MODEL CX08BTHC

8” BENCH TOP JOINTER WITH HELICAL CUTTERHEAD

USER MANUAL

VERSION 1

TABLE OF CONTENTS

GENERAL SAFETY INSTRUCTIONS

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** wear loose clothing or jewelry when operating your machine.
- **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** 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 or installation is removed before operating the machine.
- **ALWAYS** keep bystanders safely away while the machine is in operation

WARNING

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

JOINTER SPECIFIC SAFETY INSTRUCTIONS

- **ALWAYS** make sure the machine is level before operating.
- **IF YOU ARE NOT FAMILIAR** with the operations of a jointer, you should obtain the advice and/or instructions from a qualified professional.
- **ALWAYS** use push blocks when jointing stock.
- **NEVER** make cuts deeper that 1/8" in a single pass to prevent overloading the machine and to prevent kickback.
- **MAKE SURE** before servicing or making any adjustments, the power switch is in the **"OFF"** position and the cord is un-plugged from the power source to avoid any injury from accidental starting.
- **ALWAYS KEEP** the edge of the out-feed table aligned with the top dead center of the knife to prevent kickback.
- **ALL OPERATIONS MUST** be performed with the guards in place to ensure safety.
- **DO NOT** force the work-piece into the cutter-head. Feed the stock smoothly using push blocks.
- **ALWAYS** inspect your stock for knots or imbedded debris before feeding over the cutter head.
- **NEVER** back your work-piece into the spinning cutter head.
- **NEVER** allow your hands to pass directly over the cutter head.
- **ALWAYS** operate jointer with a proper dust collection system.
- **ALWAYS** make sure that the exposed cutter head behind the fence is guarded particularly when jointing near the leading edge such as in rabbetting.
- **NEVER LEAVE** the jointer unattended while it is running. Unplug the cord from the power outlet when not in use.
- **MAINTAIN AND SERVICE** your jointer regularly as instructed in the user manual.
- **MAKE SURE** you have read and understood all the safety instructions in this user manual and you are familiar with jointer before operating. If you fail to do so, serious injury could occur.

WARNING!

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

SPECIFICATIONS

Cutterhead speed RPM:……12,000

Motor RPM:……19000+/-10% (No Load)

Cutterhead diameter:……2”

Max width of cut:……8"

Max depth of cut:……1/8"

Cutter inserts qty:……16

Motor power input:……120 V, 60 Hz, AC Only, 10 Amp

Fence Size Overall:……4-3/8” x 19-5/8”

Tables (Overall measurements):……8” x 33.5”

Tables (Overall measurements incl. extension support):……8” x 51”

Shipping Weight:……59lbs

Net Weight:……49lbs

Shipping Dimensions:……37” L x 16” W x 12” H

Machine Length:……51”

Machine Depth:……8”

Machine Height:……13 ¼”

POWER SUPPLY

AVAILABILITY OF POWER

Before Installation of this machine you will need to consider the proximity of your power supply circuit. If available circuits do not meet the requirements for this machine you will have to get a new circuit installed by a licensed electrician. Use of a licensed electrician will minimize the risks of fire, electrocution, damage to equipment, and will insure everything is wired in accordance to the applicable codes and standards.

FULL LOAD CURRENT RATING

This is the amount of Amps a machine draws under 100% of the rated output power.

FULL LOAD RATING FOR 120V 15AMPS

The full load current is not the maximum amount of amps the machine will draw. The machine has potential to draw current beyond the full load rating if it is overloaded. Overloading of the machine for an extended period of time can cause damage, overheating, or even fire. The risk is higher if the machine is on an undersized circuit. To help avoid these issues insure you are connected to a circuit in which meets the specified circuit requirements for this piece of machinery.

WARNING!!!

***Do not connect machine to power before setup has been fully completed to avoid risk of personal injury or property damage*.**

CIRCUIT REQUIREMENTS FOR CX08BTHC BENCHTOP PLANER

The CX08BTHC has been prewired at the factory for operation on an electrical circuit that has a verified ground and meets the below requirements:

Voltage: ..... 110V – 120V
Cycle: 60Hertz
Phase: ..... Single
Circuit Breaker Size: 15Amps

Please Note:

1. An electrical circuit includes all electrical equipment between the breaker panel and the machine. This is why it is important to have the proper circuit size so it can safely accommodate this machine under full load for an extended period of time.
2. The circuit requirements laid out in this manual are for a dedicated circuit in which only one machine will be operational or installed at a time.
3. If you choose to connect to a shared circuit where more than one machine may be running at a time please consult with a qualified electrician to insure the circuit is properly sized for safe operation.

PLUG AND GROUNDING REQUIREMENTS

This machine must be grounded so that in the event of certain malfunctions it will reduce the chances of electrical shock by providing a path of lesser resistance for the electric current to travel through. For this reason the CX08BTHC comes with a cord equipped with an equipment grounding wire that leads in to the grounding prong on the plug.

