MODEL
G0602/G0602Z/G0752/G0752Z
10" X 22" BENCHTOP LATHE
OWNER'S MANUAL
(For models manufactured since 03/20)
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.
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INTRODUCTION

Machine Description

The metal lathe is used to remove material from a rotating workpiece, which is held in place on the spindle with a chuck or faceplate. The cutting tool is mounted on the carriage or tailstock and moved against the spinning workpiece to perform the cut.

Models G0602/Z and G0752/Z all require setting gearbox dial positions and positioning V-belts to select the spindle speed. However, the Model G0752/Z features an electronic variable-speed control and digital RPM display that make it possible to select speeds within the selected range while the machine is running.

Model G0602Z and G0752Z are both identical to their non-"Z" counterparts, but the Z models are equipped with an included X/Z-Axis DRO.

Contact Info

We are proud to provide a high-quality owner’s manual with your new machine!

We made every effort to be exact with the instructions, specifications, drawings, and photographs in this manual. Sometimes we make mistakes, but our policy of continuous improvement also means that sometimes the machine you receive is slightly different than shown in the manual.

If you find this to be the case, and the difference between the manual and machine leaves you confused or unsure about something, check our website for an updated version. We post current manuals and manual updates for free on our website at www.grizzly.com.

Alternatively, you can call our Technical Support for help. Before calling, make sure you write down the Manufacture Date and Serial Number from the machine ID label (see below). This information is required for us to provide proper tech support, and it helps us determine if updated documentation is available for your machine.

Grizzly Technical Support
1815 W. Battlefield
Springfield, MO  65807
Phone: (570) 546-9663
Email: techsupport@grizzly.com

We want your feedback on this manual. What did you like about it? Where could it be improved? Please take a few minutes to give us feedback.

Grizzly Documentation Manager
P.O. Box 2069
Bellingham, WA  98227-2069
Email: manuals@grizzly.com

Manual Accuracy

Manufacture Date

Serial Number

We stand behind our machines! If you have questions or need help, contact us with the information below. Before contacting, make sure you get the serial number and manufacture date from the machine ID label. This will help us help you faster.

Grizzly Documentation Manager
P.O. Box 2069
Bellingham, WA  98227-2069
Email: manuals@grizzly.com
WARNING

Serious personal injury could occur if you connect the machine to power before completing the setup process. DO NOT connect power until instructed to do so later in this manual.

WARNING

Untrained users have an increased risk of seriously injuring themselves with this machine. Do not operate this machine until you have understood this entire manual and received proper training.

Figure 1. G0602/G0602Z identification.
Model G0752/G0752Z Identification

![Image of a lathe with labels for each part]

Figure 2. G0752/G0752Z identification.

A. Emergency Stop Button  
B. ON Button  
C. OFF Button  
D. Spindle Speed RPM Display  
E. Spindle Speed Dial  
F. Spindle Direction Switch  
G. X/Z-Axis Digital Readout (G0752Z Only)  
H. 3-Jaw Chuck  
I. Steady Rest  
J. 4-Way Tool Post  
K. Follow Rest  
L. Compound Rest Handwheel  
M. MT#3 Dead Center  
N. Tailstock  
O. Back Splash  
P. Chip Tray  
Q. Thread Dial  
R. Half Nut Lever  
S. Cross Slide Handwheel  
T. Carriage Handwheel  
U. Leadscrew  
V. Alpha Gearbox Dial  
W. Gearbox Oil Level Sight Glass  
X. Change Gear and Belt Safety Cover  
Y. Numeric Gearbox Dial

⚠️ WARNING ⚠️

Serious personal injury could occur if you connect the machine to power before completing the setup process. DO NOT connect power until instructed to do so later in this manual.

⚠️ WARNING ⚠️

Untrained users have an increased risk of seriously injuring themselves with this machine. Do not operate this machine until you have understood this entire manual and received proper training.
Controls & Components

Refer to Figures 3–8 and the following descriptions to become familiar with the basic controls of this lathe.

Model G0602/G0602Z Control Panel

A. Emergency STOP Button: Cuts power to the motor and control panel when pressed. Remains depressed until reset by twisting clockwise.

B. Spindle Switch: Starts, stops, and reverses spindle rotation.

C. ON Button: Enables spindle rotation.

D. OFF Button: Stops spindle rotation.

E. Spindle Speed RPM Display: Shows a digital readout of the spindle speed.

F. Spindle Speed Dial: Controls the variable spindle speed.

Quick Change Gearbox

G. Numeric Gearbox Dial: Controls the leadscrew for threading and feeding operations. To make a selection, rotate the dial to the corresponding number displayed on the threading or feed charts.

H. Alpha Gearbox Dial: Controls the leadscrew for threading and feeding operations. To make a selection, rotate the dial to the corresponding letter displayed on the threading or feed charts.

Figure 3. Model G0602 control panel.

Figure 4. Model G0752 control panel.

Figure 5. Gearbox dials.
Carriage

I. **4-Way Tool Post:** Holds up to four cutting tools at once that can be individually indexed to the workpiece.

J. **Compound Rest Handwheel:** Moves the tool toward and away from the workpiece at the preset angle of the compound rest.

K. **Carriage Lock:** Secures the carriage for greater rigidity when it should not move.

L. **Thread Dial:** Indicates when to engage the half nut during threading operations.

M. **Half Nut Lever:** Engages/disengages half nut for power feed and threading operations.

N. **Thread Chart:** Indicates which thread dial mark to use when engaging the half nut for specific inch thread pitches.

O. **Cross Slide Handwheel:** Moves the cross slide toward and away from the workpiece.

P. **Carriage Handwheel:** Moves the carriage along the bedway.

Q. **Tailstock Quill:** Moves a tool or center mounted in the tailstock toward or away from the workpiece.

R. **Tailstock Quill Lock Lever:** Secures the quill position.

S. **Tailstock Lock Nut:** Secures the tailstock to the bedway.

---

Tailstock

T. **Tailstock Quill Handwheel:** Controls the movement of the quill.

U. **Offset Scale:** Indicates the relative distance of tailstock offset from the spindle centerline.

V. **Tailstock Offset Set Screw (1 of 2):** Adjusts the tailstock offset left or right from the spindle centerline.

---

**Change Gears, Pulleys, V-Belt**

W. **Change Gears:** The configuration of the change gears for power feed, inch, and metric threading controls the leadscrew speed.

X. **Pulleys:** The position of the V-belt on the pulleys controls the spindle speed.

Y. **V-Belt:** Transfers power from the motor pulley to the spindle pulley. Model G0602 uses two V-belts. Model G0752 uses one V-belt.

Z. **Timing-Belt:** (G0602) Transfers power from the motor to the secondary drive pulley.
Model G0602Z/G0752Z
Digital Readout Components

Model G0602Z/G0752Z features a magnetically mounted DRO (see Figure 9) for X-axis (cross slide) and Z-axis (carriage) travel.

**Note:** When placing the DRO, locate all cables so they do not interfere with machine operation and cannot be pinched by moving components.

**AD. In/MM Button:** Toggles measurement display to either inches or millimeters.

**AE. ZERO Buttons:** Reset values at any point along the axis to 0.00.

**AF. Green Light:** Indicates inches or millimeters.

**AG. Magnetic Mount:** Adheres DRO to machine.

The X-axis and Z-axis scales are attached to the cross slide and bed (respectively). Shielded cables run from each sensor to plugs on the back of the DRO (see Figure 11). The DRO connects to a regular 110V power supply with a dedicated power cord using a NEMA 1-15 plug.

**Figure 9.** DRO magnetically mounted on lathe headstock.

**Figure 10.** DRO controls and display.

**AA. Digital Readout:** Displays current position of X-axis and Z-axis in hundredths of a millimeter or thousandths of an inch. (Included Y-axis display line is not used on G0602Z or G0752Z.)

**AB. "X" Value:** Displays total X-axis travel from zero along cross slide.

**AC. "Z" Value:** Displays total Z-axis travel from zero along lathe bed.
# MACHINE DATA SHEET

**MODEL G0602/G0602Z, G0752/G0752Z**
**10" x 22" Bench Top Metal Lathe**

<table>
<thead>
<tr>
<th>Model Number</th>
<th>G0602</th>
<th>G0602Z</th>
<th>G0752/G0752Z</th>
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<td><strong>Product Dimensions</strong></td>
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<td>46&quot; x 22&quot; x 21&quot;</td>
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<td>Bearings</td>
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<td><strong>Operation Information</strong></td>
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<td>Swing Over Bed</td>
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<td>Swing Over Saddle</td>
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<td>Carriage Travel</td>
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<td>G0602Z</td>
<td>G0752</td>
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<td><strong>Headstock Information</strong></td>
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<tr>
<td>Leadscrew Diameter</td>
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<td>Leadscrew Length</td>
<td>34&quot;</td>
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<tr>
<td>Steady Rest Capacity</td>
<td>¼&quot; – 2&quot;</td>
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<tr>
<td>Follow Rest Capacity</td>
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<td>Faceplate Size</td>
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<tr>
<td><strong>Construction</strong></td>
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<tr>
<td>Base</td>
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<td>Bed</td>
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<td>Stand</td>
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<tr>
<td>Approximate Assembly &amp; Setup Time</td>
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</tbody>
</table>
For Your Own Safety, Read Instruction Manual Before Operating This Machine

The purpose of safety symbols is to attract your attention to possible hazardous conditions. This manual uses a series of symbols and signal words 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. Always use common sense and good judgment.

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

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

⚠️ CAUTION 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 Alerts the user to useful information about proper operation of the machine to avoid machine damage.

Safety Instructions for Machinery

⚠️ WARNING

OWNER’S MANUAL. Read and understand this owner’s manual BEFORE using machine.

TRAINED OPERATORS ONLY. Untrained operators have a higher risk of being hurt or killed. Only allow trained/supervised people to use this machine. When machine is not being used, disconnect power, remove switch keys, or lock-out machine to prevent unauthorized use—especially around children. Make your workshop kid proof!

DANGEROUS ENVIRONMENTS. Do not use machinery in areas that are wet, cluttered, or have poor lighting. Operating machinery in these areas greatly increases the risk of accidents and injury.

MENTAL ALERTNESS REQUIRED. Full mental alertness is required for safe operation of machinery. Never operate under the influence of drugs or alcohol, when tired, or when distracted.

ELECTRICAL EQUIPMENT INJURY RISKS. You can be shocked, burned, or killed by touching live electrical components or improperly grounded machinery. To reduce this risk, only allow qualified service personnel to do electrical installation or repair work, and always disconnect power before accessing or exposing electrical equipment.

DISCONNECT POWER FIRST. Always disconnect machine from power supply BEFORE making adjustments, changing tooling, or servicing machine. This prevents an injury risk from unintended startup or contact with live electrical components.

EYE PROTECTION. Always wear ANSI-approved safety glasses or a face shield when operating or observing machinery to reduce the risk of eye injury or blindness from flying particles. Everyday eyeglasses are NOT approved safety glasses.
**WARNING**

WEARING PROPER APPAREL. Do not wear clothing, apparel or jewelry that can become entangled in moving parts. Always tie back or cover long hair. Wear non-slip footwear to reduce risk of slipping and losing control or accidentally contacting cutting tool or moving parts.

HAZARDOUS DUST. Dust created by machinery operations may cause cancer, birth defects, or long-term respiratory damage. Be aware of dust hazards associated with each workpiece material. Always wear a NIOSH-approved respirator to reduce your risk.

HEARING PROTECTION. Always wear hearing protection when operating or observing loud machinery. Extended exposure to this noise without hearing protection can cause permanent hearing loss.

REMOVE ADJUSTING TOOLS. Tools left on machinery can become dangerous projectiles upon startup. Never leave chuck keys, wrenches, or any other tools on machine. Always verify removal before starting!

USE CORRECT TOOL FOR THE JOB. Only use this tool for its intended purpose—do not force it or an attachment to do a job for which it was not designed. Never make unapproved modifications—modifying tool or using it differently than intended may result in malfunction or mechanical failure that can lead to personal injury or death!

AWKWARD POSITIONS. Keep proper footing and balance at all times when operating machine. Do not overreach! Avoid awkward hand positions that make workpiece control difficult or increase the risk of accidental injury.

CHILDREN & BYSTANDERS. Keep children and bystanders at a safe distance from the work area. Stop using machine if they become a distraction.

GUARDS & COVERS. Guards and covers reduce accidental contact with moving parts or flying debris. Make sure they are properly installed, undamaged, and working correctly BEFORE operating machine.

FORCING MACHINERY. Do not force machine. It will do the job safer and better at the rate for which it was designed.

NEVER STAND ON MACHINE. Serious injury may occur if machine is tipped or if the cutting tool is unintentionally contacted.

STABLE MACHINE. Unexpected movement during operation greatly increases risk of injury or loss of control. Before starting, verify machine is stable and mobile base (if used) is locked.

USE RECOMMENDED ACCESSORIES. Consult this owner’s manual or the manufacturer for recommended accessories. Using improper accessories will increase the risk of serious injury.

UNATTENDED OPERATION. To reduce the risk of accidental injury, turn machine OFF and ensure all moving parts completely stop before walking away. Never leave machine running while unattended.

MAINTAIN WITH CARE. Follow all maintenance instructions and lubrication schedules to keep machine in good working condition. A machine that is improperly maintained could malfunction, leading to serious personal injury or death.

DAMAGED PARTS. Regularly inspect machine for damaged, loose, or mis-adjusted parts—or any condition that could affect safe operation. Immediately repair/replace BEFORE operating machine. For your own safety, DO NOT operate machine with damaged parts!

MAINTAIN POWER CORDS. When disconnecting cord-connected machines from power, grab and pull the plug—NOT the cord. Pulling the cord may damage the wires inside. Do not handle cord/plug with wet hands. Avoid cord damage by keeping it away from heated surfaces, high traffic areas, harsh chemicals, and wet/damp locations.

EXPERIENCING DIFFICULTIES. If at any time you experience difficulties performing the intended operation, stop using the machine! Contact our Technical Support at (570) 546-9663.
Additional Safety for Metal Lathes

⚠️ WARNING

Serious injury or death can occur from getting entangled in, crushed between, or struck by rotating parts on a lathe! Unsecured tools or workpieces that fly loose from rotating objects can also strike nearby operators with deadly force. To minimize the risk of getting hurt or killed, anyone operating this machine MUST completely heed the hazards and warnings below.

CLOTHING, JEWELRY & LONG HAIR. Tie back long hair, remove jewelry, and do not wear loose clothing or gloves. These can easily get caught on rotating parts and pull you into lathe.

SECURE WORKPIECE. An improperly secured workpiece can fly off spindle with deadly force. Make sure workpiece is properly secured before starting the lathe.

ROTATING PARTS. Always keep hands and body at a safe distance from rotating parts—especially those with projecting surfaces. Never hold anything against rotating workpiece, such as emery cloth, that can pull you into lathe.

