

MODEL T23083 4" PNEUMATIC ANGLE GRINDER INSTRUCTION MANUAL



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This manual provides critical safety instructions on the proper setup, operation, maintenance, and service of this machine/tool. Save this document, refer to it often, and use it to instruct other operators.

Failure to read, understand and follow the instructions in this manual may result in fire or serious personal injury—including amputation, electrocution, or death.

The owner of this machine/tool is solely responsible for its safe use. This responsibility includes but is not limited to proper installation in a safe environment, personnel training and usage authorization, proper inspection and maintenance, manual availability and comprehension, application of safety devices, cutting/sanding/grinding tool integrity, and the usage of personal protective equipment.

The manufacturer will not be held liable for injury or property damage from negligence, improper training, machine modifications or misuse.



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, cement and other masonry products.
- 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.

SAFETY

AWARNING

For Your Own Safety Read Instruction Manual Before Operating This Equipment

The purpose of safety symbols is to attract your attention to possible hazardous conditions. This manual uses a series of symbols and signal words which are intended to convey the level of importance of the safety messages. The progression of symbols is described below. Remember that safety messages by themselves do not eliminate danger and are not a substitute for proper accident prevention measures.



Indicates an imminently hazardous situation which, if not avoided, WILL result in death or serious injury.

AWARNING

Indicates a potentially hazardous situation which, if not avoided, COULD result in death or serious injury.

ACAUTION

Indicates a potentially hazardous situation which, if not avoided, <u>MAY</u> result in minor or moderate injury. It may also be used to alert against unsafe practices.

NOTICE

This symbol is used to alert the user to useful information about proper operation of the equipment.

AWARNINGSafety Instructions For Pneumatic Tools

- READ THIS MANUAL. This tool may cause personal injury if used incorrectly. This manual contains proper safety and operating instructions that must be followed to reduce this risk.
- WEAR EYE PROTECTION. This
 tool may throw small fragments during operation, which may cause serious eye injury. Always wear ANSI
 approved safety glasses or face shield
 to reduce your risk from this hazard.
- WEAR A RESPIRATOR. This tool
 may produce fine dust during operation, which can cause respiratory
 injury if inhaled. Always wear a respirator NIOSH approved for the type of
 material being processed.
- 4. WEAR HEARING PROTECTION. Operating this tool for prolonged time periods may damage your hearing. Your risk depends on length and frequency of use. To reduce your risk of this hazard, wear hearing protection.
- 5. MAINTAIN SAFETY GUARDS. Your tool may be equipped with safety guards or other structural components designed to reduce the risk of injury during operation. Never modify or operate this tool with any guards or components removed or damaged.
- KEEP CHILDREN AWAY. Prevent children from injury by keeping them away from this tool. Disconnect and lock the tool away when not in use.

- 7. AVOID ENTANGLEMENTS. Do not wear loose clothing, gloves, neckties, rings, bracelets, or other jewelry, which may get caught in moving parts, when operating this tool. Wear a protective hair covering to contain long hair.
- USE CORRECT AIR PRESSURE.
 Exceeding the maximum PSI rating of this tool may cause unpredictable operation or bursting.
- DISCONNECT AIR PRESSURE
 before servicing, changing accessories, or moving to another location.
 Never leave this tool unattended
 when connected to air.
- **10. SECURE TOOLING.** Always verify tooling is secure before operation.
- 11. SHARP SURFACES. DO NOT place hands near the tooling surfaces when in operation.
- 12. REMOVE ADJUSTING KEYS AND WRENCHES AFTER USE. These tools become dangerous projectiles if left on the tool when it is started.
- 13. AVOID FLAMMABLES. Do not use this tool around any flammables that may be ignited by sparks.
- 14. SECURE WORK. Use clamps or a vise to hold work when practical. It is safer than using your hand and frees both hands to operate tool.
- 15. MAINTAIN TOOLS WITH CARE. Keep tools lubricated and clean for best and safest performance. Follow instructions for lubricating and changing accessories.