NOTE:
The three prong plug is only to be plugged in to the matching receptacle that is properly installed according to the local electrical codes and standards. Under no circumstances should you modify the plug to make it fit in a receptacle that it is not meant for this configuration. (see figure 1)

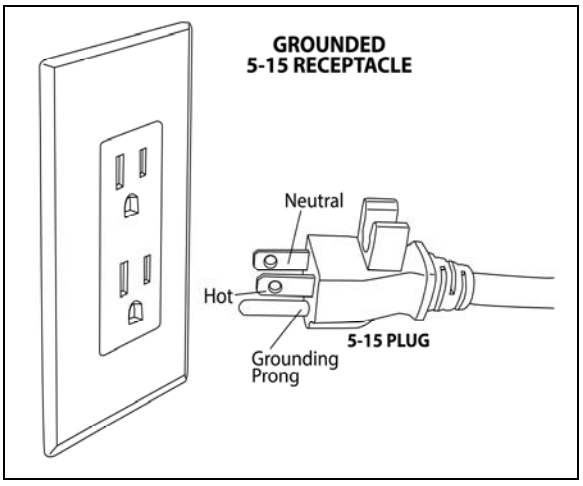


Figure 1

If there is an improper connection of a machine grounding wire it may result in a heightened risk of electric shock. If repair or replacement of the power cord is necessary in the future please consult a licensed electrician.

NOTE:
If ever you notice damage or ware to either the cord or plug disconnect it immediately from the power supply and have it replaced by a licensed electrician or service tech before any further use of the machine.

USE WITH EXTENSION CORDS

If you absolutely must require the use of an extension cord with your machine do so, on a temporary short term basis only.

NOTE:
1. We recommend that you do not use an extension cord with this machine. Also the longer the extension cord the greater the possibility of voltage drop causing the motor to work harder under powered which in turn will cause it to draw more amps. This may cause the thermal overload to trip or even the breaker in your electrical panel. It may also cause the extension cord to heat up which can be a potential fire hazard.

2. If an extension cord is used with this machine it must have a ground wire with a plug that matches the one currently installed on your machine. The extension cord must also meet the following specifications below:

Minimum Wire Gauge: ..... **12 AWG**
Maximum Cord Length: ..... **50 ft.**

UNPACKING

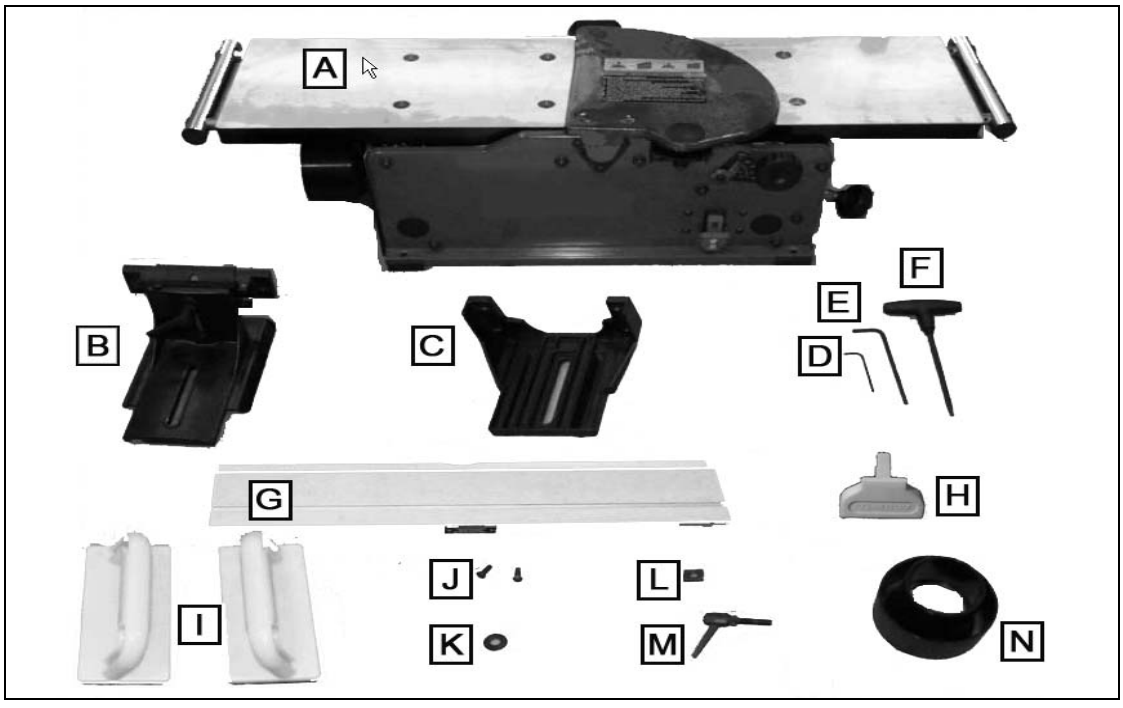
Always inspect and check the shipping carton and machine for damage before you begin the unpacking process. Carefully remove all of the packing materials, parts, and machine from it's shipping carton. Check for any packing materials around machine motor or moving parts. Place the contents of the carton on a clean work surface.

You can begin to remove the protective coating or rust inhibitors from the machine using WD40 and wiping it away with a soft cloth. You may need to repeat this process a couple of times before the protective completely from the machine surface.

NOTE
Some parts may have been already installed on your machine while it was at the factory. Go through the manual thoroughly before calling customer service.

If any parts appear to be missing do not attempt to plug in the machine and turn it on. This machine should only be turned on after all parts have been properly installed and assembled. For any missing parts please feel free to contact Busy Bee Tools customer service at 1-800-461-BUSY (2879).

