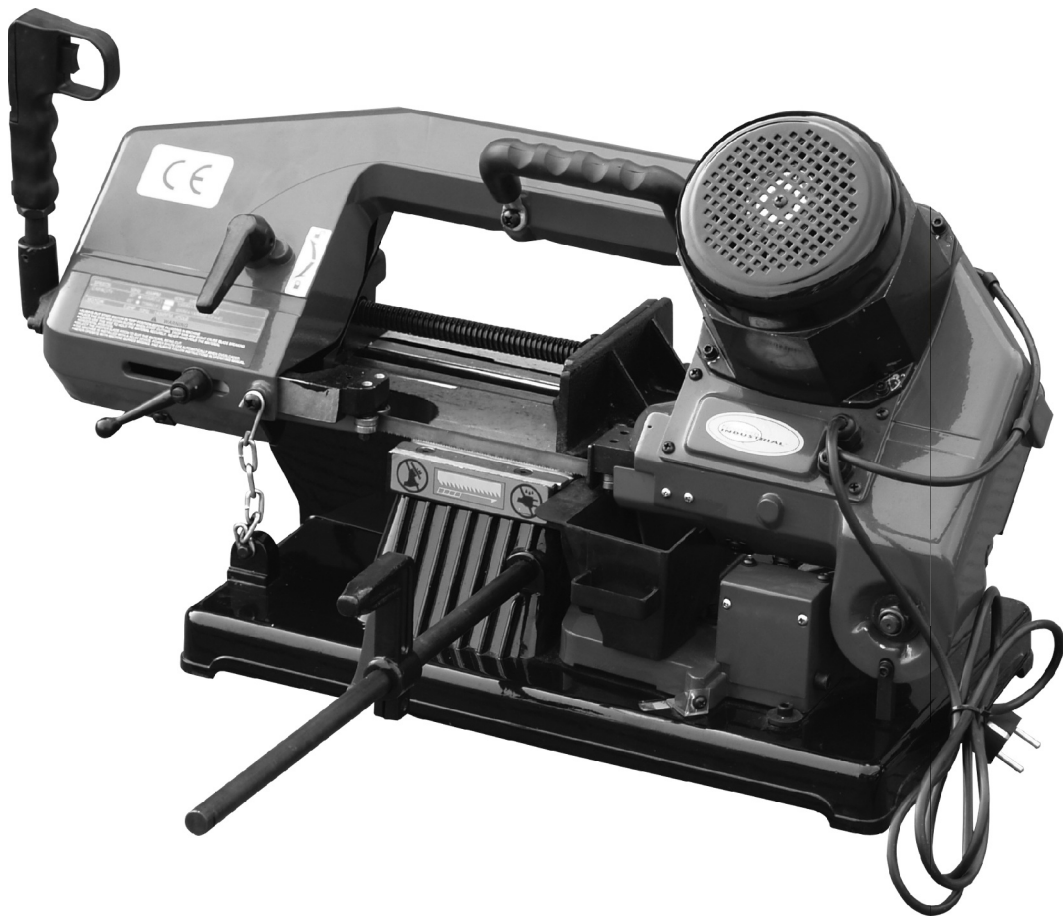




4" X 6" METAL CUTTING BAND SAW OWNER'S MANUAL



 **WARNING**

Read carefully and understand **RULES FOR SAFE OPERATION** and instructions before operating. Failure to follow the safety rules and other basic safety precautions may result in serious personal injury.

ITEM#155791

Thank you very much for choosing a NORTHERN TOOL + EQUIPMENT CO., INC. Product! For future reference, please complete the owner's record below:

Model: _____ Purchase Date: _____

Save the receipt, warranty and these instructions. It is important that you read the entire manual to become familiar with this product before you begin using it.

This machine is designed for certain applications only. Northern Tool + Equipment cannot be responsible for issues arising from modification. We strongly recommend this machine is not modified and/or used for any application other than that for which it was designed. If you have any questions relative to a particular application, DO NOT use the machine until you have first contacted Northern Tool + Equipment to determine if it can or should be performed on the product.

For technical questions please call **1-800-222-5381**.

TECHNICAL SPECIFICATIONS

Motor		1/2 HP, 120V/60Hz, 13,500 RPM
Blade size		58" x 1/2" x .025"
Blade speed (No-load)		177 FPM
Angular Cut		Maximum Capacity
45°	Circular	2-3/8"
	Rectangular	2-3/8" x 4"
60°	Circular	4"
	Rectangular	4" x 6"

FEATURES

1. Offers one speed for cutting metal plastic or wood.
2. Low noise while operating.

GENERAL SAFETY RULES



WARNING: Read and understand all instructions. Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury.



WARNING: The warnings, cautions, and instructions discussed in this instruction manual cannot cover all possible conditions or situations that could occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.

SAVE THESE INSTRUCTIONS

WORK AREA

- **Keep work area clean**, free of clutter and well lit. Cluttered and dark work areas can cause accidents.
- **Do not use your band saw where there is a risk of causing a fire or an explosion;** e.g. in the presence of flammable liquids, gasses, or dust. Power tools create sparks, which may ignite the dust or fumes.
- **Keep children and bystanders** away while operating a band saw. Distractions can cause you to lose control, so visitors should remain at a safe distance from the work area.
- **Be alert of your surroundings.** Using band saws in confined work areas may put you dangerously close to cutting tools and rotating parts.