- **16. DO NOT FORCE TOOL.** It will do the job better and safer at the rate for which it was designed.
- 17. CHECK FOR DAMAGED PARTS BEFORE USING. Check for binding and alignment of parts, broken parts, part mounting, loose bolts, and any other conditions that may affect operation. Repair or replace damaged parts before operating.
- USE GOOD LIGHTING. Keep work area well lighted. Dark work areas increase risk of accidental injury.
- 19. AVOID UNINTENTIONAL OPERATION. Always disconnect air when not in use, and do not carry tool with hand on trigger.
- 20. USE THE RECOMMENDED ACCESSORIES. Consult owner's manual for recommended accessories. Using improper accessories may increase the risk of injury.
- 21. NEVER ALLOW UNTRAINED USERS TO USE THIS TOOL WHILE UNSUPERVISED.
- 22. IF YOU ARE UNSURE OF THE INTENDED OPERATION, STOP USING TOOL. Seek formal training or research books or magazines that specialize in pneumatic tools.
- 23. BE AWARE OF HOSE LOCATION. Hoses can easily become a tripping hazard when laid across the floor in a disorganized fashion.
- 24. DO NOT USE UNDER THE INFLUENCE OF DRUGS OR ALCOHOL, OR WHEN TIRED.

WARNING

Like all machinery there is potential danger when operating this machine. Accidents are frequently caused by lack of familiarity or failure to pay attention. Use this machine with respect and caution to lessen the possibility of operator injury. If normal safety precautions are overlooked or ignored, serious personal injury may occur.

INTRODUCTION

Foreword

The specifications, details, and photographs in this manual represent the Model T23083 as supplied when the manual was prepared. However, owing to Grizzly's policy of continuous improvement, changes may be made at any time with no obligation on the part of Grizzly.

If you have any comments regarding this manual, please write to us at the following address:

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Most importantly, we stand behind our tools. If you have any service questions or parts requests, please call or write us at the location listed below.

Grizzly Industrial, Inc.
1203 Lycoming Mall Circle
Muncy, PA 17756
Phone: (570) 546-9663
Fax: (800) 438-5901
E-Mail: techsupport@grizzly.com

ACAUTION

Web Site: http://www.grizzly.com

No list of safety guidelines is complete, because every work environment is different. Always consider safety first and use common sense. Failure to use this tool with caution and respect could result in serious personal injury.

Specifications

Arbor Speed Variable 0-11	1,000 RPM
Arbor Size	5% "-11
Grinding Wheel Diameter	4"
Grinding Wheel Bore	5/8"
Grinding Wheel Type	27
Air Inlet Port Size	1/4" NPT
Average Air Consumption	6 CFM
Maximum Air Pressure	90 PSI
Weight	3 lbs.

Inventory

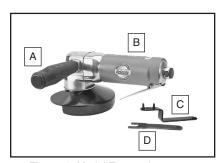


Figure 1. Model T23083 Inventory.

De	Description Qty			
A.	Handle	1		
В.	Angle Grinder Assembly w/Wheel	1		
C.	Flange Spanner Wrench	1		
D.	Arbor Wrench	1		

Assembly

Thread the handle into the housing, as shown in **Figure 1** above.

OPERATIONS



Read the manual before operation. Become familiar with this tool, its safety instructions, and its operation before beginning any work. Serious personal injury may result if safety or operational information is not understood or followed.

Changing Grinding Wheels

The Model T23083 uses Type 27, 4" grinding wheels with a 5%" bore. See the Grizzly catalog or *www.grizzly.com* for a complete listing of available grinding wheels.

AWARNING

An incorrect size or type of grinding wheel will not work properly with this grinder and could fly apart and cause operator injury. Always make sure to install only Type 27, 4" grinding wheels with a 5%" bore on this grinder.

To change the grinding wheel:

- DISCONNECT GRINDER FROM AIR!
- Position the arbor wrench on the arbor flats behind the inner arbor flange (see Figure 2).

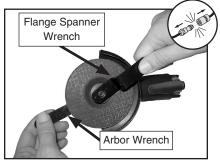


Figure 2. Loosening the outer arbor flange.

- Insert the prongs of the flange spanner wrench into the holes on the outer arbor flange, then rotate the flange counterclockwise to unthread it from the arbor.
- 4. Remove the grinding wheel.
- Use the wrenches to make sure the inner arbor flange is tight, then slide the replacement grinding wheel onto the arbor.
- 6. Make sure the protruding lip of the outer arbor flange is seated into the grinding wheel bore, then use the wrenches to fully tighten the flange and secure the grinding wheel.



