

GENERAL POWER TOOL SAFETY WARNINGS



Read all safety warnings and 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 use. The term “power tool” in these instructions refers to a mains-operated (corded) power tool or battery-operated (cordless) power tool.

Use the power tool, accessories, and tool bits in accordance with these instructions. Take into account working conditions and work to be performed. Use of the power tool for operations different from those intended could result in a hazardous situation.

Work Area Safety



Keep work area clean and well lit. Cluttered or dark areas invite accidents.

Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases, and/or dust. Power tools create sparks that may ignite the dust or fumes.

Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control of the tool.

Electrical Safety



Power tool plugs must match the corresponding 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 the risk of electric shock.

Avoid body contact with grounded surfaces like refrigerators, pipes, and radiators when using electric powered tools; this will reduce the likelihood of shock if your body is grounded.

Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.

Do not abuse the cord. Never use the cord for carrying, pulling, or unplugging the power tool. Keep the cord away from heat, oil, sharp edges, and/or moving parts. Damaged or entangled cords can increase the risk of electric shock.

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.

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.

Personal Safety



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.

Use personal protective equipment. Always wear eye protection. Protective equipment such as a dust mask,

non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.

Prevent unintentional starting. Ensure the switch is in the off-position before connecting to a power source and/or battery pack. Carrying tools with your finger on the switch or energizing power tools that have the switch on invites accidents.

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.

Do not overreach. Keep proper footing and balance at all times; this enables better control of the power tool in unexpected situations.

Dress properly. Do not wear loose clothing or jewelry. Keep your hair, clothing, and gloves away from moving parts. Loose clothes, jewelry, or long hair can be caught in moving parts.

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.

Power Tool Use and Care



Do not force the power tool. Use the correct power tool for your application. The correct power tool will complete the job better and safer at the rate for which it was designed.

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.

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.

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.

Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts, and any other condition that may impact the power tool's operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.

Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.

Maintain labels and name plates. These carry important information. If unreadable or missing, contact a *KETT Tool Company* representative.

Service



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.

SYMBOLS



SGS Certification for Canada and the United States



Double Insulated Motor

n_0 XXXX min⁻¹

N_0 Load RPM



Alternating Current



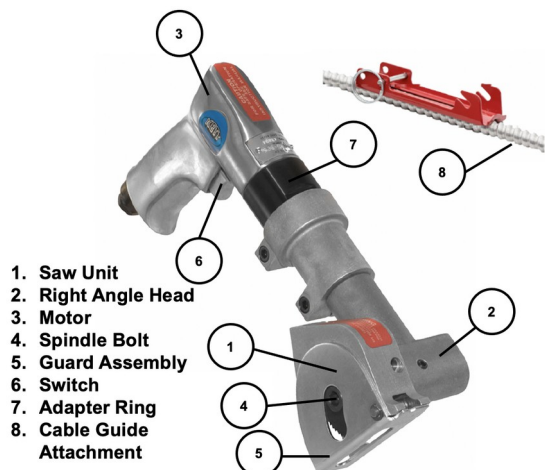
Volts

Amperes

SPECIFICATIONS

RPM	Power Source	Saw Unit
0-2200	90 PSI	KS-26
Capabilities		
Cold-Rolled Mild Steel	Aluminum	Plastic and Other Rigid Materials
16 Gauge	0.100 Inches	Max. cut depth of 3/8 inch
Cable Guide Attachment is available to aid in stripping thin-walled metal clad cable.		

FUNCTIONAL DESCRIPTION



1. Saw Unit
2. Right Angle Head
3. Motor
4. Spindle Bolt
5. Guard Assembly
6. Switch
7. Adapter Ring
8. Cable Guide Attachment

ASSEMBLY

⚠ WARNING To reduce the risk of injury, always unplug the power tool before attaching or removing accessories or adjusting. Use only specifically recommended accessories. Others may be

hazardous.

Installing the Coupler (170-25) onto the Motor Unit (253-38/57) Spindle

Make sure that the Motor Unit (253-38/57) Spindle's specific spacer (154-54) is installed. While holding the flats of the spacer, screw the Coupler (170-25) completely onto the spindle so that the Coupler rests against the spacer.

