

Please carefully read and save these instructions before attempting to assemble, maintain, install, or operate this product. Observe all safety information to protect yourself and others. Failure to observe the instructions may result in property damage and/or personal injury. Please keep instructions for future reference.

Important Operating Instructions



5 INCH DOUBLE CUT SAW

Model: 52224

CALIFORNIA PROPOSITION 65

WARNING: You can create dust when you cut, sand, drill or grind materials such as wood, paint, metal, concrete, cement, or other masonry. This dust often contains chemicals known to cause cancer, birth defects, or other reproductive harm. Wear protective gear.

WARNING: This product or its power cord may contain chemicals, including lead, known to the State of California to cause cancer and birth defects or other reproductive harm. Wash hands after handling.

Important!

When using equipment, a few safety precautions must be observed to avoid injuries and damage. Please read the complete operating manual with due care. Keep this manual in a safe place, so that the information is available at all times. If you give the equipment to any other person, give them these operating instructions as well. We accept no liability for damage or

accidents which arise due to non-observance of these instructions and the safety information herein.

SPECIFICATIONS

No Load Speed: 4200 RMP
Max Blade Diameter: 5 inches
Max Depth Cut: 1-3/16 inch

CAUTION:

**FOR YOUR OWN SAFETY
READ INSTRUCTION MANUAL
COMPLETELY AND
CAREFULLY BEFORE
OPERATING THIS CHAINSAW.**

Any failures made in following the safety regulations and instructions may result in an electric shock, fire and/or serious injury.

SAFETY WARNINGS

- 1) Keep your work area clean and well lit.
- 2) Do not use power tools in wet or moist conditions or in the vicinity of combustible liquids or gases.
- 3) Protect yourself from electric shocks by avoiding contact with earthed parts such as pipes, radiators, stoves or refrigerators.
- 4) Keep power tools away from children.
- 5) Store tools in a dry, safe location.
- 6) Do not overload the tool. The tool will perform better when used within its limits.
- 7) Do not use any tools or attachments which are too weak or heavy for work.
- 8) Do not use the tool for a purpose or work for which they are not intended.

For warranty purchases, please keep your dated proof of purchase. File or attach to the manual for safekeeping.

9) Wear appropriate clothing. Do not wear loose clothing or jewelry and keep hair pulled back.

10) Use safety glasses and a breathing mask when working with a material that generates dust.

11) Secure the work piece in a vice to hold the piece in place instead of holding it by hand, which is dangerous.

12) Do not over reach while using this tool.

13) Keep your tools well maintained. Check to tool for damage before use. Do not use if damaged.

14) Keep handles dry and free from oil and grease.

15) Ensure the tool is turned off and the power cord unplugged before performing maintenance or changing drill bits.

16) Ensure that tool keys are removed before starting.

17) Do not force the tool. Use the correct tool for the application.

18) Do not reach underneath the work piece. The guard will not protect you from the blade.

19) Do not hold the piece to be cut in your hands or across your leg. Secure the piece to a stable platform.

20) Do not use damaged or incorrect blade washers or bolts.

21) *To avoid kickback, maintain a firm grip on the tool with both hands and stand to either side of the blade.* If the blade is binding or if the cut is interrupted, release the trigger and allow the blade to come to a complete stop before attempting to remove the blade from the work piece. When restarting the blade in a work piece, center the blade in the cut and ensure the blade teeth are not touching the work piece before starting the saw. Do not use dull or damaged blades. Secure large panels with adequate support.

22) Check the lower guard spring. If the guard and spring are not working properly, do not use the tool until the problem has been fixed.

23) Do not use the tool to cut logs, tree limbs, uneven timber or wet and/or green lumber.

24) Do not use abrasive blades or masonry-cutting blades with this tool. The guards are not designed to protect against the failure of such blades.

25) Place the larger portion of the saw base on the larger, supported part of the work piece. It will help maintain balance and control while the cut is completed.

