# CX800
# 43” X 20” HEAVY DUTY WOOD LATHE with VARIABLE SPEED
## User Manual

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# GENERAL SAFETY INSTRUCTIONS FOR MACHINES

**Extreme caution should be used when operating all power tools. Know your power tool, be familiar with its operation, read through the owner's manual, and practice safe usage procedures at all times.**

- **ALWAYS** read and understand the user manual before operating the machine.
- **CONNECT** your machine ONLY to the matched and specific power source.
- **ALWAYS** wear safety glasses respirators, hearing protection and safety shoes, when operating your machine.
- **DO NOT** wears loose clothing or jewelry when operating your machine. Wear protective hair covering.
- **A SAFE ENVIRONMENT** is important. Keep the area free of dust, dirt and other debris in the immediate vicinity of your machine.
- **BE ALERT! DO NOT** use prescription or other drugs that may affect your ability or judgment to safely use your machine.
- **DISCONNECT** the power source when changing drill bits, hollow chisels, router bits, shaper heads, blades, knives or making other adjustments or repairs.
- **NEVER** leave a tool unattended while it is in operation.
- **NEVER** allow unsupervised or untrained personnel to operate the machine
- **NEVER** reach over the table when the tool is in operation.
- **ALWAYS** keep blades, knives and bits sharpened and properly aligned.
- **ALL OPERATIONS MUST BE** performed with the guards in place to ensure safety.
- **ALWAYS** use push sticks and feather boards to safely feed your work through the machine.
- **ALWAYS** make sure that any tools used for adjustments are removed before operating the machine.
- **ALWAYS** keep bystanders safely away while the machine is in operation.
- **NEVER** attempt to remove jammed cutoff pieces until the blade has come to a full stop.

# CX800 – WOOD LATHE WITH VARIABLE SPEED SPECIFIC SAFETY INSTRUCTIONS

**Like all power tools and machinery, proper safety and attention must be adhered to. There is danger associated with using any tool or machine so pay careful attention each and every time you use your tool. If you are not familiar with the operations of a lathe, you should obtain the advice and/or instructions from a qualified professional.**

- **Read this operation manual** carefully and understand it before operating the lathe.
- **Do not over-reach**. Keep proper footing and balance at all times.
- **Maintain machine** in top condition. Keep machine clean for best and safest performance. Follow instructions for lubrication and changing accessories.
- **Disconnect the machine** from power source before servicing, changing accessories, and making any adjustments.
- **To avoid accidental starting**, make sure the switch is in the OFF position before plugging in the power cord.
- **Never leave the lathe running** and unattended. Turn the power OFF. Do not leave the machine until it comes to a complete stop.
- **Start and stop the machine yourself**. To avoid accidental injuries make sure not to have anybody help you do this.
- **Always wear dust mask** operation creates a lot of sawdust and/or chips.
- **Always operate** the tools in a well-ventilated area and make sure to use a proper dust collection system for optimum dust removal.
- **Turn OFF then machine** before making any adjustments or servicing.
- **Do not attempt** to measure the work-piece size while the machine is running.
- **Make sure** the work-piece is clamped securely between the centers before starting the machine.
- **Only use** correct size centers.
- **After adjusting or servicing** the machine, remember to remove all wrenches and other tools from the machine.
- **Make sure you have read and understood** the instructions given in this manual and you are familiar with your lathe before operating it. If you fail to do so, serious injury could occur.

## *WARNING*

***The safety instructions given above can not be complete because the environment in every shop is different. Always consider safety first as it applies to your individual working conditions*.**

# CX800 – HEAVY DUTY WOOD LATHE

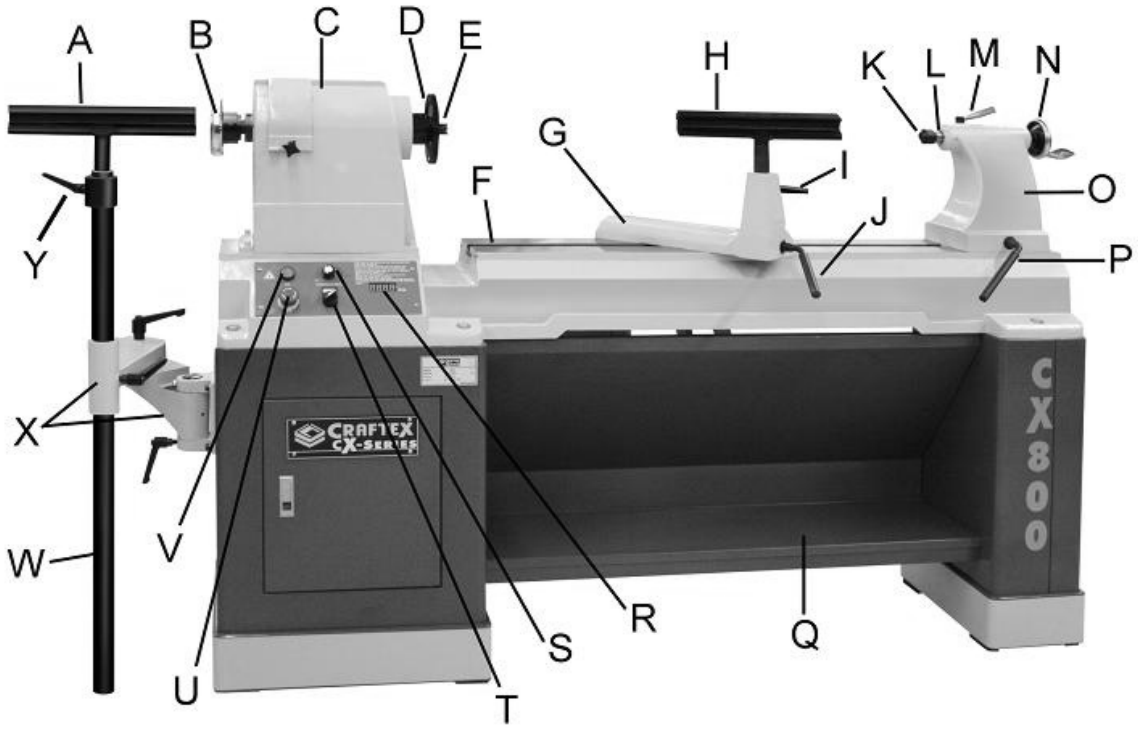
# FEATURES

## MODEL CX800 – HEAVY DUTY WOOD LATHE WITH VARIABLE SPEED

As part of the growing line of Craftex CX-Series woodworking equipment, we are proud to offer the CX800, a Heavy Duty Wood Lathe with Variable Speed. The Craftex name guarantees Craft Excellence. By following the instructions and procedures laid out in this user manual, you will receive years of excellent service and satisfaction. The CX800 is a professional tool and like all power tools, proper care and safety procedures should be adhered to.

- Motor ..... 3-HP, 220-V, 60-Hz, 3-Phase
- Amp ..... 9-Amp
- Number of Speeds ..... Variable Speed, 50 – 3000 RPM
- Spindle Taper ..... MT2
- Spindle Size ..... 1-1/4” x 8 TPI RH
- Swing Over Bed ..... 20”
- Swing Over Tool Rest ..... 16-3/4”
- Swing Over Gap ..... 24-7/8”
- Distance Between Centers ..... 43”
- Spindle Speed Ranges ..... Variable, 50-100RPM, 100-2000RPM, 150-3000RPM
- Tailstock Taper ..... MT2
- Bed Construction ..... Precision Ground Cast Iron
- Stand Construction ..... Pre-Formed Sheet Steel Metal
- Headstock Construction ..... Cast Iron
- Tailstock Construction ..... Cast Iron
- Overall Dimensions ..... Length 104” x Width 25” x Height 50”
- Approx. Shipping Weight ..... 855 lbs
- Warranty ..... 3 Years

# CX800 – HEAVY DUTY WOOD LATHE
# PHYSICAL FEATURES




**A.** Outboard Tool Rest
**B.** Hand Wheel
**C.** Headstock
**D.** Faceplate
**E.** Headstock Center
**F.** Lathe Bed
**G.** Inboard Tool Rest Holder
**H.** Inboard Tool Rest
**I.** Tool Rest Height Lock Lever
**J.** Tool Rest Base Lock Lever
**K.** Tailstock Center
**L.** Tailstock Quill
**M.** Tailstock Quill Lock Lever
**N.** Quill Hand Wheel
**O.** Tailstock
**P.** Tailstock Lock Lever
**Q.** Stand
**R.** Spindle RPM Digital Readout
**S.** Spindle Speed Control Knob
**T** Forward / Reverse Swtich
**U.** Off / Emergency Stop Button
**V.** On Button
**W.** Tool Rest Support Rod
**X.** Tool Rest Support Brackets
**Y.** Tool Rest Height Lock Lever

# PROPER GROUNDING

Grounding provides a path of least resistance for electric current to reduce the risk of electric shock.