INVENTORY



A. Jointer
B. Sliding Fence Bracket
C. Fence Bracket
D. 2.5mm Hex Wrench
E. 4mm Hex Wrench
F. Torx Wrench
G. Fence
H. Safety Switch Insert
I. Push Blocks
J. Soc Button Head Screw
K. Flat Washer
L. Special Nut
M. Tilt lock lever Assembly
N. Dust Collection Adapter

ASSEMBLY

WARNING!!!
Make sure that machine is removed from power source before beginning any assembly or maintenance.

Assembling the Fence

1. Take fence bracket (A) and assemble it to the base of the jointer (B). **See Fig A.**

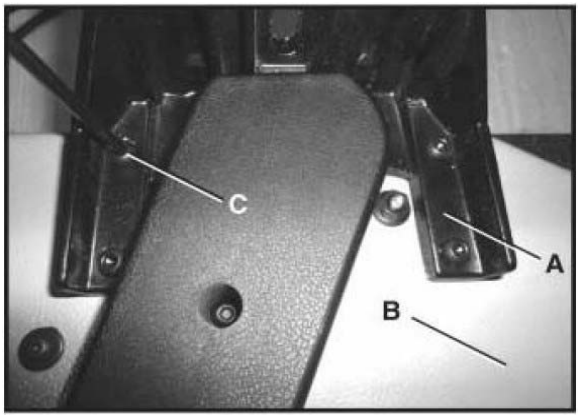


Figure A

2. Take the Square nut (C) and place in to the groove of the fence. Now assemble the sliding fence bracket (A). See **Figure B.**

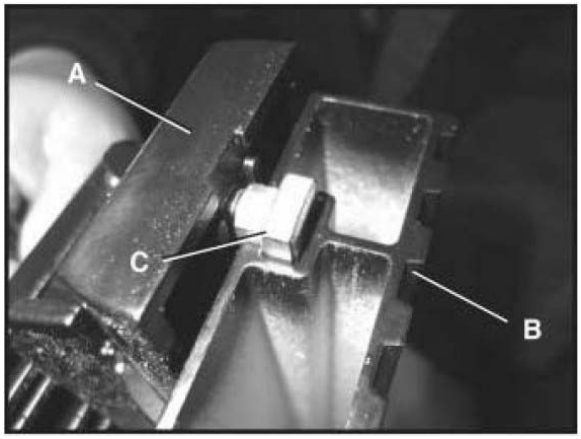


Figure B

3. Adjust the sliding fence bracket (A) so that it's at the middle of the fence (B). Reference the centre of the fence cut out (C). Now use the two M6 x 16mm soc button head screws (D) to locking the sliding fence bracket into position. See **Figure C.**

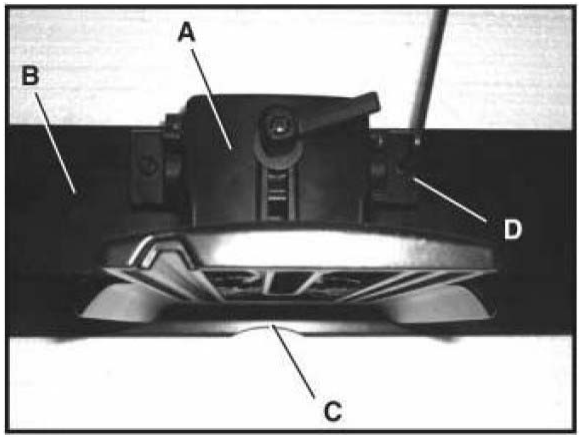


Figure C

4. Position the sliding bracket and fence assembly on to the mounting bracket on the body of the jointer. Now insert the fence tilt lock lever assembly (A) with the flat washer (B) in place. See **Figure D.**

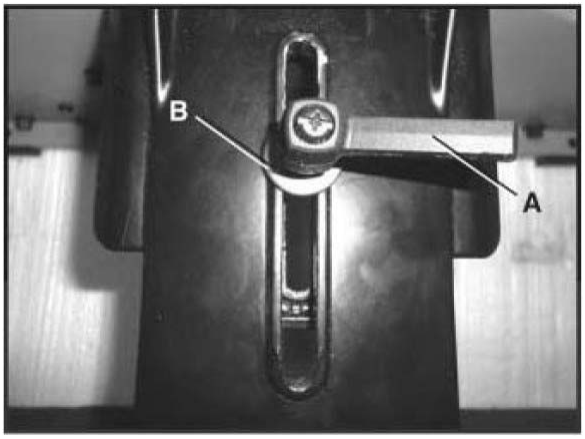


Figure D

5. With the fence tilt lock lever in between the mounting and sliding bracket. Put on the special nut (A) and turn the lever to lock both brackets into position. See **Figure E.**

