Owner's Manual & Safety Instructions

Save This Manual Keep this manual for the safety warnings and precautions, assembly, operating, inspection, maintenance and cleaning procedures. Write the product's serial number in the back of the manual (or month and year of purchase if product has no number). Keep this manual and the receipt in a safe and dry place for future reference. 22g

CENTRAL® MACHINERY

5-SPEED WOOD PEN LATHE



58358

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Email our technical support at: productsupport@harborfreight.com

When unpacking, make sure that the product is intact and undamaged. If any parts are missing or broken, please call 1-888-866-5797 as soon as possible.

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No portion of this manual or any artwork contained herein may be reproduced in any shape or form without the express written consent of Harbor Freight Tools. Diagrams within this manual may not be drawn proportionally. Due to continuing improvements, actual product may differ slightly from the product described herein. Tools required for assembly and service may not be included.

⚠WARNING

Read this material before using this product. Failure to do so can result in serious injury. SAVE THIS MANUAL.

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CENTRAL® MACHINERY

WARNING SYMBOLS AND DEFINITIONS	
⚠	This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.
⚠ DANGER	Indicates a hazardous situation which, if not avoided, will result in death or serious injury.
⚠ WARNING	Indicates a hazardous situation which, if not avoided, could result in death or serious injury.
⚠ CAUTION	Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.
NOTICE CAUTION	Addresses practices not related to personal injury.

IMPORTANT SAFETY INFORMATION

General Tool Safety Warnings

⚠ WARNING

Read all safety warnings and instructions.
Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.
Save all warnings and instructions for future reference.

1. KEEP GUARDS IN PLACE and in working order.
2. REMOVE ADJUSTING KEYS AND WRENCHES. Form habit of checking to see that keys and adjusting wrenches are removed from tool before turning it on.
3. KEEP WORK AREA CLEAN. Cluttered areas and benches invite accidents.
4. DON'T USE IN DANGEROUS ENVIRONMENT. Don't use power tools in damp or wet locations, or expose them to rain. Keep work area well lighted.
5. KEEP CHILDREN AWAY. All visitors should be kept safe distance from work area.
6. MAKE WORKSHOP KID PROOF with padlocks, master switches, or by removing starter keys.

7. DON'T FORCE TOOL. It will do the job better and safer at the rate for which it was designed.

8. USE RIGHT TOOL. Don't force tool or attachment to do a job for which it was not designed.

Table A: RECOMMENDED MINIMUM WIRE GAUGE FOR EXTENSION CORDS (120 VOLT)

NAMEPLATE AMPERES (at full load)	EXTENSION CORD LENGTH			
	25′	50′	100′	150′
0 – 6	18	16	16	14
6.1 – 10	18	16	14	12
10.1 – 12	16	16	14	12
12.1 – 16	14	12	**Do not use.**	

9. USE PROPER EXTENSION CORD. Make sure your extension cord is in good condition. When using an extension cord, be sure to use one heavy enough to carry the current your product will draw. An undersized cord will cause a drop in line voltage resulting in loss of power and overheating. Table A shows the correct size to use depending on cord length and nameplate ampere rating. If in doubt, use the next heavier gauge. The smaller the gauge number, the heavier the cord.

10. WEAR PROPER APPAREL. Do not wear loose clothing, gloves, neckties, rings, bracelets, or other jewelry which may get caught in moving parts. Nonslip footwear is recommended. Wear protective hair covering to contain long hair.

11. ALWAYS USE SAFETY GLASSES. Also use face or dust mask if cutting operation is dusty. Everyday eyeglasses only have impact resistant lenses, they are NOT safety glasses.

12. SECURE WORK. Use clamps or a vise to hold work when practical. It's safer than using your hand and it frees both hands to operate tool.

13. DON'T OVERREACH. Keep proper footing and balance at all times.

14. MAINTAIN TOOLS WITH CARE. Keep tools sharp and clean for best and safest performance. Follow instructions for lubricating and changing accessories.

15. DISCONNECT TOOLS before servicing; when changing accessories, such as blades, bits, cutters, and the like.

16. REDUCE THE RISK OF UNINTENTIONAL STARTING. Make sure switch is in off position before plugging in.

17. USE RECOMMENDED ACCESSORIES. Consult the owner's manual for recommended accessories. The use of improper accessories may cause risk of injury to persons.

18. NEVER STAND ON TOOL. Serious injury could occur if the tool is tipped or if the cutting tool is unintentionally contacted.

19. CHECK DAMAGED PARTS. Before further use of the tool, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function – check for alignment of moving parts, binding of moving parts, breakage of parts, mounting, and any other conditions that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced.

20. DIRECTION OF FEED. Feed work into a blade or cutter against the direction of rotation of the blade or cutter only.

21. NEVER LEAVE TOOL RUNNING UNATTENDED. TURN POWER OFF. Don't leave tool until it comes to a complete stop.

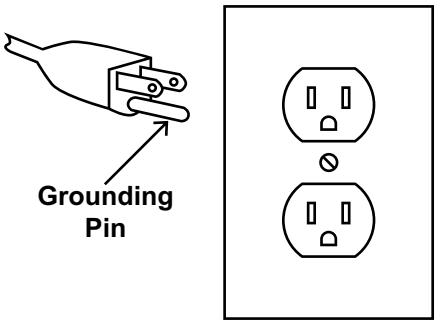
Grounding Instructions

⚠WARNING

TO PREVENT ELECTRIC SHOCK AND DEATH FROM INCORRECT GROUNDING WIRE CONNECTION READ AND FOLLOW THESE INSTRUCTIONS:

110-120 VAC Grounded Tools: Tools with Three Prong Plugs

1. In the event of a malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This tool is equipped with an electric cord having an equipment-grounding conductor and a grounding plug. The plug must be plugged into a matching outlet that is properly installed and grounded in accordance with all local codes and ordinances.
2. Do not modify the plug provided – if it will not fit the outlet, have the proper outlet installed by a qualified electrician.
3. Improper connection of the equipment-grounding conductor can result in a risk of electric shock. The conductor with insulation having an outer surface that is green with or without yellow stripes is the equipment-grounding conductor. If repair or replacement of the electric cord or plug is necessary, do not connect the equipment-grounding conductor to a live terminal.
4. Check with a qualified electrician or service personnel if the grounding instructions are not completely understood, or if in doubt as to whether the tool is properly grounded.
5. Use only 3-wire extension cords that have 3-prong grounding plugs and 3-pole receptacles that accept the tool's plug.
6. Repair or replace damaged or worn cord immediately.