Installing the Saw Blade

Use the Spindle Wrench (149-6) to hold the flats of the Drill Spindle (139-18) behind the saw blade. Place the saw blade onto the shoulder of the Drill Spindle arbor and thread the Spindle Bolt (133-16) into the Drill Spindle with the associated hex key until tight.

Installing the Saw Unit (KS-26) onto the Motor Unit (253-38/57)

With the two Clamping Screws (M133-37) engaged into the Connecting Sleeve (567-2A) but loosened a few turns, slide the sleeve onto the Motor Unit (253-38/57) Adapter Ring. Insert the end of the Geared-Angle Head Housing (151-4) with the exposed Drive Spindle (126-10) into the Connecting Sleeve. Rotate the Saw Unit (KS-26) as necessary to align the Coupler (170-25) on the Motor Unit Spindle with the Drive Spindle on the Saw Unit.

Once aligned, both the Motor Unit Adapter Ring and Geared-Angle Head Housing will be fully inserted into each end of the sleeve. Tighten the two Clamping Screws in the sleeve to secure the Saw Unit in the desired orientation on the Motor Unit Adapter Ring.

OPERATION

⚠ WARNING To reduce the risk of injury, always unplug the power tool before attaching or removing accessories, or making adjustments. Use only specifically recommended accessories. Others may be hazardous.

To reduce the risk of injury, wear safety goggles or glasses with side shields.

Do not remove the saw guard. Before starting any cut, ensure that the saw guard is firmly in place.

NOTICE This power tool is not recommended for stainless steel or titanium. Exceeding the rated capacity can cause excessive blade wear and motor damage.

With only the front of the shoe resting on the material, place the tool at the material's edge. Ensure that the tool is held with the shoe flat and level with the surface of the material. The guard should be in its retracted position to expose the blade.

Point the tool in the direction of the cut, lining up the scribed line in vee sight on the saw guard. Squeeze the trigger switch and set the blade in motion. Slowly push the tool forward until the blade starts to cut, gradually increasing pressure until the blade is cutting at full depth. Increase pressure until the tool moves forward at a uniform rate.

NOTICE Never back up the tool inside the cut with the power on. This is the most frequent cause of broken blades and can result in serious tool damage.

To stop the cut, bring the saw to the ending point of the cut, hold firmly, and shut off power. Let the saw coast to a stop before lifting the saw from the cut.

ADJUSTMENT

⚠ WARNING To reduce the risk of injury, always unplug the power tool before attaching or removing accessories, or making

adjustments. Use only specifically recommended accessories. Others may be hazardous.

If the saw guard seems to mar the surface of the material being cut, run the cut on the reverse side of the material. If the guard continues to mar, cover the section to be cut with pressure sensitive tape and then run the saw over and cut and through the tape.

DISASSEMBLY

⚠ WARNING To reduce the risk of injury, always unplug the power tool before attaching or removing accessories or adjusting. Use only specifically recommended accessories. Others may be hazardous.

Removing the Saw Unit (KS-26) from the Motor Unit (253-38/57)

Loosen the two Clamping Screws (M133-37) inside the Connecting Sleeve (567-2A) to pull the saw unit housing away from the Motor Unit (253-38/57) Adapter Ring. This will expose the Drive Spindle (126-10) of the Saw Unit (KS-26) and the Coupler (170-25) on the Motor Unit Spindle.

Removing the Saw Blade

Use the Spindle Wrench (149-6) to hold the flats of the Drill Spindle (139-18) behind the saw blade. Loosen the Spindle Bolt (133-16) out of the Drill Spindle. The saw blade should lift off the shoulder of the Drill Spindle's arbor and slide out the bottom of the Saw Body (156-21).

Removing the Coupler (170-25) from the Motor Unit (253-38/57) Spindle

⚠ Be cautious of sharp edges and wear gloves when removing the Coupler. If the Coupler is damaged, sharp edges may be present that could cause injury.

NOTICE The Coupler is designed to shear when the saw encounters an issue. This protects the internal components of the tool.

To remove the Coupler (170-25) from the Motor Unit (253-38/57) Spindle, hold the flats of the Motor Unit (253-38/57) Spindle's specific spacer (154-54) behind the Coupler. Then loosen the Coupler using an appropriate wrench.