CHUCKS. Chucks can be heavy and difficult to hold. During installation and removal, protect your hands and precision bed ways by using a chuck cradle or piece of plywood over the bed ways. Use lifting equipment, as necessary, for large chucks.

GUARDING. Guards and covers protect against entanglement or flying objects. Always ensure they are properly installed while machine is running.

STOPPING SPINDLE. Always allow spindle to completely stop on its own, or use a brake, if provided. Never put hands or another object on a spinning workpiece to make it stop faster.

ADJUSTMENT TOOLS. Remove all chuck keys, wrenches, and adjustment tools before turning lathe ON. A tool left on the lathe can become a deadly projectile when spindle is started.

CRASHING. A serious explosion of metal parts can occur if cutting tool or other lathe component hits rotating chuck or a projecting part of workpiece. Resulting metal fragments can strike nearby people and lathe will be seriously damaged. To reduce risk of crashing, ALWAYS release automatic feeds after use, NEVER leave lathe unattended, and CHECK all clearances before starting lathe.

SAFE CLEARANCES. Before starting spindle, verify workpiece has adequate clearance by hand-rotating it through its entire range of motion.

COOLANT SAFETY. Coolant can become very toxic through prolonged use and aging. To minimize toxicity, change coolant regularly. When using, position nozzle properly to avoid splashing operator or causing a slipping hazard on floor.

NEW SETUPS. Test each new setup by starting spindle rotation at the lowest speed and standing to the side of the lathe until workpiece reaches full speed and you can verify safe rotation.

TOOL SELECTION. Cutting with incorrect or dull tooling increases risk of injury from broken or dislodged components, or as a result of extra force required for operation. Always use sharp tooling that is right for the job.

SPINDLE SPEEDS. Using spindle speeds that are too fast for the workpiece or clamping equipment can cause rotating parts to come loose and strike nearby people with deadly force. Always use slow spindle speeds with large or non-concentric workpieces. Never exceed rated RPM of the chuck.

LONG STOCK SAFETY. Long stock can whip violently if not properly supported. Always support any stock that extends from the chuck/headstock more than three times its own diameter.

SANDING/POLISHING. To reduce risk of entanglement, never wrap emery cloth around rotating workpiece. Instead, use emery cloth with the aid of a tool or backing board.

SAFE CLEARANCES. Before starting spindle, verify workpiece has adequate clearance by hand-rotating it through its entire range of motion.

MEASURING WORKPIECE. To reduce risk of entanglement, never measure rotating workpieces.

CLEARING CHIPS. Metal chips can be razor sharp. Avoid clearing them by hand or with a rag. Use a brush or vacuum instead.
Glossary of Terms

The following is a list of common definitions, terms and phrases used throughout this manual as they relate to this lathe and metalworking in general. Become familiar with these terms for assembling, adjusting or operating this machine. Your safety is VERY important to us at Grizzly!

Arbor: A machine shaft that supports a cutting tool.

Backlash: Wear in a screw or gear mechanism that may result in slippage, vibration, and loss of tolerance.

Carriage: A main housing that consists of the apron and the saddle.

Cross Slide: A fixture attached to the lathe carriage that holds the compound rest and can be moved in and out.

Compound Rest: A fixture attached to the cross slide that holds the tool holder and can be moved in and out.

Cutting Speed: The distance a point on a cutter moves in one minute, expressed in meters or feet per minute.

Dial Indicator: An instrument used in setup and inspection work that shows on a dial the amount of error in size or alignment of a part.

Facing: In lathe work, cutting across the end of a workpiece, usually to machine a flat surface.

Feed: The movement of a cutting tool into a workpiece.

Fixture: A device that securely holds the workpiece in place during cutting operation as opposed to a jig which is used to hold and guide a workpiece through an operation.

Gib: A tapered wedge located along a sliding member to take up wear or to ensure a proper fit.

Headstock: The major lathe component that houses the spindle and motor drive system to turn the workpiece.

Lathe Center: A lathe accessory with a 60° point which is inserted into the headstock or tailstock of the lathe and is used to support the workpiece.

Leadscrew: Lathe—The long screw that is driven by the change gears and supplies power to the carriage.

Saddle: The upper portion of carriage that rides on the lathe ways and supports the cross feed and the follow rest.

Spindle: The revolving shaft that holds and drives the workpiece or cutting tool.

Tailstock: A moveable fixture opposite of the headstock on a lathe that has a spindle used to support one end of a workpiece and for holding tools.

Tool Post: The part of the compound rest that holds the tool holder.

Turret: Lathe—A machine fixture that holds multiple tools and can be revolved and indexed to position.

Ways: The precision machined and flat tracks on a lathe on which the carriage and tailstock slide.
SECTION 2: POWER SUPPLY

Availability
Before installing the machine, consider the availability and proximity of the required power supply circuit. If an existing circuit does not meet the requirements for this machine, a new circuit must be installed. To minimize the risk of electrocution, fire, or equipment damage, installation work and electrical wiring must be done by an electrician or qualified service personnel in accordance with all applicable codes and standards.

⚠️ WARNING
Electrocution, fire, shock, or equipment damage may occur if machine is not properly grounded and connected to power supply.

Full-Load Current Rating
The full-load current rating is the amperage a machine draws at 100% of the rated output power. On machines with multiple motors, this is the amperage drawn by the largest motor or sum of all motors and electrical devices that might operate at one time during normal operations.

G0602/G0602Z Full-Load Rating .......... 13.6A
G0752/G0752Z Full-Load Rating .......... 12A

The full-load current is not the maximum amount of amps that the machine will draw. If the machine is overloaded, it will draw additional amps beyond the full-load rating.

If the machine is overloaded for a sufficient length of time, damage, overheating, or fire may result—especially if connected to an undersized circuit. To reduce the risk of these hazards, avoid overloading the machine during operation and make sure it is connected to a power supply circuit that meets the specified circuit requirements.

⚠️ WARNING
Serious injury could occur if you connect machine to power before completing setup process. DO NOT connect to power until instructed later in this manual.

110V Circuit Requirements
This machine is prewired to operate on a power supply circuit that has a verified ground and meets the following requirements:

Nominal Voltage ....................... 110V/120V
Cycle ............................................. 60 Hz
Phase ............................................. Single-Phase
Minimum Circuit Size (G0602/Z) ....... 20 Amps
Minimum Circuit Size (G0752/Z) ........ 15 Amps

A power supply circuit includes all electrical equipment between the breaker box or fuse panel in the building and the machine. The power supply circuit used for this machine must be sized to safely handle the full-load current drawn from the machine for an extended period of time. (If this machine is connected to a circuit protected by fuses, use a time delay fuse marked D.)

⚠️ CAUTION
For your own safety and protection of property, consult an electrician if you are unsure about wiring practices or electrical codes in your area.

Note: Circuit requirements in this manual apply to a dedicated circuit—where only one machine will be running on the circuit at a time. If machine will be connected to a shared circuit where multiple machines may be running at the same time, consult an electrician or qualified service personnel to ensure circuit is properly sized for safe operation.
Grounding & Plug Requirements
This machine MUST be grounded. In the event of certain malfunctions or breakdowns, grounding reduces the risk of electric shock by providing a path of least resistance for electric current.

This machine is equipped with a power cord that has an equipment-grounding wire and a grounding plug. Only insert plug into a matching receptacle (outlet) that is properly installed and grounded in accordance with all local codes and ordinances. DO NOT modify the provided plug!

Improper connection of the equipment-grounding wire can result in a risk of electric shock. The wire with green insulation (with or without yellow stripes) is the equipment-grounding wire. If repair or replacement of the power cord or plug is necessary, do not connect the equipment-grounding wire to a live (current carrying) terminal.

Check with a qualified electrician or service personnel if you do not understand these grounding requirements, or if you are in doubt about whether the tool is properly grounded. If you ever notice that a cord or plug is damaged or worn, disconnect it from power, and immediately replace it with a new one.

Extension Cords
We do not recommend using an extension cord with this machine. If you must use an extension cord, only use it if absolutely necessary and only on a temporary basis.

Extension cords cause voltage drop, which can damage electrical components and shorten motor life. Voltage drop increases as the extension cord size gets longer and the gauge size gets smaller (higher gauge numbers indicate smaller sizes).

Any extension cord used with this machine must be in good condition and contain a ground wire and matching plug/receptacle. Additionally, it must meet the following size requirements:

Minimum Gauge Size ...................... 14 AWG
Maximum Length (Shorter is Better) ....... 50 ft.
SECTION 3: SETUP

Unpacking

This machine was carefully packaged for safe transport. When unpacking, separate all enclosed items from packaging materials and inspect them for shipping damage. **If items are damaged, please call us immediately at (570) 546-9663.**

**IMPORTANT:** Save all packaging materials until you are completely satisfied with the machine and have resolved any issues between Grizzly or the shipping agent. **You MUST have the original packaging to file a freight claim. It is also extremely helpful if you need to return your machine later.**

⚠️ 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 decrease the risk of operator injury. If normal safety precautions are overlooked or ignored, serious personal injury may occur.

⚠️ CAUTION ⚠️

No list of safety guidelines can be complete. Every shop environment is different. Always consider safety first, as it applies to your individual working conditions. Use this and other machinery with caution and respect. Failure to do so could result in serious personal injury, damage to equipment, or poor work results.

Needed for Setup

The following are needed to complete the setup process, but are not included with your machine.

<table>
<thead>
<tr>
<th>Description</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Additional People</td>
<td>1</td>
</tr>
<tr>
<td>Safety Glasses</td>
<td>1 For Each Person</td>
</tr>
<tr>
<td>Cleaner/Degreaser</td>
<td>As Needed</td>
</tr>
<tr>
<td>Quality Metal Protectant</td>
<td>As Needed</td>
</tr>
<tr>
<td>Disposable Shop Rags</td>
<td>As Needed</td>
</tr>
<tr>
<td>Precision Level</td>
<td>1</td>
</tr>
<tr>
<td>Lifting Straps (rated for at least 500 lbs.)</td>
<td>2</td>
</tr>
<tr>
<td>Forklift/Power Lifting Device (rated for at least 500 lbs.)</td>
<td>1</td>
</tr>
<tr>
<td>Bench Mounting Hardware</td>
<td>As Needed</td>
</tr>
</tbody>
</table>

Model G0602/Z, G0752/Z (Mfd. Since 03/20)
Inventory

The following is a list of items shipped with your machine. Before beginning setup, lay these items out and inventory them.

If any non-proprietary parts are missing (e.g. a nut or a washer), we will gladly replace them; or for the sake of expediency, replacements can be obtained at your local hardware store.

Installed Components (Figure 14)  
A. 5" Three-Jaw Chuck.......................... 1  
B. Steady Rest...................................... 1  
C. Follow Rest..................................... 1  
D. 4-Way Tool Post ............................... 1  
E. Compound Rest .................................. 1  
F. Tailstock........................................ 1

Figure 14. Installed components.

Packaged Components (Figure 15)  
G. Chip Pan (Not Shown)......................... 1  
H. Hex Wrench Set (2.5, 3, 4, 5, 6 mm)........ 1 Ea  
I. Toolbox.......................................... 1  
J. 8" Faceplate..................................... 1  
K. 6½" 4-Jaw Independent Chuck ................. 1  
L. Low Range Belt 27½" (G0602)................ 1  
    High Range Belt 33" (Installed, G0602).... 1  
    V-Belt 33" (Installed, G0752)................. 1  
M. Spanner Wrench................................ 1  
N. #2 Phillips and Standard Screwdriver ....... 1 Ea  
O. Wrench Set (8/10, 12/14, 19/17 mm)....... 1 Ea  
P. 3-Jaw Chuck Internal Jaw Set............... 1  
Q. 3-Jaw Chuck Key................................ 1  
R. 4-Jaw Chuck Key................................ 1  
S. Oil Bottle for Oil............................. 1  
T. Cross Slide Handwheel Handle.............. 1  
U. Carriage Handwheel Handle.................. 1  
V. Dead Centers MT#3.......................... 2  
W. Dead Center MT#4......................... 1  
X. Change Gear Set............................. 1  
    — Change Gear (27-tooth, Installed)....... 1  
    — Change Gear (36-tooth)................... 1  
    — Change Gear (40-tooth)................... 1  
    — Change Gear (44-tooth)................... 1  
    — Change Gear (45-tooth)................... 1  
    — Change Gear (46-tooth)................... 1  
    — Change Gear (48-tooth)................... 1  
    — Change Gear (52-tooth)................... 1  
    — Change Gear (56-tooth, Installed)....... 1  
    — Change Gear (60-tooth)................... 1  
    — Plastic Drive Gear (60-tooth, Installed) 1  
    — Change Gear (104-tooth, Installed).... 1  
    — Change Gear (120-tooth).................. 1  
    — Change Gear (127-tooth, Installed).... 1  
Y. Frequency Drive Manual VFD-E (G0752, Not  
    Shown)........................................ 1  

Figure 15. Packaged components.

NOTICE

If you cannot find an item on this list, carefully check around/inside the machine and packaging materials. Often, these items get lost in packaging materials while unpacking or they are pre-installed at the factory.
Cleanup

The unpainted surfaces of your machine are coated with a heavy-duty rust preventative that prevents corrosion during shipment and storage. This rust preventative works extremely well, but it will take a little time to clean.

Be patient and do a thorough job cleaning your machine. The time you spend doing this now will give you a better appreciation for the proper care of your machine’s unpainted surfaces.

There are many ways to remove this rust preventative, but the following steps work well in a wide variety of situations. Always follow the manufacturer’s instructions with any cleaning product you use and make sure you work in a well-ventilated area to minimize exposure to toxic fumes.

Before cleaning, gather the following:
- Disposable rags
- Cleaner/degreaser (WD•40 works well)
- Safety glasses & disposable gloves
- Plastic paint scraper (optional)

Basic steps for removing rust preventative:

1. Put on safety glasses.

2. Coat the rust preventative with a liberal amount of cleaner/degreaser, then let it soak for 5–10 minutes.

3. Wipe off the surfaces. If your cleaner/degreaser is effective, the rust preventative will wipe off easily. If you have a plastic paint scraper, scrape off as much as you can first, then wipe off the rest with the rag.

4. Repeat Steps 2–3 as necessary until clean, then coat all unpainted surfaces with a quality metal protectant to prevent rust.

Gasoline and petroleum products have low flash points and can explode or cause fire if used to clean machinery. Avoid using these products to clean machinery.

Many cleaning solvents are toxic if inhaled. Only work in a well-ventilated area.

Avoid harsh solvents like acetone or brake parts cleaner that may damage painted surfaces. Always test on a small, inconspicuous location first.

T23692—Orange Power Degreaser
A great product for removing the waxy shipping grease from the non-painted parts of the machine during clean up.