26) Do not let the housing bump up against the material to be cut.

27) To avoid unintentional starting, ensure the tool is off and unplugged while preparing the work piece.

28) Blades must be rated to at least the maximum speed and only use blades designed specifically for this saw.

29) Do not lay the tool down until it has come to a complete stop.

ASSEMBLY

1) Locate the side handle mounting hole on the side of the housing.

2) Use a nut and washer to connect the side handle support to the housing.

3) Use the hex wrench to tighten the side handle support securely into place.

4) Attach the side handle to the top of the side handle support.

5) Use a nut to fasten the side handle securely into place.

CHANGING THE BLADES

To prevent accidental starting, ensure the power switch is off and the cord unplugged.

Do not use masonry or abrasive blades with this tool.

1) Ensure the saw is unplugged before removing old blades.

2) Press the spindle lock pin on the outside of the housing. Turn the blade slowly until the pin locks back into place.

3) Unscrew the lock nut and turn it counterclockwise.

4) Open the lower blade guard and lift and remove blade B.

5) Lift up and remove blade A.

6) Place the new blade A onto the flange with the A clearly visible.

7) Place blade B onto the spindle with B clearly visible.

8) Thread the lock nut onto the spindle shaft and tighten lock nut until secure.

9) Inspect the blades to ensure the teeth point in the opposite direction.

LUBRICATION

The blades for this teeth are dry cut teeth and only need to be lubricated in extreme cutting situations such as when cutting aluminum, copper, stainless steel and cast iron.

To use the lubrication unit, use cutter paste that is in rod form which can be inserted into the center of the lubrication unit. Once the paste rod is inserted, turn the lubrication unit's feeder wheel.

GENERAL OPERATING INSTRUCTIONS

1) Ensure all guards are in place and in proper working order and that all adjustment knobs are tight before operation.

Do not operate the saw without blade guard or if the blade guard is broken or not operating properly.

2) Before starting a cut, draw a guideline along the desired line of cut.

3) Place the front edge of the saw blades on the part of the work piece that is solidly supported.

4) Do not place the saw on a part of the work piece that will fall off when the cut is made.

5) Slide the power switch forward to start the saw. Allow the blades to reach full speed before beginning to cut.

6) Warning: Observe the position of the housing during the cut. Do not allow the housing to bump up against the material that is being cut.

7) Use steady and even pressure when making the cut. Do not force the saw. It will cause rough cuts, could shorten the life of the saw or cause kickback.

8) Use the lubrication unit when cutting aluminum, copper, stainless steel and cast iron.

These materials can soften and stick to the blades.

9) Feed the work piece parallel to the blade. Caution: feeding the work piece at an angle can damage the blade teeth.

FEED SPEED

The correct feed is determined by the hardness and thickness of the material to be cut. See page 5 for how to feed cuts of cross sections.

In thin materials, feed the blades down with the teeth protruding and then move forward (or backward) for cutting. See 5 page.

If the feed speed is too slow:

- 1) The blades will only press down on the material instead of cutting it.
- 2) The blade edges will glide and wear down the material.
- 3) This will cause a poor cut and will cause excessive wear on the blades.

If the feed speed is too fast:

- 1) The cut may split or splinter the work piece.
- 2) This will result in a poor cut with significant discharge on the lower side of the material.
- 3) If the feed speed is not slowed, the split will grow bigger and could lead to potential injury or property damage

Feeding must be done parallel to the blades. Feeding at an

angle can burn the blades and damage the teeth.

MAINTENANCE

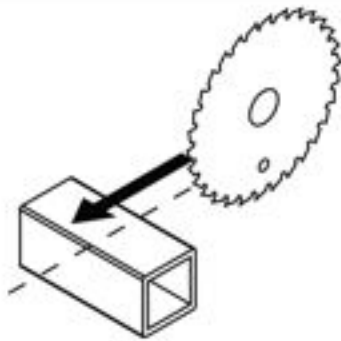
Ensure the tool is turned off and unplugged to avoid accidental starting during inspection, maintenance or cleaning.