ELECTRICAL SAFETY



- **WARNING!** Always check to ensure the power supply corresponds to the voltage on the rating plate.
- **Do not abuse the cord.** Never pull tool cords from the receptacle. Keep power cords away from heat, oil, sharp edges or moving parts. Replace damaged cords immediately. Damaged cords may cause a fire and increase the risk of electric shock.
- **Grounded tools** must be plugged into an outlet properly installed and grounded in accordance with all codes and ordinances. Never remove the grounding prong or modify the plug in any way. Do not use any adapter plugs. This unit is equipped with a 3-prong (grounded) plug for your protection against shock hazards and should be plugged directly into a properly grounded 3-prong receptacle. Check with a qualified electrician if you are in doubt as to whether the outlet is properly grounded.
- **Extension Cord Use.**
 - A. Use only 'Listed' extension cords. If used outdoors, they must be marked " For Outdoor Use." Those cords having 3-prong grounding type plugs and mating receptacles are to be used with grounded tools.
 - B. Replace damaged or worn cords immediately.
 - C. Check the name plate rating of your tool. Use of improper size or gauge of extension cord may cause unsafe or inefficient operation of your tool. Be sure your extension cord is rated to allow sufficient Current flow to the motor. For the proper wire gauge for your tool, see chart.

CHART FOR MINIMUM WIRE SIZE OF EXTENSION CORD:

Nameplate AMPS	Cord Length			
	25'	50'	100'	150'
0-6	18 AWG	16 AWG	16 AWG	14 AWG
6-10	18 AWG	16 AWG	14 AWG	12 AWG
10-12	16 AWG	16 AWG	14 AWG	12 AWG
12-16	14 AWG	12 AWG	(NOT RECOMMENDED)	

If in doubt, use larger cord.

Be sure to check voltage requirements of the tool to your incoming power source.

- **Do not expose** your band saw to rain or wet conditions. Water entering an electric motor will increase the risk of electric shock.
- **Do not let your fingers** touch the terminals of plug when installing to or removing from the outlet.
- **Ground fault circuit interrupters.** If work area is not equipped with a permanently installed Ground Fault Circuit Interrupter outlet (GFCI), use a plug-in GFCI between power tool or extension cord and power receptacle.
- **Avoid body contact** with grounded surfaces such as pipes, radiators, ranges, and refrigerators. There is an increase risk of electric shock if your body is grounded.

PERSONAL SAFETY

- **Stay alert**, watch what you are doing and use common sense when operating a band saw. Do not use a band saw while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating band saws may result in serious personal injury.
- **Dress properly.** Do not wear loose clothing, dangling objects, or jewelry. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewelry or long hair can be caught in moving parts. Air vents often cover moving parts and should be avoided.
- **Use safety apparel and equipment.** Use safety goggles or safety glasses with side shields which comply with current national standards, or when needed, a face shield. Use as dust mask in dusty work conditions. This applies to all persons in the work area. Also use non-skid safety shoes, hardhat, gloves, dust collection systems, and hearing protection when appropriate.
- **Avoid accidental starting.** Ensure the switch is in the off position before plugging band saw into power outlet. In the event of a power failure, while a band saw is being used, turn the switch off to prevent surprise starting when power is restored.
- **Do not overreach.** Keep proper footing and balance at all times.
- **Be especially careful to keep fingers and hands out of path of blade** when using band saw in a vertical position.
- **Remove adjusting keys or wrenches** before connecting to the power supply or turning on the band saw. A wrench or key that is left attached to a rotating part of the tool may result in personal injury.

TOOL USE AND CARE

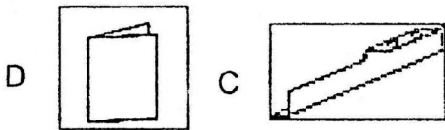
- **Do not force the tool.** Band saws do a better and safer job when used in the manner for which they are designed. Plan your work, and use the correct tool for the job.
- **Never use a tool** with a malfunctioning switch. Any band saw that cannot be controlled with the switch is dangerous and must be repaired by an authorized service representative before using.
- **Disconnect power** from band saw and place the switch in the locked or off position before servicing, adjusting, installing accessories or attachments, or storing. Such preventive safety measures reduce the risk of starting the power tool accidentally.
- **Secure work** with clamps or a vise instead of your hand to hold work when practical. This safety precaution allows for proper tool operation using both hands.
- **Store idle band saw.** When not in use, store the band saw in a dry, secure place out of the reach of children. Inspect tools for good working condition prior to storage and before re-use.
- **Use only accessories that are recommended** by the manufacturer for your model. Accessories that may be suitable for one tool may create a risk of injury when used on another tool.
- **Never stand on band saw.** Serious injury could occur if the band saw is tipped or if the cutting blade is accidentally contacted.
- **Keep guards in place** and in working order.
- **Before operating the band saw EACH TIME**, check for alignment of moving parts; binding of 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.
- **Never leave saw** running unattended.
- **When moving the saw, ALWAYS** have the head lowered to the horizontal position.
- **Avoid awkward operation and hand positions** where a sudden slip could cause your hand to move into the blade. ALWAYS make sure you have good balance.
- **Allow the motor to come up to full speed** before starting a cut to avoid binding or stalling.
- **The blade path must be free of nails.** Inspect for and remove nails from lumber before cutting.
- **Keep hands away from the cutting area.** Do not reach underneath work or in blade cutting path with your Hands and fingers for any reason.

- **Firmly clamp or bolt** your saw to a stable, level workbench or table. The most comfortable table height is approximately waist height.
- **Do not feed the material too quickly.** Do not force the workpiece against the blade.
- **Before making a cut, make sure all adjustments are secure.**
- **Always support large work pieces** while cutting to minimize risk of blade pinching and kickback. Saw may slip, walk or slide while cutting large or heavy boards.
- **Do not remove jammed cutoff pieces** until blade has stopped, and the saw is unplugged.
- **Never start the tool** when the blade is in contact with the workpiece.
- **Never touch the blade** or other moving parts during use.

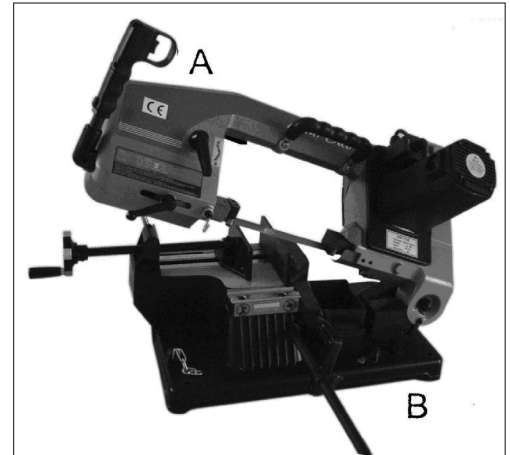
UNPACKING AND CHECKING CONTENTS

The Metal Saw is shipped complete in one carton. Separate all parts from packing material and check each item with illustration and "Table of Loose Parts." Make certain all items are accounted for, before discarding any packing material.