125 VAC 3-Prong Plug and Outlet (for up to 125 VAC and up to 15 A)

7. This tool is intended for use on a circuit that has an outlet that looks like the one illustrated above in **125 VAC 3-Prong Plug and Outlet**. The tool has a grounding plug that looks like the plug illustrated above in **125 VAC 3-Prong Plug and Outlet**.
8. The outlet must be properly installed and grounded in accordance with all codes and ordinances.
9. Do not use an adapter to connect this tool to a different outlet.

Lathe Tool Safety Warnings

For Your Own Safety Read Instruction Manual Before Operating Tool Lathe

1. Wear eye protection.
2. Do not wear gloves, necktie, or loose clothing.
3. Tighten all locks before operating.
4. Rotate workpiece by hand before applying power.
5. Rough out workpiece before installing on faceplate.
6. Do not mount split workpiece or one containing knot.
7. Use lowest speed when starting new workpiece.
8. **DO NOT OPERATE WITH ANY GUARD DISABLED, DAMAGED, OR REMOVED. Moving guards must move freely and close instantly.**
9. The use of accessories or attachments not recommended by the manufacturer may result in a risk of injury to persons.
10. When servicing use only identical replacement parts.
11. Do not depress the spindle lock when starting or during operation.
12. Only use safety equipment that has been approved by an appropriate standards agency. Unapproved safety equipment may not provide adequate protection. Eye protection must be ANSI-approved and breathing protection must be NIOSH-approved for the specific hazards in the work area.

13. Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating power tools may result in serious personal injury.

14. Industrial applications must follow OSHA guidelines.

15. Maintain labels and nameplates on the tool. These carry important safety information. If unreadable or missing, contact Harbor Freight Tools for a replacement.

16. Avoid unintentional starting. Prepare to begin work before turning on the tool.

17. People with pacemakers should consult their physician(s) before use. Electromagnetic fields in close proximity to heart pacemaker could cause pacemaker interference or pacemaker failure.

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

Vibration Safety

This tool vibrates during use. Repeated or long-term exposure to vibration may cause temporary or permanent physical injury, particularly to the hands, arms and shoulders. To reduce the risk of vibration-related injury:

1. Anyone using vibrating tools regularly or for an extended period should first be examined by a doctor and then have regular medical check-ups to ensure medical problems are not being caused or worsened from use. Pregnant women or people who have impaired blood circulation to the hand, past hand injuries, nervous system disorders, diabetes, or Raynaud's Disease should not use this tool. If you feel any medical or physical symptoms related to vibration (such as tingling, numbness, and white or blue fingers), seek medical advice as soon as possible.

2. Do not smoke during use. Nicotine reduces the blood supply to the hands and fingers, increasing the risk of vibration-related injury.

3. Use tools with the lowest vibration when there is a choice between different processes.

4. Include vibration-free periods each day of work.

5. Grip workpiece as lightly as possible (while still keeping safe control of it). Let the tool do the work.

6. To reduce vibration, maintain the tool as explained in this manual. If any abnormal vibration occurs, stop use immediately.

SAVE THESE INSTRUCTIONS.

Specifications

Electrical Rating	110VAC / 60Hz / 370W / 3.3A
Spindle Speeds	760 / 1100 / 1600 / 2200 / 3200 RPM
Spindle Size	1″ x 8 TPI
Swing Over Bed	10″
Swing Over Tool Rest	7-1/4″
Tailstock Taper	MT2
Tailstock Quill Bore	3/8″
Tailstock Quill Travel	1-3/4″
Weight	77 lbs
Distance Between Centers	18″ Max.

Setup - Before Use

Read the ENTIRE IMPORTANT SAFETY INFORMATION section at the beginning of this manual including all text under subheadings therein before set up or use of this product.

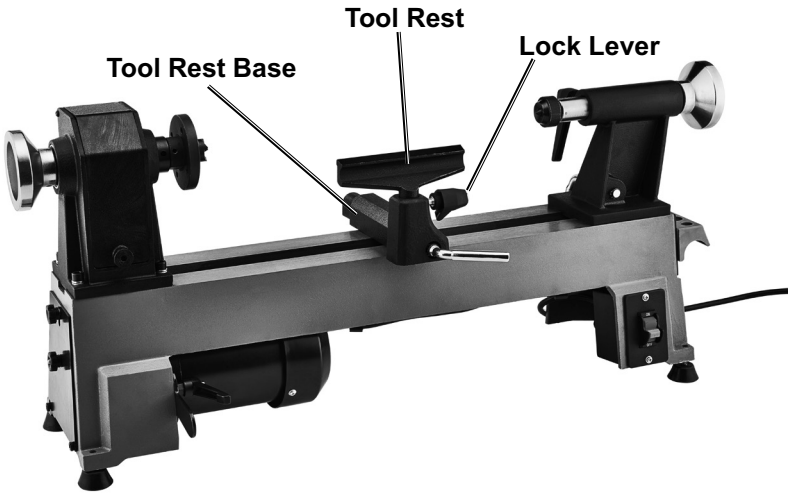
⚠WARNING

TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION:
Turn the Power Switch of the tool off and unplug the tool from its electrical outlet before performing any procedure in this section.

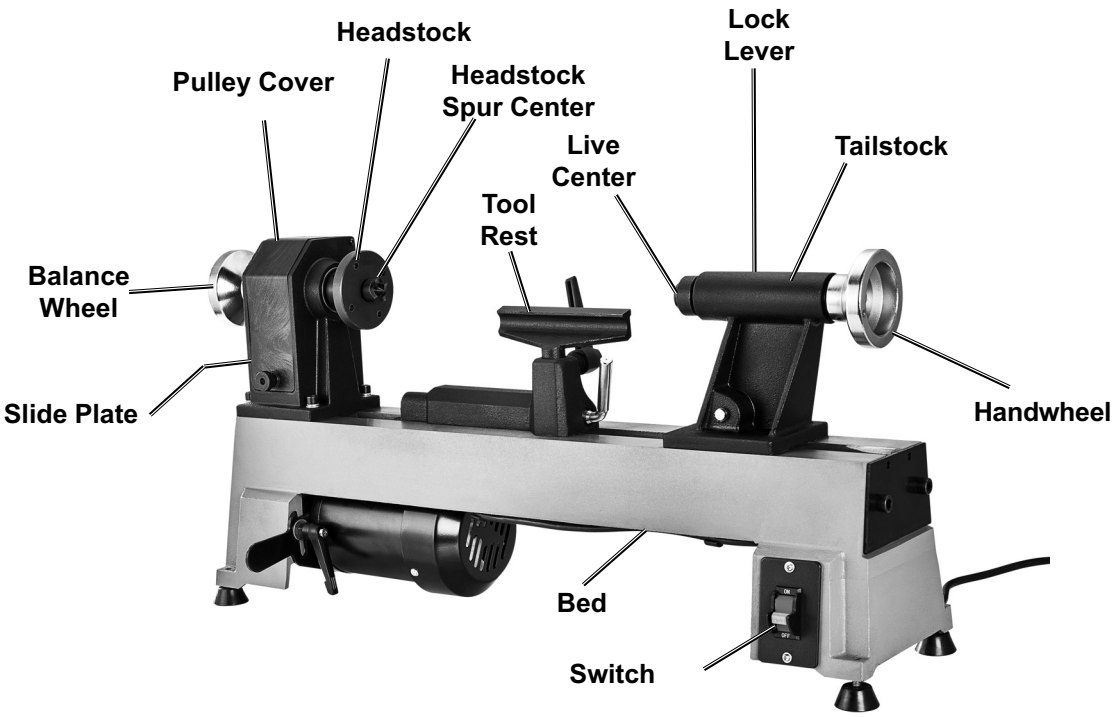
Note: For additional information regarding the parts listed in the following pages, refer to the Assembly Diagram near the end of this manual.