AFTER USE: Wipe the external surfaces of the tool with a clean cloth. Do not use solvents when cleaning saw blades.

BEFORE EACH USE: Inspect the general condition of the tool. Check for loose hardware, binding or misalignment of moving parts, cracked or broken parts, damaged wiring and any other condition that could effect the safe operation.

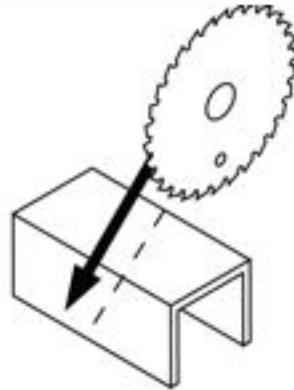
Store the tool in a clean, dry and safe location.

If this power supply cord is damaged, do not use until it is repaired by a qualified service technician.



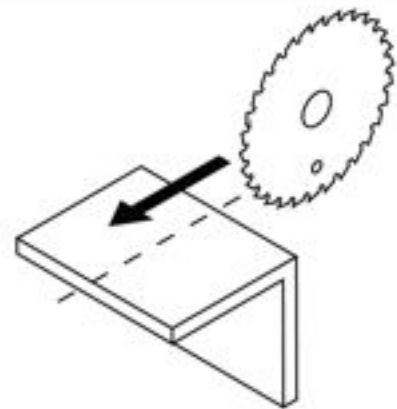
Rectangular Pipe

Feed blade from corner to corner.



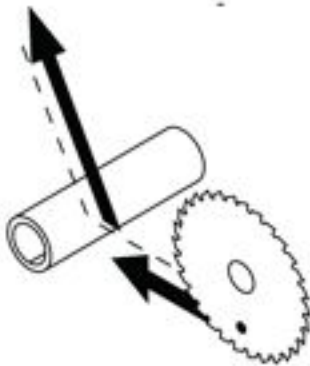
U-Section

Feed blade from corner to corner (where opposite corner would be).



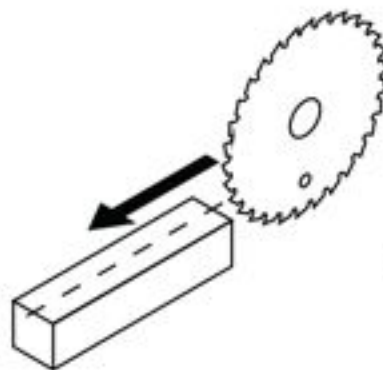
Corner Piece

Feed blade diagonally through the work surface.



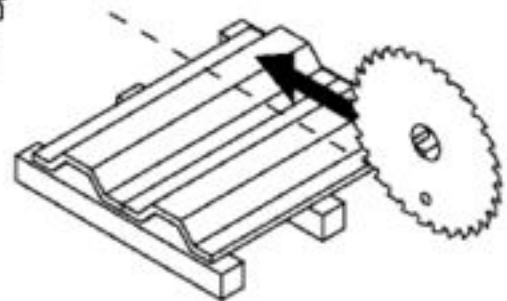
Pipes

Feed blade through object until it reaches lower edge, keeping blade at 90° angle.



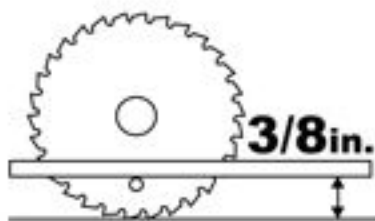
Flat Bar Iron

Feed blade at a 90° angle to the work surface.



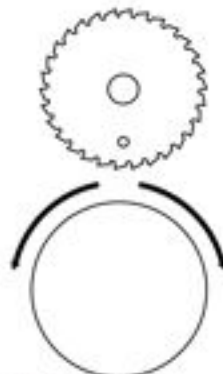
Shaped Plate

Rest plate on three mounts, making sure one is on either side of cut.



