

efficient cutting speed rather than to hold back and permit the blade to "dwell" in the cut. Shut off the power the moment the saw has completed the cut through the sheet. If the cut is to be ended within the boundary of the sheet, bring the saw up to the end of the cut, hold firmly, shut off the power and let it coast to a full stop. Then lift the saw from the cut. **NEVER BACK UP THE SAW IN THE CUT WITH THE POWER ON AND THE BLADE IN MOTION,** This is the most frequent cause of broken blades and can result in more serious damage to the tool.

For plunge cutting, that is, starting a cut within the perimeter of boundaries of a sheet, see the explicitly detailed instructions in the operation and service manual.

Where conditions permit, blade life can be extended and cutting efficiency improved through the use of a lubricant such as grease, stick wax or tallo, or even a cutting oil. It is recommended to practice cutting with a KETT Saw on scrap material until a knack of using the tool is acquired.

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.

Lubrication

Always disconnect Electric Saw from power source before lubricating.

Motors are packed with lubricant to give 300 hours service. At the end of this period the gear grease and the armature bearings should be checked and lubricant added if necessary.

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 spindle with a cleaning fluid, but **DO NOT WASH THE BEARING.** Refill the gear case **ONLY HALF FULL** with a good standard gear grease. Never fill more than half. Bearings should never be immersed in a solvent or cleaning fluid.

A light compact unit such as the KETT Saw necessarily has small gears and shafts. Extremely rugged for its size, the KETT Saw is more than adequate for normal use. However, as with all fine tools, care is essential for long life and best performance.

The saw spindle and gears should be lubricated after every 25 to 30 hours use. Inject a light cup of grease into the grease opening covered by screw plug 181-2 in the bottom of the geared right angle transmission head. Tubes of grease are available from stock. Specify 264-1 two ounce tube Non-Fluid Oil.

Adherence to these maintenance instructions will greatly increase the life of your Electric Saw, so it will give you long and satisfactory service.



SAFETY RULES

Panel Cutting Saws with Double Insulated Power Unit



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

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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.

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.

*Read all instruction.
Save these instructions.*

Operating Instructions

Please read carefully all safety rules and operating instructions. KETT saws are recommended for CR sheet steel up to 16 gage. To cut heavier gauge steel invites blade mortality and damage to the motor by overtaxing the tool. Secure work piece. Grasp the tool with both hands, one around the handle where the trigger switch is located, the other around the neck or sleeve which holds the cutting head in position. Before starting the motor place the shoe of the tool at the edge of the material to be cut. Make certain the saw guard is set to depress to the desired depth. Be sure the shoe is flat, level and ready to make full contact with the surface to be cut. The scribed line to be cut should appear in the vee type gun sight on the saw guard. Squeeze the trigger and set the blade in motion. Slowly push the saw forward until the blade makes contact and starts to cut. Gradually increase pressure until blade is cutting at full capacity at a uniform speed without the feel of being forced or slowing to a stall. Keep the blade perpendicular to the cut and the feed at a constant speed. Do not jerk or suddenly thrust tool in cut and do not rock tool from side to side, so as to bind blade in the cut. When blade starts cutting it is more desirable to "crowd" rate of feed to attain