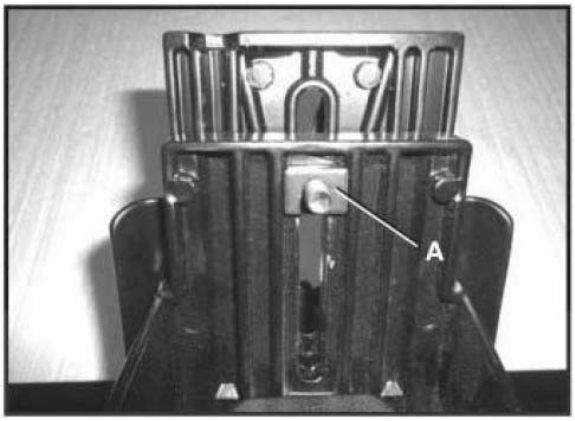


Figure E

6. Use an angle gauge (A) to measure the 90° & 135° between the Fence and Jointer Table Top. Adjusting can be done by loosening or tightening the Nylok Hex Soc Head Screw (B). SEE FIG. F and G

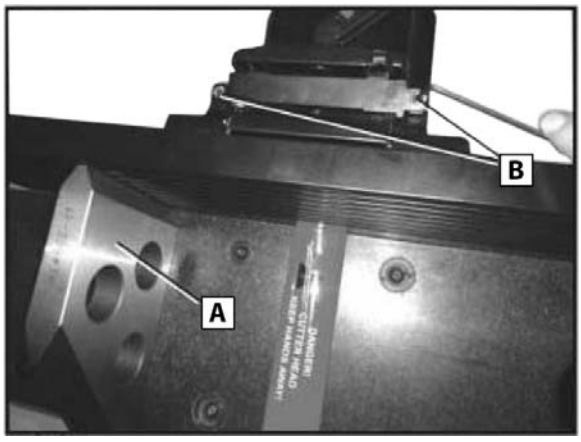


Figure F

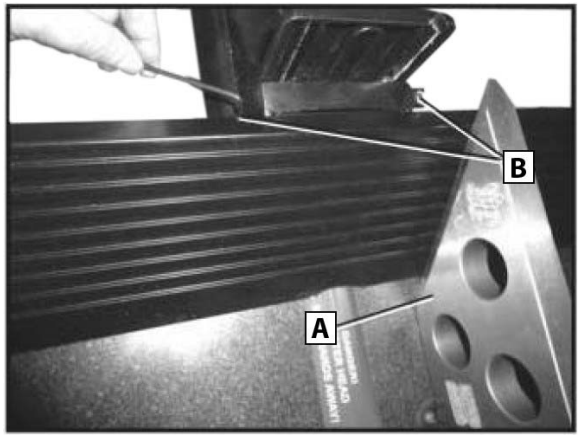


Figure G

CUTTER HEAD GUARD

1. The guard covering the cutterhead is equipped with an automatic spring return. The tension on this spring is set at the factory. If the cutterhead guard is installed correctly the guard should return to making contact with the fence after your work piece has passed completely over the cutterhead. Always check to make sure the guard is functioning properly before using this machine. If adjustment is required remove the guard while the machine is off and unplugged from its power source. While holding the guard attachment base, rotate the guard counter clockwise to increase the tension on the spring. Now mount the guard base while holding the guard and mounting base to prevent any loss of tension. **See Figure H**.

Figure H

Dust Port/Dust Port Adaptor

The dust port (A) is attached to the jointer to help connect it to a standard 4" dust collection hose as well as a 2 ½" vacuum hose. You may convert to either size using the supplied adaptor (B). **See Figure I.**

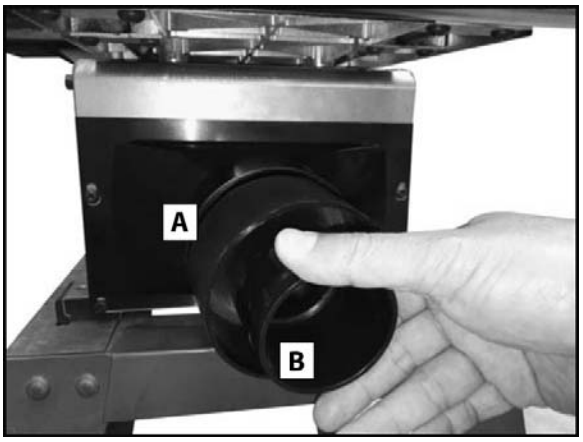


Figure I

NOTE:
Always use the dust port and dust collector at the same time to help eliminate any airborne particulates. Always wear proper eye, respiratory, and hearing protection while operating machine.