⚠ WARNING: If any parts are missing, do not try to assemble the metal saw, plug in the power cable or turn the switch on until the missing parts are obtained and installed correctly.



ITEM	TABLE OF LOOSE PARTS	Q'ty
A	Base Saw Assembly	1
B	Stop Rod Assembly	1
C	Blade Guard	1
D	Instruction Manual	1



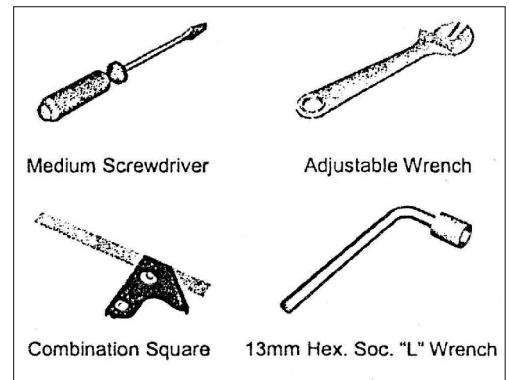
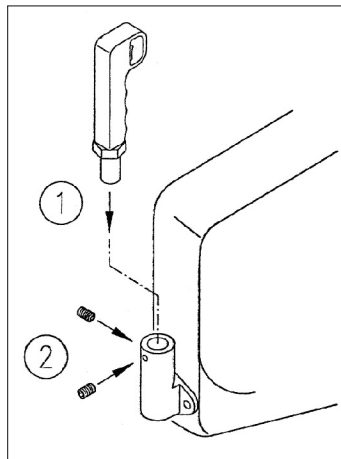
TOOLS NEEDED FOR ASSEMBLY

Note: The tools needed for assembly are not included with the saw.

INSTALLATION/ASSEMBLY

Install the trigger switch as follows:

- Insert the wires into the housing (2)
- Replace the trigger switch handle (1) into the housing (2), ensuring that it is parallel with the saw bow.
- Fasten the trigger switch handle (1) with the two screws (included).



⚠ BEFORE CUTTING

Unhook the lock chain(A) in Fig.1 to release this saw. After use, replace the chain, and check that it is hooked properly for your safety and carry. Failure to comply with this warning may result in personal injury and machine damage.

⚠ CAUTION!
NEVER OPERATE SAW WITHOUT BLADE GUARDS IN PLACE.

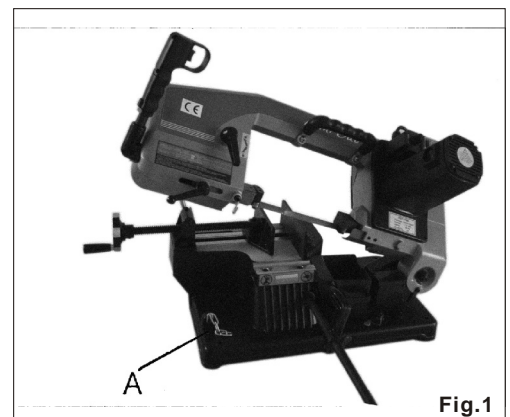
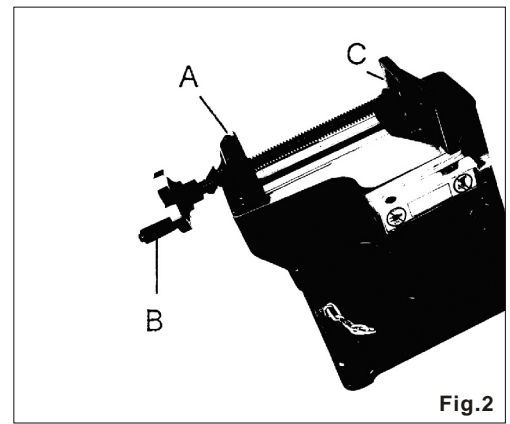


Fig.1

QUICK ACTION VISE

The "Quick Action " vise provides security and convenience in one. Use as follows.

1. Lift up the handle (A) in Fig. 2 to allow access to the hand wheel (B). You can move the vise forward and backward with ease by pushing or pulling the hand wheel.
2. Push the vise jaw (C) toward the work piece, moving it as close as possible against the fixed vise jaw.
3. Replace handle by pressing it down.
4. Turn the wheel (B) clockwise to tighten and secure the vise onto the Work piece.



WORK SET UP

1. Make sure saw is unplugged and the switch is in the OFF position.
2. Raise saw head to start position.
3. Open vise to accept the piece to be cut by pulling the wheel at the end of the base.
4. Place work piece on saw bed. Support the ends of long pieces.

OPERATING YOUR SAW



WARNING: Do not operate your saw until it is completely assembled and installed.

BEFORE USING THE SAW

1. Assemble and align.
2. Learn the function and proper use of:
 - The trigger switch.
 - The upper and lower blade guards.
3. Read and understand all safety instructions and operating procedures throughout the manual.
4. Read the warning labels on the metal saw.
5. Inspect your saw. If any part of this metal saw is missing, or bent, or has failed in any way, or any electrical parts do not work properly, turn the saw off and unplug from the power source. Replace damaged, missing, or failed parts before using the saw again.
6. It is important to choose the right blade for the material and the type of cutting you plan to do. This saw is equipped with a bi-metallic blade which can be used to cut stainless steel, steel, iron, brass, aluminum, wood, plastic; for other applications choose a blade that is recommended for the work.
7. Make sure the direction arrow of on the blade matches the direction arrow on the saw. The blade teeth should always point downward at the front of the saw.
8. Make sure the blade is sharp, undamaged and properly aligned. With the saw unplugged and the switch in the OFF position, push the power-head all the way down, spin the blade and check for clearance. Tilt the power-head to 45 degrees and repeat the check. If the blade hits anything, make the adjustments shown in the *Maintaining Maximum Cutting Capacity* section
9. Make sure the blade and arbor collars are clean.
10. Make sure all clamps and lock are tight and there is no excessive play in any parts.



