

Grizzly *Industrial, Inc.*®

MODEL T23085 PNEUMATIC NIBBLER INSTRUCTION MANUAL



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#TS13542 PRINTED IN CHINA



WARNING!

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.



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, 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

WARNING

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.



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



Indicates a potentially hazardous situation which, if not avoided, **MAY** 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.

WARNING

Safety Instructions For Pneumatic Tools

- 1. 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.
- 2. 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.
- 3. 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.
- 6. 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.
8. **USE CORRECT AIR PRESSURE.** Exceeding the maximum PSI rating of this tool may cause unpredictable operation or bursting.
9. **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.
18. **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 T23085 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
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Phone: (570) 546-9663
Fax: (800) 438-5901
E-Mail: techsupport@grizzly.com
Web Site: <http://www.grizzly.com>

Specifications

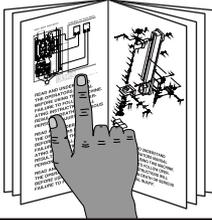
Maximum Gauge (Mild Steel)..... 16 Ga.
Strokes Per Minute..... 3800 SPM
Air Inlet Port..... 1/4" NPT
Air Hose Size..... 3/8" ID
Average Air Consumption 9.8 CFM
Recommended Air Pressure 90 PSI
Net Weight..... 2 lbs.

CAUTION

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.

OPERATIONS

⚠️ WARNING

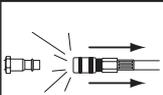


Read the manual before operation. Become familiar with this tool, its safety instructions, and its operation before beginning any work. Serious personal injury may result if safety or operational information is not understood or followed.

⚠️ WARNING



LUNG/EAR/HAND INJURY HAZARD!
Wear protective equipment when using this tool.



ACCIDENTAL START HAZARD!
Disconnect before service or tool changes.



AIR PRESSURE HAZARD!
Never exceed max PSI rating for tool.

Using Nibbler

Always test the nibbler on a scrap piece of material similar to the workpiece to determine the ideal setup.

To use the nibbler:

1. 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 nibbler to an air supply set at no more than 90 PSI.
3. Insert the workpiece into the blade sleeve slot (see **Figure 1**) against the blade, then depress the trigger as you guide the nibbler through the workpiece.

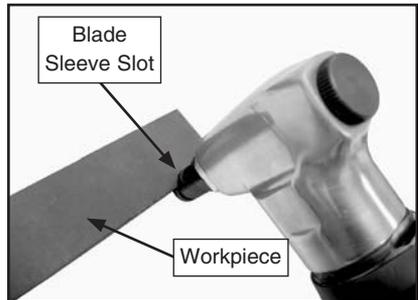


Figure 1. Workpiece inserted into the blade sleeve slot against the blade.

4. To turn the nibbler **OFF**, release the trigger.

Note: Avoid accidental startup by disconnecting the nibbler from the air supply when it is not in use and replacing the protective cap into the air inlet port.

Changing Nibbler Blade

With normal use, the cylindrical nibbler blade will wear to the point that it needs replacement. Contact Customer Service at (800) 523-4777 to order a replacement blade (Part Number PT23085033).

Tools Needed	Qty
Wrench 7/8"	1
Wrench 5/8"	1
Wrench 3/8"	1

To change the nibbler blade:

1. DISCONNECT NIBBLER FROM AIR!
2. Loosen the thin hex nut that secures the blade sleeve (see **Figure 2**).

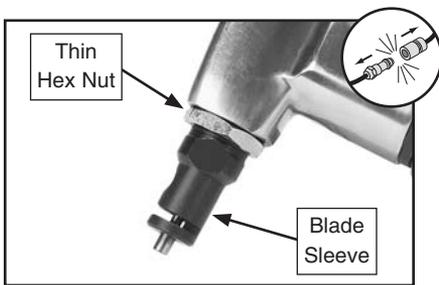


Figure 2. Identification of the thin hex nut and blade sleeve.

3. Unthread the blade sleeve from the housing, then unthread the base nut and remove the blade from the housing (see **Figure 3**).

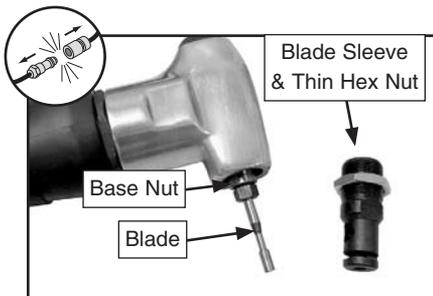


Figure 3. Blade components separated.

4. Slide the base nut off the old blade and onto the new blade, then insert the blade into the housing and secure it with the base nut.

Note: We recommend that you use a thread-locking compound on the threads of the blade base nut to ensure the blade does not come loose during operation.