CX800 is equipped with a 220-V single phase motor and is provided with a power supply cord that is to be connected directly to the source. Connection must be done by a qualified electrician in accordance with electrical code and local electrical codes.

This machine is for use on a normal 220 volt circuit. Make sure that the machine is connected to an outlet having the same configuration as the plug. If an adaptor plug is used, it must be attached to the metal screw of the receptacle.

To prevent electrical hazards, have a qualified electrician ensure that the line is properly wired.

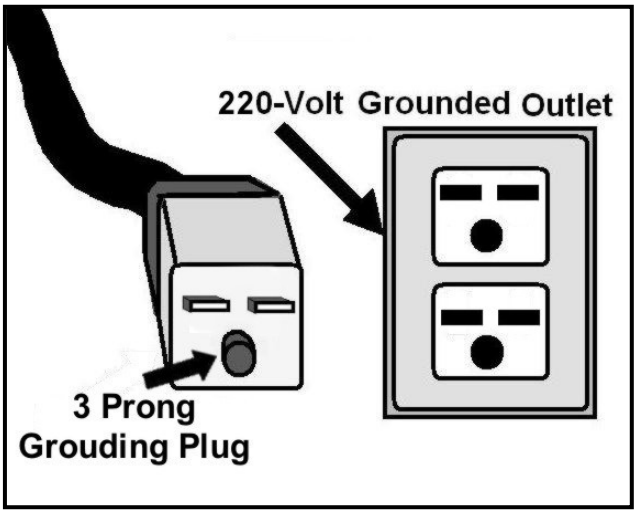



Figure-1 220-Volts outlet for CX800

***WARNING***

*Improper connection of the equipment-grounding conductor can result in a risk of electric shock. Check with a qualified electrician if you are in doubt as to whether the outlet is properly grounded.*

It is strongly recommended not to use extension cords with your CX800. Always try to position your machine close to the power source so that you do not need to use extension cords.

When it is necessary to use an extension cord, make sure the extension cord does not exceed 50-feet in length and the cord is 12-gauge to prevent motor damage.

Your CX800 should be wired with a plug having 3-prongs to fit a 3 prong grounded receptacle as shown in figure-3.

Do not remove the grounding prong to fit it into a 2-pronged outlet. Always check with a qualified electrician if you are in doubt.

# UNPACKING

The machine is properly packaged and shipped complete in a crate for safe transportation. When unpacking, carefully inspect the crate to ensure that nothing has been damaged during transit. Open the crate and check that the lathe and the parts are in good condition.

While doing inventory, if you can not find any part, check if the part is already installed on the machine. Some of the parts come pre-assembled.

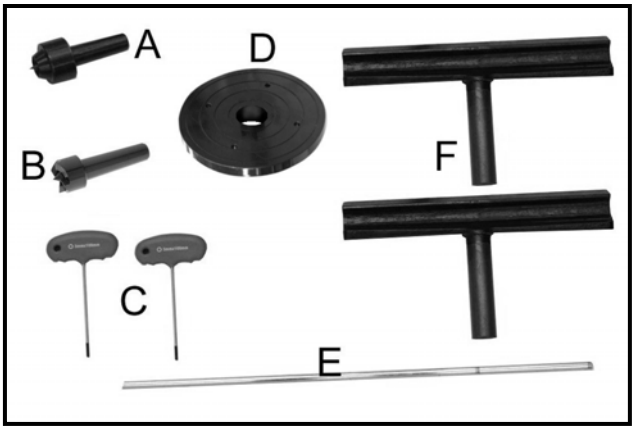



Figure-2 Inventory

**LIST OF CONTENTS** **QTY**

**A.** Tailstock Center .....1

**B.** Headstock Center.....1

**C.** T-Handle Wrenches .....2

**D.** Faceplate .....1

**E.** Knockout Rod.....1

**F.** Tool Rests .....2

**G.** Lathe (No Shown) .....1

# SETUP

Before setting up your machine, you should read and understand the instructions given in this manual.

The unpainted surfaces of this lathe are coated with rust preventive waxy oil and you will want to remove this before you begin assembly. Use a solvent cleaner that will not damage the painted surfaces.

***WARNING***

*CX800 is a very heavy machine. Do not over-exert yourself. Use a fork truck or other mechanical devices for safe moving.*

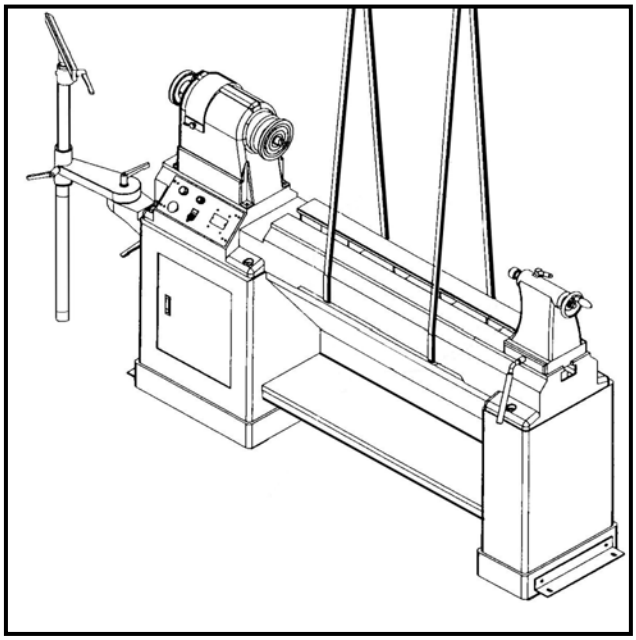


Figure-3 Lifting straps positioned to lift the lathe

Figure-3 shows where to position the straps to lift the lathe safely. Make sure when lifting, the lathe is balance on both sides.

# INSTALLING/REMOVING HEAD STOCK CENTER

The headstock is provided with an MT2 tapered center.

**TO INSTALL THE CENTER:**

Make sure the switch is in the OFF position the cord is disconnected from the power outlet.

Clean the center and the spindle and make sure they are free of debris.

Insert the tapered end of the center into the spindle and push it in so that it securely fit into the spindle. See figure-4.

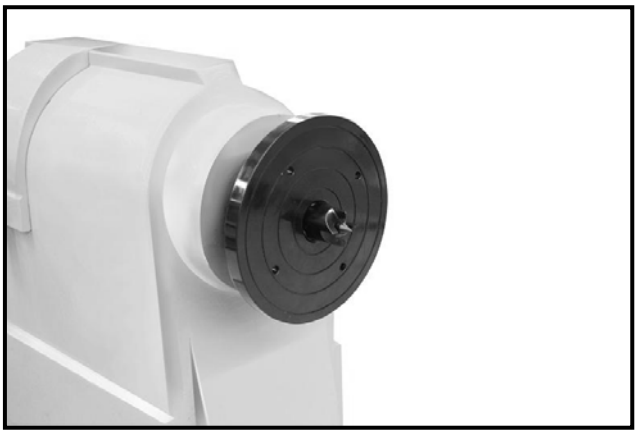


Figure-4 Installing headstock center

**TO REMOVE THE CENTER:**

Make sure the switch is in the OFF position the cord is disconnected from the power outlet.

Hold the center with one hand so that it does not fall on the lathe bed when it is knocked out. See figure-5.

Insert the knockout rod through the opposite end of the headstock and tap the center to remove it. See figure-5.

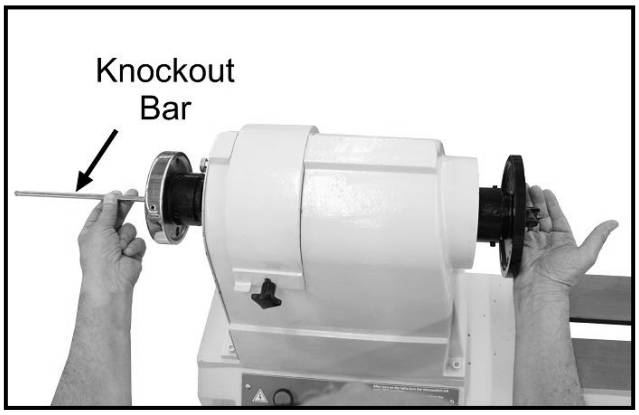



Figure-5 Removing headstock center

# INSTALLING/REMOVING TAILSTOCK CENTER

The CX800 comes with an MT2 tapered center for the tailstock.