WARNING: NEVER CUT FREE HAND.

11. Brace your work piece securely against the fence and tabletop so it will not rock or twist during the cut. Make sure no debris is caught beneath the work piece.
12. Make sure no gaps between the work piece, fence and table will let the work piece shift after it is cut in two.
13. Use jigs, fixtures or other tools for unstable work pieces.
14. Never cut more than one work piece at a time.
15. Make sure the cutoff piece can move sideways after it is cut off. Otherwise, it could get wedged against the blade and be thrown violently away from the saw, causing damage and/or injury.
16. Never turn your band saw ON before clearing everything except the work piece and related support devices off the table.
17. Never put lubricants on the blade while it is spinning.
18. To avoid injury from unsafe accessories use only accessories shown on the recommended accessories list in this manual.
19. Before actually cutting with the saw, let it run for a while. If your saw makes an unfamiliar noise or if it vibrates excessively, stop immediately. Turn the saw off. Unplug the saw. Do not restart until finding and correcting the problem.
20. Never confine the piece being cut off. Never hold it, clamp it, touch it, or use length stops against it. It must be free to move sideways. If confined, it could get wedged against the blade and thrown violently.
21. Avoid awkward hand positions where a sudden slip could cause a hand to move into the blade.
22. Let the blade reach full speed before cutting.
23. Feed the saw into the work piece only fast enough to let the blade cut without bogging down or binding
24. Before freeing jammed material, turn the switch off and unplug the saw. Wait for all moving parts to stop.
25. After finishing a cut, keep holding the power head down, release the switch, and wait for all moving parts to Stop before moving your hands.



WARNING: Read the following warning labels found on the front of the saw.



WARNING: To avoid electrical hazards, fire hazard, or damage to the tool use proper circuit protection. You saw is wired at the factory for 230V operation. Connect to a 230V, 10-amp, branch circuit and use a 10-amp time delay fuse or circuit breaker. To avoid shock or fire, if power cord is worn or cut, or damaged in any way, have it replaced immediately.

Grounding

This metal saw is single insulated tool, so the ground system is provided to protect you from being shocked. The appropriate grounding system is set up as soon as this machine is plugged into the proper power supply system. Therefore, the standard power supply system, shall be provided for this machine in Order to protect you from the risk of shock.

MOTOR SAFETY PROTECTION

1. Connect this tool to a 120V, 10A branch circuit with a 10A time delay fuse or circuit breaker. Using the wrong size fuse can damage the motor.
2. If the motor does not start, turn the toggle switch off immediately. UNPLUG THE TOOL. Check the saw blade to make sure it turns freely. If the blade is free, try to start the motor again. If the motor still does not start, refer to the "Motor Trouble Shooting Char".
3. If the motor suddenly stalls while cutting wood, turn the toggle switch off, unplug the tool, and free the blade from the wood. Then you may restart the motor and finish the cut.
4. Fuses may "blow" or circuit breakers may trip frequently if:
 - a. Motor is overloaded... overloading occurs when feeding too rapidly or frequent start/stops in a short period of time.
 - b. Voltage within 10% of recommended voltage is optimal for normal loads. For heavy loads, however, the voltage (caused by a small size wire in the supply circuit or an overly long supply circuit wire) may drop too low for the motor to operate. Always check the connections, the load and the supply circuit whenever motor does not work well. Check wire sizes and length with the Wire Size Chart below.
5. Most motor troubles relate to loose or incorrect connections, overload, low voltage (such as small size wire in the supply circuit) or overly long supply circuit wires. Always check the connections, the load and the supply circuit whenever motor doesn't work well. Check wire size and length with the wire Size Chart below.

OPERATING

INFORMATION BEFORE OPERATION

- Be sure the blade isn't in contact with the work when the motor is started.
- Run the motor by pull on the trigger switch and hold throughout the cut.
- Allow the saw to reach full speed. Begin cutting by lowering the head down slowly onto the work.
- At the end of cut, keep the power head in the down position and release trigger switch to stop the blade.
- Once the blade has stop, give the trigger handle a push up and it will return start position.

ANGLE CUTTING

The machine uses a swivel miter base for angle cutting from 0-45 degrees. On the swing arm, there is a pointer (A) in fig. 3 attached. This machine is preset to zero degree before leaving the factory. Angle cutting is adjusted as follows:

1. Loosen bolt (B) to release the arm
2. Move the swivel arm forward along the scale to search a right index for the work to be cut.
3. If the pointer matches the right index on the scale. Tighten the bolt, and a perfect angle cut will be given.



DANGER

- Keep hands out of saw blade path
- Never cut anything freehand
- Never reach behind or beneath blade
- To avoid electric shock, do not expose to rain.



DANGER

- Tighten arbor screw and all clamps before turn power on



DANGER

To avoid electric shock

1. Do not change the power cord and plug to another specification not provided by the manufacturer.
2. Do not use in rain or where floor is wet. This tool is intended for indoor residential use only.



CAUTION

To avoid motor damage.

This motor should be blown out or vacuumed frequently to keep sawdust from interfering with normal motor ventilation.

Blade Direction of Travel

Be sure this blade is assembled to the wheels so that the vertical edge can engage the work piece first.