Assembly/Mounting

1. To install the Tool Rest, loosen the Lock Lever. Insert the Tool Rest into the Tool Rest Base. Retighten the Lock Lever to secure the Tool Rest in place.



Functions


Headstock
Lock Lever
Pulley Cover
Headstock Spur Center
Live Center
Tailstock
Tool Rest
Balance Wheel
Slide Plate
Handwheel
Bed
Switch

Read the ENTIRE IMPORTANT SAFETY INFORMATION section at the beginning of this manual including all text under subheadings therein before set up or use of this product.

Tool Set Up

⚠WARNING

TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION:
Turn the Power Switch of the tool off and unplug the tool from its electrical outlet before performing any procedure in this section.

TO PREVENT SERIOUS INJURY:
DO NOT OPERATE WITH ANY GUARD DISABLED, DAMAGED, OR REMOVED.
Moving guards must move freely and close instantly.

Workpiece and Work Area Set Up

1. Designate a work area that is clean and well-lit. The work area must not allow access by children or pets to prevent distraction and injury.
2. The Lathe will need to be located on a surface capable of bearing the combined weight of the Lathe and intended workpieces. The surface must be able to withstand the vibration generated by the Lathe during operation.
3. The Lathe must be completely level, left-to-right **and** front-to-back, or the Lathe will not rotate properly and may become damaged.
4. The unpainted surfaces are coated with a waxy oil to protect them from corrosion during shipment. Remove the coating with a solvent cleaner or citrus-based degreaser. Avoid chlorine-based solvents since they will damage the paint.
5. Route the power cord along a safe route to reach the work area without creating a tripping hazard or exposing the power cord to possible damage. The power cord must reach the work area with enough extra length to allow free movement while working.
6. There must not be objects, such as utility lines, nearby that will present a hazard while working.

General Operating Instructions

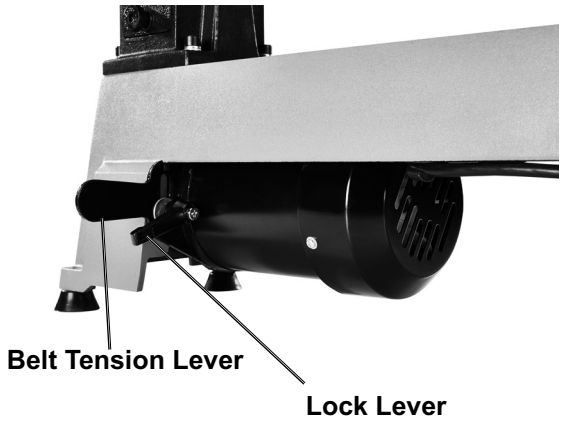
1. Make sure the Switch is in the off-position, then plug in the tool.
2. Turn on the tool.
3. To prevent accidents, turn off the tool and unplug the tool from its electrical outlet after use. Clean, then store the tool indoors out of children's reach.

To Adjust the Spindle Speed (RPM)

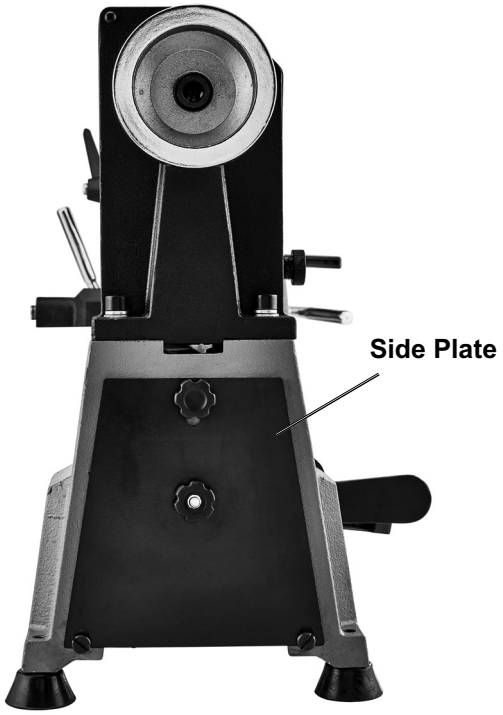
⚠WARNING

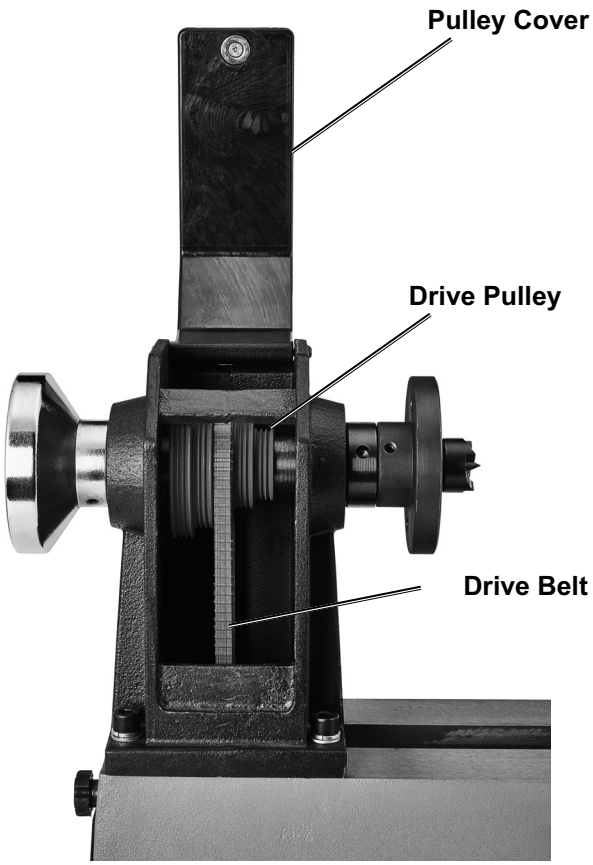
TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION:
Turn the Power Switch of the tool off and unplug the tool from its electrical outlet before performing any procedure in this section.