**TO INSTALL THE CENTER:**

Loosen the quill lock lever and rotate the tailstock quill hand wheel until the quill comes out about 1” from the tailstock.

Clean the center and the quill and make sure there is no dust or debris on the mating surfaces of both.

Insert the tapered end of the center into the quill and push it in, making sure that it is installed securely into the quill. See figure-6.

Secure the quill in place by re-tightening the quill lock lever.

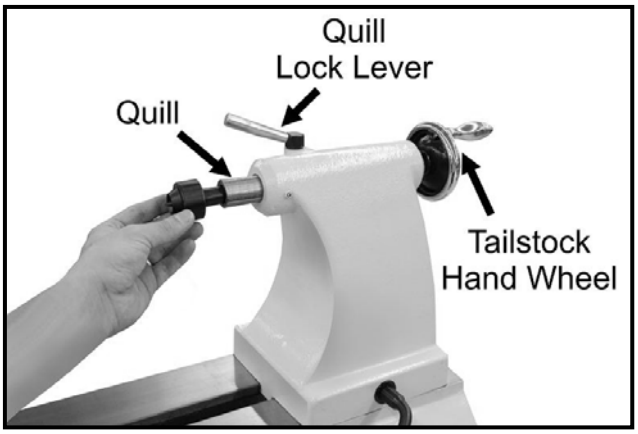



Figure-6 Installing tailstock center

**TO REMOVE THE CENTER:**

Loosen the quill lock lever.

Hold the center with a piece of cloth so that it does not fall on the lathe bed when came out from the quill.

Rotate the tailstock hand wheel counter-clockwise. This will cause the quill to retract into the tailstock and the center will come out from the quill.

# INSTALLING/REMOVING FACEPLATE

The faceplate can be installed on the other side of the headstock allowing turning work-piece more than 20” in diameter.

**TO INSTALL THE FACEPLATE:**

Make sure the switch is in the OFF position the cord is disconnected from the power outlet.

Pull the spindle lock pin out and rotate it from nine o’clock (unlocked) position to twelve o’ clock (locked) position. See figure-7.

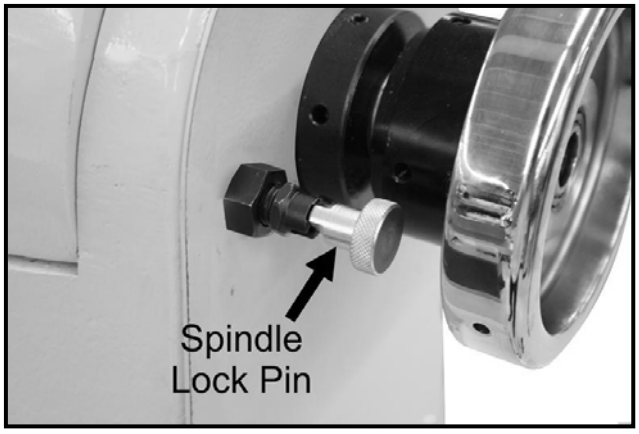



Figure-7 Spindle lock pin

Rotate the spindle by hand until the lock pin engages and locks the rotation of the spindle.

Thread the faceplate onto the spindle until it is snug and tighten the four set screws on the faceplate to secure it to the spindle. See figure-8.

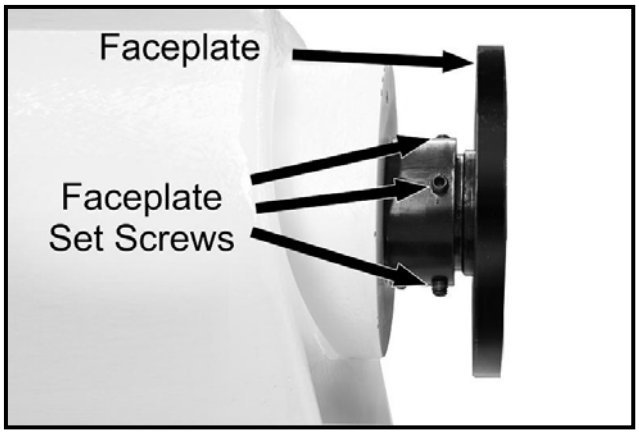



Figure-8 Installing faceplate

## *WARNING*

*The faceplate must be properly threaded onto the spindle and secured by tightening the four set screws to prevent the work-piece from flying off during operation. Failure to follow these instructions could cause serious personal injuries.*

**TO REMOVE THE FACEPLATE:**

Make sure the spindle lock pin is engaged.

Loosen the four screws securing the faceplate to the spindle and unthread the faceplate.

## *WARNING*

*Make sure the switch is in the OFF position and the cord is disconnected from the power source before installing, servicing and removing/replacing any components on the machine. Failure to do so may result serious personal injuries.*

# CONTROL PANEL

The control panel for CX800 is located in front of the machine just below the headstock.

Refer to figure-9 reading the descriptions below and familiarize yourself with the controls on your CX800.


Figure-9 CX800 Control panel

**A. ON BUTTON:** Starts the spindle rotation.

**B. OFF/EMERGENCY STOP BUTTON:** Stops the spindle rotation.

**C. FORWARD/REVERSE SWITCH:** Changes the direction of rotation of the spindle to clockwise or anticlockwise.

**D. SPINDLE SPEED CONTROL KNOB:** Adjusts the spindle speed from low to high within the range the belt is positioned on the pulleys.

**E. SPINDLE RPM DIGITAL READOUT:** Shows the spindle RPM (rotation per minute) in digital form.

# TEST RUN

Once you have assembled your lathe completely, it is then time for a test run to make sure that the machine works properly and is ready for operation.

Remove all the tools used for assembling the machine and make sure all the guards are in place.

**TO TEST RUN THE CX800:**

**1.** Pull the spindle lock lever out and turn it to nine o'clock (unlocked) position.

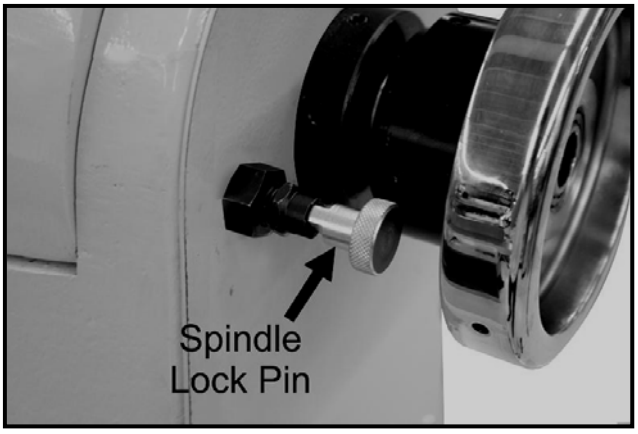



Figure-10 Spindle lock pin

**2.** Connect the cord to the power outlet.

**3.** Turn the Spindle Speed Control Knob and set to zero.

**4.** Push the ON button in. It should turn the machine ON and rotate the spindle.

**5.** Turn the Spindle Speed Control Knob to increase the spindle speed.

The machine will run smoothly with little vibration and noise.

If you hear any unusual noise(s) coming from the machine or if it vibrates excessively, shut the machine OFF immediately and disconnect from the power source. Investigate to determine the problem with your machine. See page-21 for troubleshooting.

**6.** Push the OFF/Emergency Stop Button in, it should turn the machine OFF and stop the rotation the spindle.

**7.** Do not re-set the switch and push the ON button.

The machine should not start at this point. If the machine gets started, it means that the safety feature does not work on your machine and it should be fixed.

**8.** If the machine runs smoothly, and the ON and OFF buttons are working properly proceed to the next step.

**9.** Turn the machine OFF.

**10.** Use the Forward/Reverse switch and turn the spindle in the opposite direction.

## *WARNING*

*Do not make any adjustments while the machine is running. Turn the machine OFF and un-plug the cord from the power source before making any adjustments. Failure to do so may cause serious personal injury and damage to the lathe.*

# TAILSTOCK

The tailstock on CX800 features a cam-action lock lever which allows clamping the tailstock securely on the lathe bed.