MAINTENANCE

⚠ WARNING To reduce the risk of injury, always unplug the power tool before performing any maintenance. 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 authorized representative.

NOTICE This power tool will stop when the brushes wear to a preset length. This prevents damage to the motor.

Motors are factory tested. If the saw does not operate, check the following: supply line for blown fuses and plug and receptacle for contact.

Cable/Cord

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

The pipe and fittings between the compressor and air hose outlets should be 1/2-inch pipe size. The air hose should at least have a 3/8-inch inner diameter.

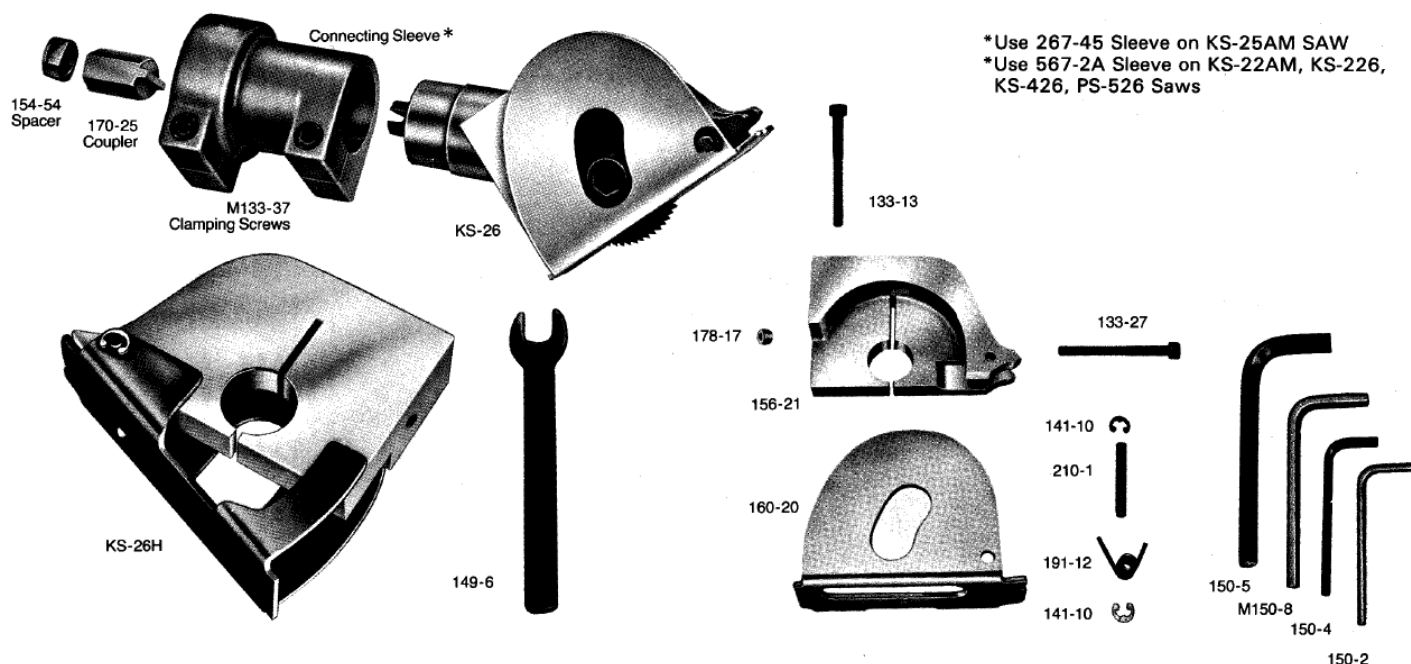
When using the tool at a considerable distance from power source, an extension cable of adequate size must be used to prevent loss of power and overheating.