LOCK KNOB ASSEMBLY

Attach the knob (A) to the jointer by tightening the hex nut (B) with 13mm

open end wrench and (C). **See Figure J and K.**

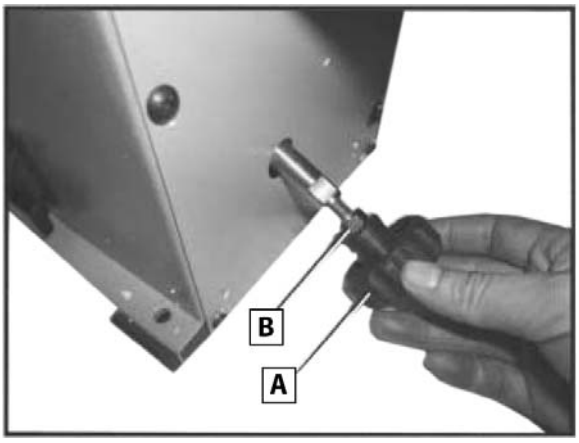


Figure J

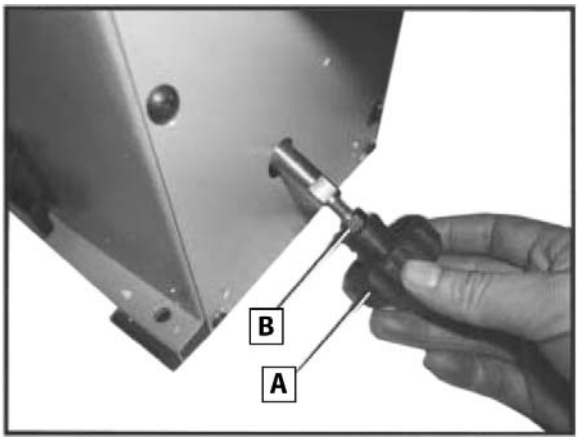


Figure K

SWITCH ASSEMBLY

The jointer is turned off/on by flipping the paddle switch into the up position for on and in the down position for off. The paddle switch is equipped with a yellow key insert that when removed will not allow the machine to be turned on and used. This is to prevent any unauthorized use of this machine. Simply just remove the yellow key (A). **See Figure L.**

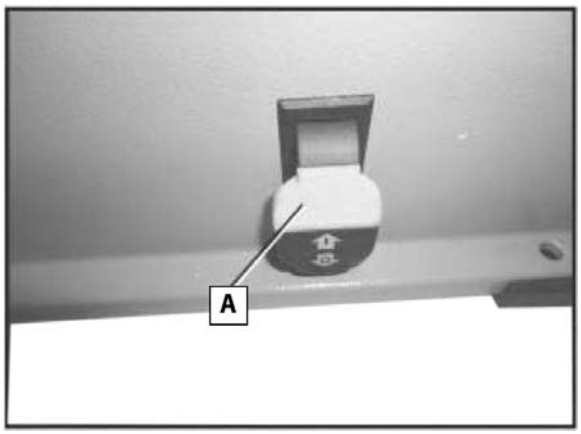


Figure L

FENCE ADJUSTMENTS

WARNING!!!

Make sure that machine has been removed for its power source before making any of these adjustments. Failure to do so could result in property damage or even serious personal injury.

1. In order to move the fence across the table loosen the locking lever (A). **See Figure M.**

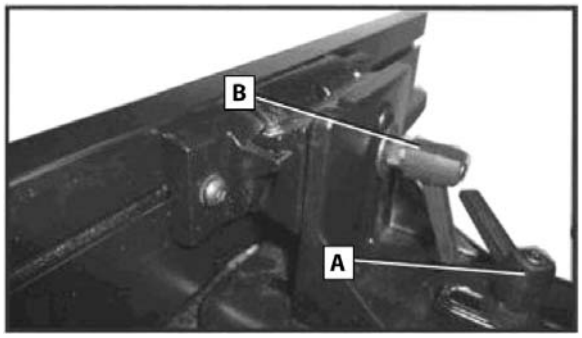


Figure M

NOTE:
Lock levers (A) and (B) can be repositioned by pulling up on the lever and rotating the lever then placing it back down on the nut located underneath the lever.

2. To tilt the fence you will need to loosen the tilt lock lever (B) and tilt the fence to the desired angle then tighten the tilt lock lever to secure fence in place. **See Figure M.**

3. The fence is equipped with adjustable positive stops at the most common fence positions of 90° and 135° outwards. To check and adjust the positive stops for accuracy follow the next steps.

4. Using machinists square (C) placed on the table with one end against the fence and the other against the table adjust the fence until it is exactly 90°. **See Figure N.**

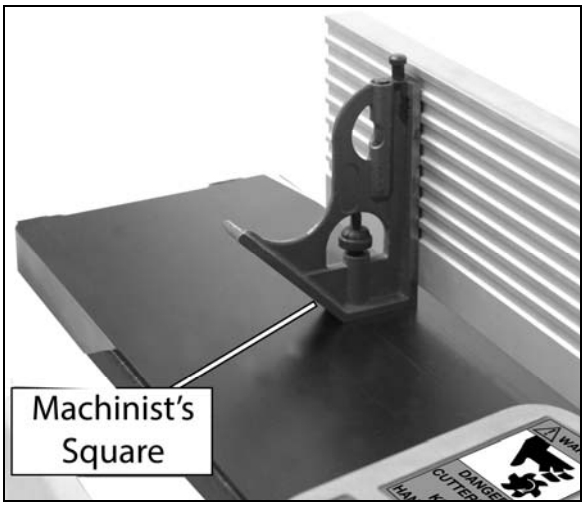


Figure N (90°)

5. Tighten the set screw (D) with the supplied hex wrench until it contacts the stop (E). **See Figure O.**

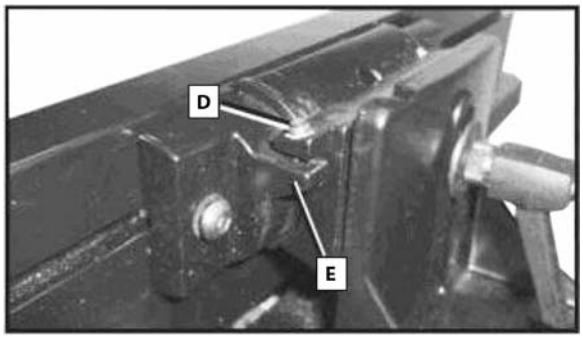


Figure O

NOTE:
These positive stops enable the user to quickly and efficiently change the fence setting from 90° to 45° effortlessly.