To secure the tailstock to the desired position on the lathe bed, loosen the tailstock lock lever. See figure-11.

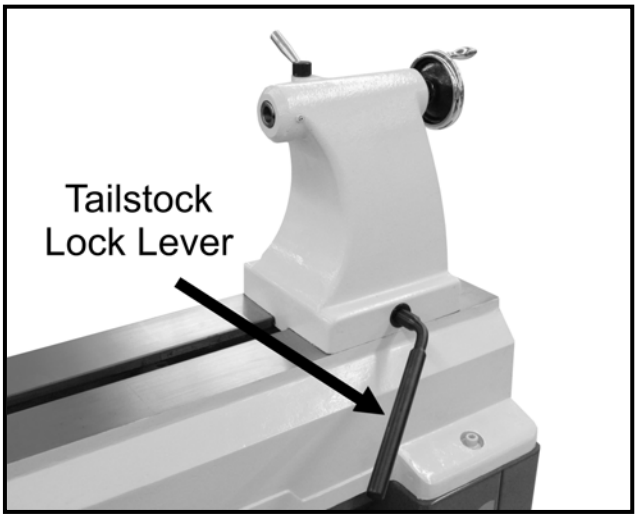



Figure-11 Tailstock

Slide the tailstock on the desired position on the lathe bed and tighten the lock lever to secure the tailstock in position.

***WARNING***

*The tailstock must be secured firmly to the lathe bed while operation. Failure to do so may cause serious personal injury.*

# INBOARD TOOL REST

The tool rest holder on the CX800 features a cam-action lock lever that allows securing it in different positions and different angles on the lathe bed. The tool rest can also be positioned and secured in different angles and height.

**TO POSITION THE INBOARD TOOL REST ON THE LATHE BED:**

Loosen the tool rest holder lock lever (see figure-12) and slide the tool rest holder to the desired position on the lathe bed.

Tighten the lock lever and secure it in place.

Loosen the lock lever securing the tool rest to the holder. Position the tool rest to the desired angle and height and secure it by re-tightening the lock lever. See figure-12.

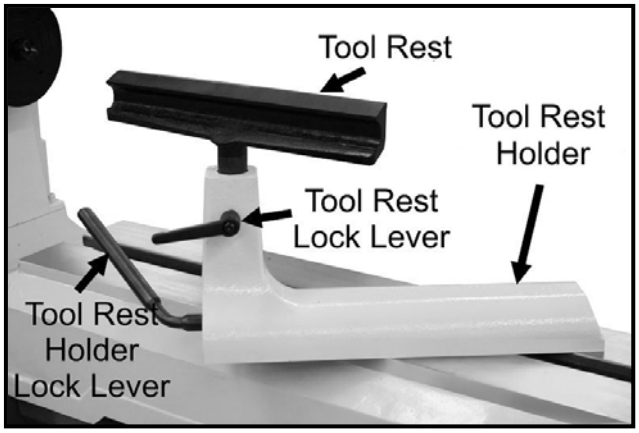



Figure-12 Tool rest adjustment

# OUTBOARD TOOL REST

The outboard tool rest is used on the outboard side of the lathe and it is used when the work-piece is more than 20” in diameter.

**TO POSITION THE OUTBOARD TOOL REST:**

Loosen the lock levers shown in figure-13 while holding the tool rest support rod with another hand.

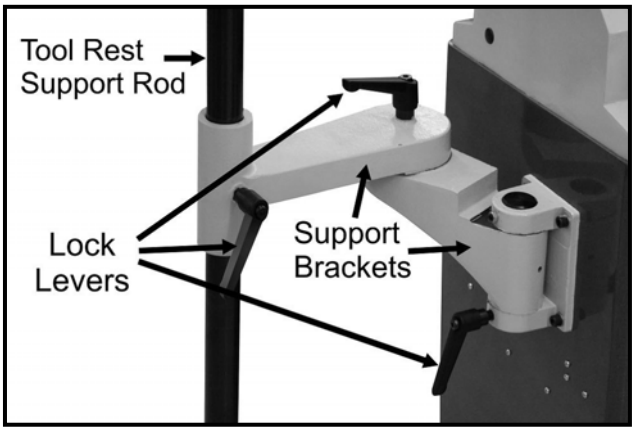



Figure-13 Outboard tool rest adjustment

Adjust the support brackets shown in figure-13 to the desired position and retighten the lock levers.

Adjust the tool rest support rod so that it rests on the shop floor and tighten the lock lever to lock the support rod in position.

Adjust the tool rest height and position it as required for the operation and tighten the lock lever.

# SPINDLE SPEEDS

The CX800 features three speed ranges and these speed ranges are selected by positioning the belt on different grooves of the pulleys. See figure-14.

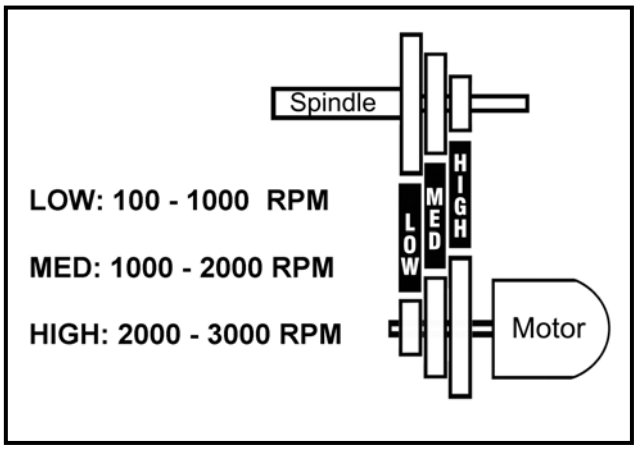



Figure-14 CX800 speed range

The low speed range is used when turning a work-piece where a lot of material must be removed and rough finish is not a problem.

The high speed range is used when a smooth finish is required and when only light cuts are made.

The mid range is a compromise between the high and low range.

**TO CHANGE THE SPINDLE SPEED:**

Make sure the switch is in the OFF position and the cord is disconnected from the power source.

Loosen the knob securing the belt cover as shown in figure-15.

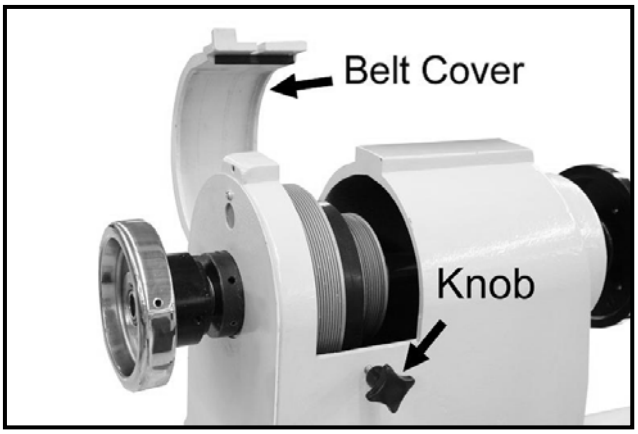



Figure-15 Removing the belt cover

Open the cabinet door and loosen the lock lever shown in figure-16 and pull the motor height lever up to raise the motor and retighten the lock lever securing the motor in position. See figure-16.

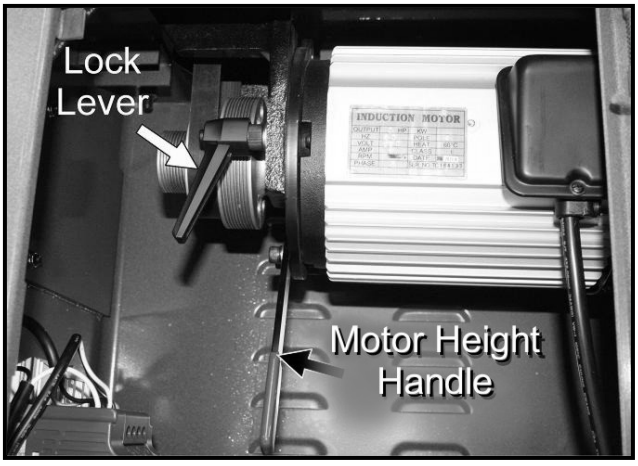



Figure-16 Motor height handle and lock lever

Position the belt on the pulleys for the correct speed range looking at figure-14.