Extension Cord Length (feet)		
Up to 75	100	Up to 200
18-Gauge Wire	16-Gauge Wire	14-Gauge Wire

Lubrication

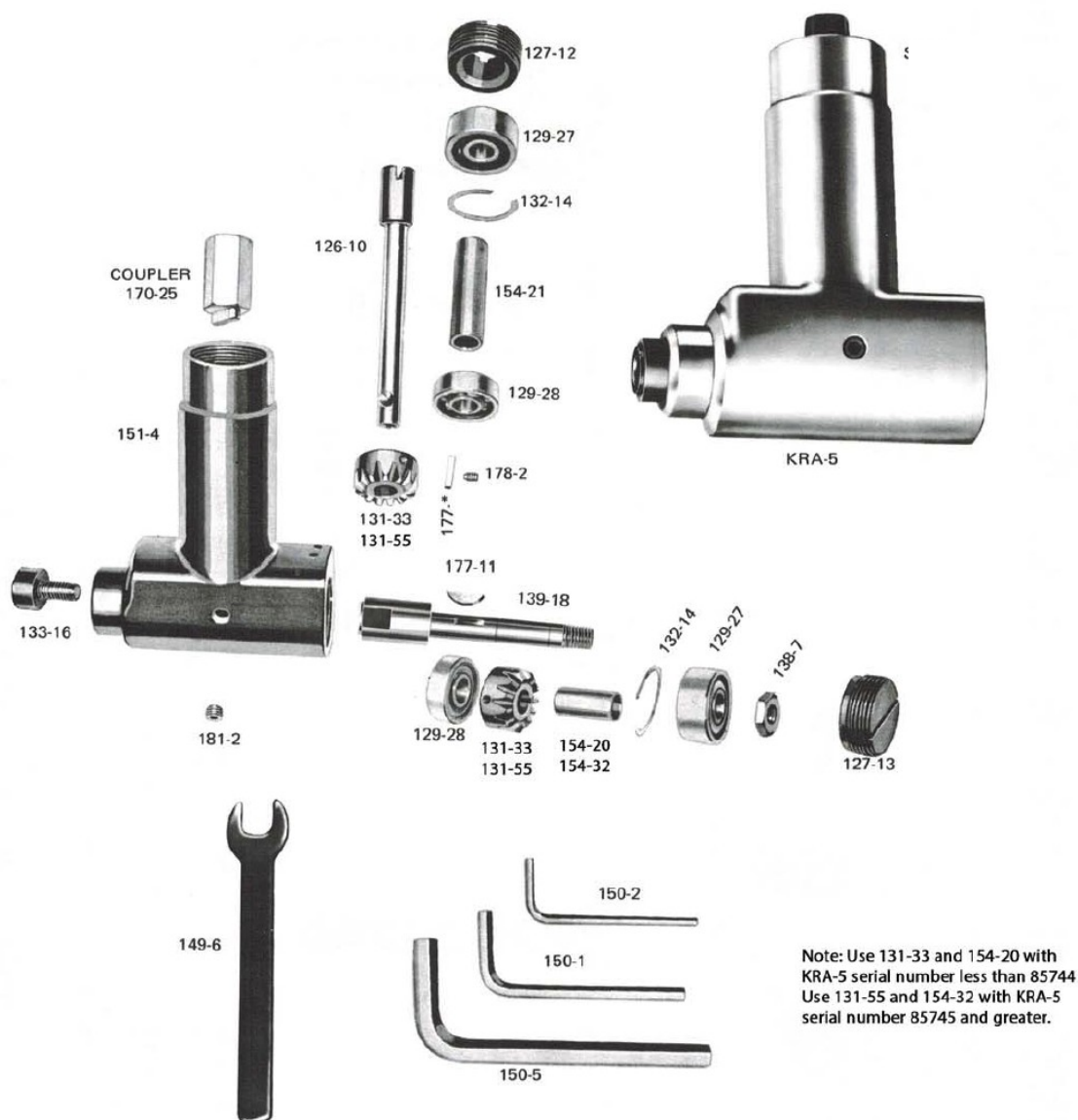
Once every three months, depending upon usage, remove the Saw Unit (KS-26) from the Motor Unit (253-38/57) following the instructions given under the heading "Disassembly."

The saw spindle and gears should be lubricated after every 25 to 30 hours of use. To lubricate, inject a light cup grease into the grease opening covered by the Screw Plug (181-2).