1. Loosen the Motor Mount Screw (65) securing the Motor Mount Plate (31) to the casting.
2. Loosen the Lock Lever then pull up the Belt Tension Lever to release tension from the Drive Belt.
3. Tighten Lock Lever to hold motor in raised position.

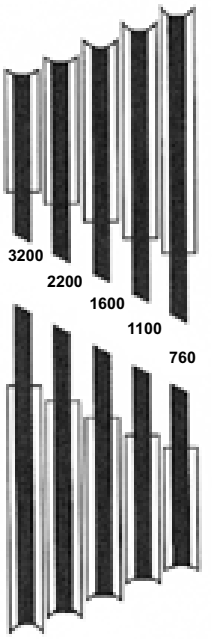


4. Open the Pulley Cover and Side Plate.



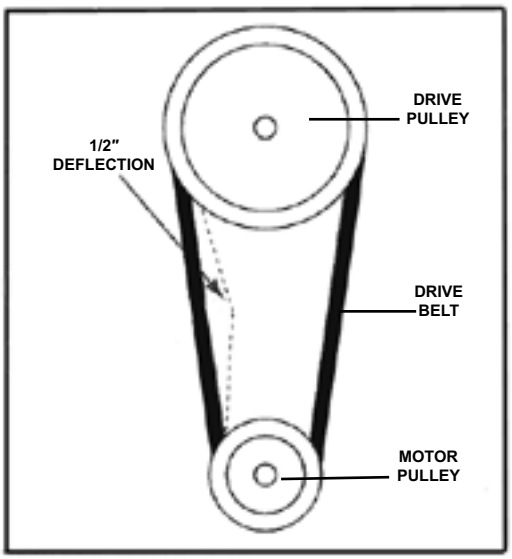


5. Locate the desired speed on the Speed Chart on the rear of the Lathe Bed and move the Drive Belt to the proper grooves on the drive Pulley and Motor Pulley.



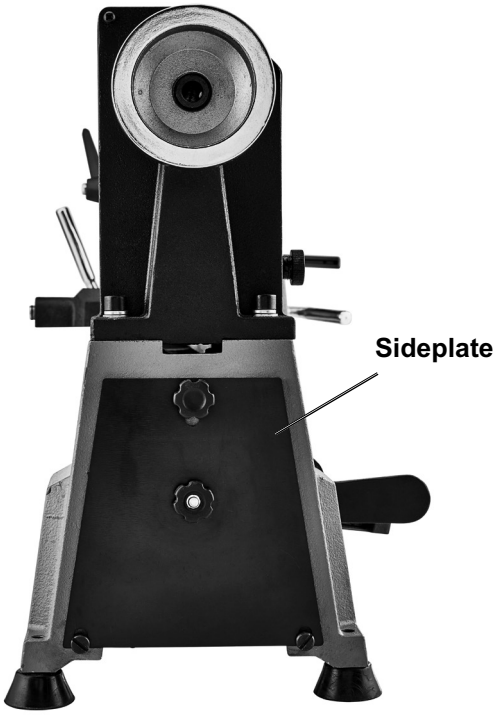
6. Loosen Lock Lever.

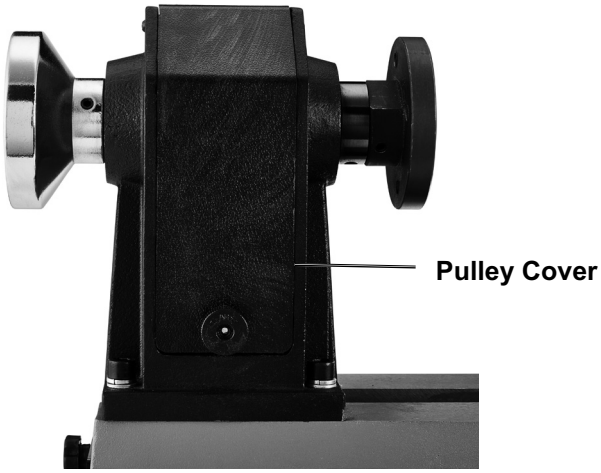
7. Move the Belt Tension Lever down, adjusting tension so that 1/2″ of Drive Belt deflection is measured then retighten the Lock Lever.



8. Retighten the Motor Mount Screw (65).

9. Replace the Pulley Cover and Sideplate.

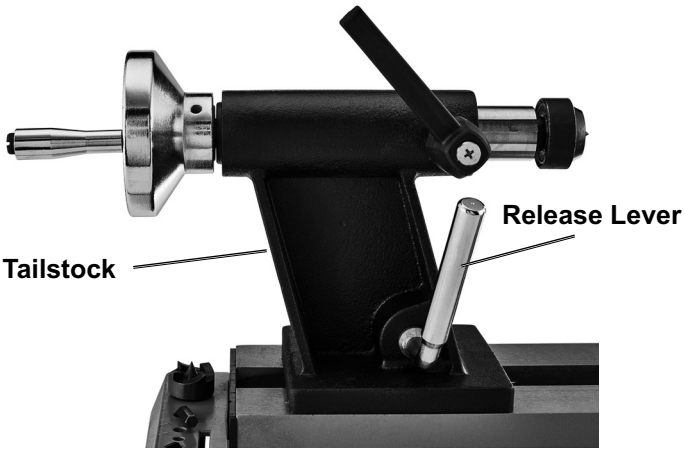




To Adjust the Tailstock

1. Loosen the Release Lever and move the Tailstock to the desired position. Then retighten the Release Lever.

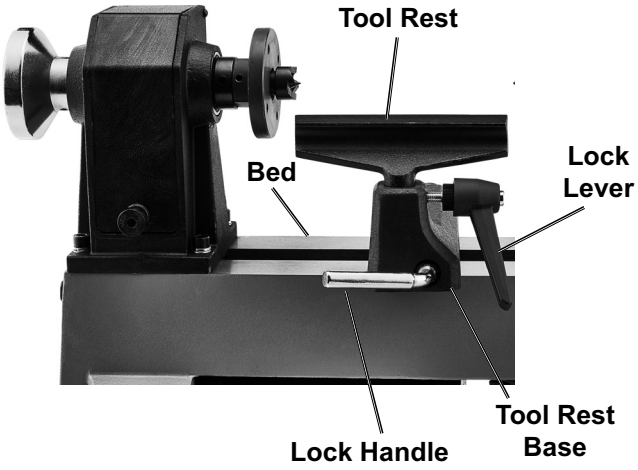
Note: If the Release Lever will not release or lock the Tailstock (either too tight or too loose), tighten or loosen the nut located on the underside of the Tailstock in small increments as needed to achieve the proper clamping pressure.



