords periodically and if damaged or replace. Keep handles dry, clean, and be free from oil and grease.

### Disconnect Tools

When not in use; before servicing; when changing Center Blades, Side Knives, Brushes, etc.

### Remove Adjusting keys and Wrenches

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

### 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 intended for use outdoors, and so marked.

### Stay Alert

Watch what you are doing, use common sense. Do not operate tool when you are tired.

### 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** this tool or any

portable electric tool in gaseous or explosive atmospheres. Motors in these tools normally spark and sparks can possibly ignite fumes.

*Read all instruction.  
Save these instructions.*

### Operating Instructions

Please read carefully all safety rules and operating instructions. These shears are recommended for cement board material. 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. KEEP SIDE KNIVES (92-22) FLAT AGAINST MATERIAL. DO NOT raise the back of tool while cutting. If resistance to tool develops or cutting becomes difficult, discontinue cutting and check the following: lubrication; thickness of material; sharpness of cutting blades. KEEP ALL THREE CAP SCREWS (40-28) TIGHT (TORQUE TO 40 INCH POUNDS).

### Motor

Be sure your power supply agrees with name-plate 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.