INFEED/OUTFEED TABLE ADJUSTMENTS:

WARNING!
Make sure the machine is unplugged from the power outlet before making any changes.

The infeed and outfeed tables are modifiable for coplanar or parallelism if ever needed. These are positioned at the factory. If after planning or edge joining a work piece and modification is needed, use these instructions.

1. Drop the infeed table to its lowest setting.

2. Put a straight edge on the outfeed table across the cutter head and check for parallelism.

3. The straight edge should be flat on the outfeed table and the cutter tips should touch the straight edge on front and back of the table close to the fence.

4. If the outfeed table is not aligned with the cutter head, detach or loosen and remove the table screws and washers to get a hold of the leveling adjusters. **See Figure 1.**

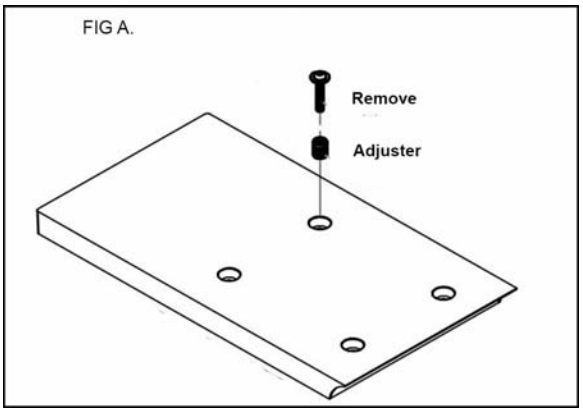


Figure 1

5. By using a slotted screwdriver, twist adjusters to align outfeed table with cutter head

6. When it is properly aligned, put back the washers and screws.

7. Reposition the straight edge across the outfeed table, cutterhead, and extending over the infeed table.

8. Lift the infeed table to contact the straight edge.

9. If modification is required, repest steps 4 and 5 above for leveling (coplanar and parallel) the infeed table.

NOTE:
These modifications, if needed may take several attempts.

INFEED/OUTFEED TABLE COPLANER AND CUTTERHEAD PARALLELISM

The infeed and outfeed table one your CX08BTHC have been adjusted and set at the factory. However there is a possibility that these settings may have changed during transportation and may no longer be coplanar or parallel to the cutterhead. Before operating your jointer you should check the setup using a 24” metal ruler.

NOTE:

The red depth of cut indicator should not be used for adjusting the tables for parallelism and coplanar. The cut depth indicator can be readjusted to zero after all adjustments are made. Simply just loosen the screw and reset the indicator.

WARNING!

Make sure to always use protection guards, push blocks, and by all means keep hands away from cutterhead.

1. Now locate the 2 screws holding the cutterhead guard bracket and loosen the screw **(A)(cutterhead guard screws) in Figure 1.** Hold the guard and guard brackets as shown in **Figure 2.** Slide up and lift out to remove. **See Figure 2.**

NOTE:

The cutterhead guard is equipped with a tension return spring. The tension of this spring is set at the factory. When the guard is installed correctly it should return to making contact with the fence automatically after your work piece passes over the cutterhead. Insure that the guard is functioning as it should before using this machine.

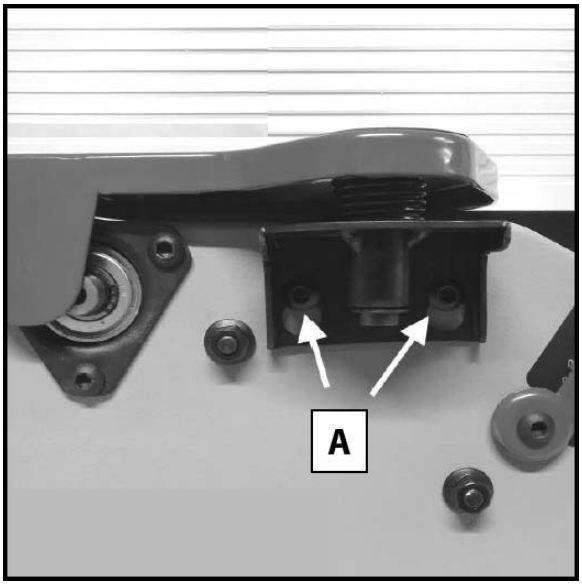


Figure 1

Figure 2

2. Lower the infeed table to it's lowest setting by rotating the table lock knob (A) counterclockwise. Then loosen and rotate the infeed table lower/raise knob (B) clockwise to lower the table**. See Figure 3.**