Once the belt is on the right grooves on the pulleys, loosen the lock lever shown in figure-16 and the motor will hang freely against the belt. Let the motor weight to tension the belt. If the motor does not hang freely use the motor height handle to tension the belt the re-tighten the lock lever to secure the motor in place.

Close the cabinet door and the belt cover and re-tighten the knob to secure the belt cover.

# WORK-PIECE INSPECTION

The work-piece must be inspected before turning. Some work-pieces are not safe to turn or may require adjustment before they are safe for turning. Before turning any wood, make sure to inspect it for nails, staples, small pieces of stone or metal and any other object which is dangerous to come on contact with the chisel.

If the work-piece contains any of these objects and it comes in contact with the chisel, the object might fly and hit the operator or seriously damage the chisel. For a safe turning operation always inspect your work-piece carefully before cut and wear eye protection.

Some woods with excessive twisting or wrapping are un-stable while cutting and are dangerous to cut. Do not turn these work-pieces at a high speed or the work-piece can come off and cause serious injury.

Cutting wet or green stock gives poor result when turned.

Some work-pieces with large/loose knots can break into half during the operation and can cause serious injury and damage to the tool.

# SPINDLE TURNING

The turning operation in which the work-piece is mounted between the headstock and the tailstock is called spindle turning.

**TO PERFORM SPINDLE TURNING OPERATION:**

Select a work-piece and draw diagonal lines from corner to corner across the end of the work-piece to find the center point.

Take a spur and a mallet and tap center marks on both ends of the work-piece.

Drill about 1/4" holes on the center marks on both ends of the work-piece using a 1/4" drill bit.

You can cut the corners of the work-piece lengthwise to make turning easier.

Make sure the spur center is aligned with the mark made on the work-piece and push the spur center about 1/4" into the work-piece end.

Insert the spur into the headstock spindle with the work-piece attached to it and make sure it is secured.

Install the live center into the tailstock quill and tighten the quill lock lever to secure the quill in position.

Now, loosen the tailstock lock lever and slide the tailstock on the lathe bed towards the work-piece until the live center comes in contact with the work-piece. Make sure the live center is aligned with the marked center on the end of the work-piece.

Now, loosen the quill lock lever and rotate the tailstock hand wheel pushing the live center into the work-piece about 1/4" and re-tighten the quill lock lever.
Position the tool rest approximately 1/8” above the work-piece center and 1/4" away from the work-piece.

Before starting the lathe turn the spindle by hand, and make sure the work-piece is not touching the tool rest.

# FACEPLATE TURNING

Faceplate turning is the turning operation in which the work-piece is attached to the faceplate and then the faceplate is installed on the headstock spindle (with the work-piece) for turning.

**TO PERFORM FACEPLATING:**

Find the center point by drawing diagonal lines from corner to corner on one end of the work-piece.

Cut off the corners of the work-piece to make turning easier and safe.

Position the faceplate on the work-piece and make sure it is centered. Attach the work-piece to the faceplate using wood screws that do no have tapered heads.

Once the work-piece is securely attached to the faceplate, thread the faceplate onto the headstock spindle and tighten the four screws to secure the faceplate.

# OUTBOARD TURNING

When the work-piece is more than 20” in diameter, you will need to mount it on the other side of the headstock for turning.

For outboard turning, the faceplate and the headstock hand wheel positions should be exchanged. See figure-17.

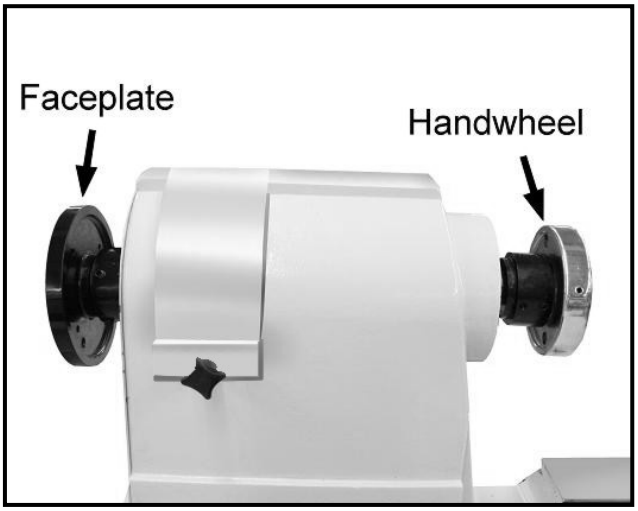



Figure-17 Faceplate and hand wheel positions are swapped

## *WARNING*

*Before starting the lathe rotate the spindle by hand and make sure that there is enough clearance between the work-piece and the tool rest and other parts on the outboard side of the lathe. Failure to follow these instructions could cause serious personal injury to the operator and damage to the work-piece*.

# MAINTENANCE

During the life of your machine, you will need to practice some regular maintenance to keep your lathe in peak performance condition.

**1.** Check the lathe daily for:

- **A.** Loose mounting bolts
- **B.** Worn or damaged wires
- **C.** Worn switch
- **D.** Any other unsafe condition

**2.** Protect the unpainted cast iron surfaces of the lathe by clean the chips after every use and wiping with dry piece of cloth.

**3.** Apply a thin layer of oil on the bed slide ways and the unpainted cast iron surface to keep the bed rust-free.

**4.** A build up of dust in the motor can cause motor damage. Periodic cleaning of the motor is not only recommended, but mandatory for normal wood lathe performance.

## *WARNING*

*Make sure the switch is in the OFF position and the cord is disconnected from the power source before installing, servicing and removing/replacing any components on the machine. Failure to do so may result serious personal injuries.*

# BELT REPLACEMENT

CX800 belt replacement is the procedure which takes time and you need to be patient while doing it.

To remove the belt, you need to remove the hand wheel, shaft joint, shaft joint adaptor, spanner nut, out-board spindle bearing, and speed sensor.

**TO REMOVE THE BELT:**

Make sure the switch is in the OFF position and the cord is disconnected from the power source.

Loosen the set screws securing the hand wheel shown in figure-18 and remove the hand wheel.

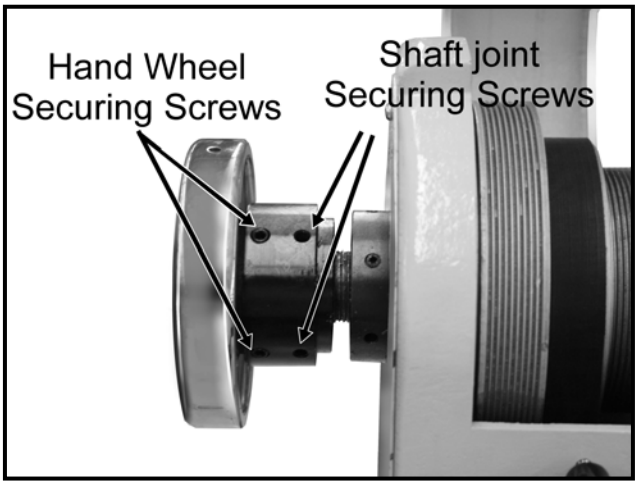



Figure-18 Securing set screws

Loosen the set screws securing the shaft joint as shown in figure-19 and unthread the shaft joint and remove it.

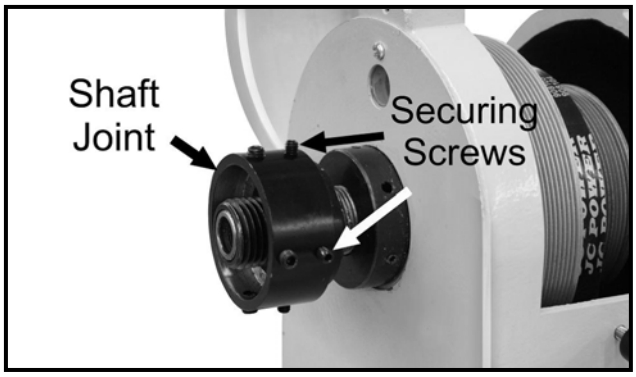



Figure-19 Removing the shaft joint

Loosen the set screws securing the shaft joint adaptor. Unthread the shaft joint adaptor and remove it. See figure-20.