Call 1-800-523-4777 To Order
Site Considerations

Weight Load
Refer to the Machine Data Sheet for the weight of your machine. Make sure that the surface upon which the machine is placed will bear the weight of the machine, additional equipment that may be installed on the machine, and the heaviest workpiece that will be used. Additionally, consider the weight of the operator and any dynamic loading that may occur when operating the machine.

Space Allocation
Consider the largest size of workpiece that will be processed through this machine and provide enough space around the machine for adequate operator material handling or the installation of auxiliary equipment. With permanent installations, leave enough space around the machine to open or remove doors/covers as required by the maintenance and service described in this manual. See below for required space allocation.

Physical Environment
The physical environment where the machine is operated is important for safe operation and longevity of machine components. For best results, operate this machine in a dry environment that is free from excessive moisture, hazardous chemicals, airborne abrasives, or extreme conditions. Extreme conditions for this type of machinery are generally those where the ambient temperature range exceeds 41°–104°F; the relative humidity range exceeds 20%–95% (non-condensing); or the environment is subject to vibration, shocks, or bumps.

Electrical Installation
Place this machine near an existing power source. Make sure all power cords are protected from traffic, material handling, moisture, chemicals, or other hazards. Make sure to leave enough space around machine to disconnect power supply or apply a lockout/tagout device, if required.

Lighting
Lighting around the machine must be adequate enough that operations can be performed safely. Shadows, glare, or strobe effects that may distract or impede the operator must be eliminated.

Figure 16. Minimum working clearances.
Lifting & Placing

WARNING
HEAVY LIFT!
Straining or crushing injury may occur from improperly lifting machine or some of its parts. To reduce this risk, get help from other people and use a forklift (or other lifting equipment) rated for weight of this machine.

Do not attempt to lift or move this lathe without using the proper lifting equipment (such as forklift or crane) or the necessary assistance from other people. Refer to Needed for Setup on Page 16 for details.

To lift and move the lathe:

1. Remove the shipping crate top and sides, then remove the chip pan, 4-jaw chuck, face-plate, and toolbox from the shipping pallet.

2. Position the chip pan on the selected mounting surface and use it as a template to mark the hole locations for the mounting hardware (refer to Leveling & Mounting on Page 21).

3. Unbolt the lathe from the shipping pallet.

4. To balance the load for lifting, move the tailstock and carriage to the extreme right end of the bedway, then lock them in place.

   Note: Before attempting to move the carriage, make sure the carriage lock is loose and the half nut is disengaged.

5. Wrap the lifting straps around the bed and between the leadscrew and the bedway, as shown in Figure 17, to help prevent bending the leadscrew during lifting.

Figure 17. Example of lifting strap positions.

6. Attach the lifting straps to the power lifting equipment, have an assistant steady the load, then lift it just enough to clear any obstacles and move it to its mounting position.

7. Properly mount the lathe as instructed in the Mounting subsection on Page 21.
Leveling & Mounting

**NOTICE**
For accurate turning results and to prevent warping the cast iron bed and ways, the lathe bedways MUST be leveled from side-to-side and from front-to-back on both ends.

Re-check the bedways 24 hours after installation, two weeks after that, and then annually to make sure they remain level.

**Leveling**
Leveling machinery helps precision components, such as bedways, remain straight and flat during the lifespan of the machine. Components on a machine that is not level may slowly twist due to the dynamic loads placed on the machine during operation.

For best results, use a precision level that is at least 12" long and sensitive enough to show a distinct movement when a 0.003" shim (approximately the thickness of one sheet of standard newspaper) is placed under one end of the level.

See the figure below for an example of a high precision level.

**Mounting**
The chip pan and the base of the lathe have holes that allow the machine to be mounted to a workbench. You MUST mount your machine to a workbench to prevent it from unexpectedly moving during operation, which could lead to personal injury or property damage.

Follow these guidelines when mounting your lathe to ensure safe and accurate cutting results:

- Make sure that the workbench can adequately support the weight of the machine and materials and that it will not move or vibrate during operation.

- Use a silicon sealant between the lathe and the chip pan to prevent coolant or other fluids from leaking through onto the bench or floor.

To mount the lathe and chip pan to the workbench, drill holes all the way through the workbench, and use hex bolts, washers, and hex nuts to secure the lathe to the workbench, as illustrated in Figure 19.

---

**Figure 18.** Grizzly Model H2683 12" Master Machinist's Level.

**Figure 19.** Example of a through mount setup.
Assembly

With the exception of the handwheel handles, the lathe is shipped fully assembled.

To install the handwheel handles, thread the large handle into the carriage handwheel and the small handle into the cross slide handwheel, as shown in Figure 20.

![Figure 20. Handwheel handles installed.]

Lubricating Lathe

The lathe must be properly lubricated before it can be operated for the first time.

Damage caused to the bearings and gears from running the lathe without oil in the reservoirs will not be covered under warranty. Refer to the Lubrication section, beginning on Page 52, for details on how to lubricate the lathe.

Power Connection

Before the machine can be connected to the power source, an electrical circuit and connection device must be prepared per the POWER SUPPLY section in this manual, and all previous setup instructions in this manual must be completed to ensure that the machine has been assembled and installed properly.

Connecting Power

Always make sure the spindle direction switch on the front of the headstock is turned OFF (middle position) before connecting power.

Insert the power cord plug into a matching power supply receptacle.

Disconnecting Power

If you need to disconnect the machine from power for maintenance, service, or adjustments, turn the machine off and pull the plug completely out of the receptacle.

Test Run

Once the assembly is complete, test run your machine to make sure it runs properly and is ready for regular operation.

The test run consist of verifying the following: 1) The motor powers up and runs correctly, 2) the emergency STOP button safety feature works correctly.

If, during the test run, you cannot easily locate the source of an unusual noise or vibration, stop using the machine immediately, then review Troubleshooting on Page 57.

If you still cannot remedy a problem, contact our Tech Support at (570) 546-9663 for assistance.
To test run your machine:

1. Make sure the spindle direction switch (see Figure 21) is turned to STOP, and press the emergency STOP button.

![Figure 21. Headstock and gearbox controls.](image)

2. Read and follow the safety instructions at the beginning of the manual, take all required safety precautions, and make sure all previous preparation steps discussed in this manual have been followed and completed.

3. Clear away all tools and objects used during assembly, lubrication, and preparation.

4. Make sure chuck and jaws, if installed, are secure (see Chuck Installation on Page 27).

   **Note:** If a chuck is not installed on the lathe, you do not need to install one for this test.

5. Set lathe spindle speed for 150 RPM, (refer to Setting Spindle Speed on Page 42).

6. Disengage the half nut with the lever shown in Figure 22.

   ![Figure 22. Half nut lever in the disengaged position.](image)

7. Reset the emergency STOP button by twisting it clockwise until it pops out.

8. **G0752 Only:** Ensure the spindle speed dial is turned all the way counterclockwise.

   Push the green ON button, then turn the spindle direction switch to FWD. Turn the spindle speed dial until the spindle speed display shows 150 RPM. The spindle should be rotating counterclockwise—down and toward you as you face the lathe.

   **G0602:** Push the green ON button, then turn the spindle direction switch to FWD. The spindle should be rotating counterclockwise—down and toward you as you face the lathe.

9. Push the emergency STOP button to turn the lathe OFF, then, without resetting the STOP button, try to restart spindle rotation. The spindle should **not** start.

   —If spindle rotation **does** start with the emergency STOP button pressed in, the button is not operating correctly. This safety feature must operate properly before continuing operation. Use the spindle direction switch to stop the lathe, disconnect it from power, and call Tech Support for help.

Congratulations! The test run is complete. Turn the lathe OFF and perform the following Spindle Break-In procedure.
Before subjecting the lathe to full loads, it is essential to complete the spindle break-in process. This will ensure the best results and maximum life of the precision components inside the lathe.

The break-in procedure must be performed in succession with the Test Run procedure because many of the test run steps prepare the lathe controls for the break-in process.

**Important:** Do not perform the break-in procedure independently from the Test Run section—serious damage could occur to the lathe if the controls are set differently than instructed in that section.

To perform the spindle break-in:

1. Operate the lathe at 150 RPM for 10 minutes.

2. **G0602/G0602Z:** Repeat Step 1 at each of the following speeds 300, 560, 720, 1200, and 2400.

   **G0752/G0752Z:** Repeat Step 1 at each of the following approximate speeds: 800, 1300, and 2000.

3. When the spindle has come to a complete stop, run the spindle in reverse at 2400 RPM (Model G0602/G0602Z) or 2000 RPM (Model G0752/G0752Z) for another 10 minutes, then press the emergency STOP button and DISCONNECT THE LATHE FROM POWER!

4. Check, and if necessary, re-tension the drive belts (refer to V-Belt Tension & Replacement Page 64 on page for detailed instructions.)

5. While the oil is still warm and any metal particles are still suspended in the oil, change the gearbox oil (refer to Lubrication on Page 52 for detailed instructions).

Congratulations! The spindle break-in is complete. Continue with the following Recommended Adjustments subsection.

---

**Recommended Adjustments**

For your convenience, the adjustments listed below have been performed at the factory. However, because of the many variables involved with shipping, we recommend that you at least verify the following adjustments to ensure the best possible results from your new machine. Step-by-step instructions for these adjustments can be found on the pages referenced below.

**Factory adjustments that should be verified:**

- Tailstock alignment (Page 33)
- Gib adjustments (Page 61)
- Backlash adjustment (Page 60)
SECTION 4: OPERATIONS

Operation Overview

The purpose of this overview is to provide the novice machine operator with a basic understanding of how the machine is used during operation, so the machine controls/components discussed later in this manual are easier to understand.

Due to the generic nature of this overview, it is not intended to be an instructional guide. To learn more about specific operations, read this entire manual, seek additional training from experienced machine operators, and do additional research outside of this manual by reading "how-to" books, trade magazines, or websites.

To complete a typical operation, the operator does the following:

1. Puts on safety glasses, rolls up sleeves, removes jewelry, and secures any clothing, jewelry, or hair that could get entangled in moving parts.

2. Examines the workpiece to make sure it is suitable for turning, then securely mounts the workpiece in a chuck, between centers, or on the faceplate.

3. Mounts the tooling, aligns it with the workpiece, then backs it away to establish a safe startup clearance.

4. Clears all setup tools from the lathe.

5. Checks for safe clearances by rotating the workpiece by hand at least one full revolution.

6. Sets the correct spindle speed for the operation.

7. If using power feed, selects the proper feed rate for the operation.

8. Starts spindle rotation, then engages the half nut.

9. Uses various carriage controls to move the tooling into the workpiece for operations.

10. When finished cutting, disengages the half nut (power feed only), moves the spindle direction switch to the OFF position, waits for the spindle to completely stop, then removes the workpiece.

WARNING

To reduce your risk of serious injury, read this entire manual BEFORE using machine.

WARNING

To reduce risk of eye injury from flying chips always wear safety glasses or face shield when operating.

NOTICE

If you are not experienced with this type of machine, WE STRONGLY RECOMMEND that you seek additional training outside of this manual. Read books/magazines or get formal training before beginning any projects. Regardless of the content in this section, Grizzly Industrial will not be held liable for accidents caused by lack of training.

NOTICE

Complete the Test Run & Break-In procedure on Pages 22–24 before using this lathe for any cutting or threading operations; otherwise, gear box damage will occur.
This lathe ships with the 3-jaw chuck installed. This is a scroll-type chuck where all three jaws move in unison when the chuck key is used.

The included 4-jaw chuck features independent jaws, which are used for square or unevenly-shaped stock, and to mount work that needs to be adjusted to near zero total indicated runout.

If neither chuck can hold your workpiece, the cast iron faceplate has slots for T-bolts that hold standard or custom clamping hardware. With the correct clamping hardware, a faceplate offers a wide range of uses, including machining non-concentric workpieces, straight turning between centers, off-center turning, and boring.

**WARNING**

Never use spindle speeds faster than the chuck RPM rating or the safe limits of your workpiece. Excessive spindle speeds greatly increase the risk of the workpiece or chuck being thrown from the machine with deadly force!

**WARNING**

Loose hair, clothing, or jewelry could get caught in machinery and cause serious personal injury. Keep these items away from moving parts at all times to reduce this risk.

This lathe is equipped with a threaded spindle nose. With this type of spindle, a chuck or faceplate is screwed directly onto the spindle nose.

**WARNING**

A dropped chuck can cause amputation, serious crushing injuries, or property damage. Always use a support or protective device to reduce this risk when installing or removing a chuck.

Because chucks are heavy and often awkward to hold, some kind of support or protective device should be used during installation or removal. The weight and size of the chuck will determine the appropriate device to use (refer to the following figure for examples).

**WARNING**

A dropped chuck can cause amputation, serious crushing injuries, or property damage. Always use a support or protective device to reduce this risk when installing or removing a chuck.

**Figure 23.** Examples of common devices used during chuck installation and removal.
Chuck Installation

To ensure accurate work, it is extremely important to make sure the spindle nose and chuck mating surfaces are clean. Even a small amount of lint or debris can affect accuracy.

The chuck is properly installed when it threads all the way onto the spindle nose (see Figure 24 below) and is seated against the spindle shoulder.

There are two chucks included with the Model G0602/G0602Z/G0752/G0752Z: a 3-jaw and 4-jaw. A chuck key has been included for each.

![Figure 24. Spindle nose.](image)

**Tools Needed:**

<table>
<thead>
<tr>
<th>Qty</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Spanner Wrench</td>
</tr>
<tr>
<td>1</td>
<td>Chuck Key (3- or 4-Jaw)</td>
</tr>
<tr>
<td>1</td>
<td>Hex Wrench 5mm</td>
</tr>
</tbody>
</table>

**To install the chuck:**

1. **DISCONNECT LATHE FROM POWER!**

2. Use an appropriate device to protect the ways and support the chuck during the installation process (refer to Installation & Removal Devices on Page 26).

3. Thoroughly clean, inspect, deburr, and lightly oil all threads and mating surfaces.

4. Thread the chuck onto the spindle nose and hand-tighten it.

5. Insert spanner wrench and tighten chuck with chuck key until it is seated snug against the spindle shoulder as shown in Figure 25.

![Figure 25. Location to insert spanner wrench and chuck key when installing chuck.](image)

6. Install the chuck locks with the cap screws (see Figure 26).

![Figure 26. Chuck lock installed on spindle nose and chuck.](image)
Changing Jaw Set

The 3-jaw scroll chuck included with the lathe features inside and outside hardened steel jaw sets (see Figure 29), which move in unison to center a concentric workpiece.

When installing the jaws, it is important to make sure they are installed correctly. Incorrect installation will result in jaws that do not converge evenly and are unable to securely clamp a workpiece.