SAW UNIT (KS-26) PARTS LIST


Part No.	Qty	Description	Part No.	Qty	Description
133-13	1	Socket Head Cap Screw	156-21	1	Saw Body
133-27	1	Clamping Screw	160-20	1	Saw Guard
M133-37	2	Clamping Screw	170-25	1	Safety Shear Coupler
141-10	1	Retaining Ring	178-17	1	Set Screw
149-6	1	Spindle Wrench	191-12	1	Coil Spring
150-2	1	1/8-Inch Socket Key	210-1	1	Guard Pin
150-4	1	5/32-Inch Socket Key	267-45	1	Connecting Sleeve
150-5	1	5/16-Inch Socket Key	268-20	1	KS-26H Saw Body and Guard Assembly
M150-8	1	5-mm Socket Key	567-2A	1	Connecting Sleeve
154-54	1	Spacer	KS-21	1	Saw Unit

GEARED ANGLE HEAD (KRA-5) PARTS LIST



Part No.	Qty	Description	Part No.	Qty.	Description
126-10	1	Drive Spindle	150-1	1	3/16-Inch Socket Key
127-12	1	Retaining Screw	150-2	1	1/8-Inch Socket Key
127-13	1	Retaining Screw	150-5	1	5/16-Inch Socket Key
129-27	2	Ball Bearing	151-4	1	Housing
129-28	2	Ball Bearing	154-20	1	Sleeve
131-33	1	Mitre Gear	154-32	1	Sleeve
131-55	1	Mitre Gear	154-21	1	Sleeve
132-14	2	Shim	170-25	1	Coupler
133-16	1	Spindle Bolt	177-11	1	Woodruff Key
138-7	1	Jam Nut	177-*	1	Key ¹
139-18	1	Drill Spindle	178-2	1	Socket Head Set Screw
149-6	1	Spindle Wrench	181-2	1	Screw Plug

¹See serial number on neck of KRA-5. If the serial number is 15240 or lower, use Square Key (177-7). If the serial number is 15241 or higher, use Woodruff Key (177-11).

MOTOR UNIT (253-38/57) PARTS LIST
253-38 (SERIAL NUMBER 2001 TO 9600)
253-57 (SERIAL NUMBER 9601 AND HIGHER)

Item No.	Part No.	Qty.	Description	Item No.	Part No.	Qty.	Description
2	729799-R	1	Clamp Nut (253-57)	30	729708	1	Cylinder
	729799-440		Clamp Nut (253-38)	33	1012831	1	Retaining Ring
3	729798	1	Internal Gear	34	731928	1	Set Screw
4	49423-02	1	Ball Bearing (253-57)	35	731929	1	Trigger
	1008854		Ball Bearing (253-38)	36	731926	1	Valve Stem
5	154-*	1	Spacer	37	729591	1	O-Ring
6	729797-R	1	Fiber Washer (253-57)	38	729091	2	O-Ring
	729797		Fiber Washer (253-38)	39	731927	1	Valve Bushing
7	729208	1	Ret. Ring (only used on 253-38)	40	729263	1	O-Ring
8	729794-R	1	Planet Cage (253-57)	41	731930	1	Pin
	729794-440*		Planet Cage (253-38)	42	731923-440	1	Motor Housing
9	729796-440	2	Planet Pin	43	731925	1	Valve Spring
10	729795	2	Planet Gear (includes Needle Rollers, Item 11)	44	731922	1	Housing End Cap
11	729808	22	Needle Rollers (see Item 10)	45	731921	2	Screw
25	1008212	1	Ball Bearing	46	731920	1	Air Inlet
26	1001532	1	Ball Bearing	47	729707	2	Dowel Pin
27	729793	1	Front Plate	48	729791	1	Rear Plate
28	729792	1	Rotor	49	729012	1	Ball Bearing
29	729709	4	Rotor Blade	50	729178	1	Bearing Seal

***NOTES:**

- Planet Cage (729794-440) is obsolete. To repair, replace the following parts: Clamp Nut (729799-R), Planet Cage (729794-R), Fiber Washer (729797-R), and Ball Bearing (49423-02).
- Clamp Nut (Item 2) and Motor Housing (Item 42) have left-hand threads. Turn clock-wise to remove.
- Use Spacer (Item 5) part number 154-50 on the following models: P-500, P-540, P-541, P-542, P-570, and P-580.
- Use Space (Item 5) part number 154-54 on the following models: PS-521, PS-523, PS-524, PS-526, and PSV-532.