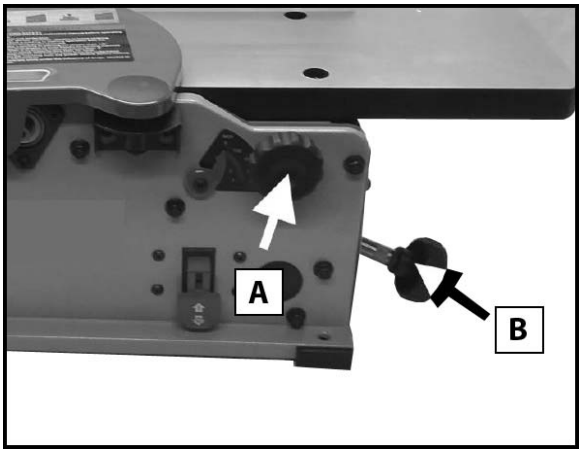


Figure 3

3. Take a the metal ruler (atleast 24” in lentght) and place it on the outfeed table across the cutterhead close to the fence to check for parellilism. Take the supplied 4mm hex head wrench and place it in to the end of the cutterhead and rotate the cutterhead counter-clockwise with the hex wrench until the tip closest to the fence is at its highest point. The straight edge should be laying flat on the outfeed table and the cutter tip should just be touching the straight edge without moving it. Then move the straight edge forward and repeat for the front edge of the table using the cutter tip closest to the edge of the table. **See Figure 4 and Figure 5.**

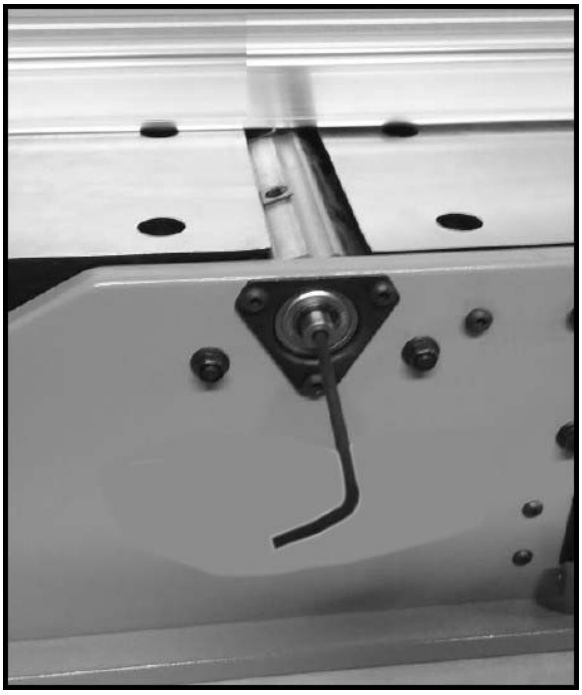


Figure 4

Figure 5

If the infeed our outfeed tables are not level (parallel) with the cutterhead tips you will

have to loosen and/or remove the table screws and washers to access the leveling adjusters. **See Figure 6 below**.

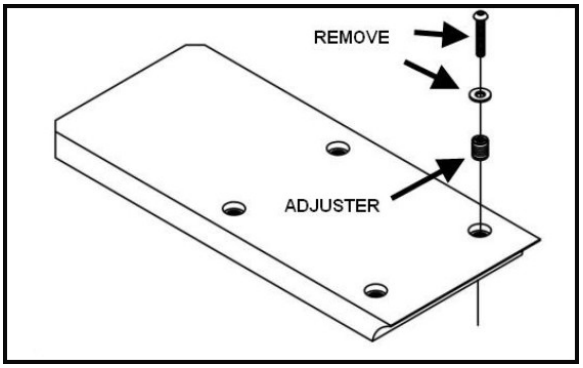


Figure 6

NOTE:
Turn the adjustments clockwise to raise table or counter-clockwise to lower table. Making these adjustments if required may take a couple attempts.

A.) Using a flat head screw driver turn the adjusters to level the outfeed table with the cutterhead.

B.) Once the table is parallel you may then replace the washers and tighten the screws back up.

4. Raise the infeed table so that it just touches the straight edge form at the front. Now rotate the cutterhead with the 4mm hex wrench so the first cutter tip is at it's highest point. Repeat this process moving the straight edge towards the fence. If the infeed table is not parallel to the cutterhead or coplanar to the outfeed table you will need to perform the table leveling instructions in the previous step. **See Figure 7 and Fiugure 8** showing both infeed and oufeed tables are parallel and coplanar with the cutterhead.