Jaws are numbered from 1–3 (see Figure 30). They are designed to be installed in numerical order in the jaw guides so they will hold a concentric workpiece evenly.

Chuck Removal

To remove the chuck:

1. DISCONNECT LATHE FROM POWER!

2. Use an appropriate device to protect the ways and support the chuck (refer to Installation & Removal Devices on Page 26).

3. Remove the cap screws and chuck locks (see Figure 27).

4. Insert chuck key and spanner wrench as shown in Figure 28, then while holding the spindle, unthread the chuck in a counterclockwise direction.

5. Support the chuck, unscrew it, and remove.

Figure 27. Location of chuck lock and cap screws.

Figure 28. Location to insert spanner wrench and chuck key when removing chuck.

Figure 29. Chuck and jaw selection.

Figure 30. Jaw guide and jaw numbers.
To change the jaw set:

1. **DISCONNECT LATHE FROM POWER!**

2. Place a piece of plywood over the bedways to protect them from potential damage.

3. Insert the chuck key and turn it counterclockwise to back the jaws out and remove them.

4. Use mineral spirits to clean the debris and grime from the jaws and chuck jaw guides.

5. Apply a thin coat of white lithium grease to the surfaces of the removed jaw set. Store in a safe place free from moisture and abrasives.

6. Rotate the chuck key clockwise until you see the tip of the scroll-gear lead thread just begin to enter a jaw guide (see Figure 31).

7. Insert jaw #1 into the jaw guide and hold the jaw against the scroll-gear.

8. Rotate the chuck key clockwise one turn to engage the tip of the scroll-gear lead thread into the jaw. Pull the jaw; it should be locked into the jaw guide.

9. Install the remaining jaws in numerical order, in the same manner.
   
   —If installed correctly, the jaws will converge evenly at the center of the chuck.

   —If the jaws do not converge evenly, remove them. Re-install the jaws sequentially 1–3, and make sure each one engages with the scroll-gear lead thread during its first rotation.

---

**Scroll Chuck Clamping**

The 3-jaw scroll-type chuck has an internal scroll-gear that moves all jaws in unison when adjusted with the chuck key. The chuck will hold cylindrical parts on-center with the axis of spindle rotation and can be rotated at high speeds if the workpiece is properly clamped and balanced.

**Never mix jaw types or positions to accommodate an odd-shaped workpiece.** The chuck will spin out of balance and may throw the workpiece! Instead, use an independent jaw chuck or a faceplate.

---

![Figure 31. Lead thread on scroll gear.](image)

![Figure 32. Jaw selection and workpiece holding.](image)
4-Jaw Chuck

Refer to the Chuck Installation (see Page 27) and Chuck Removal (see Page 28) instructions to install or remove the 4-jaw chuck.

The 4-jaw chuck features independently adjustable hardened steel jaws for holding non-concentric or off-center workpieces. Each jaw can be independently removed from the chuck body and reversed for a wide range of work holding versatility.

⚠️ WARNING

Because of the dynamic forces involved in machining a non-concentric or off-center workpiece, always use a low spindle speed to reduce risk of the workpiece coming loose and being thrown from the lathe, which could cause death or serious personal injury.

Tools Needed: Qty
4-Jaw Chuck Key .............................................. 1
Dial Indicator ..................................................... 1

To mount the workpiece:

1. DISCONNECT LATHE FROM POWER!

2. Place a chuck cradle or plywood on the bedway below the chuck to protect the bedway surfaces.

3. Use the chuck key to open each jaw so the workpiece will lay flat against the chuck face, jaw steps, or into the spindle opening.

4. With help from another person or a holding device, position the workpiece so it is centered in the chuck.

5. Tighten each jaw in small increments. After you have adjusted the first jaw, continue tightening the remaining jaws in an opposing sequence, as shown by the sequential order in Figure 33.

6. After the workpiece is held in place by the jaws, use a dial indicator to make sure the workpiece is centered in the chuck.

—if the workpiece is not correctly centered, make fine adjustments by slightly loosening one jaw and tightening the opposing jaw until the workpiece is correctly positioned (see Figure 34 for an example).
Faceplate

Refer to the Chuck Installation (see Page 27) and Chuck Removal (see Page 28) instructions to install or remove the faceplate.

The faceplate included with your lathe can be used for a wide range of operations, including machining non-concentric workpieces, straight turning between centers, off-center turning, and boring.

The tools needed for mounting a workpiece will vary depending on the type of setup you have.

⚠️ WARNING
Machining non-concentric workpieces at a high speed could cause the workpiece to be thrown from the spindle with deadly force at the operator or bystanders. To reduce this risk, only machine non-concentric workpieces at low speeds and clamp counter-weights to the faceplate to balance it.

⚠️ WARNING
Failure to properly secure a workpiece to the faceplate could cause the workpiece to be thrown from the lathe with deadly force at the operator or bystanders. Use a minimum of THREE independent clamping devices to hold the workpiece onto the faceplate.

To mount a non-concentric workpiece to the faceplate:

1. DISCONNECT LATHE FROM POWER!
2. Protect the bedway with a piece of plywood.
3. With help from another person or a holding device to support the workpiece, position it onto the faceplate and clamp it in place with a minimum of three independent clamping devices (see Figure 35 for an example).

Be sure to take into account the rotational and cutting forces that will be applied to the workpiece when clamping it to the faceplate. If necessary, use counter-weights to balance the assembly and use a dial indicator to make sure that the workpiece is properly positioned for your operation.

Figure 35. Generic picture of workpiece clamped in a faceplate.
Tailstock

The tailstock (see Figure 36) is typically used to support long workpieces by means of a live or dead center (refer to Centers on Page 36). It can also be used to hold a drill or chuck to bore holes in the center of a part. Custom arbors and tapers can also be cut on your lathe by using the offset tailstock adjustment.

### Graduated Dial
Increments ................................................ 0.001"
One Full Revolution .................................... 0.060"

### Increments on Quill
Inch ......................................................... 0"-2½" in 1⁄8" Increments
Metric ...................................................... 0–65mm in 1mm Increments

### Positioning Tailstock
1. Loosen the tailstock lock nut to unlock the tailstock from the bedway.

2. Slide the tailstock to the desired position.

3. Tighten the tailstock lock nut to lock the tailstock against the bedway.

### Using Quill
1. Loosen the quill lock lever.

2. Turn the quill handwheel clockwise to move the quill toward the spindle or counterclockwise to move it away from it.

3. Tighten the quill lock lever.

### Installing Tooling
This tailstock uses a quill with an MT#3 taper that accepts a variety of tapered arbors and tooling, including tang arbors and drill bits (see Figures 37–38 for examples).

#### Figure 37. Types of tapered arbors and tooling.

#### Figure 38. Example photos of inserting MT#3 tools with tangs into a typical tailstock.

**Note:** If the tooling has an open hole in the end, then a screw can be threaded into the end of the tool to provide a solid surface for the quill pin to push against when the quill is retracted for tool removal. Otherwise, removal of such tooling may be difficult.
To install tooling in the tailstock:

1. With the tailstock locked in place, unlock the quill, then use the handwheel to extend it approximately 1".

2. Thoroughly clean and dry the tapered mating surfaces of the quill and the center, making sure that no lint or oil remains on the tapers.

3. With a firm and quick motion, insert the tool into the quill, as shown in Figure 38 on Page 32. Check to see if it is firmly seated by attempting to twist it—a firmly seated tool will not twist.

4. Unlock the tailstock and move it until the tip of the tool is close to, but not touching, the workpiece, then re-lock the tailstock.

5. Start spindle rotation, unlock the quill lock lever, then turn the quill handwheel clockwise to feed the tool into the workpiece.

Removing Tooling

1. Use a shop rag to hold the tool.

2. Rotate the quill handwheel counterclockwise until the tool is forced out of the quill.

Offsetting Tailstock

The tailstock can be offset from the spindle centerline for turning tapers. Move the tailstock top casting toward the front of the lathe to machine a taper at the tailstock end. Conversely, position the tailstock top casting toward the back of the lathe to machine a taper at the spindle end.

Note: The marks on the offset indicator are arbitrary. For a precise offset, use a dial indicator to check quill movement while adjusting the screws.

Tools Needed

<table>
<thead>
<tr>
<th>Tool</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hex Wrench 4mm</td>
<td>1</td>
</tr>
<tr>
<td>Open-End Wrench 19mm</td>
<td>1</td>
</tr>
</tbody>
</table>

To offset the tailstock:

1. Loosen the tailstock lock nut (see Figure 39).

2. Rotate the adjustment set screws in opposite directions for the desired offset (see the illustration in Figure 40).

3. Retighten the tailstock lock nut to secure the offset.
Aligning Tailstock to Spindle Centerline

This is an essential adjustment that should be verified or performed each time the tailstock is used to turn concentric workpieces between centers or immediately after offsetting the tailstock when turning a taper. If the tailstock is not aligned with the spindle centerline when it is supposed to be, turning results will be inaccurate along the length of the workpiece.

Items Needed

<table>
<thead>
<tr>
<th>Item</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hex Wrench 4mm</td>
<td>1</td>
</tr>
<tr>
<td>Open-End Wrench 19mm</td>
<td>1</td>
</tr>
<tr>
<td>Round Stock 2” x 6”</td>
<td>2</td>
</tr>
<tr>
<td>Precision Level</td>
<td>1</td>
</tr>
<tr>
<td>Precision Calipers</td>
<td>1</td>
</tr>
<tr>
<td>Dial Indicator</td>
<td>1</td>
</tr>
</tbody>
</table>

To align the tailstock to the spindle centerline:

1. Use the precision level to make sure the bedway is level from side-to-side and from front-to-back.
   
   —If the bedway is not level, correct this condition before continuing (refer to Leveling & Mounting on Page 21).

2. Center drill both ends of one piece of round stock, then set it aside for use in Step 5.

3. Use the other piece of round stock to make a dead center, and turn it to a 60° point, as illustrated in Figure 41.

4. Install a center in the tailstock.

5. Attach a lathe dog to the test stock from Step 2, then mount it between the centers (see Figure 42 for an example).

6. Turn 0.010” off the stock diameter.

7. Mount a test or dial indicator so that the plunger is on the tailstock quill.

Note: As long as this dead center remains in the chuck, the point of the center will remain true to the spindle centerline. The point will have to be refinished whenever the center is removed and then returned to the chuck.

Note: If necessary in the following step, refer to Offsetting Tailstock on Page 33 for detailed instructions.
8. Use calipers to measure both ends of the workpiece. 

—if the test stock is thicker at the tailstock end, move the tailstock toward the front of the lathe ½ the distance of the amount of taper (see Figure 43).

—If the test stock is thinner at the tailstock end, move the tailstock toward the back of the lathe ½ the distance of the amount of taper (see Figure 44).

9. Repeat Steps 6–8 until the desired accuracy is achieved.
# Centers

**Figure 45** shows one of the two included MT#3 dead centers and the MT#4 dead center.

The spindle taper is an MT#4 and will only receive the MT#4 dead center. The tailstock quill taper is an MT#3 and will only receive the MT#3 dead centers.

## Dead Centers

A dead center is a one-piece center that does not rotate with the workpiece and is used to support long, slender workpieces in the tailstock.

A carbide-tipped dead center (not included) can better withstand the effects of friction than a typical dead center and is best used in the tailstock where the workpiece will rotate against it. The tip of a dead center must be generously lubricated during the operation to avoid premature wear and maximize smooth operation. Using low spindle speeds will also reduce the heat and wear from friction.

Use the dead center in the spindle for operations where the workpiece rotates with the center and does not generate friction.

## Live Centers

A live center (not included) has bearings that allow the center tip and the workpiece to rotate together; it can be installed in the tailstock quill for higher speeds.

### Mounting Dead Center in Spindle

1. **DISCONNECT LATHE FROM POWER!**
2. Thoroughly clean and dry all threads and mating surfaces of the spindle bore and the center, making sure that no lint or oil remains on these surfaces.

   **Note:** This will prevent the tapered surfaces from seizing due to operational pressures, which could make it very difficult to remove the center.

3. Mount a chuck or faceplate onto the spindle, whichever is correct for your operation.
4. Insert the center into the spindle bore through the chuck or faceplate.

**Figure 46** shows an example photo of a dead center installed in the spindle, using a lathe dog and faceplate for turning between centers.

---

Model G0602/Z, G0752/Z (Mfd. Since 03/20)
Removing Center from Spindle
To remove the center from the spindle, insert a piece of round bar stock or similar tool through the outboard end (on the left side of the headstock). Have another person hold onto the center with a gloved hand or shop rag, then tap the center loose.

Mounting Center in Tailstock
The included dead center or a live center can be used in the tailstock. Mounting instructions are the same for both. Figure 47 shows an example photo of a dead center mounted in a tailstock.

![Figure 47. Example photo of using a dead center installed in the tailstock.]

Notices
To avoid premature wear of the dead center or damage to the workpiece, use low spindle speeds and keep the tip of the dead center mounted in the tailstock well lubricated.

To mount a center in the tailstock:
1. DISCONNECT LATHE FROM POWER!
2. Thoroughly clean and dry the tapered mating surfaces of the tailstock quill bore and the center, making sure that no lint or oil remains on the tapers.
3. Use the quill handwheel to feed the quill out of the casting approximately 1" (see Figure 1).

Note: The maximum quill travel is 2\(\frac{1}{2}\)", but we do not recommend extending the quill more than 2" or stability and accuracy will be reduced.

![Figure 1. Dead center inserted into tailstock.]

4. Insert the center into the tailstock quill.
5. Seat the center firmly into the quill during workpiece installation by rotating the quill handwheel clockwise to apply pressure, with the center engaged in the center hole in the workpiece.

Note: Only apply enough pressure with the tailstock quill to securely mount the workpiece between centers. Avoid overtightening the center against the workpiece, or it may become difficult to remove later, and it will result in excessive friction and heat, which may damage the workpiece and center.

6. Secure the quill lock lever and tailstock lock nut.

Removing Center from Tailstock
To remove the center from the quill, hold onto it with a gloved hand or shop rag, then rotate the quill handwheel counterclockwise to draw the quill back into the casting until the center releases.
Mounting Workpiece Between Centers

1. **DISCONNECT LATHE FROM POWER!**

2. Drill center holes in both ends of the workpiece.

3. Install a dead center in the spindle with a lathe dog and a chuck or faceplate, then install a live center or carbide-tipped dead center in the tailstock.

4. Lubricate the workpiece center holes, then mount the workpiece between the centers and hold it in place with light pressure from the tailstock center.

5. Seat the center firmly into the quill by rotating the quill handwheel clockwise to apply pressure against the workpiece (see the example in Figure 48).

**Note:** Only apply enough pressure to securely mount the workpiece between centers. Avoid over-tightening the center against the workpiece, or it may become difficult to remove later. Also, over-tightening will result in excessive friction and heat, which may damage the workpiece or center.