To Adjust the Tool Rest

1. Loosen the Lock Handle and slide the Tool Rest Base along the Bed to the desired position. Then retighten the Lock Handle.

2. Loosen the Lock Lever and adjust the Tool Rest vertically or swivel it as needed. Then retighten the Lock Lever.

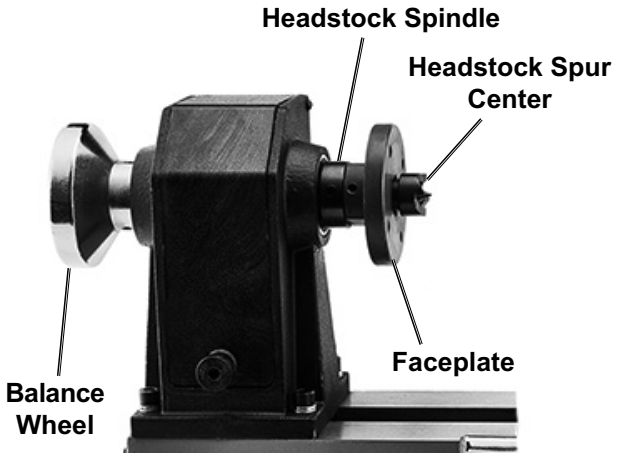


To Install and Remove the Spur Center

Note: The Spur Center can be used with or without the Faceplate mounted to the Spindle.

1. To install, insert the tapered end of the Headstock Spur Center into the Headstock Spindle. Make sure the Headstock Spur Center is securely installed by giving it a quick pull. A properly installed Headstock Spur Center will not pull out by hand.
2. To remove, insert the Knockout Rod through Balance Wheel and Spindle, and tap the inserted end of Spur Center until it comes out.

Note: Hold Spur Center with one hand to prevent it from falling and being damaged.



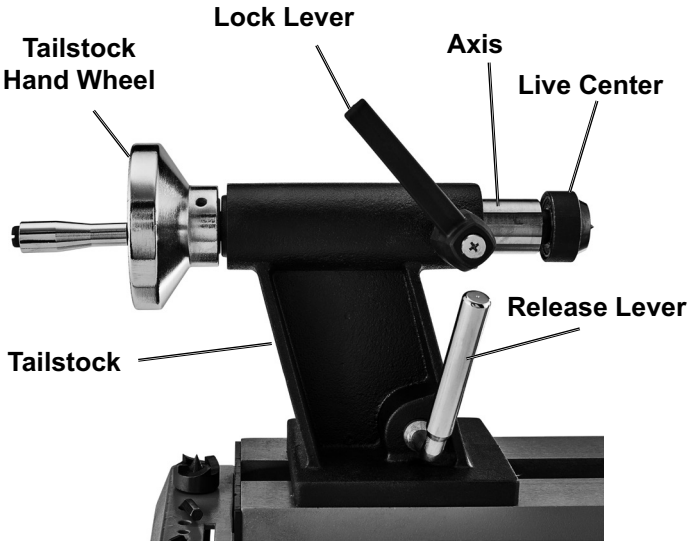
To Install and Remove the Live Center

⚠WARNING

The Lock Lever must always be locked down while the Lathe is in use. The workpiece can be thrown from the Lathe if this step is not followed. The Tail Axis should not protrude from the Tailstock more than 2″ or the Tail Axis will not be supported enough. Failure to follow these warnings may result in personal injury.

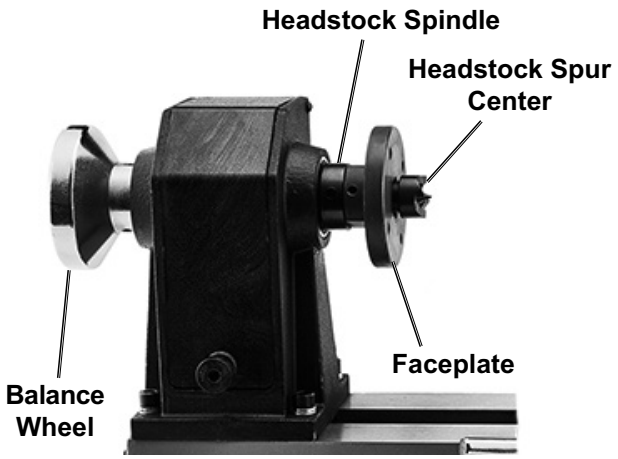
1. To install, loosen the Lock Lever approximately half a turn counterclockwise.
2. Rotate the Tailstock Handwheel clockwise until the Tail Axis protrudes out of the tailstock about 3/4″.
3. Insert the Live Center and push firmly. Then retighten the Lock Lever.
4. To remove, loosen the Lock Lever approximately half a turn counter clockwise.
5. Rotate the Tailstock Handwheel counterclockwise until the Tail Axis bottoms out, causing the Live Center to be forced out of the Tail Axis.

Note: Hold Live Center with one hand to prevent it from falling and being damaged.



To Install and Remove the Faceplate

1. To install, thread the Faceplate onto the Headstock Spindle until it is secure against the shoulder on the Headstock Spindle. Tighten the set screw on the Faceplate.
2. To remove, loosen the set screw, hold the Balance Wheel securely while turning the Faceplate counterclockwise with the provided wrench until it is removed. If the Headstock Spur Center is installed, it should be removed first.