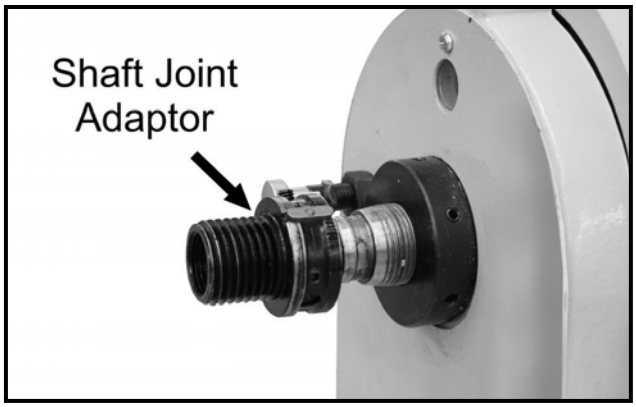



Figure-20 Removing shaft joint adaptor

Loosen the set screws securing the spanner nut and remove it. See figure-21.

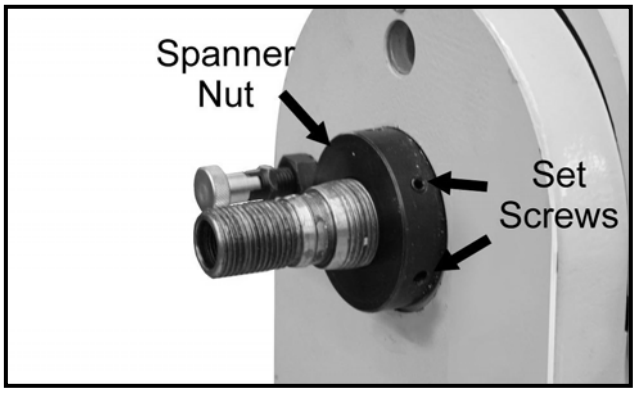



Figure-21 Removing spanner nut

Remove the outboard spindle bearing as shown in figure-22.


Figure-22 Removing the outboard spindle bearing

Loosen the screws securing the speed sensor, shown in figure-23 and bring the sensor out and rest it on the headstock opening.

Now, pull out the spindle lock pin and turn it to 9 o' clock position to unlock the spindle.

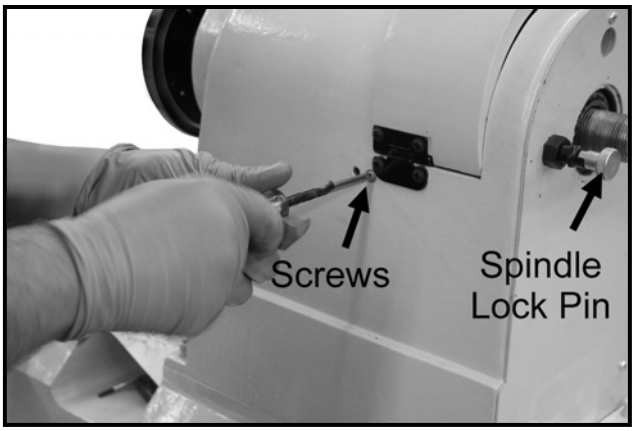



Figure-23 Uninstalling spindle speed sensor

Open the cabinet door and loosen the motor lock lever. Use the motor height hand wheel to raise the motor up. Retighten the lock lever and remove the belt from the motor pulley. See figure-24.

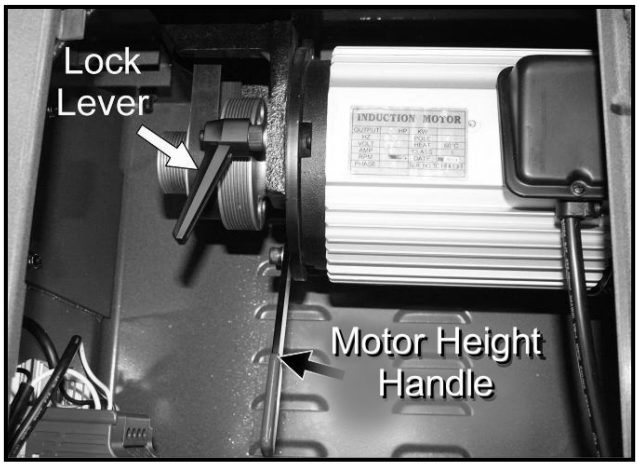



Figure-24 Removing the belt from motor pulley

Remove the belt from the spindle pulley. Now with one hand holding the spindle from inside of the headstock, tap the spindle using mallet from outboard side towards the tailstock. See figure-25.

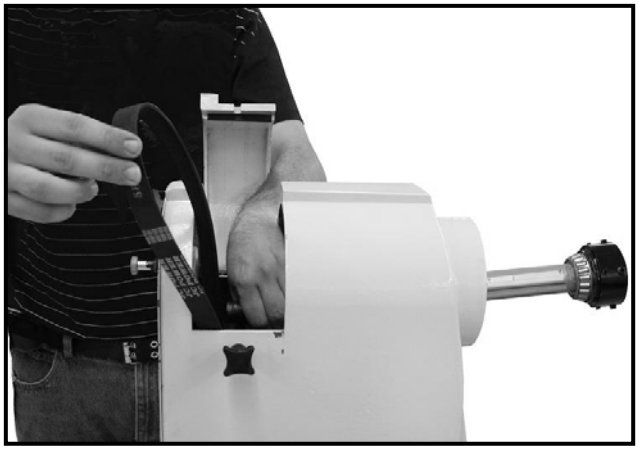


Figure-25 Removing the belt

Remove the belt as shown in figure-25 and clean the outboard and inboard spindle bearings. Apply a thick layer of grease on the rollers of the bearings.

**TO INSTALL THE NEW BELT:**

Make sure the switch is in the OFF position and the cord is disconnected from the power source.

Install the new belt on the pulleys and insert the spindle through the outboard end into the headstock.

Slide the bearing on to the spindle.

Thread the spanner nut onto the spindle. Hold the faceplate with one hand and tighten the spanner nut with the other hand using the hex wrench provided. Secure the spanner nut by tightening the set screws.

## *WARNING*

*Once the spanner nut is threaded onto the spindle, rotate the spindle and make sure the spanner nut is not over-tightened. Over-tightening the spanner nut will effect the rotation of the spindle.*

Reinstall the speed sensor on the headstock and secure it using two screws. Make sure the speed sensor is not touching the pulley or the cord is not hanging around the pulley.

Thread the shaft joint adaptor onto the spindle and secure it by tightening the set screws on it.

Align the key way with the key on the shaft joint and reinstall the shaft joint onto the shaft joint adaptor securing it by tightening the set screws.

Install the hand wheel and secure it by tightening the set screws.

Make sure the belt is installed on the right grooves on the pulleys and tensioned properly. Tighten the lock lever to lock the motor in position and close the cabinet door.