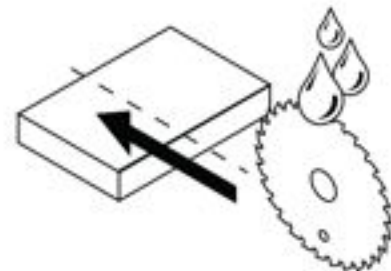
Thin Plate

Feed blade down about 3/8" and start cut.



Spiral Tube And Longitudinal Cutting

Feed blade through material so only about 3/8" shows through. Do not drive it as far as entire cutting edge.



Aluminum/Copper

Use Lubrication Unit whenever cutting aluminum or copper.

Limited Manufacturer Warranty

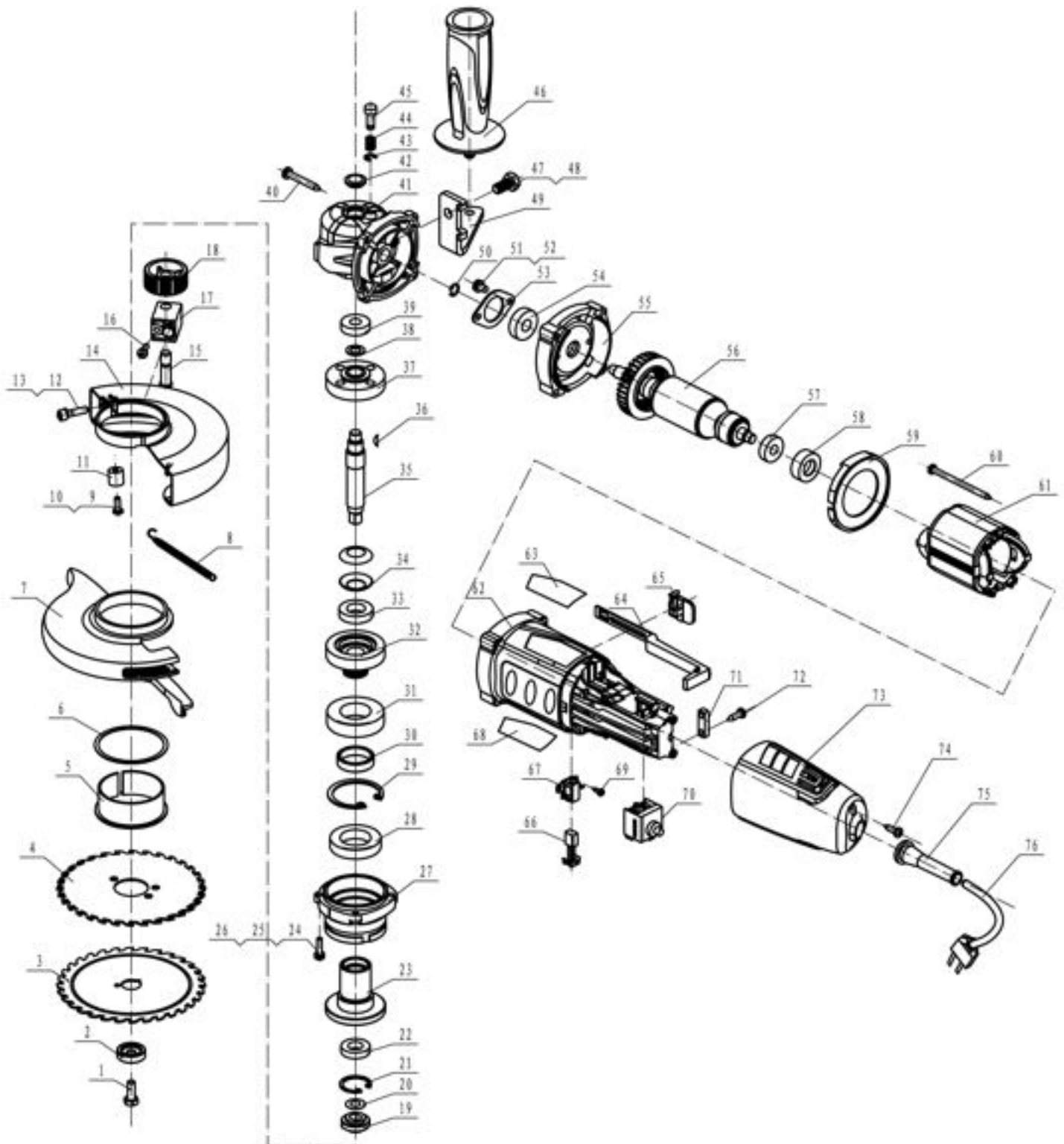
North American Tool (NAT) Industries makes every effort to ensure that this product meets high quality and durability standards. NAT warrants to the original retail consumer a 1-year limited warranty from the date the product was purchased at retail and each product is free from defects in materials. Warranty does not apply to defects due directly or indirectly to misuse, abuse, negligence or accidents, repairs or alterations, or a lack of maintenance. NAT shall in no event be liable for death, injuries to persons or property, or for incidental, special or consequential damages arising from the use of our products. To receive service under warranty, the original manufacturer part must be returned for examination by an authorized service center. Shipping and handling charges may apply. If a defect is found, NAT will either repair or replace the product at its discretion.