---

Steady Rest

The steady rest supports long shafts and can be mounted anywhere along the length of the bedway.

Familiarize yourself with the steady rest components shown in Figure 49 to better understand its operation.

![Figure 49. Steady rest components.](image)

**To install and use the steady rest:**

1. **DISCONNECT LATHE FROM POWER!**

2. Thoroughly clean all mating surfaces, then place the steady rest base on the bedways so the triangular notch fits over the bedway prism.

3. Loosen the finger lock nuts shown in Figure 49, turn the finger adjustment knobs, and adjust the fingers as required for the workpiece.

4. Loosen the steady rest lock nut, position the steady rest where required to properly support the workpiece, then secure the lock nut.

5. Turn the finger adjustment knobs so the fingers are barely touching the workpiece, then tighten the finger lock nuts.

6. Lubricate the finger tips with an anti-seize lubricant during operation.

**Note:** Mill or file the tips if they show wear.

---

*Model G0602/Z, G0752/Z (Mfd. Since 03/20)*
**Follow Rest**

The follow rest mounts to the saddle with two cap screws (see Figure 50). It is used on long, slender parts to prevent workpiece deflection from cutting tool pressure during operation. Adjust the follow rest fingers in the same manner as the those on the steady rest.

**Note:** To reduce the effects of friction, lubricate the finger tips with generous anti-sieze lubricant during operation.

![Figure 50. Follow rest attachment.](image)

**Carriage & Slide Locks**

The carriage and cross slide have locks that can be tightened to provide additional rigidity during operation, especially during heavy cuts.

See Figure 51 to identify the locations of the locks for each device.

![Figure 51. Carriage and cross slide locks.](image)

**Compound Rest**

The compound rest handwheel has an indirect-read graduated scale. This means the distance shown on the scale represents the actual distance the tool moves. The base of the compound rest has another graduated scale used for setting the cutting tool to a specific angle.

**Graduated Dial**

- Increments: 0.001" (0.025mm)
- One Full Revolution: 0.04" (1.02mm)

**Tool Needed**

<table>
<thead>
<tr>
<th>Qty</th>
<th>Open-End Wrench 14mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

**To set the compound rest at a certain angle:**

1. Loosen the two hex nuts at the base of the compound rest (1 of 2 shown in Figure 52).

2. Rotate the rest to the desired angle, as indicated by the scale at the base, then retighten the two hex nuts.

**Tip:** The first time you set the angle of the compound rest for cutting threads, mark the location on the cross slide as a quick reference point. This will allow you to quickly return the compound rest to that exact angle the next time you need to cut threads.
Four-Way Tool Post

The four-way tool post is mounted on top of the compound rest and allows a maximum of four ½" tools to be loaded simultaneously.

Each tool can be quickly indexed to the workpiece by loosening the top handle, rotating the tool post to the desired position, then re-tightening the handle to lock the tool into position.

Installing Tool

<table>
<thead>
<tr>
<th>Tool Needed</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hex Wrench 6mm</td>
<td>1</td>
</tr>
</tbody>
</table>

To install a tool in the tool post:

1. Adjust the tool post screws so that the cutting tool can fit underneath them (see Figure 53).

   ![Figure 53. Example of tool mounted in tool post.]

2. Firmly secure the cutting tool with at least two tool post screws.

3. Check and adjust the cutting tool to the spindle centerline, as instructed in the next subsection.

WARNING

Over-extending a cutting tool from the post will increase the risk of tool chatter, breakage, or tool loosening during operation, which could cause metal pieces to be thrown at the operator or bystanders with great force. DO NOT extend a cutting tool more than 2.5 times the width of its cross-section (e.g., 2.5 x 0.5" = 1.25").

Aligning Cutting Tool with Spindle Centerline

For most operations, the cutting tool tip should be aligned with the spindle centerline, as illustrated in Figure 54.

![Figure 54. Cutting tool aligned with spindle centerline (viewed from tailstock).]

There are a number of ways to check and align the cutting tool to the spindle centerline. If necessary, you can raise the cutting tool by placing steel shims underneath it. The shims should be as long and as wide as the cutting tool to properly support it.

Below are two common methods:

- Move the tailstock center over the cross slide and use a dial indicator to measure the distance from the surface of the cross slide to the tip of the center. Adjust the cutting tool height so it is the same distance above the cross slide as the tailstock center.

- Align the tip of the cutting tool with a tailstock center, as instructed in the following procedure. For this to work, the tailstock must be aligned to the spindle centerline (refer to Aligning Tailstock To Spindle Centerline on Page 34 for detailed instructions).
Tools Needed

<table>
<thead>
<tr>
<th>Tool</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hex Wrench 6mm</td>
<td>1</td>
</tr>
<tr>
<td>Steel Shims</td>
<td>As Needed</td>
</tr>
<tr>
<td>Cutting Tool</td>
<td>1</td>
</tr>
<tr>
<td>Tailstock Center</td>
<td>1</td>
</tr>
</tbody>
</table>

To align the cutting tool with the tailstock center:

1. Mount the cutting tool in the tool post, then secure the post so the tool faces the tailstock.
2. Install a center in the tailstock, and position the center tip near the cutting tool tip.
3. Lock the tailstock and quill in place.
4. Adjust the height of the cutting tool so that the tool tip is aligned vertically and horizontally with the center tip, as shown in Figure 55.

Figure 55. Cutting tool aligned to the tailstock center.

Manual Feed

The handwheels shown in Figure 56 allow the operator to manually move the cutting tool.

Carriage Handwheel

Use the carriage handwheel to move the carriage left or right along the bed. This control is helpful when setting up the machine for turning or when manual movement is desired during turning operations.

Cross Slide Handwheel

Graduated Dial

Increments 0.001" (0.025mm)
One Full Revolution 0.06" (1.52mm)

Use this handwheel to move the tool toward and away from the work. Adjust the position of the graduated scale by holding the handwheel with one hand and turning the dial with the other. The cross slide handwheel has an indirect-read graduated dial. This means the distance shown on the scale represents the actual distance the tool moves.

Compound Rest Handwheel

Graduated Dial

Increments 0.001" (0.025mm)
One Full Revolution 0.04" (1.02mm)

Use this handwheel to move the cutting tool linearly along the set angle of the compound rest. Set the compound rest angle by hand-rotating it and securing in place with two hex nuts. The compound rest has an indirect-read graduated dial.
Spindle Speed

Using the correct spindle speed is important for safe and satisfactory results, as well as maximizing tool life.

To set the spindle speed for your operation, you will need to: 1) Determine the best spindle speed for the cutting task, and 2) configure the lathe controls to produce the required spindle speed.

Determining Spindle Speed

Many variables affect the optimum spindle speed to use for any given operation, but the two most important are the recommended cutting speed for the workpiece material and the diameter of the workpiece, as noted in the formula shown in Figure 57.

\[
\text{Spindle Speed (RPM)} = \frac{\text{Recommended Cutting Speed (FPM)} \times 12 \times \text{Dia. of Cut (in inches)} \times 3.14}{12} \times \text{Dia. of Cut (in inches)} \times 3.14
\]

*Recommended Cutting Speed (FPM) x 12 = Spindle Speed
Dia. of Cut (in inches) x 3.14 (RPM)

*Double if using carbide cutting tool

Figure 57. Spindle speed formula for lathes.

Cutting speed, typically defined in feet per minute (FPM), is the speed at which the edge of a tool moves across the material surface.

A recommended cutting speed is an ideal speed for cutting a type of material in order to produce the desired finish and optimize tool life.

The books *Machinery's Handbook* or *Machine Shop Practice*, and some internet sites, provide excellent recommendations for which cutting speeds to use when calculating the spindle speed. These sources also provide a wealth of additional information about the variables that affect cutting speed and they are a good educational resource.

Also, there are a large number of easy-to-use spindle speed calculators that can be found on the internet. These sources will help you take into account the applicable variables in order to determine the best spindle speed for the operation.

Setting Spindle Speed

Selecting one of the available six spindle speeds (Model G0602/G0602Z) or one of the three spindle speed ranges (Model G0752/G0752Z) is performed by repositioning the V-belt(s) between the pulleys.

Tools Needed

<table>
<thead>
<tr>
<th>Tool Description</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hex Wrench 5mm</td>
<td>1</td>
</tr>
<tr>
<td>Hex Wrench 8mm</td>
<td>1</td>
</tr>
<tr>
<td>Open-End Wrench 17mm</td>
<td>1</td>
</tr>
</tbody>
</table>

**WARNING**

Use a low RPM when machining heavy eccentric workpieces; securely clamp your workpiece and remove the chuck key! Objects thrown from a lathe can cause serious injury or death to the operator or bystanders.

Use a minimum of three independent clamping devices when turning eccentric workpieces on the faceplate. Failure to provide adequate clamping will cause workpiece to eject.

G0602/G0602Z Configuration Examples

The 27½" belt is used on pulleys B and C (see Figure 58) with the tensioner for 50, 300, and 560 RPM.

Figure 58. Positioning belt for low speed.
3. Open the change gear cover, then loosen the tensioner lock nut located on the other side of the gear cover plate and the headstock.

Follow along with the examples below for setting the Model G0602 spindle speed to gain a better understanding of this task.

**To set the spindle speed to 150 RPM:**

1. DISCONNECT LATHE FROM POWER!

2. Refer to the RPM chart in [Figure 60](#) to determine the pulley combination you need to achieve a spindle speed of 150 RPM—it is BC1.

3. Move the tensioner to install the 27\(\frac{1}{2}\)" belt between pulleys B and C, and in sheave 1, as shown in [Figure 58](#) on Page 42.

4. Re-tension the belt (refer to "Tensioning V-Belt" on Page 63), then close the change gear cover and secure it. The lathe is now set for a spindle speed of 150 RPM.

**G0752/G0752Z Configuration Example**

The V-belt is positioned on the spindle and motor pulleys with the tensioner (see [Figure 62](#)) to select between low (100-800 RPM), medium (160-1300 RPM), and high (250–2000 RPM) speed ranges.
Follow along with this example for setting the spindle speed for the Model G0752 to gain a better understanding of this task.

**To set the spindle speed to 150 RPM:**

1. DISCONNECT LATHE FROM POWER!

2. Open the change gear cover, use an 8mm hex wrench to loosen the tensioner bolt, then move the tensioner out of the way.

3. Move the V-belt to the outer pulley sheaves to select the low speed range (100-800 RPM), as shown in Figure 62.

4. Re-tension the belt (refer to "Tensioning V-Belt" on Page 63) and secure the tensioner.

5. Turn the spindle direction switch to FWD, and press the ON button.

6. Adjust the spindle speed dial until the spindle speed display reads 150 RPM.

---

**Power Feed**

The carriage has power feed capability when it is engaged with the lead screw. The rate that the carriage moves (feed rate) is controlled by V-belt, change gear, and gearbox dial configurations.

Feed rate and spindle speed must be considered together when determining the proper cutting speed for a given workpiece. The sources you use to determine the optimum spindle speed for an operation will also provide the optimal feed rate to use with that spindle speed.

Often, the experienced machinist will use the feeds and speeds given in their reference charts or web calculators as a starting point, then make minor adjustments to the feed rate (and sometimes spindle speed) to achieve the best results.

The carriage can alternately be driven by the leadscrew for threading operations. However, this section only covers using the power feed option for the carriage for non-threading operations. To learn how to power the carriage for threading operations, refer to **Threading on Page 46**.

**Tools Needed**

<table>
<thead>
<tr>
<th>Tool Description</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hex Wrench 5mm</td>
<td>1</td>
</tr>
<tr>
<td>Hex Wrench 6mm</td>
<td>1</td>
</tr>
</tbody>
</table>
Setting Power Feed Rate

The feed rate chart on the headstock displays the settings for the feed controls for inch feed rates.

Using the controls on the lathe, follow along with the example below to better understand how to set the lathe for the desired power feed rate.

Setting Power Feed Rate of 0.0120 in/rev

1. DISCONNECT LATHE FROM POWER!

2. Turn the feed dials to the numeral and letter indicated by the chart in Figure 64.
   
   Note: You may have to rock the chuck by hand to get the gearbox gears to mesh.

3. Gather the required change gears, based upon the chart in Figure 64.

4. Remove the cap screw that secures the change gear cover, open the cover, then loosen the lash adjuster cap screw (see Figure 64) and swing the change gear assembly out of the way.

5. Remove the E-clips and cap screw from the change gears.

6. Lubricate the change gears (refer to Page 55 for detailed instructions) and swap them out in the order shown on the chart in Figure 64, then re-install the E-clips and cap screw.

7. Move the lash adjuster so the gear backlash is between 0.003" to 0.008", tighten the lash adjuster cap screw, then close and secure the change gear cover.

8. Loosen the carriage lock (see Figure 63), and push down on the half nut lever to engage the power feed.

The lathe is now set up for a power feed rate of 0.0120 in/rev.

NOTICE

To avoid potential carriage/chuck crash, disengage the half-nut lever immediately after completing power feeding operations.

Note: All change gears are stamped with the number of teeth they have.
The following subsections describe how to use the threading controls and charts to set up the lathe for a threading operation. If you are unfamiliar with the process of cutting threads on a lathe, we strongly recommend that you read books, review industry trade magazines, or get formal training before attempting any threading projects.

### Headstock Threading Controls

The threading charts on the headstock face display the settings for metric and inch threading.

Using the controls on the lathe, complete the following examples to better understand how to set up the lathe for the desired threading operation.

**To set the lathe to cut 64 TPI threads:**

1. **DISCONNECT LATHE FROM POWER!**

2. Turn the feed dials to the numeral and letter indicated by the chart in **Figure 65**.
   
   **Note:** *You may have to rock the chuck by hand to mesh the gearbox gears.*

3. Gather the required change gears based upon the chart.

4. Open the change gear cover, loosen the lash adjuster (**Figure 64 on Page 45**) and swing the change gear assembly out of the way.

5. Remove the E-clips and cap screw from the change gears.

6. Lubricate the change gears (refer to **Page 55** for detailed instructions) and swap them out in the order shown on the chart in **Figure 65**, then secure the change gears with the E-clips and cap screw.
   
   **Note:** *All change gears are stamped with the number of teeth they have.*

7. Move the lash adjuster so the gear backlash is between 0.003” to 0.008”, tighten the lash adjuster cap screw, and close the cover.

8. Loosen the carriage lock (see **Figure 63 on Page 45**).

The lathe is now set up to cut 64 TPI threads.

---

**NOTICE**

When threading keep your hand on the half-nut lever ready to disengage the half nut to avoid potential carriage/chuck crash.

---

![Figure 65. Threading setup for 64 TPI.](image-url)
To set the lathe to cut 0.45 TPmm threads:

The steps for setting up the lathe for threading metric threads are the same as those for inch threads. Follow the instructions on Page 46 for setting the thread pitch to 64 TPI, and refer to the chart below.