Blade Movement

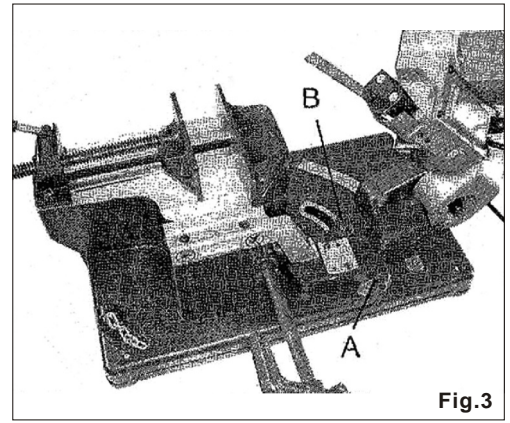
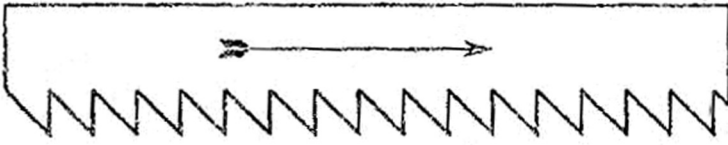


Fig.3

Changing Blade

1. Raise this saw head up to the start position.
2. Remove this blade guards (B), and blade cover by loosening two screws (C) on the saw frame.
3. Turn the tension handle (B-FIG.5) counter clockwise to let the blade slip off.
4. Remove blade from both wheels (E), and blade guide bearings (F).
5. Place a new blade on the flanges of wheels but not too tight, twist blade slightly and let it slip into between each of guide bearings. Make sure the teeth of blade face down toward the bed.
6. Fasten the tension handle clockwise move the handle by pulling it down. With one hand it will be tracked onto wheels properly.
7. Replace blade cover (G) and guards. And start the machine to see that the blade runs properly.

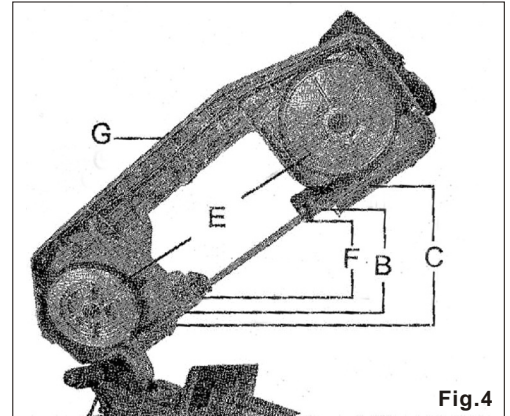


Fig.4

Adjustment Blade Guide

A spring release handle if fixed to the blade guide and is used to lock down and position the blade guide. Unlock the handle, by turning, to adjust the blade guide. The handle lever can also be repositioned into a more convenient position by lifting the handle and turning it to desired position. Adjust the blade guide so that it is in accordance with the size of the work piece. The one located at the left of the saw head can be adjusted while the other is fixed.

1. If the work is big, loosen the handle (A) in Fig.5. Move the guide toward the work about one inch then tighten the handle.
2. When cutting a small work, move the guide toward the work as close as possible.

Blade Tension Adjustment

The tension device of this machine is designed for the regular service. All you have to do is hold the handle (B) in Fig.5 to control blade tension by giving turn to increase or decrease tension as you wish during machine in operation. The major function of it is to give a perfect cut, because the blade works at constant tension. Furthermore, there are compression springs on the tension system for decreasing the blade backlash. Consequently, the life of the blade will be extended.

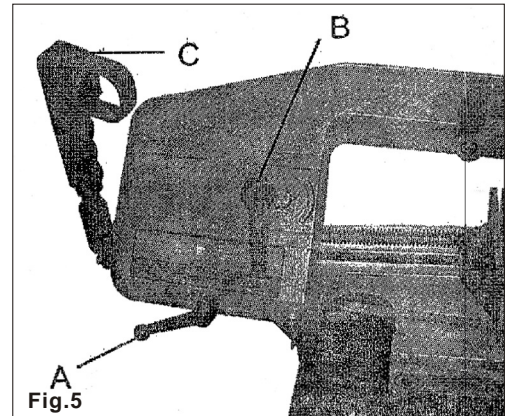
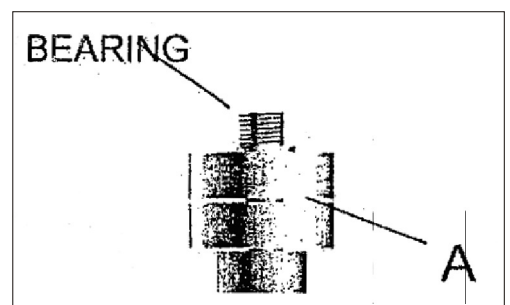


Fig.5

Adjusting for Poor cutting

The machine has been adjusted and power tested with several test cuts before leaving the factory to insure proper cutting. If there is any poor cuts occurred, correct it as follows.

1. Bad cuts due to blade worn, replace a new blade.
2. The saw uses fixed ball bearings. For keeping proper cutting, the best way is to replace them every three or six months depending on the frequency of service.
3. Poor cuts can be mad because the fixed nut (A) is getting loose. Then tighten it properly.



BEARING



WARNING
SHUT OFF THE POWER SOURCE
TO THE MACHINE BEFORE
ADJUSTMENT, MAINTENANCE,
OR REPAIRS.

Maintain Gear Transmission

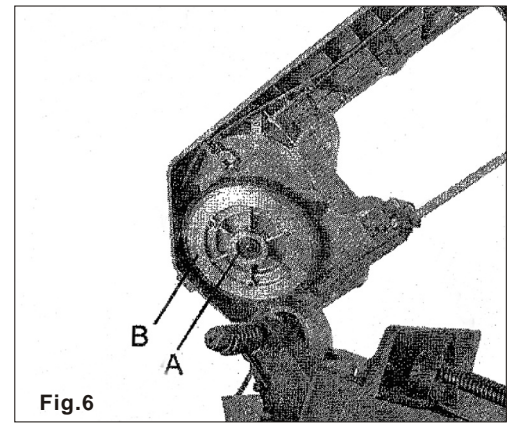
The gears of the transmission system equipped with this machine are made of a special kind of steel.