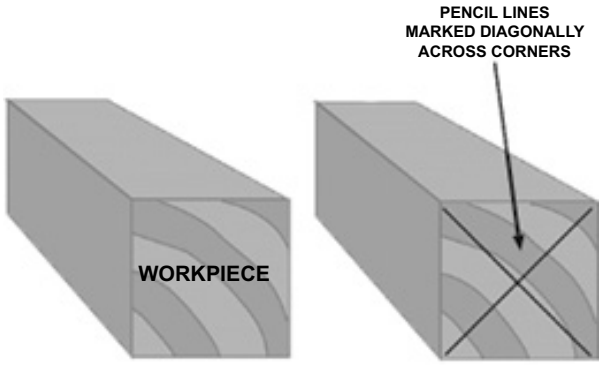


Power Switch Safety Key

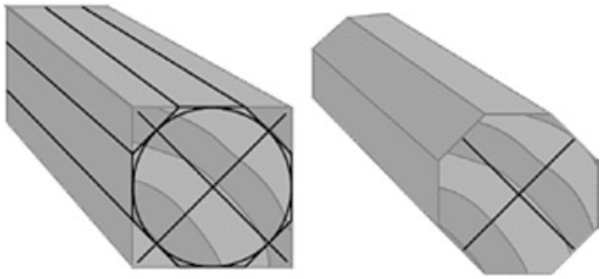
1. The Lathe features a yellow Safety Key on the Power Switch to prevent unauthorized use. To turn the Lathe on, plug the Power Cord into the nearest 120 volt, grounded electrical outlet.
2. Insert the Safety Key into the Power Switch. Move the Power Switch to the ″ON″ position. To turn the Lathe off, move the Power Switch to the ″OFF″ position. To lock the Power Switch in the ″OFF″ position, remove the Safety Key and store it in a safe location.

Operating Instructions

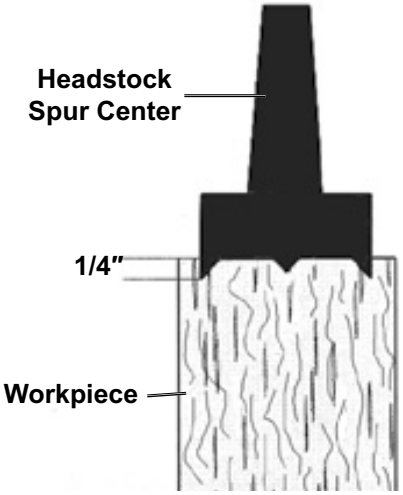
1. With the Power Switch in the ″OFF″ position and the Lathe unplugged from its electrical outlet, make all necessary adjustments to the machine as previously discussed.
2. To set-up a spindle turning operation, mark both ends of the workpiece by drawing diagonal lines from corner to corner. The intersection point of these two lines will indicate the center of the workpiece.
3. Use a wood mallet and punch or nail to tap the point of the center of the workpiece so that it leaves a center mark.
4. Use a 1/8″ drill bit to drill a 3/16″ deep hole at the center mark on the workpiece.



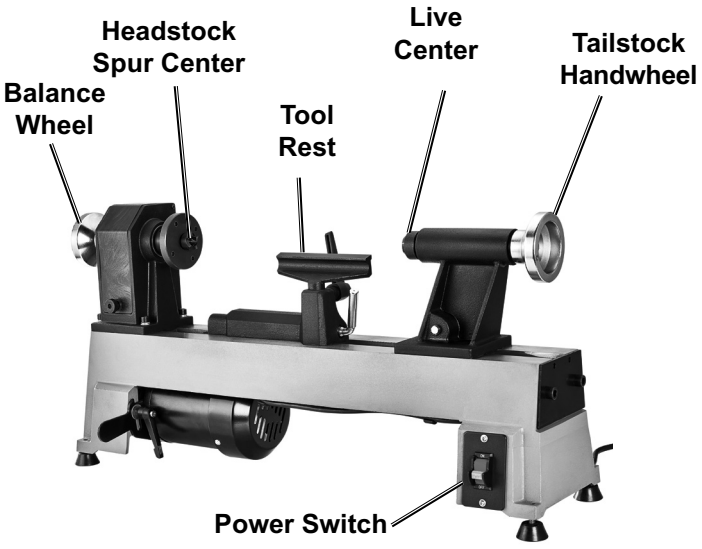
5. Cut the corners off the workpiece if it is over 2″ x 2″ to make safer and easier.



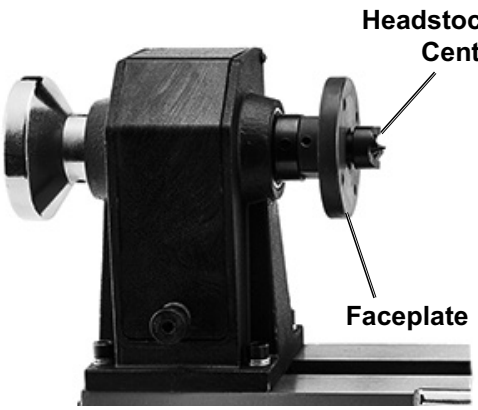
6. Use a wood mallet to drive the Headstock Spur Center into the center of the workpiece at least 1/4″ deep.



7. With the workpiece still attached, insert the Headstock Spur Center into the Headstock Spindle.
8. With the Live Center installed in the Tailstock, slide the Tailstock toward the workpiece until the Live Center touches the workpiece center point. Then lock the Tailstock in position.
9. Use the Tailstock Handwheel to push the Cup Center into the workpiece at least 1/4″.
10. Position the Tool Rest approximately 1/4″ away from the workpiece and approximately 1/8″ above the center line.
11. Make sure to test the set up by hand turning the workpiece to ensure there is enough clearance all the way around before starting.



12. To set up a Faceplate turning operation, remove the Headstock Spur Center and the Faceplate from the spindle.



13. Find the center of the workpiece in the same way as the spindle turning.

14. Cut off the corners of the workpiece.

15. Center the Faceplate on the workpiece and attach it through the Faceplate mounting holes with non-tapered head wood screws (not provided).

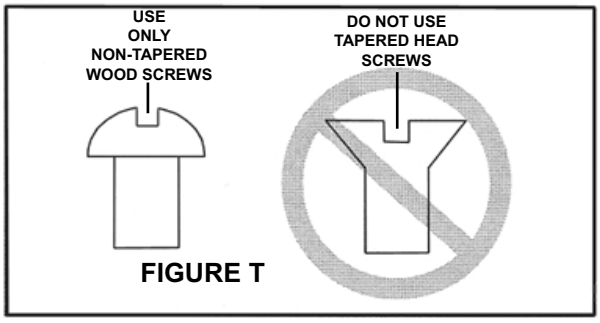
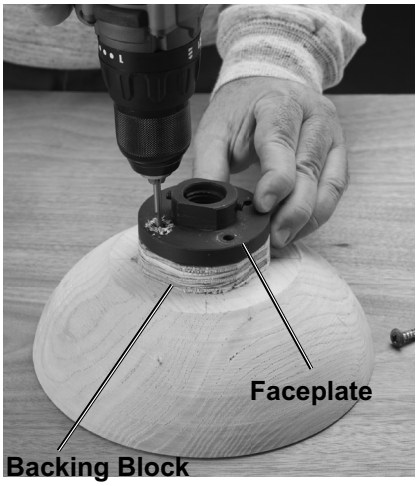


FIGURE T

Note: Faceplate turning is typically done with open-faced workpieces like bowls. If screws cannot be placed in the workpiece, then a backing block can be glued to the workpiece and attached to the Faceplate with screws.