![Figure 66. Metric threading setup.](image)

### Apron Threading Controls

The half nut lever engages the carriage with the leadscrew, which moves the carriage and cutting tool along the length of the workpiece for threading and power feed operations (see Figure 67).

The numbers on the thread dial are used with the thread dial chart to show when to engage the half nut during inch threading. The thread dial numbers are not used when cutting metric threads, since this lathe has an inch leadscrew.

![Figure 67. Half nut lever and thread dial.](image)

### Thread Dial Chart

Find the TPI (threads per inch) that you want to cut in the left column of the thread dial chart (see Figure 68), then reference the dial number to the right of it. The dial numbers indicate when to engage the half nut for a specific thread pitch. The thread dial chart can also be found on the carriage beside the half nut lever.

![Figure 68. Thread dial chart.](image)

**NOTICE**

When threading, we recommend using the slowest speed possible and avoiding deep cuts, so you are able to disengage the half nut when required and prevent an apron crash!

Note: Since this lathe has an inch leadscrew, do not use the thread dial when cutting metric threads. Instead you must leave the half nut engaged from the beginning until the threading operation is complete.
The following examples explain how to use the thread dial chart.

**9, 12, 18, 24, 36, 48, 72 TPI**
For these threading TPI's, use any of the lines on the thread dial (see Figure 69).

![Figure 69](image)

**All Other TPI**
For all other TPI's, use numbered lines 1 or 7 or non-numbered lines 4 or 10 on the thread dial (see Figure 71).

![Figure 71](image)

**9½, 11½, 13½ Fractional TPI**
For threading these TPIs, use the numbered lines 1 or 7 on the thread dial (see Figure 70).

![Figure 70](image)
SECTION 5: ACCESSORIES

WARNING
Installing unapproved accessories may cause machine to malfunction, resulting in serious personal injury or machine damage. To reduce this risk, only install accessories recommended for this machine by Grizzly.

NOTICE
Refer to our website or latest catalog for additional recommended accessories.

SBCE3450—How to Run a Lathe
First printed in 1907 by South Bend Lathe, this 56th edition is an exact reprint from 1966. Well illustrated with vintage photos and drawings, this 128-page book is written specifically about the care and operation of a metal lathe. “This book is to aid the beginner or apprentice in the machine shop and the student in the school shop to secure a better understanding of the fundamental operations of modern lathe practice in use in modern industries in the United States.”

H6204—High Precision Drill Chuck 5/8” x JT3
Unlike most keyed drill chucks, this one is made to very tight tolerances on CNC equipment and is one of the finest drill chucks on the market today. It has very high gripping strength and is suitable for heavy-duty, high-speed drilling. Each chuck includes a high visibility chuck key. Specifications: 1/32”-5/8” x JT #3.

G9849—Magnetic Base/Dial Indicator Combo
Precision measurements and set-ups have never been so easy. Magnetic base engages with just the turn of a switch and allows pinpoint adjustment. The dial indicator features 0-1” travel and has a resolution of 0.001”. Set includes a molded case for protection and convenience.

H2987—½” Bent Lathe Dog
H2988—1” Bent Lathe Dog
H2989—1½” Bent Lathe Dog
H2990—2” Bent Lathe Dog
H2991—3” Bent Lathe Dog
G5640—5-Pc. 1⁄2” Indexable Carbide Tool Set
G6706—Replacement TiN Carbide Inserts
Five-piece turning tool set features indexable carbide inserts with "spline" type hold-down screw that allow indexing without removing the screw. Each set includes AR, AL, BR, BL, and E style tools with carbide inserts, hex wrench, extra hold-down screws and a wooden case.

T10255—Mini Lathe Tooling Kit
This convenient Mini Lathe Tool Kit includes right, left and straight turning tool holders with 1⁄8" HSS tool bits, boring bar with holder and 1⁄8" HSS tool bit, cut off tool holder with 3⁄32" HSS blade and 3⁄8" shank, mini cut off tool holder with 1⁄16" HSS blade and 5⁄16" shank, knurling tool holder with pivoting head, single horizontal/vertical knurling tool holder and assorted hex wrenches. Maximum shank size is 1⁄2".

H5930—4-Pc Center Drill Set 60°
H5931—4-Pc Center Drill Set 82°
Double ended HSS Center Drills are precision ground. Includes sizes 1-4.

H7617—Oil Can w/Flexible Plastic Nozzle
This high-pressure oil can is perfect for lubricating the ball oilers found on your machine. Can holds 5 ounces of oil.

T23962—ISO 68 Moly-D Machine Oil, 5 gal.
T23963—ISO 32 Moly-D Machine Oil, 5 gal.
Moly-D oils are some of the best we've found for maintaining the critical components of machinery because they tend to resist run-off and maintain their lubricity under a variety of conditions—as well as reduce chatter or slip. Buy in bulk and save with 5-gallon quantities.

order online at www.grizzly.com or call 1-800-523-4777
SECTION 6: MAINTENANCE

**WARNING**
Always disconnect power to the machine before performing maintenance. Failure to do this may result in serious personal injury.

Schedule

**Ongoing**
To help reduce the risk of injury and ensure proper machine operation, if you ever observe any of the items below, shut down the machine immediately and fix the problem before continuing operations:

- Loose mounting bolts or fasteners.
- Worn, frayed, cracked, or damaged wires.
- Guards or covers removed.
- Emergency STOP button not working correctly or not requiring you to reset it before starting the machine again.
- Damaged or malfunctioning components.

**Daily, Before Operations**
- Check/add gearbox oil (Page 52).
- Add oil to the ball oilers (Page 53).
- Clean/lubricate the leadscrew and carriage rack (Page 54).
- Lubricate the bedways (Page 54).
- Compound slide (Page 54).
- Disengage the half nut on the carriage (to prevent crashes upon startup).
- Ensure carriage lock bolt is loose.

**Daily, After Operations**
- Turn the spindle direction switch to STOP, and press the Emergency STOP button (to prevent accidental startup).
- Vacuum/clean all chips and swarf from bed and slides.
- Wipe down all unpainted or machined surfaces with an oiled rag.
- Add oil to the ball oilers (Page 53).

**Annually**
- Change the gearbox oil (Page 52).
- Lubricate the change gears (Page 55).
- Check/level bedway (Page 21).

**Cleaning/Protecting**

Because of its importance, we recommend that the cleaning routine be planned into the workflow schedule.

Typically, the easiest way to clean swarf from the machine is to use a wet/dry shop vacuum that is dedicated for this purpose. The small chips left over after vacuuming can be wiped up with a slightly oiled rag. Avoid using compressed air to blow off chips, as this may drive them deeper into the moving surfaces or cause sharp chips to fly into your face or hands.

All unpainted and machined surfaces should be wiped down daily to keep them rust free and in top condition. This includes any surface that is vulnerable to rust if left unprotected (especially parts that are exposed to water soluble cutting fluid). Use a quality rust protectorate such as SLIPIT® or Boeshield® to prevent corrosion.
Lubrication

The lathe has numerous metal-to-metal sliding surfaces that require regular lubrication to maintain smooth movement and ensure long-lasting operation.

Other than the lubrication points covered in this section, all other bearings are internally lubricated and sealed at the factory. Simply leave them alone unless they need to be replaced.

Before performing any lubrication task, DISCONNECT LATHE FROM POWER!

**Important:** Before adding lubricant to ball oilers and grease fittings, clean off entry points to prevent contamination of lubricant.

Use the schedule and information in the chart below as a daily guide for lubrication tasks. We recommend using Grizzly Model T23962 or T23963 lubricants (see Accessories, Page 50) for most of the lubrication tasks.

<table>
<thead>
<tr>
<th>Lubrication Task</th>
<th>Frequency</th>
<th>Page Ref.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quick-Change Gearbox</td>
<td>Daily</td>
<td>This page</td>
</tr>
<tr>
<td>Ball Oilers</td>
<td>Daily</td>
<td>53</td>
</tr>
<tr>
<td>Leadscrew &amp; Carriage Rack</td>
<td>Daily</td>
<td>54</td>
</tr>
<tr>
<td>Bedways</td>
<td>Daily</td>
<td>54</td>
</tr>
<tr>
<td>Compound Slide</td>
<td>Daily</td>
<td>54</td>
</tr>
<tr>
<td>Change Gears</td>
<td>Annually</td>
<td>55</td>
</tr>
</tbody>
</table>

**NOTICE**

The recommended lubrication is based on light-to-medium usage. Keeping in mind that lubrication helps to protect the value and operation of the lathe, these lubrication tasks may need to be performed more frequently than recommended here, depending on usage.

Failure to follow reasonable lubrication practices as instructed in this manual could lead to premature failure of lathe components and will void the warranty.

Quick-Change Gearbox

Oil Type.... Grizzly T23962 or ISO 68 Equivalent
Reservoir Capacity ............................................. 1 Pint
Check/Add Frequency ........................................... Daily
Change Frequency ............................................. Annually

**Checking Oil Level**

The gearbox reservoir has the proper amount of oil when the oil level in the sight glass is approximately ¾ full. The oil sight glass is located below the gearbox control dials, as shown in Figure 80.

Figure 80. Headstock oil level sight glass.

After break-in, change the oil in the gearbox, then again after three months. Afterwards, change the oil on an annual basis or more frequently if extreme machine use requires it.

**Adding Oil**

Use an 8mm hex wrench to remove the gearbox fill plug (see Figure 80), then add the oil until the level is approximately ¾ full in the oil sight glass.

**Draining Oil**

Remove the fill plug (Figure 80), place a catch pan under the quick-change gearbox drain plug (see Figure 81). Use an 8mm hex wrench to loosen the drain plug, remove it, then allow the reservoir to empty. Re-install the drain plug.

Figure 81. Location of the quick-change gearbox drain plug.
**Ball Oilers**

Oil Type ... Grizzly T23963 or ISO 32 Equivalent
Oil Amount........................................1 or 2 Squirts/Fill
Lubrication Frequency..........................Daily

This lathe has 10 ball oilers that should be oiled on a daily basis before beginning operation.

Proper lubrication of ball oilers is done with a pump-type oil can that has a plastic or rubberized cone tip. We do not recommend using metal needle or lance tips, as they can push the ball too far into the oiler, break the spring seat, and lodge the ball in the oil galley.

Lubricate the ball oilers before and after machine use, and more frequently under heavy use. When lubricating ball oilers, first clean the outside surface to remove any dust or grime. Push the tip of the oil can nozzle against the ball oiler to create a hydraulic seal, then pump the oil can once or twice. If you see sludge and contaminants coming out of the lubrication area, keep pumping the oil can until the oil runs clear. When finished, wipe away any excess oil.

Refer to **Figures 82–86** to identify the location of each ball oiler.

**Figure 82.** Spindle bearing ball oilers.

**Figure 83.** Change gear ball oilers.

**Figure 84.** Carriage and cross slide ball oilers.

**Figure 85.** Tailstock ball oiler.

**Figure 86.** Leadscrew end bearing ball oilers.
**Leadscrew & Carriage Rack**

Oil Type: Grizzly T26685 or ISO 32 Equivalent
Oil Amount: As Needed
Lubrication Frequency: Daily

Before lubricating the leadscrew and carriage rack (see **Figure 87**), clean them first with mineral spirits. Use a stiff brush to help remove any debris or grime. Apply a thin coat of oil along the length of the carriage rack. Use a stiff brush to make sure oil is applied into the leadscrew threads.

*Note: In some environments, abrasive material can become caught in the leadscrew lubricant and drawn into the half nut. In this case, lubricate the leadscrew with a quality dry lubricant.*

**Compound Slide**

Oil Type: Grizzly T26685 or ISO 32 Equivalent
Oil Amount: Thin Coat
Lubrication Frequency: Daily

Use the handwheel to move the compound slide all the way toward you (see **Figure 88**), then wipe clean the bottom slide with a rag and mild solvent. Apply the lubricant and move the compound slide back and forth to distribute the oil.

**Bedways**

Oil Type: Grizzly T26685 or ISO 32 Equivalent
Oil Amount: As Needed
Lubrication Frequency: Daily

Before lubricating the bedways (see **Figure 87**), clean it with mineral spirits. Apply a thin coat of oil along the length of the bedway. Move the steady rest, carriage, and tailstock to access the entire length of the bedways.
Change Gears
Grease Type............................................. NLGI#2
Oil Amount............................................. Thin Coat
Frequency................................. Annually or When Changing

The change gears, shown in Figure 89, should always have a thin coat of heavy grease to minimize corrosion, noise, and wear. Wipe away excess grease that could be thrown onto the V-belts and reduce optimal power transmission from the motor.

To handle and care for the change gears:

Make sure to clean and lubricate any gears you install or change. Be very careful during handling and storage—the grease coating on the gears will easily pickup dirt or debris, which can then spread to the other gears and increase the rate of wear.

Make sure the change gear cover remains installed whenever possible to keep the gears free of dust or debris from the outside environment.

To lubricate the change gears:

1. DISCONNECT LATHE FROM POWER!

2. Open the change gear cover and remove all the change gears shown in Figure 89.

3. Clean the change gears thoroughly with mineral spirits to remove the old grease. Use a small brush if necessary to clean between the teeth.

4. Clean the shafts, and wipe away any grease splatters in the vicinity and on the inside of the change gear cover.

5. Using a clean brush, apply a thin layer of grease on the gears. Make sure to get grease between the gear teeth, but do not fill the teeth valleys.

6. Install the change gears and mesh them together with 0.003”–0.008” backlash. Once the gears are meshed together, apply a small dab of grease between them where they mesh together—this grease will be distributed when the gears rotate and re-coat any areas scraped off during installation.

7. Close the change gear cover before re-connecting the lathe to power.
Machine Storage

To prevent the development of rust and corrosion, the lathe must be properly prepared if it will be stored for a long period of time. Doing this will ensure the lathe remains in good condition for later use.

To prepare the lathe for storage:

1. Run the lathe and bring the gearbox reservoir to operating temperature, then drain and refill with clean oil.

2. DISCONNECT LATHE FROM POWER!

3. Thoroughly clean all unpainted, bare metal surfaces, then apply a liberal coat of way oil, heavy grease, or rust preventative. Take care to ensure these surfaces are completely covered but that the rust preventative or grease is kept off of painted surfaces.

4. Lubricate the machine as outlined in the Lubrication section beginning on Page 52. Be sure to use an oil can to purge all ball oilers and oil passages with fresh oil.

5. Loosen or remove all belts so they do not become stretched during the storage period. (Be sure to place a maintenance note near the power button as a reminder that the belts have been loosened or removed.)

6. Cover the lathe and place it in a dry area that is out of direct sunlight and away from hazardous fumes, paint, solvents, or gas. Fumes and sunlight can bleach or discolor paint.