The quality insures that the gears will be more sturdy and durable. In order to keep the performance, we suggest lubricating the gears very three months. To lubricate follow the steps as below.

1. Loosen the screw (A) in Fig.6 with a 8mm Hex wrench.
2. Remove the wheel (B) then lubricate the gears with Anti-high heat grease.
3. Replaces this wheel with care then tighten the screw (A) properly.

BEFORE STARTING

MAKE SURE TO UNHOOK THE LOCK CHAIN BETWEEN THE SAW ARM AND BED TO RELEASE THE SAW. AFTER SERVICE, REMEMBER IT MUST BE REATTACHED FOR SAFETY AND TRANSPORTATION.



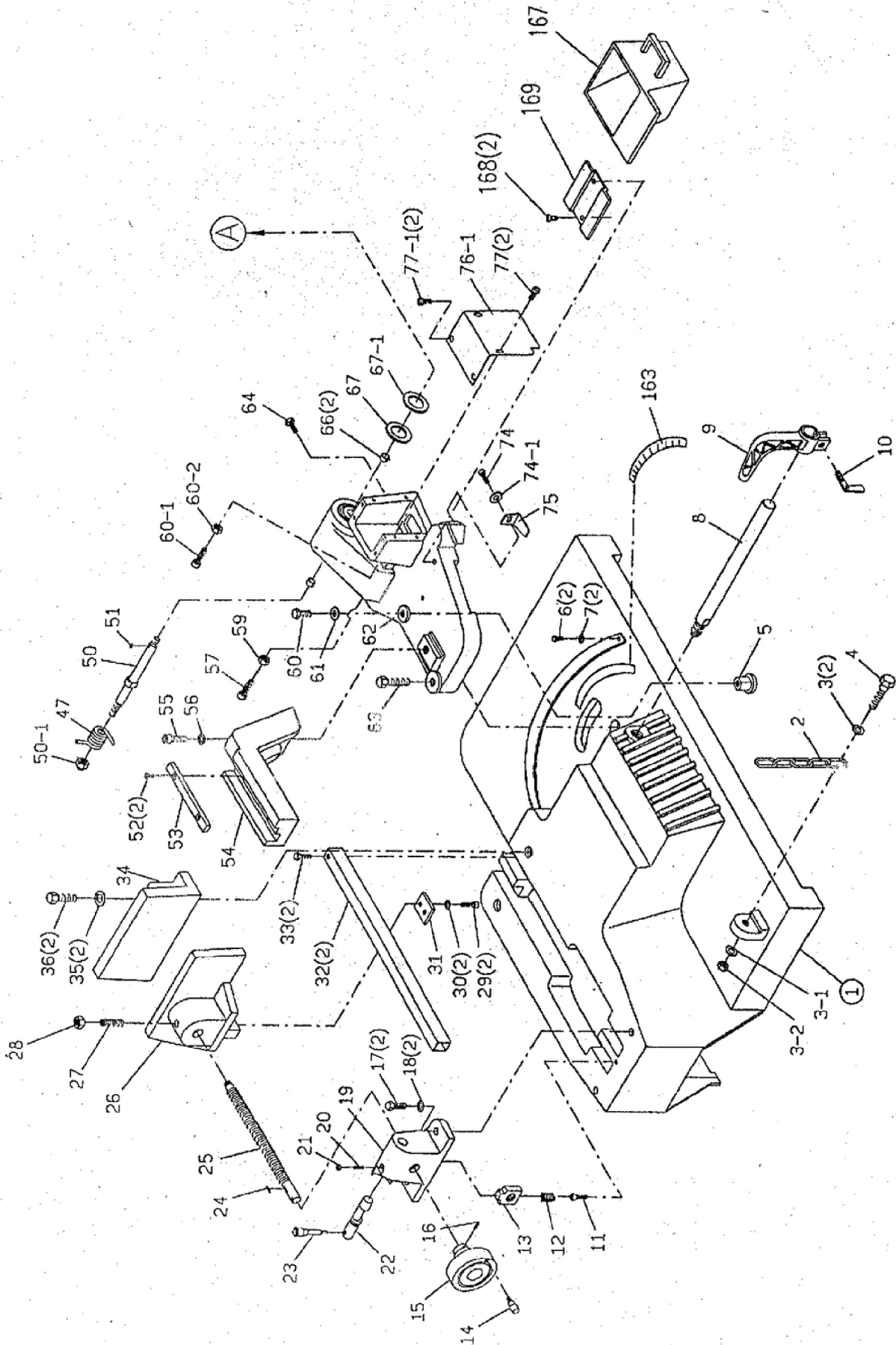
PARTS LIST

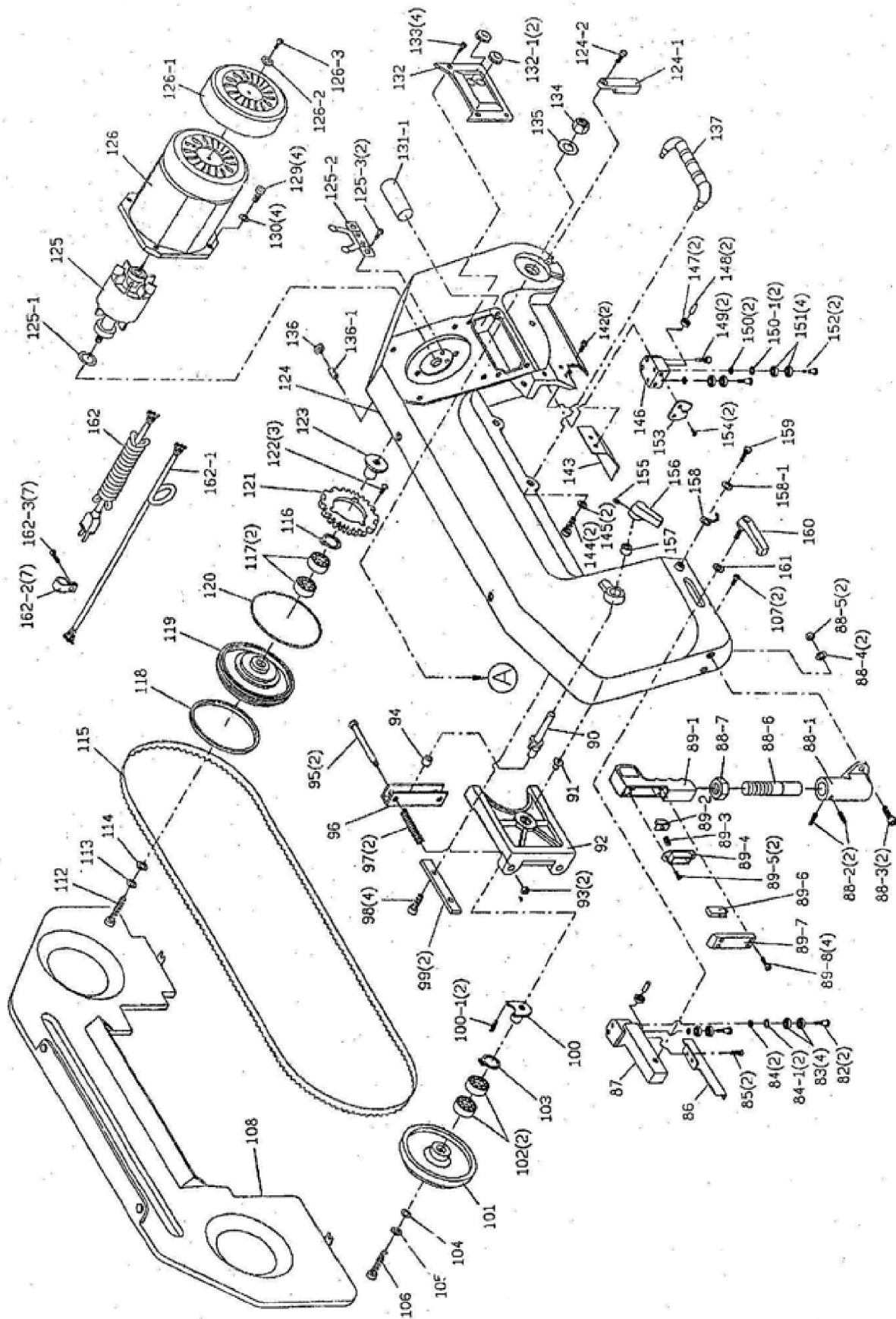
Part No.	Description	Size No.	Qty.	Part No.	Description	Size No.	Qty.
1	Base		1	53	Support Plate		1
2	Chain	5×12×1	1	54	Swivel Support Elbow	M8×25	1
3	Washer	M5	2	55	Rd. Hd. Hex. Soc. Screw	M8	1
3-1	Washer	M5	1	56	Spring Washer	M8×40	1
3-2	Nut	M5×25	1	57	Hex. Soc. CapScrew	M8	1
4	Hex. Soc Cap Screw		1	59	Nut	M8×45	1
5	Set Cap Nut	M6×10	1	60	Hex. Cp Bolt	M8×35	1
6	Hex. Cap Bolt		2	60-1	Hex. Soc. CapScrew	M8	1
7	0° 45° Lock Washer		2	60-2	Nut	8×25×2	1
8	Stop Rod		1	61	Flat Washer		1
9	Stop Block	M8×16	1	62	Swivel Miter Base		1
10	Thumb Screw	M6×8	1	63	Hex. Cap Bolt	M6×10	1
11	Hex. Soc. CapScrew		1	64	Rd. Hd. Hex. Soc. Screw		1