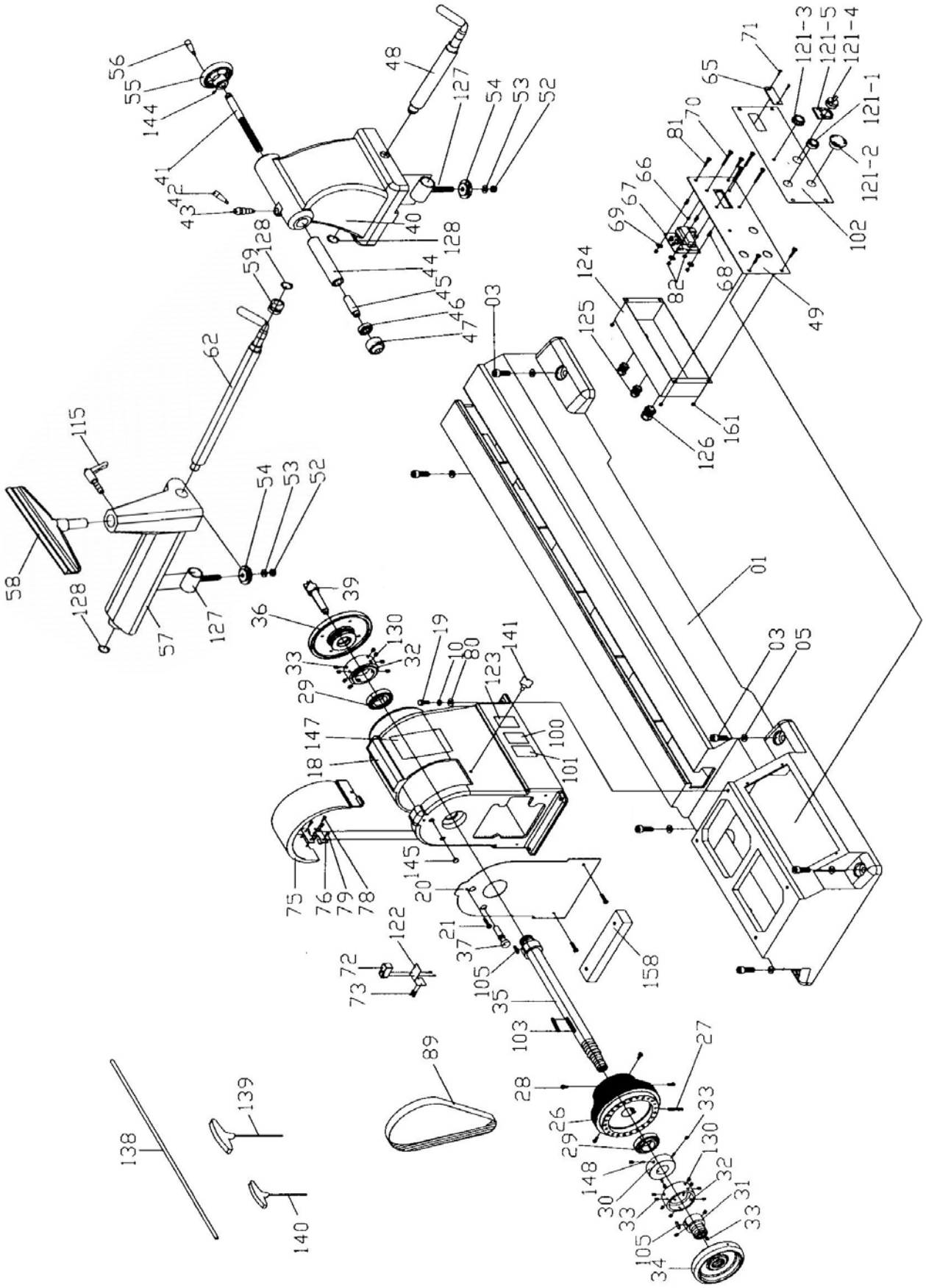
## *WARNING*

*Make sure the switch is in the OFF position and the cord is disconnected from the power source before installing, servicing and removing/replacing any components on the machine. Failure to do so may result serious personal injuries.*

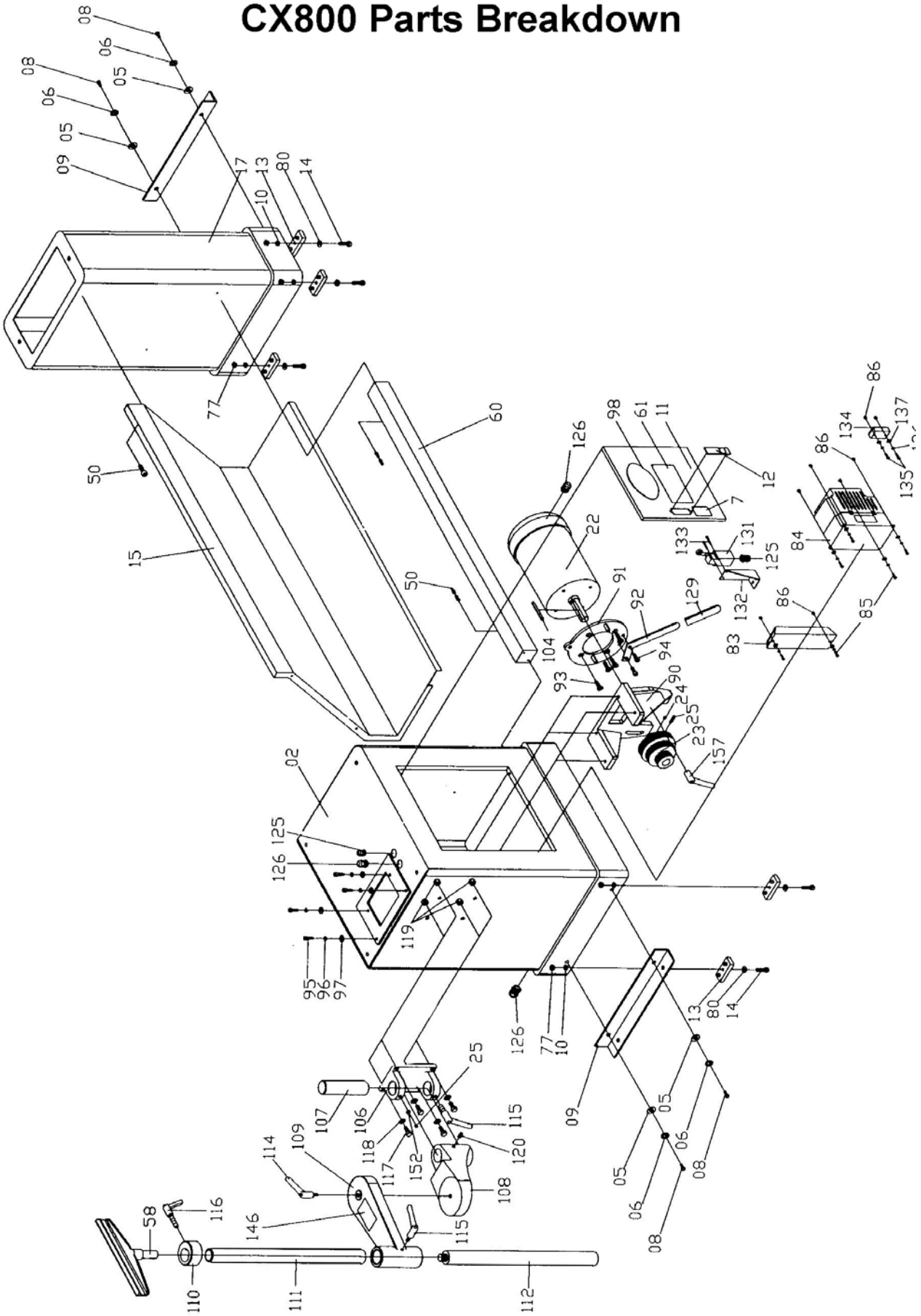
# CX800 TROUBLESHOOTING

| PROBLEMS | CAUSES | CORRECTIONS |
|---|---|---|
| Cutting tool vibration | 1. Work-piece is not clamped firmly. | 1. Clamp it firmly. |
| Poor machine accuracy | 1. Work-piece is clamped incorrectly.<br>2. Tailstock center and headstock center is out of alignment.<br>3. Machine is not levelled. | 1. Clamp it correctly.<br>2. Adjust center alignment.<br>3. Level the machine. |
| Motor does not run when power switch is turned On | 1. Switch is burnt out.<br>2. Connection wire is loose or damaged. | 1. Replace the switch.<br>2. Tighten or replace wire. |
| Motor does not turn at full speed | 1. Power voltage is too low.<br>2. Motor is damaged. | 1.Test voltage.<br>2. Check & repair motor. |
| Motor does not reach at full speed | 1. Incorrect power wiring.<br>2. Overloaded. | 1. Replace with correctly sized power wiring.<br>2. Reduce load. |
| Motor overheating | 1. Motor is dirty.<br>2. Motor is damaged. | 1. Clean the motor.<br>2. Check & repair motor. |