7. Every few months do the following:
   - Rotate by hand all gear-driven components a few times in several gear selections. This will keep the bearings, bushings, gears, and shafts well lubricated and protected from corrosion—especially during the winter months.
   - Slide the carriage, tailstock, and steady rest down the lathe bed to make sure that way spotting is not beginning to occur.
# SECTION 7: SERVICE

Review the troubleshooting procedures in this section if a problem develops with your machine. If you need replacement parts or additional help with a procedure, call our Technical Support. **Note:** Please gather the serial number and manufacture date of your machine before calling.

## Troubleshooting

### Motor & Electrical

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Possible Cause</th>
<th>Possible Solution</th>
</tr>
</thead>
</table>
| Machine does not start or a circuit breaker trips. | 1. Emergency stop button engaged or at fault.  
2. Spindle direction switch turned OFF or at fault.  
3. Start capacitor at fault.  
4. Wall fuse/circuit breaker is blown/tripped; short in electrical system; start-up load too high for circuit.  
5. Wiring is open/has high resistance.  
6. Contactor not getting energized/has poor contacts.  
7. Motor connection wired wrong.  
8. Motor spindle direction switch at fault.  
9. Inverter/control box at fault (G0752 only).  
10. Motor at fault. | 1. Rotate button clockwise until it pops out to reset it for operation; replace if not working properly.  
2. Turn spindle direction switch to FWD or REV. Ensure switch has correct voltage. Replace if faulty.  
3. Test/replace if faulty.  
4. Verify circuit is rated for machine amp load; troubleshoot and repair cause of overload; replace weak breaker; find/repair electrical short.  
5. Check for broken wires or disconnected/corroded connections, and repair/replace as necessary.  
6. Test for power on all legs and contactor operation. Replace unit if faulty.  
8. Replace switch.  
9. Inspect inverter/controller box; replace if faulty.  
10. Test/repair/replace. |
| Loud, repetitious noise coming from lathe at or near the motor. | 1. Pulley set screws or keys are missing or loose.  
2. Motor fan is hitting the cover. | 1. Inspect keys and set screws. Replace or tighten if necessary.  
2. Tighten fan, shim cover, or replace items. |
| Motor overheats. | 1. Motor overloaded. | 1. Allow motor to cool; reduce load on motor. |
| Motor is loud when cutting, or bogs down under load. | 1. Excessive depth of cut or feed rate.  
2. Spindle speed or feed rate wrong for cutting operation.  
3. Cutting tool is dull. | 1. Decrease depth of cut or feed rate.  
2. Refer to the feeds and speed charts in **Machinery’s Handbook** or a speeds and feeds calculator on the internet.  
3. Sharpen or replace the cutting tool. |
### Operation

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Possible Cause</th>
<th>Possible Solution</th>
</tr>
</thead>
</table>
| Entire machine vibrates upon startup and while running. | 1. Workpiece is unbalanced.  
2. Workpiece is hitting stationary object.  
3. Loose or damaged V-belt(s).  
4. V-belt pulleys are not properly aligned.  
5. Chuck or faceplate is unbalanced or not installed properly.  
6. Change gears not aligned or no backlash.  
7. Worn or broken gear present.  
8. Broken gear or bad bearing.  
9. Spindle bearings at fault. | 1. Re-install workpiece as centered with the spindle bore as possible.  
2. Stop lathe immediately and correct interference problem.  
3. Re-tension/replace the V-belt(s) as necessary (see Page 64).  
4. Align the V-belt pulleys.  
5. Check installation; re-balance chuck or faceplate; contact a local machine shop for help.  
6. Adjust change gears and establish backlash.  
7. Inspect gears, and replace if necessary.  
8. Replace broken gear or bearing.  
9. Reset spindle bearing preload or replace worn spindle bearings. |
| Bad surface finish. | 1. Wrong spindle speed or feed rate.  
2. Dull tooling or poor tool selection.  
3. Tool height not at spindle centerline.  
4. Too much play in gibs. | 1. Adjust for appropriate spindle speed and feed rate.  
2. Sharpen tooling or select a better tool for the intended operation.  
3. Adjust tool height to spindle centerline (see Page 40).  
4. Tighten gibs (see Page 61). |
| Tapered tool difficult to remove from tailstock quill. | 1. Quill is not retracted all the way back into the tailstock.  
2. Contaminants not removed from taper before inserting into quill. | 1. Turn the quill handwheel until it forces the tapered tool out of quill.  
2. Clean the taper and bore, then re-install tool. |
| Cross slide, compound rest, or carriage feed has sloppy operation. | 1. Gibs are out of adjustment.  
2. Handwheel is loose or backlash is high. | 1. Adjust gib (see Page 61).  
2. Tighten handwheel fasteners, adjust handwheel backlash to a minimum (see Page 60). |
| Cross slide, compound, or carriage feed handwheel hard to move. | 1. Dovetail ways loaded with shavings, dust, or grime.  
2. Gib screws are too tight.  
3. Backlash setting too tight.  
4. Bedways are dry. | 1. Clean ways and re-lubricate.  
2. Loosen gib screw(s) slightly (see Page 61).  
3. Slightly loosen backlash setting (see Page 60).  
4. Lubricate bedways/ball oilers. |
| Cutting tool or machine components vibrate excessively during cutting. | 1. Tool holder not tight enough.  
2. Cutting tool sticks too far out of tool holder; lack of support.  
3. Gibs are out of adjustment.  
4. Dull cutting tool.  
5. Incorrect spindle speed or feed rate. | 1. Check for debris, clean, and re-tighten.  
2. Re-install cutting tool so no more than ½ of the total length is sticking out of tool holder.  
3. Adjust gib at affected component (see Page 61).  
4. Replace or reshARPen cutting tool.  
5. Use the recommended spindle speed and feed rate. |
<table>
<thead>
<tr>
<th>Symptom</th>
<th>Possible Cause</th>
<th>Possible Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Workpiece is tapered.</td>
<td>1. Headstock and tailstock are not properly aligned with each other.</td>
<td>1. Re-align the tailstock to the headstock spindle centerline (see Page 34).</td>
</tr>
<tr>
<td>Chuck jaws will not move or do not move easily.</td>
<td>1. Chips lodged in the jaws or scroll plate.</td>
<td>1. Remove jaws, clean and lubricate scroll plate and jaws, then replace jaws.</td>
</tr>
<tr>
<td>Carriage will not feed or is hard to move.</td>
<td>1. Quick-change gears are not all engaged.</td>
<td>1. Adjust gear dials.</td>
</tr>
<tr>
<td></td>
<td>3. Carriage lock is tightened down.</td>
<td>3. Check to make sure the carriage lock bolt is fully released.</td>
</tr>
<tr>
<td></td>
<td>4. Chips have loaded up on bedways.</td>
<td>4. Frequently clean away chips that load up during turning operations and re-lubricate.</td>
</tr>
<tr>
<td></td>
<td>5. Bedways are dry and in need of lubrication.</td>
<td>5. Lubricate bedways/ball oilers.</td>
</tr>
<tr>
<td></td>
<td>6. Gibs are too tight.</td>
<td>6. Loosen gib screw(s) slightly (see Page 61).</td>
</tr>
<tr>
<td></td>
<td>7. Gears or shear pin broken.</td>
<td>7. Replace gears or shear pin (see Page 62).</td>
</tr>
<tr>
<td>Quick-change gear change dials will not shift into position.</td>
<td>1. Gears not aligned inside headstock/quick change gearbox.</td>
<td>1. Rotate spindle by hand with light pressure on the dial until gear falls into place.</td>
</tr>
</tbody>
</table>
Backlash Adjustment

Backlash is the amount of free play felt while changing rotation directions with the handwheel. This can be adjusted on the compound rest and cross slide leadscrews. Before beginning any adjustment, make sure all associated components are cleaned and lubricated, and the locks are loose.

**NOTICE**

Reducing backlash to less than 0.002" is impractical and can lead to accelerated wear to the leadscrew and other components. Avoid the temptation to overtighten the backlash nut or screw while adjusting.

**Compound Rest**

**Tools Needed:**

| Qty | Hex Wrench 5mm | 1 |
| Qty | Hex Wrench 10mm | 1 |

The compound rest backlash is adjusted by loosening or tightening the nut and set screw shown in Figure 90 to remove play between the handwheel and the leadscrew collar.

**Figure 90.** Compound rest backlash adjustment set screws.

To adjust the backlash, loosen the compound rest nut and set screw, turn the handwheel counterclockwise until the compound rest moves, then tighten the nut until the backlash is approximately 0.002"—0.003", as indicated on the graduated dial. Tighten the set screw to secure the setting.

**Cross Slide**

**Tools Needed:**

| Qty | Hex Wrench 4mm | 1 |
| Qty | Hex Wrench 5mm | 1 |
| Qty | Open-End Wrench 14mm | 1 |

The cross slide backlash is adjusted by loosening the cap screw shown in Figure 91. The screw pushes down on a wedge and forces the leadscrew nut apart, taking up lash between the nut and leadscrew.

**Figure 91.** Cross slide backlash adjustment cap screw.

To adjust the backlash, remove the compound rest. Then, rock the cross slide handwheel back and forth, and tighten the cap screw slowly until the backlash is approximately 0.002"—0.003" as indicated on the graduated dial.

If you end up adjusting the nut too tight, loosen the cap screw, turn the handwheel back and forth until it turns freely—then try again.

Re-install the compound rest when you are finished.
Gib Adjustment

The goal of adjusting the cross slide and compound slide gib is to remove sloppiness or "play" from the ways without making them overly stiff and difficult to move.

In general, loose gibbs cause poor finishes and tool chatter; however, over-tightened gibbs cause premature wear and make the handwheels difficult to turn.

**Tools Needed**

<table>
<thead>
<tr>
<th>Tool</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Open-End Wrench 8mm</td>
<td>1</td>
</tr>
<tr>
<td>Hex Wrench 2.5mm</td>
<td>1</td>
</tr>
</tbody>
</table>

To adjust the cross slide and compound slide gibbs:

1. DISCONNECT LATHE FROM POWER!
2. Loosen the three hex nuts on the side of the slide (see Figures 92–93).
3. Make adjustments in small and equal increments to the three set screws, then test the movement of the slide by rotating the handwheel.
   
   **Note:** Turning the set screws clockwise will tighten the gib, and turning them counterclockwise will loosen the gib.
4. When you are satisfied with the gib adjustment, keep the set screws from moving and re-tighten the hex nuts to secure the settings.
5. Re-check the movement of the slide and, if necessary, repeat Steps 2–4.
Half Nut Adjustment

The clamping pressure of the half nut is fully adjustable with a gib that can be loosened or tightened by two set screws. Use this procedure to adjust the half nut if it becomes loose from wear, or it is too tight for your preferences. A half nut that is too loose will make it difficult to produce accurate work; one that is too tight will increase the rate of wear on itself and the leadscrew.

Tools Needed

<table>
<thead>
<tr>
<th>Qty</th>
<th>Description</th>
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<tbody>
<tr>
<td>1</td>
<td>Open-End Wrench 8mm</td>
</tr>
<tr>
<td>1</td>
<td>Hex Wrench 5mm</td>
</tr>
<tr>
<td>1</td>
<td>Hex Wrench 2.5mm</td>
</tr>
</tbody>
</table>

To adjust the half nut:

1. **DISCONNECT LATHE FROM POWER!**

2. Disengage the half nut, then remove the thread dial.

3. Loosen the two adjustment hex nuts shown in Figure 94, then adjust the set screws in small, even increments so one end of the gib does not become tighter than the other.

4. Engage/disengage the half nut several times and notice how it feels. The adjustment is correct when the half nut has a slight drag while opening and closing. The movement should not be too stiff or too sloppy.

5. Repeat **Steps 3–4**, if necessary, until you are satisfied with the half nut pressure.

6. While keeping the set screws from moving, re-tighten the hex nuts, then re-install the thread dial.

![Figure 94. Typical half nut gib adjustment.](image)

Leadscrew Shear Pin Replacement

The longitudinal leadscrew is secured to the feed rate gearing in the headstock with the use of a soft-metal shear pin (see Figure 95). The shear pin is designed to break and disengage power to the leadscrew to help protect more expensive lathe components if you crash your carriage or take too large of a cut and overload the lathe.

To replace the shear pin:

1. **DISCONNECT LATHE FROM POWER!**

2. Rotate the leadscrew so the shear pin faces up and down. If the connecting collar rotates independently from the leadscrew, then rotate the collar so the shear pin holes align with those in the leadscrew.

3. Use the punch and hammer to drive out the pieces of the old shear pin.

4. Make sure the holes in the collar and leadscrew are aligned, then tap the new shear pin completely through the holes in the collar and leadscrew.

![Figure 95. Longitudinal leadscrew shear pin.](image)

Tools Needed

<table>
<thead>
<tr>
<th>Qty</th>
<th>Description</th>
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<tbody>
<tr>
<td>1</td>
<td>Hammer</td>
</tr>
<tr>
<td>1</td>
<td>Punch 2.5mm</td>
</tr>
</tbody>
</table>
V-Belt Tension & Replacement

V-Belts stretch and wear with use, so check the tension on a monthly basis to ensure optimal power transmission. Replace the V-belts if they become cracked, frayed, or glazed.

On the Model G0602/G0602Z, the **low range** V-belt tension is controlled by a tensioner between the secondary drive pulley (B) and spindle (C) pulley. The **high range** V-belt between the spindle (C) and motor (A) pulleys is tensioned by the motor.

On the Model G0752/G0752Z, V-belt tension is controlled by a tensioner between the spindle and motor pulleys.

**Tools Needed**

<table>
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<tr>
<td>Hex Wrench 5mm</td>
<td>1</td>
</tr>
<tr>
<td>Hex Wrench 8mm</td>
<td>1</td>
</tr>
</tbody>
</table>

**Tensioning V-Belt**

To tension the Model G0602/G0602Z low range V-belt or Model G0752/G0752Z V-belt:

1. **DISCONNECT LATHE FROM POWER!**
2. Open the change gear cover.
3. Loosen the tensioner lock nut (Model G0602/G0602Z) or tensioner lock bolt (Model G0752/G0752Z) shown in Figures 96–97.
4. Push the tensioner against the V-belt to tension it, then secure the tensioner.
5. The V-belt is correctly tensioned when there is approximately ¼" deflection when it is pushed with moderate pressure, as shown in Figure 98.

---

**Figure 97.** Model G0752 tensioner and lock bolt.

---

**Figure 98.** Correct V-belt deflection.

---

—if there is more than ¼" deflection when the V-belt is pushed with moderate pressure, loosen the tensioner, adjust it so the tension is correct, then secure the tensioner.

5. Secure the change gear cover.
To tension the Model G0602/G0602Z high range V-belt:


2. Lower the motor and re-tighten the mounting hex nuts. The high range V-belt is correctly tensioned when there is approximately 1/4" deflection when it is pushed with moderate pressure, as shown in Figure 98 on Page 63.