12	Spring		1	65	Shaft Seat	(1612)	1
13	Nut	6×60	1	66	Self-Lubricated Bushing	(2615)	2
14	Wheel Handle		1	67	SL. Flat Washer	23×50×3	1
15	Hand Wheel	M6×6	1	67-1	Flat Washer	M5×10	1
16	Set Screw	M8×16	1	74	Cross Screw	5×10×1	1
17	Hex. Cap Bolt	M8	2	74-1	Washer		1
18	Spring Washer		2	75	Miter Mirror		1
19	Nut Seat	M5×12	1	76-1	Plate	M4×10	1
20	Set Screw	M5	1	77	Cross Screw	M5×10	2
21	Nut		1	77-1	Cross Screw	M5×25	2
22	Eccentric Shaft		1	82	Hex. Soc. CapScrew	625#	2
23	Eccentric Handle	5×5×15	1	83	Ball Bearing	5×10×1	4
24	Round Key		1	84	Flat Washer	M5	2
25	Lead Screw		1	84-1	Spring Washer	M4×6	2
26	Vise Jaw(left)	M5×12	1	85	Cross Screw		2
27	Set Screw	M5	1	86	Blade Guard (left)		1
28	Hex. Nut	M6×12	1	87	Adjustable Bracket (left)		1
29	Hex. Soc. CapScrew	M6	2	88-1	Housing	M5×5	1
30	Spring Washer		2	88-2	Set Screw	M6×15	2
31	Set Plate		1	88-3	Hex. Soc. CapScrew	M6	2
32	Square Guard Tube	M6×30	2	88-4	Spring Washer	M6	2
33	Flat Head Machine Screw		2	88-5	Nut		2
34	Vise Jaw (right)	M10	1	88-6	Bolt	M16×2.0	1
35	Spring Washer	M10×20	2	88-7	Nut		1
36	Hex. Cap Bolt		2	89-1	Switch Body		1
47	Spring		1	89-2	Trigger		1
50	Joint Shaft	M14× 2.0	1	89-3	Compressed Spring		1
50-1	Fiber Hex. Nut	4×4×12	1	89-4	Set Bushing	M3×8	1
51	Square Key	M6×15	1	89-5	Flat Head Machine Screw		2
52	Flat Head Machine Screw		2	89-6	Limit Switch		1