16. To mount the workpiece to a backing block, make the backing block from a piece of scrap wood that is flat on both sides.

17. Mark the center of the backing block.

Note: Make sure the wood piece is free of sawdust.

18. Using a sharp drill bit, drill a 1/4″ diameter hole through the center of the backing block.

19. Glue the center of the backing block to the center of the workpiece. Clamp the backing block to the workpiece and wait for the glue to dry according to the glue manufacturer's recommendation.

20. Thread the Faceplate onto the Headstock Spindle and tighten securely.

21. After turning, the workpiece can be sanded and finished before removing it from the Lathe.



Important: Whenever sanding or finishing, remove the Tool Rest to increase safety and gain adequate working room. Use low speed.

Procedures not specifically explained in this manual must be performed only by a qualified technician.

⚠WARNING

TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION:
Turn the Power Switch of the tool off and unplug the tool from its electrical outlet before performing any procedure in this section.

TO PREVENT SERIOUS INJURY FROM TOOL FAILURE:
Do not use damaged equipment. If abnormal noise or vibration occurs, have the problem corrected before further use.

TO PREVENT SERIOUS INJURY: If the supply cord of this power tool is damaged, it must be replaced only by a qualified service technician.

Cleaning, Maintenance, and Lubrication

1. **BEFORE EACH USE,** inspect the general condition of the tool. Check for:
   - loose hardware,
   - misalignment or binding of moving parts,
   - cracked or broken parts,
   - damaged electrical wiring, and
   - any other condition that may affect its safe operation.
2. **AFTER USE,** wipe external surfaces of the tool with clean cloth.
3. Periodically, wear ANSI-approved safety goggles and NIOSH-approved breathing protection and blow dust out of the motor vents using dry compressed air.
4. DAILY, lubricate all external moving parts with ISO 68 or SAE 20W oil.
5. Lubricate the Tailstock oiling point every five uses, or once per week if used frequently.
6. **⚠WARNING! If the supply cord of this power tool is damaged, it must be replaced only by a qualified service technician.**

Troubleshooting

Problem	Possible Causes	Likely Solutions
Quality of cut is poor.	1. Cutting tool is above workpiece center line. 2. Lathe speed too slow. 3. Cutting tool is dull. 4. Cutting too aggressively.	1. Lower cutting tool to center line of workpiece. 2. Increase lathe speed. 3. Sharpen or replace cutting tool. 4. Use a lighter touch.
Excessive vibration when turning thin workpieces.	1. Cutting tool is positioned below workpiece center line. 2. Cutting too aggressively.	1. Raise cutting tool to center line of workpiece. 2. Use a lighter touch.
Excessive vibration when turning larger workpieces or bowls.	1. Headstock and/or tailstock improperly located at ends of workpiece. 2. Workpiece is unbalanced.	1. Check for proper workpiece centers. 2. Cut off stock until workpiece is balanced.
Lathe will not turn on.	1. Speed control lever not in its lowest speed setting. 2. Electrical outlet not working or is of wrong voltage. 3. Blown fuse or tripped circuit breaker.	1. Make sure speed control lever is turned to its lowest speed setting. 2. Make sure lathe is plugged into a working, 120 volt, grounded, electrical outlet. 3. Replace fuse or reset circuit breaker.
Lathe will not turn off.	Damaged or faulty power switch and/or internal wiring.	Unplug the lathe from its electrical outlet immediately. Do not operate lathe until it is repaired by a qualified service technician.

Follow all safety precautions whenever diagnosing or servicing the tool.
Disconnect power supply before service.

PLEASE READ THE FOLLOWING CAREFULLY

THE MANUFACTURER AND/OR DISTRIBUTOR HAS PROVIDED THE PARTS LIST AND ASSEMBLY DIAGRAM IN THIS MANUAL AS A REFERENCE TOOL ONLY. NEITHER THE MANUFACTURER OR DISTRIBUTOR MAKES ANY REPRESENTATION OR WARRANTY OF ANY KIND TO THE BUYER THAT HE OR SHE IS QUALIFIED TO MAKE ANY REPAIRS TO THE PRODUCT, OR THAT HE OR SHE IS QUALIFIED TO REPLACE ANY PARTS OF THE PRODUCT. IN FACT, THE MANUFACTURER AND/OR DISTRIBUTOR EXPRESSLY STATES THAT ALL REPAIRS AND PARTS REPLACEMENTS SHOULD BE UNDERTAKEN BY CERTIFIED AND LICENSED TECHNICIANS, AND NOT BY THE BUYER. THE BUYER ASSUMES ALL RISK AND LIABILITY ARISING OUT OF HIS OR HER REPAIRS TO THE ORIGINAL PRODUCT OR REPLACEMENT PARTS THERETO, OR ARISING OUT OF HIS OR HER INSTALLATION OF REPLACEMENT PARTS THERETO.

Parts List

Part	Description	Qty
1	Bed	1
2	Semi-circle Head Screw M10×25	2
3	Retaining Plate	1
4	Tailstock Hand Wheel	1
5	Tailstock	1
6	Lock Lever	1
7	Release Lever	1
8	Tail Axis	1
9	Live Center	1
10	hex Socket Tightening M6×6	2
11	Strain Relief	2
12	Headstock Spur Center	1
13	Faceplate	1
14	Headstock Spindle	1
15	Bearing Ball 6005	2
16	Ring Retaining Ø47	2
17	Stationary Knob	1
18	Magnet	1
19	Headstock	1
20	Pulley Cover	1
21	Cross Countersunk Head Bolt M4×10	1
22	Balance Wheel	1
23	Side Plate	1
24	Hex. Socket Set Screw M6×10	1
25	Drive Pulley	1
26	Drive Belt 630×3	1
27	Hex. Socket Head Screw M8×30	4
28	Hex. Socket Set Screw M6×10	4
29	Motor Pulley	1
30	Hex. Socket Head Screw M6×16	3
31	Motor Mount Plate	1
32	Motor	1
33	Lock Lever	1
34	Ring Retaining 12	2
35	Tool Rest	1
36	Tool Rest Base	1
37	Bolt	1
38	Lock Plate	2
39	Hex. Nut M10	2