# CX800 Parts Breakdown



# CX800 Parts Breakdown



# CX800 Parts List

| PART# | DESCRIPTION |
|---|---|
| 1 | BED |
| 2 | CABINET |
| 3 | SCREW CAP 7/16"-14UNC X 1-1/2" |
| 5 | WASHER FLAT 7/16" X 25X 2T |
| 6 | WASHER SPRING 7/16" |
| 8 | SCREW HEX 7/16”-14unc x 3/4” |
| 9 | L-BRACKET |
| 0 | WASHER SPRING 5/16*15.4 |
| 1 | DOOR |
| 12 | STAND ACCESS HANDLE |
| 13 | RUBBER FOOT |
| 14 | SCREW ROUND HD 5/16"-18*3/4" |
| 15 | PARTITION BOARD |
| 17 | RIGHT STAND |
| 18 | HEAD STOCK |
| 19 | SCREW CAP 5/16"-18unc x 1-1/4" |
| 20 | BELT WHEEL COVER |
| 21 | SCREW ROUND Hd 3/16"*24unc*5/16 |
| 22 | MOTOR |
| 23 | MOTOR PULLEY |
| 24 | SCREW SET M8* 1.25 *8 |
| 25 | SCREW SET M8* 1.25 *30 |
| 26 | SPINDLE PULLEY |
| 27 | SCREW SET M8* 1.25 *40 |
| 28 | SCREW CAP M6-1.0*15 |
| 29 | TAPERED BEARING MSL-B300SH |
| 30 | NUT MSL-4220 M32 * 2 |
| 31 | SPINDLE ADAPTER |
| 32 | SHAFT JOINT |
| 33 | SCREW SET 1/4"*20UNC*1/4" |
| 34 | SPINDLE HANDWHEEL |
| 35 | SPINDLE |
| 36 | FACE PLATE |
| 37 | LOCK SET |
| 38 | POSITION SPRING |
| 39 | THIMBLE |
| 40 | TAIL STOCK BASE |
| 41 | TAIL STOCK LEADSCREW |
| 42 | SHORT HANDLE |
| 43 | ECCENTRIC SPINDLE |
| 44 | TAIL STOCK SPINDLE |
| 45 | THIMBLE SPINDLE |
| 46 | BEARING |
| 47 | MOVEABLE THIMBLE HEAD |
| 48 | TAIL STOCK ECCENTRIC SHAFT |
| 49 | CONTROL PANEL FACEPLATE |
| 50 | SCREW CAP 3/16-24*1/2 |
| 52 | NUT LOCK M12* 1.75 |
| 53 | WASHER FLAT 1/2" |
| 54 | SLIDE PLATE |
| 55 | HANDWHEEL |
| 56 | HANDWHEEL HANDLE |
| 57 | TOOL REST BASE |
| 58 | TOOL REST |
| 59 | TUBE |
| 60 | L-BRACKET |
| 62 | TOOL REST LOCK SHAFT |
| 63 | INVERTER PWR CORD |
| 64 | LIMIT SWITCH CORD |
| 65 | IC ACRYLIC BOARD |
| 66 | SPACER |
| 67 | TRANSFORMER |
| 68 | IC SPACER RING MSL-B300SH(B300SH) |
| 69 | WASHER 5*12 |
| 70 | SCREW FLAT HD.1/8"-40UNC*1" |
| 71 | SCREW FLAT HD. 1/8”-40unc* 3/4" |
| 72 | SWITCH |
| 73 | SCREW ROUND HD M3* 0.5* 20 |
| 74 | CONTROLLER CORD |
| 75 | UPPER COVER |
| 76 | UPPER COVER LOOSE-LEAF |
| 77 | NUT HEX 5/16"-18UNC |
| 78 | SCREW FLAT HEAD 3/16”-24unc* 5/16” |
| 79 | SCREW FLAT HEAD 3/16”-24unc * 1/4" |
| 80 | WASHER FLAT 5/16"*16*1t |
| 81 | SCREW FLAT HD. 3/16"*24UNC*3/8" |
| 82 | NUT HEX 1/8"-40UNC |
| 83 | BRAKE RESISTOR |
| 84 | INVERTER MOTOR DRIVER |
| 85 | SCREW RD HEAD 3/16"*24UNC*3/4 |

| | |
|---|---|
| 86 | NUT HEX 3/16"-24UNC |
| 87 | POWER CORD |
| 88 | MOTOR CORD |
| 89 | V-BELT MSL-4220(9溝580J) |
| 90 | MOTOR BRACKET |
| 91 | MOTOR MOUNT PLATE |
| 92 | TENSION HANDLE |
| 93 | SCREW CAP M8-1.25 X 20 |
| 94 | SCREW CAP M8-1.25 X 15 |
| 95 | SCREW CAP M8-1.25 X 25 |
| 96 | WASHER SPRING 3/8” |
| 97 | WASHER FLAT 3/8"*23*2t |
| 102 | LABEL FOR FACEPLATE |
| 103 | KEY 8 * 7 * 50 |
| 104 | KEY 8 * 7 * 90 |
| 105 | KEY 5 * 5 * 18 |
| 106 | OUTBOARD MOUNTING BRACKET |
| 107 | OUTBOARD ARBOR SHAFT |
| 108 | LOWER BRACKET |
| 109 | UPPER BRACKET |
| 110 | ARBOR SHAFT TUBE |
| 111 | OUTBOARD LONG SHAFT |
| 112 | OUTBOARD SHORT SHAFT |
| 114 | ADJUST HANDLE M12-1.5 * 80 |
| 115 | ADJUST HANDLE M12-1.75 * 20 |
| 116 | ADJUST HANDLE M12-1.75 * 25 |
| 117 | BOLT HEX M8-1.25 * 30 |
| 118 | WASHER FLAT 8.5 * 16 * 2(THICK) |
| 119 | NUT LOCK M8-1.25 |
| 120 | SCREW SET M8-1.25 * 10 |
| 121 | SWITCH ASSY |
| 122 | BRACKET |
| 124 | SWITCH BOX |
| 125 | STRAIN RELIEF PG11 |
| 126 | STRAIN RELIEF PG13.5 |
| 127 | RING SHAFT |
| 128 | RING SHAFT |
| 129 | RUBBER HANDLE COVER |
| 130 | SCREW SET 5/16"-18UNC X 1/4" |
| 131 | LIMIT SWITCH |
| 132 | LIMIT SWITCH BRACKET |

| | |
|---|---|
| 133 | SCREW ROUND HEAD M4* 35mm |
| 134 | TERMINAL |
| 135 | SCREW RD HEAD 3/16-24UNC X 1" |
| 136 | WASHER FLAT 3/16" X 12 X 1 |
| 137 | WASHER SPRING 3/16" |
| 138 | PUSH ROD |
| 139 | T-WRENCH 4MM X 100 |
| 140 | T-WRENCH 3MM X 101 |
| 141 | KNOB 1/4-20UNC X 5/8 |
| 144 | SCREW SET M4-0.7 X 6 |
| 145 | PERSPECTIVE LENS |
| 148 | COPPER SLUG |

# WARRANTY

**CRAFTEX 3 YEARS LIMITED WARRANTY**

Craftex warrants every product to be free from defects in materials and agrees to correct such defects where applicable. This warranty covers **three years** for parts and 90 days for labor (unless specified otherwise), to the original purchaser from the date of purchase but does not apply to malfunctions arising directly or indirectly from misuse, abuse, improper installation or assembly, negligence, accidents, repairs or alterations or lack of maintenance.

*Proof of purchase is necessary.*

All warranty claims are subject to inspection of such products or part thereof and Craftex reserves the right to inspect any returned item before a refund or replacement may be issued.

This warranty shall not apply to consumable products such as blades, bits, belts, cutters, chisels, punches etceteras.

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

## RETURNS, REPAIRS AND REPLACEMENTS

To return, repair, or replace a Craftex product, you must visit the appropriate Busy Bee Tools showroom or call 1-800-461-BUSY. Craftex is a brand of equipment that is exclusive to Busy Bee Tools.

For replacement parts directly from Busy Bee Tools, for this machine, please call 1-800-461-BUSY (2879), and have your credit card and part number handy.

- All returned merchandise will be subject to a minimum charge of 15% for re-stocking and handling with the following qualifications.
- Returns must be pre-authorized by us in writing.
- We do not accept *collect* shipments.
- Items returned for warranty purposes must be insured and shipped pre-paid to the nearest warehouse
- Returns must be accompanied with a copy of your original invoice as proof of purchase. Returns must be in an un-used condition and shipped in their original packaging a letter explaining your reason for the return. Incurred shipping and handling charges are not refundable.
- Busy Bee will repair or replace the item at our discretion and subject to our inspection.
- Repaired or replaced items will be returned to you pre-paid by our choice of carriers.
- Busy Bee reserves the right to refuse reimbursement or repairs or replacement if a third party without our prior authorization has carried out repairs to the item.
- Repairs made by Busy Bee are warranted for 30 days on parts and labour.
- Any unforeseen repair charges will be reported to you for acceptance prior to making the repairs.
- The Busy Bee Parts & Service Departments are fully equipped to do repairs on all products purchased from us with the exception of some products that require the return to their authorized repair depots. A Busy Bee representative will provide you with the necessary information to have this done.
- For faster service it is advisable to contact the nearest Busy Bee location for parts availability prior to bringing your product in for repairs.