   —If there is more than 1/4" deflection when the V-belt is pushed with moderate pressure, loosen the motor mount nuts, lower the motor as needed, then tighten the nuts.

3. Check the timing belt tension (refer to Step 5 of "Tensioning Timing Belt" on Page 65).

4. Secure the change gear cover.

Replacing V-Belt

1. DISCONNECT LATHE FROM POWER!

2. Open the change gear cover.

3. Model G0602/G0602Z:

   —If the high range belt (Figure 99) needs to be replaced, loosen the motor mount hex nuts, (see Figure 102 on Page 65), raise the motor, and carefully roll the belt off of pulleys A and C. Install a new V-belt, then follow the steps in "To tension the Model G0602/0602Z high range V-belt" above.

Model G0752/G0752Z:

Loosen the tensioner lock bolt, then pivot the tensioner to the left and secure it temporarily. Remove the V-belt (see Figure 101) and re-install the new one. Follow Steps 4-5 on Page 63 to tension the belt.

---

Figure 99. Model G0602 high-range belt.

Figure 100. Model G0602 low-range belt.

Figure 101. Model G0752 V-Belt.
Timing Belt Tension & Replacement

On the Model G0602/G0602Z the timing belt transfers power from the motor to the secondary drive pulley (see Figure 102). If the timing belt becomes excessively worn or damaged, you will need to replace it.

Tools Needed

<table>
<thead>
<tr>
<th>Qty</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Hex Wrench 5mm</td>
</tr>
<tr>
<td>1</td>
<td>Open-End Wrench 14mm</td>
</tr>
</tbody>
</table>

Tensioning Timing Belt

1. DISCONNECT LATHE FROM POWER!
2. Open the change gear cover.
3. Loosen the motor mount hex nuts (see Figure 102).
   
   **Note:** It may be more convenient to access the motor mount hex nuts if you first remove the rear splash guard.
4. Lower the motor and re-tighten the mounting hex nuts.
5. Check the timing belt tension: It is correctly tensioned when there is approximately $\frac{1}{4}$" deflection when it is pushed with moderate pressure, as shown in Figure 103.

Replacing Timing Belt

1. DISCONNECT LATHE FROM POWER!
2. Open the change gear cover.
3. Loosen the four motor mount hex nuts (see Figure 102) then remove the low or high range V-belt (refer to Replacing V-Belt on Page 64).
   
   **Note:** It may be more convenient to access the motor mount hex nuts if you first remove the rear splash guard.
4. Raise the motor up, roll the old timing belt off the pulleys and replace it with a new one, making sure that the belt teeth are seated in the pulley indents.
5. Re-install the high or low range V-Belt—depending upon your setup (refer to Replacing V-Belt on Page 64).
6. Tension the timing belt and V-belt. Refer to Tensioning Timing-Belt on this page, and the instructions for tensioning the applicable V-belt on Pages 63–64.

---

Figure 102. Timing belt and motor mount hex nuts.

Figure 103. Correct timing-belt deflection.

—If there is more than $\frac{1}{4}$" deflection when the belt is pushed with moderate pressure, loosen the motor mount nuts, lower the motor, adjust belt tension as required, then tighten the nuts.

—If the high range V-belt is installed, check the V-belt tension. Refer to "To tension the Model G0602 high range V-belt" instructions on Page 64.

6. Secure the change gear cover.
SECTION 8: WIRING

These pages are current at the time of printing. However, in the spirit of improvement, we may make changes to the electrical systems of future machines. Compare the manufacture date of your machine to the one stated in this manual, and study this section carefully.

If there are differences between your machine and what is shown in this section, call Technical Support at (570) 546-9663 for assistance BEFORE making any changes to the wiring on your machine. An updated wiring diagram may be available. Note: Please gather the serial number and manufacture date of your machine before calling. This information can be found on the main machine label.

WARNING

Wiring Safety Instructions

SHOCK HAZARD. Working on wiring that is connected to a power source is extremely dangerous. Touching electrified parts will result in personal injury including but not limited to severe burns, electrocution, or death. Disconnect the power from the machine before servicing electrical components!

MODIFICATIONS. Modifying the wiring beyond what is shown in the diagram may lead to unpredictable results, including serious injury or fire. This includes the installation of unapproved aftermarket parts.

WIRE CONNECTIONS. All connections must be tight to prevent wires from loosening during machine operation. Double-check all wires disconnected or connected during any wiring task to ensure tight connections.

CIRCUIT REQUIREMENTS. You MUST follow the requirements at the beginning of this manual when connecting your machine to a power source.

WIRE/COMPONENT DAMAGE. Damaged wires or components increase the risk of serious personal injury, fire, or machine damage. If you notice that any wires or components are damaged while performing a wiring task, replace those wires or components.

MOTOR WIRING. The motor wiring shown in these diagrams is current at the time of printing but may not match your machine. If you find this to be the case, use the wiring diagram inside the motor junction box.

CAPACITORS/INVERTERS. Some capacitors and power inverters store an electrical charge for up to 10 minutes after being disconnected from the power source. To reduce the risk of being shocked, wait at least this long before working on capacitors.

EXPERIENCING DIFFICULTIES. If you are experiencing difficulties understanding the information included in this section, contact our Technical Support at (570) 546-9663.

NOTICE

The photos and diagrams included in this section are best viewed in color. You can view these pages in color at www.grizzly.com.

COLOR KEY

BLACK (B) BLUE (Bl) YELLOW (Y)
WHITE (W) BROWN (Br) GREEN (G)
GREEN (Gr) GRAY (Gl) PURPLE (Pu)
RED (Rd) ORANGE (Or) PINK (Pk)
LIGHT BLUE (LB) BLUE (B)
WHITE (W) TURQUOISE (Tu)
G0602/G0602Z Wiring Diagram

Model G0602/Z, G0752/Z (Mfd. Since 03/20)

READ ELECTRICAL SAFETY ON PAGE 66!
G0602/G0602Z Electrical Components

**Figure 104.** Spindle direction switch and ON button.

**Figure 107.** Spindle direction switch and emergency stop switch.

**Figure 105.** Electrical box.

**Figure 108.** Magnetic contactor.

**Figure 106.** Motor connection detail.
G0752/G0752Z Wiring Box Components

Figure 109. G0752 electrical box.
G0752/G0752Z Control Panel Wiring Diagram

To Wiring Box Page 69
Spindle Speed Circuit Board
See Figure 113, Page 72

To Wiring Box Page 69
To Wiring Box Page 69
Spindle Speed Sensor
See Figure 115, on Page 72

VS Dial (Potentiometer)
See Figure 112, Page 72

W XD3-13

RPM Display
See Figure 111, Page 72

Spindle Direction Switch
OFF Button Switch
ON Button Switch
E-Stop Button Switch

Control Panel
(Viewed from Behind)
See Figure 110, on Page 72

See Figure 110, on Page 72
G0752/G0752Z Control Panel Components

Figure 110. Control panel.

Figure 111. RPM display.

Figure 112. Variable-speed dial.

Figure 113. Spindle speed circuit board.

Figure 114. Right junction box.

Figure 115. Spindle speed sensor.

READ ELECTRICAL SAFETY ON PAGE 66!
G0752/G0752Z Motor Wiring Diagram

Figure 116. Left motor junction box.

Figure 117. Right motor junction box.
### Spindle & Drive Belt Parts

<table>
<thead>
<tr>
<th>REF</th>
<th>PART #</th>
<th>DESCRIPTION</th>
<th>REF</th>
<th>PART #</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
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<td>P0602001</td>
<td>HEADSTOCK REAR COVER</td>
<td>38</td>
<td>P0602038</td>
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<td>39</td>
<td>P0602039</td>
<td>SPACER</td>
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<td>P0602003</td>
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**Please Note:** We do our best to stock replacement parts whenever possible, but we cannot guarantee that all parts shown here are available for purchase. Call (800) 523-4777 or visit our online parts store at [www.grizzly.com](http://www.grizzly.com) to check for availability.
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Bed & Leadscrew

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## Steady Rest & Follow Rest

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501A | P0602501A | STEADY REST ASSEMBLY
501 | P0602501 | STEADY REST CASTING
502 | P0602502 | FINGER
503 | P0602503 | SHOULDERT BOLT
504 | PLW03M | LOCK WASHER 6MM
505 | PN01M | HEX NUT M6-1
506 | P0602506 | ADJUSTING SCREW
507 | P0602507 | CLAMPING PLATE
508 | PB125M | HEX BOLT M12-1.75 X 65
509 | PW06M | FLAT WASHER 12MM

### REF | PART # | DESCRIPTION
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510 | PN09M | HEX NUT M12-1.75
511A | P0602511A | FOLLOW REST ASSEMBLY
511 | P0602511 | FOLLOW REST CASTING
512 | P0602502 | FINGER
513 | P0602503 | SHOULDERT BOLT
514 | P0602506 | ADJUSTING SCREW
515 | PN01M | HEX NUT M6-1
516 | PLW03M | LOCK WASHER 6MM
517 | PCAP40M | CAP SCREW M8-1.25 X 35
518 | PW01M | FLAT WASHER 8MM
# G0602/G0602Z Motor & Electrical

## REF | PART # | DESCRIPTION
--- | --- | ---
601 | P0602601 | ELECTRICAL CABINET
602 | PCAP06M | CAP SCREW M6-1 X 25
603 | PLW03M | LOCK WASHER 6MM
604 | P0602604 | ELECTRICAL CABINET COVER
607 | P0602607 | STRAIN RELIEF NUT
608 | P0602608 | STRAIN RELIEF M25-1.5
610 | PS17M | PHLP HD SCR M4-.7 X 6
611V2 | P0602611V2 | MOTOR 1HP 110V 1-PH ALUM BDY V2.09.08
611V2-1 | P0602611V2-1 | MOTOR FAN
611V2-2 | P0602611V2-2 | MOTOR FAN COVER
611V2-3 | PC150 | S CAPACITOR 150M 125V
611V2-4 | P0602611V2-4 | R CAPACITOR 20M 400V
611V2-5 | P0602611V2-5 | CAPACITOR COVER
611V2-6 | P0602611V2-6 | POWER CORD 14G 3W 60° 5-15P
611V2-7 | P0602611V2-7 | MOTOR JUNCTION BOX
612 | PW05M | FLAT WASHER 4MM
615 | P0602615 | STRAIN RELIEF M20-1.5
616 | P0602616 | STRAIN RELIEF NUT
617 | P0602617 | CONTACTOR SIEMENS 3TB41 22E 110V
618 | P0602618 | E-STOP BUTTON MINGER LA125H-BE102C
619 | P0602619 | ON PUSH BUTTON MINGER LA125H-BE101C
620 | P0602620 | ROTARY SWITCH CANSEN LW26-20 M09T/3
621 | P0602621 | G0602 CONTROL PANEL

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Model G0602/Z, G0752Z (Mfd. Since 03/20)

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**Model G0602/Z, G0752/Z (Mfd. Since 03/20)**

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## Change Gears

![Diagram](image)

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G0602Z/G0752Z Cross Slide & Carriage

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*BUY PARTS ONLINE AT GRIZZLY.COM!*  
Scan QR code to visit our Parts Store.
G0602/G0602Z Labels & Cosmetics

REF PART # DESCRIPTION
66 P0602066 SAFETY GLASSES LABEL ALUMINUM
855 P0602855 READ MANUAL LABEL ALUMINUM
940 P0602940 MACHINE ID LABEL ALUMINUM
941 P0602941 ENTANGLEMENT LABEL ALUMINUM
946 P0602946 SHIFT NOTICE LABEL ALUMINUM
947 P0602947 DISCONNECT POWER LABEL ALUMINUM

REF PART # DESCRIPTION
948 P0602948 CARRIAGE FEED DAMAGE LABEL ALUM
949 P0602949 GRIZZLY TOUCH-UP PAINT
950 P0602950 PUTTY TOUCH-UP PAINT
951 P0602951 STOP OIL FILL TAG
1001 P0602Z1001 MACHINE ID LABEL

WARNING
Safety labels help reduce the risk of serious injury caused by machine hazards. If any label comes off or becomes unreadable, the owner of this machine MUST replace it in the original location before resuming operations. For replacements, contact (800) 523-4777 or www.grizzly.com.
G0752/G0752Z Labels & Cosmetic

REF PART # DESCRIPTION
---
625 P0752625 G0752 CONTROL PANEL
940 P0752940 G0752 MACHINE ID LABEL
941 P0752941 ENTANGLEMENT LABEL
946 P0752946 DISCONNECT POWER LABEL
947 P0752947 ENTANGLEMENT-GEARS LABEL
948 P0752948 IMPACT INJURY HAZARD LABEL

949 P0752949 SPINDLE SPEED HAZARD LABEL
950 P0752950 PUTTY TOUCH-UP PAINT
951 P0752951 GRIZZLY GREEN TOUCH-UP PAINT
952 P0752952 STOP OIL FILL TAG
1001 P0752Z1001 G0752Z MACHINE ID LABEL
1004 P0752Z1004 G0752Z CONTROL PANEL

WARNING!
To reduce risk of death or serious injury, read manual BEFORE using machine. To get a new manual, call (800) 523-4777 or go to www.grizzly.com.
SECTION 10: APPENDIX

G0602/G0602Z Charts

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-91-

Model G0602/Z, G0752Z (Mfd. Since 03/20)
## G0752/G0752Z Charts

### Chart 1

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Grizzly Industrial, Inc. warrants every product it sells for a period of 1 year to the original purchaser from the date of purchase. This warranty does not apply to defects due directly or indirectly to misuse, abuse, negligence, accidents, repairs or alterations or lack of maintenance. This is Grizzly's sole written warranty and any and all warranties that may be implied by law, including any merchantability or fitness, for any particular purpose, are hereby limited to the duration of this written warranty. We do not warrant or represent that the merchandise complies with the provisions of any law or acts unless the manufacturer so warrants. In no event shall Grizzly's liability under this warranty exceed the purchase price paid for the product and any legal actions brought against Grizzly shall be tried in the State of Washington, County of Whatcom.

We shall in no event be liable for death, injuries to persons or property or for incidental, contingent, special, or consequential damages arising from the use of our products.

The manufacturers reserve the right to change specifications at any time because they constantly strive to achieve better quality equipment. We make every effort to ensure that our products meet high quality and durability standards and we hope you never need to use this warranty.

In the event you need to use this warranty, contact us by mail or phone and give us all the details. We will then issue you a “Return Number,” which must be clearly posted on the outside as well as the inside of the carton. We will not accept any item back without this number. Proof of purchase must accompany the merchandise.

Please feel free to write or call us if you have any questions about the machine or the manual.

Thank you again for your business and continued support. We hope to serve you again soon.

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