DO NOT RETURN TO STORE

For Customer Service:

Email: feedback@natitools.com or Call 1-800-348-5004

Parts List



Call 1-800-348-5004 for assistance or replacement parts

Please provide the following information:

- Model number
- Part description and number as shown in parts list
- Serial number (if any)

Address any correspondence to:

North American Tool Industries
84 Commercial Rd
Huntington, IN 46750

NO	Description	QTY
1	Bolt	1
2	Outer Flange	1
3	Saw Blade B	1
4	Saw Blade A	1
5	Guard Support	1
6	Guard Support Washer	1
7	Moving Guard	1
8	Spring	1
9	Bolt	1
10	Washer	1
11	Rubber Pin	1
12	Bolt	1
13	C Washer	11
14	Stationary Guard	1
15	Pin	1
16	Screw	1
17	Lubrication Unit	1
18	Lubrication Knob	1
19	Inner Flange	1
20	Washer	1
21	C Clip	1
22	Bearing	1
23	Shaft Sleeve	1
24	Bolt	4
25	C Washer	4
26	Washer	4
27	Gear Box Cover	1
28	Bearing	1
29	C Clip	1
30	Bearing Sleeve	1
31	Bearing	1
32	Gear Wheel Upper	1
33	Bearing	1
34	Flexible Washer	2
35	Shaft	1
36	Half Circle Key	1
37	Lower Gear	1
38	Washer	1

NO	Description	QTY
39	Bearing	1
40	Screw	4
41	Gear Box	1
42	Oil Cap	1
43	C Clip	1
44	Spring	1
45	Lock Pin	1
46	Front Handle	1
47	Bolt	1
48	C Washer	1
49	Front Handle Support	1
50	C Clip	1
51	Bolt	2
52	C Washer	2
53	Triangle Press Cover	1
54	Bearing	1
55	Middle Board	1
56	Rotor	1
57	Bearing	1
58	Bearing Sleeve	1
59	Motor Cover	1
60	Screw	2
61	Stator	1
62	Motor Housing	1
63	Label	1
64	Switch Lever	1
65	Switch	1
66	Carbon Brush	2
67	Brush Holder	2
68	Label	1
69	Screw	4
70	Internal Switch	1
71	Power Cable Clamp	1
72	Screw	2
73	Rear Housing	1
74	Screw	2
75	Power Cord Guard	1
76	Power Cord	1