5. Thread the blade sleeve into the housing so that the bottom part of the blade is aligned with the blade sleeve slot, as illustrated in **Figure 4**, then secure it in place by tightening the thin hex nut against the housing.

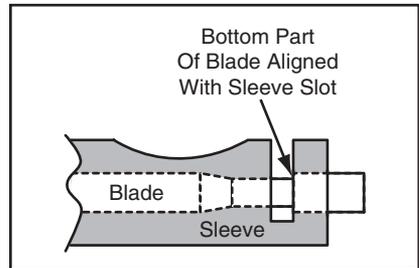


Figure 4. Bottom of blade properly aligned with the sleeve slot.

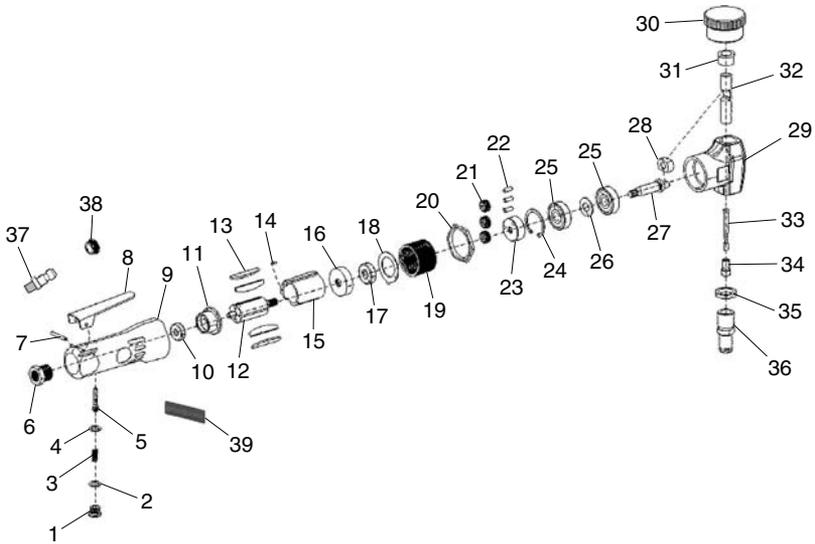
Lubrication

Frequency.....Before & After Each Use,
and After 2 Hours of Continuous Use
Lubrication.....Pneumatic Tool Oil
(SAE #10W)
Amount.....2-3 Drops

To lubricate the nibbler:

1. DISCONNECT NIBBLER FROM AIR!
2. Remove the quick disconnect fitting to add lubricant to the air inlet port.
3. Remove the threaded cap on top of the front housing to add lubricant to the blade components.

PARTS



REF PART #	DESCRIPTION
1	PT23085001 VALVE SCREW CAP
2	PT23085002 O-RING 2 X 9 X 13
3	PT23085003 COMPRESSION SPRING
4	PT23085004 O-RING 2 X 3 X 7
5	PT23085005 VALVE STEM
6	PT23085006 AIR INLET PORT 1/4" NPT
7	PRP16M ROLL PIN 3 X 25
8	PT23085008 TRIGGER
9	PT23085009 ROTOR HOUSING
10	P626ZZ BALL BEARING 626ZZ
11	PT23085011 ROTOR REAR END CAP
12	PT23085012 ROTOR
13	PT23085013 ROTOR BLADE
14	PT23085014 KEY 2 X 2 X 6
15	PT23085015 ROTOR CYLINDER
16	PT23085016 ROTOR FRONT END CAP
17	P608ZZ BALL BEARING 608ZZ
18	PT23085018 KEYED SPACER
19	PT23085019 GEAR SLEEVE
20	PT23085020 RETAINING NUT

REF PART #	DESCRIPTION
21	PT23085021 GEAR
22	PT23085022 GEAR DOWEL PIN
23	PT23085023 GEAR BRACKET
24	PT23085024 INT RETAINING RING
25	P6200ZZ BALL BEARING 6200ZZ
26	PT23085026 BEARING SPACER
27	PT23085027 DRIVE SHAFT
28	PT23085028 SHAFT CAM
29	PT23085029 FRONT HOUSING
30	PT23085030 LUBRICATION CAP
31	PT23085031 BUSHING
32	PT23085032 SLIDING SHAFT
33	PT23085033 BLADE
34	PT23085034 BLADE BASE NUT
35	PT23085035 THIN HEX NUT M18-2.5
36	PT23085036 BLADE SLEEVE
37	PT23085037 QUICK DISCONNECT 1/4" NPT
38	PT23085038 PROTECTIVE AIR INLET CAP
39	PT23085039 GRIZZLY LOGO LABEL

NOTICE

Parts diagram and listing are provided for maintenance and services purposes. Some parts may not be available for replacement.