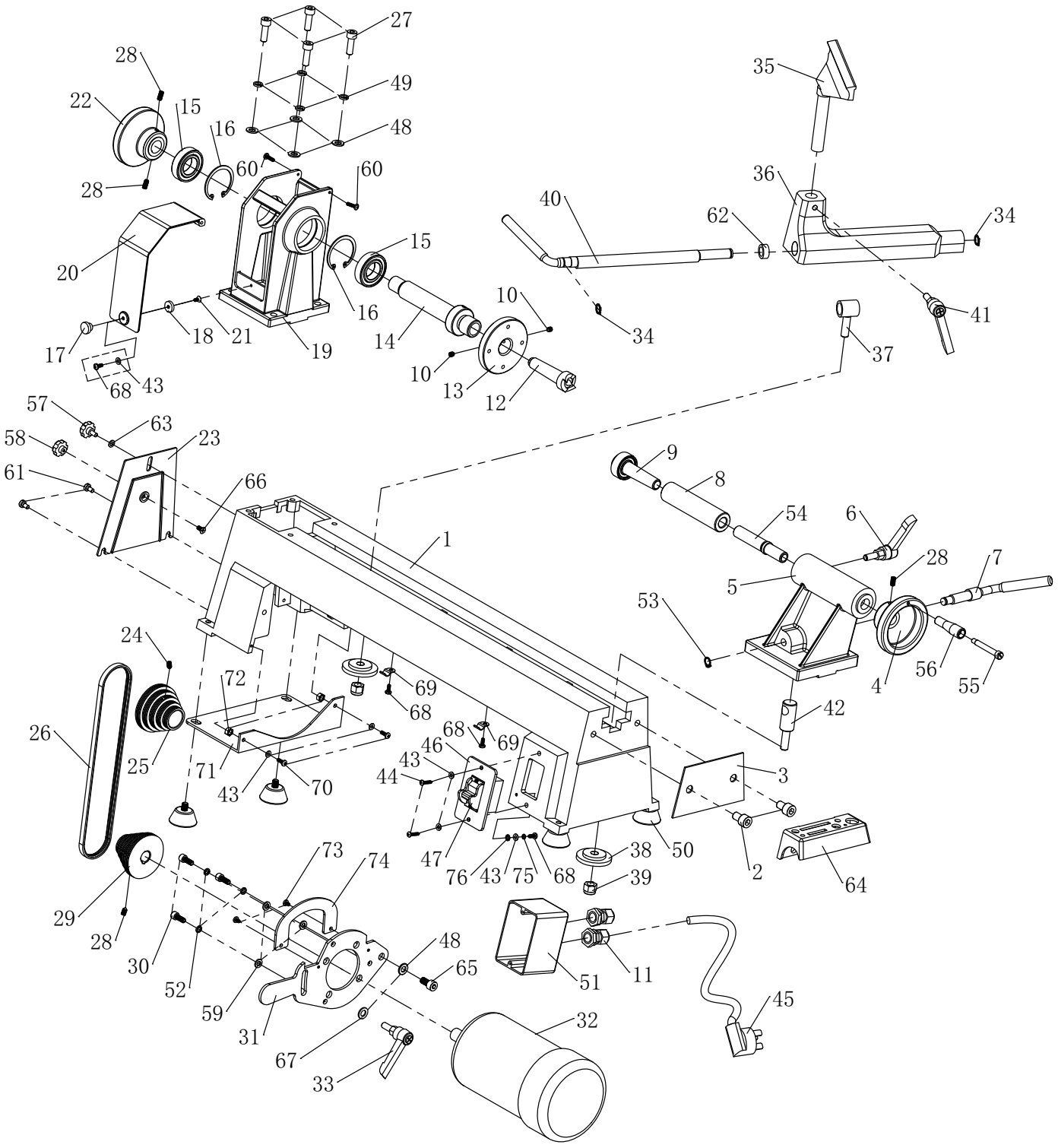
Part	Description	Qty
40	Lock Handle	1
41	Lock Lever	1
42	Bolt	1
43	Flat Gasket Ø4	6
44	Self Tapping M4×25	2
45	Power Cord	1
46	Plate	1
47	Power Switch	1
48	Washer Ø8	5
49	Spring Washer Ø8	4
50	Rubber Washer	4
51	Switch Box	1
52	Spring Washer Ø6	3
53	Ring Retaining 10	1
54	Tailstock Quill	1
55	Bolt	1
56	Handle	1
57	Moving Knob	1
58	Stationary Knob	1
59	Washer Ø6	3
60	Cross-head Bolt M4	2
61	Screw	2
62	Bushing	1
63	Washer Ø5	1
64	Tool Rack	1
65	Motor Mount Screw	1
66	Counter-Sunk hex Socket Head Bolt M5×16	1
67	Washer Ø8×22×1.5	1
68	Semi-circular Head Screw M4×10	4
69	Tension Disc	2
70	Semi-circular Head Screw M4×12	2
71	Guard	1
72	Nut M6	2
73	Semi-circular Head Screw M4×16	2
74	Motor Guard Plate	1
75	Spring Washer Ø4	1
76	External Tooth Gasket Ø4	1

Record Product's Serial Number Here: _____

Note: If product has no serial number, record month and year of purchase instead.

Note: Some parts are listed and shown for illustration purposes only, and are not available individually as replacement parts. Specify UPC 193175437822 when ordering parts.

Assembly Diagram



Limited 90 Day Warranty

Harbor Freight Tools Co. makes every effort to assure that its products meet high quality and durability standards, and warrants to the original purchaser that this product is free from defects in materials and workmanship for the period of 90 days from the date of purchase. This warranty does not apply to damage due directly or indirectly, to misuse, abuse, negligence or accidents, repairs or alterations outside our facilities, criminal activity, improper installation, normal wear and tear, or to lack of maintenance. 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 product. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation of exclusion may not apply to you. THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS.

To take advantage of this warranty, the product or part must be returned to us with transportation charges prepaid. Proof of purchase date and an explanation of the complaint must accompany the merchandise. If our inspection verifies the defect, we will either repair or replace the product at our election or we may elect to refund the purchase price if we cannot readily and quickly provide you with a replacement. We will return repaired products at our expense, but if we determine there is no defect, or that the defect resulted from causes not within the scope of our warranty, then you must bear the cost of returning the product.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

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