Part No.	Description	Size No.	Qty.	Part No.	Description	Size No.	Qty.
89-7	Cover	M8×10	1	126-2	lat Washer	6×13×1	1
89-8	Cross Screw		4	126-3	Rd. Hd. Hex. Soc. Screw	M6×8	1
90	Blade Tension Handle Shaft		1	129	Hex. Soc. Cap Screw	M5×16	4
91	Blade Wheel Seat Tooth		1	130	Spring Washer	M5	4
92	Blade Wheel Set	M6	1	131-1	Capacitor		1
93	Fiber Hex. Nut		2	132	Wires Box Cover		1
94	Blade Tension Block		1	132-1	Non-Stripper		2
95	Compression Spring Lock Bolt		2	133	Cross Screw	M5×6	4
96	U-Shape Plate		1	134	Nut	M12	1
97	20mw5bon Spring	M6×10	2	135	Flat Washer	12×28×3	1
98	Hex. Soc. Cap Screw		4	136	Bail Bearing	625#	1
99	Guide Plate		2	136-1	Bearing Pin	5×14	1
100	Blade Wheel Shaft (left)	M6×10	1	137	Handle		1
100-1	Set Screw		2	142	Cross Screw	M4×10	2
101	Blade Wheel (left)	6003#	1	143	Blade Guard		1
102	Ball Searing	35R	2	144	Hex. Soc. Cap Screw	M8×20	2
103	C-Ring	8×23×2	1	145	Spring Washer	M8	2
104	Flat Washer	M8	1	146	Ball Bearing Seat		1
105	Spring Washer	M8×45	1	147	Ball Bearing	625#	2
106	Rd. Hd. Hex. Soc. Screw	M5×8	1	148	Round Key	?5×14	2
107	Cross Screw		2	149	Hex. Soc. Cap Screw	M6×30	2
108	Blade Cover	M8×50	1	150	Fiat Washer	5×10×1	2
112	Rd. Rd Hex Soc. Screw	M8	1	150-1	Spring Washer	M5	2
113	Spring Washer	8×23×2	1	151	Ball Bearing	625#	4
114	Flat Washer		1	152	Hex. Soc. Cap Screw	M5×25	2
115	Blade	35R	1	153	Bail Bearing Protecting Plate		1
116	C-Ring	6003#	1	154	Flat Head Machine Screw	M6×10	2
117	Ball Bearing		2	155	Set Screw	M5×12	1
118	Rubber Ring		1	156	Blade Tension Adjustable Handle		1
119	Blade Wheel (right)		1	157	Bushing		1
120	Felt Pad		1	158	Chain Hook		1
121	Down Speed Cogwheel	M6×16	1	158-1	Flat Washer	8×16×1.5	1
122	Hex. Soc. Cap Screw		3	159	Hex. Soc. Cap .Screw	M8×12	1
123	Blade Wheel Shaft (right)		1	160	Adjustable Bracket Handle	M8×25	1
124	Saw Arm	M5×10	1	161	Flat Washer	8×23×2	1
124-1	Shaft Seat		1	162	Power Cord		1
124-2	Cross Screw		1	163	Wire		1
125	Spindle		1	164	Wire Clamp	M5×8	7
125-1	Flat Washer		1	165	Cross Screw		7
125-2	Centrifugal Switch	M4×8	1	166	Scale		1
125-3	Cross Screw		2	167	Chip Tray		1
126	Coyer W/ Silicon Steel		1	168	Round Head Screw	M5×8	2
126-1	Cooling Fan Cover		1	169	Supporting Plate		1

For replacement parts and technical questions, please call **1-800-222-5381**.

DIAGRAM





MANUFACTURER'S LIMITED WARRANTY

The limited warranty set forth below is given by Northern Tool + Equipment Company Inc., (NTE) with respect to new merchandise purchased and used in the United States, its possessions and territories.

NTE warrants this product against defects in material and workmanship for a period of one (1) year commencing on the date of original purchase and will, at its option, repair or replace, free of charge, any part found to be defective in material or workmanship. This limited warranty shall only apply if this product has been operated and maintained in accordance with the Operator's Manual furnished with the product, and has not been subject to misuse, abuse, commercial use, neglect, accident, improper maintenance, alteration, vandalism, theft, fire, water or damage because of other peril or natural disaster. Damage resulting from the installation or use of any accessory or attachment not approved by NTE for use with the products(s) covered by this manual will void your warranty as to any resulting damage. This warranty is limited to ninety (90) days from the date of original retail purchase for any NTE product that is used for rental or commercial purposes, or any other income-producing purposes.

NTE reserves the right to change or improve the design of any NTE product without assuming any obligation to modify any product previously manufactured.

No implied warranty, including any implied warranty of merchantability or fitness for a particular purpose, applies after the applicable period of express written warranty above as to the parts as identified. No other express warranty or guaranty, whether written or oral, except as mentioned above, given by any person or entity, including a dealer or retailer, with respect to any product shall bind NTE during the period of the Warranty, the exclusive remedy is repair or replacement of the product as set forth above. (Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.)

The provisions as set forth in this warranty provide the sole and exclusive remedy arising from the sales. NTE shall not be liable for incidental or consequential loss or damages including, without limitation, expenses incurred for substitute or related expenses, or for rental expenses to temporarily replace a warranted product. (Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.)

In no event shall recovery of any kind be greater than the amount of the purchase price of the product sold. Alteration of the safety features of the product shall void this warranty. You assume the risk and liability for loss, damage, or injury to you and your property and/or to others and their property arising out of the use or misuse or inability to use the product.

This limited warranty shall not extend to anyone other than the original purchaser, original lessee or the person for whom it was purchased as a gift.

How State Law Relates to this Warranty: This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

For questions about your warranty, please call 1-800-222-5381.



WARNING

Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- Lead from lead-based paints
- Crystalline silica from bricks and cement and other masonry products, and arsenic and chromium from chemically-treated lumber.

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles.



Northern Tool + Equipment Co.,
2800 Southcross Drive West
P.O. Box 1499 Burnsville, MN 5337-0499
Made in China