HAZARD! Wear protective equipment when using this tool.

Using Grinder

Always test the grinder on a scrap piece of material similar to the workpiece. Trial and error is the best way to determine the ideal setup.

To use the grinder:

- Make sure the workpiece is securely held in a vise or a similar device that will ensure the workpiece does not unexpectedly move during operation.
- 2. Attach the grinder to an air supply set at 90 PSI.
- Hold the grinder securely, turn the grinder ON by depressing the trigger, then ease the grinding wheel against the workpiece with a light, but steady, pressure.

Note: Vary the grinding wheel speed by the pressure used on the trigger.

To turn the grinder *OFF*, release the trigger.

Note: To avoid accidental start up, disconnect the grinder from the air supply when it is not in use, and replace the protective cap into the air inlet port.



Daily Maintenance

The angle grinder MUST have 4-5 drops of pnure to the property of into the large transport of the large transport

These procedures should be done after each use:

- Wipe the grinding housing with a dry cloth, or blow off the dust and debris with compressed air.
- Check for damage to grinding wheels, hoses, housing, or other accessories.

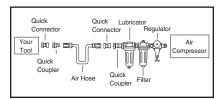
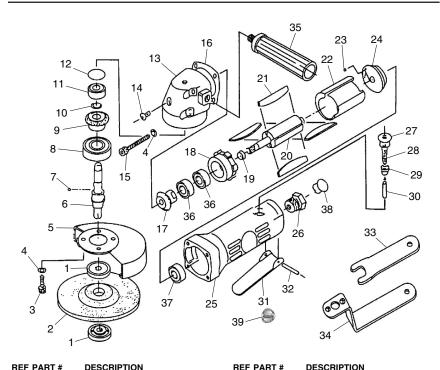


Figure 3. Installed filter lubricator regulator.

PARTS



NEF	FADI#	DESCRIPTION
1	PT23083001	ARBOR FLANGE
2	PT23083002	GRINDING WHEEL 4 X 5/8" TYPE 27
3	PCAP50M	CAP SCREW M58 X 10
4	PLW01M	LOCK WASHER 5MM
5	PT23083005	WHEEL GUARD
6	PT23083006	ARBOR 5/8"-11
7	PK122M	KEY 10 x 10 x 18
8	P6202-2RS	BALL BEARING 6202-2RS
9	PT23083009	BEVEL GEAR
10	PR45M	INT RETAINING RING 10MM
11	P608-2RS	BALL BEARING 608-2RS
12	PT23083012	SPACER
13	PT23083013	ANGLE HOUSING
14	PS68M	PHLP HD SCR M6-1 X 10
15	PCAP108M	CAP SCREW M58 X 45
16	PT23083016	HOUSING GASKET
17	PT23083017	PINION GEAR
18	PT23083018	ROTOR CYLINDER FRONT CAP
19	PT23083019	BEARING SPACER
20	PT23083020	ROTOR

REF	PART#	DESCRIPTION
21	PT23083021	ROTOR BLADE
22	PT23083022	ROTOR CYLINDER
23	PSTB007M	STEEL BALL 2.5MM
24	PT23083024	ROTOR CYLINDER REAR CAP
25	PT23083025	ROTOR HOUSING W/GRIP
26	PT23083026	AIR INLET PORT 1/4" NPT
27	PT23083027	VALVE CAP
28	PT23083028	COMPRESSION SPRING
29	PT23083029	VALVE SEAL RUBBER
30	PT23083030	VALVE STEM
31	PT23083031	TRIGGER
32	PRP16M	ROLL PIN 3 X 25
33	PT23083033	ARBOR WRENCH
34	PT23083034	FLANGE SPANNER WRENCH
35	PT23083035	HANDLE
36	P608-2RS	BALL BEARING 608-2RS
37	P608-2RS	BALL BEARING 608-2RS
38	PT23083038	AIR INLET PROTECTIVE CAP
39	PT23083039	GRIZZLY LOGO LABEL

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