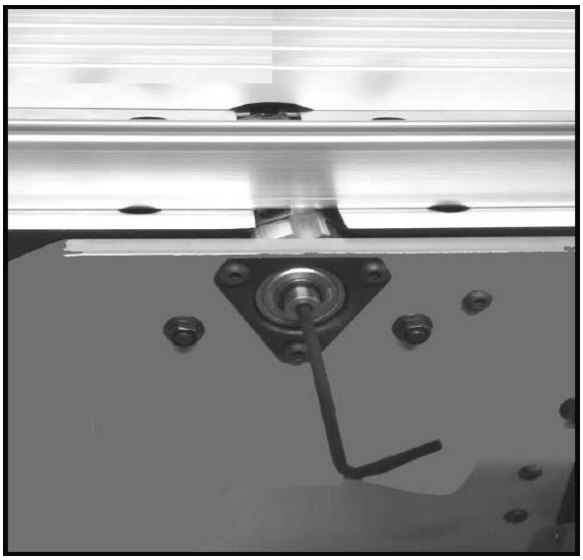


Figure 7

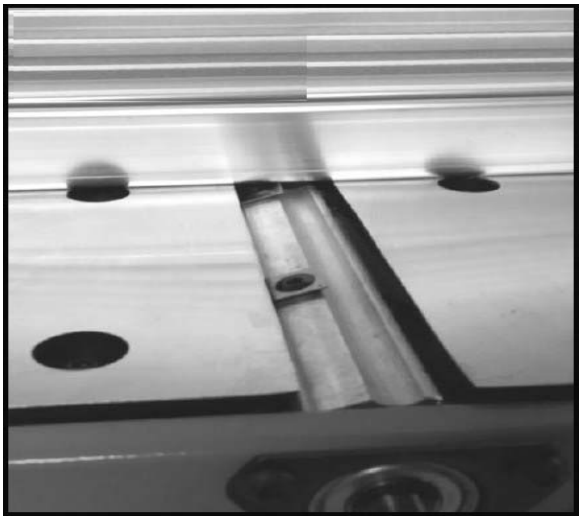


Figure 8

INFEED/OUTFEED EXTENSION SUPPORT ADJUSTMENTS

The infeed and outfeed extension supports are modifiable for coplanar or parallelism if needed. These are positioned at the factory. If after planning or edge joining a work piece and modification is needed, use these instructions.

1. At the left side of the jointer, place a straight edge on the outfeed table across the outfeed extension support and ensure it is parallel.

2. The straight edge should be flat on the outfeed table and the outfeed extension support should connect.

3. If the level modification is needed, release the lock nut (G,H) by hand and release only the screws (A,B) by the given wrench, then turn the leveling stud (C,D) by putting the wrench inside the hole (E,F). If the hole (E,F) at the top, the support will be at the maximum position, if at the bottom, the support would be at the lowest point. After finishing the above, tighten the screw (A,B), then check the parallelism. **See Figure 9 and 10 below.**

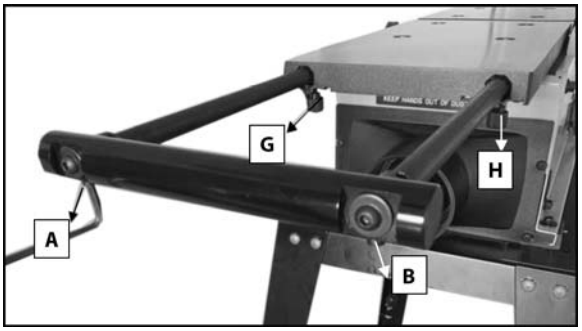


Figure 9

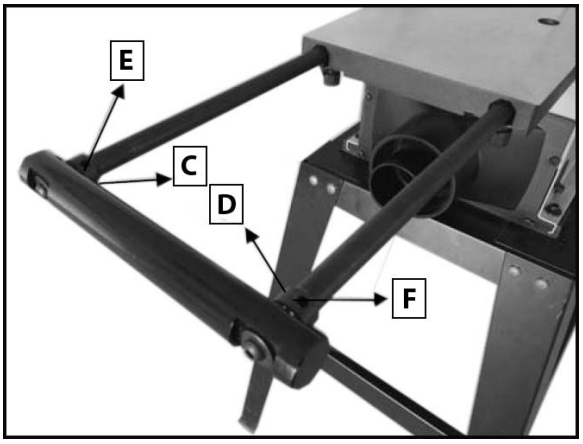


Figure 10

Follow the same steps for the right side of the jointer.

NOTE:
These modifications, if needed may take several attempts

OPERATIONS

NOTE:
This operations portion was made to give instructions on the important operations of this jointer. Though, it is in no way recommended for every jointer operation. It is advised that you read books, trade magazines, or get proper training to make the best use of your jointer while reducing the risk.

WARNING!
Never use or move hand directly over the cutterhead as this could result in serious personal injury.

WARNING!
Make sure to always use protection guards, push blocks, and by all means keep hands away from cutterhead.

STARTING AND STOPPING JOINTER

1. The on/off switch (A) can be found on the front of the jointer. Jointer needs to be turned on by inserting the safety key and move switch (A) upwards.
2. To turn OFF jointer, always move switch downwards before removing key. **See Figure Q.**

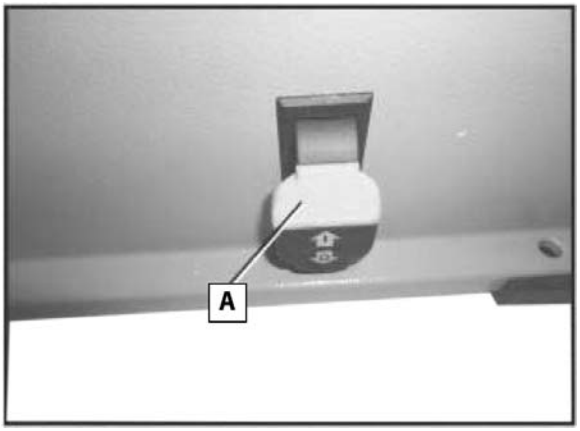


Figure Q

PLACEMENT OF HANDS DURING FEEDING

As soon as the jointer is on and before the cut begins, the work need to be held down securely with the left hand using a push pad against the infeed table and fence while the right hand with a push pad moves the workpiece over the cutterhead. Once the work is underway the new surface lay steadily on the outfeed table. Move the left hand to the get the work from the outfeed table and maintain level contact with the fence. Use your right hand to push the work forward and before the right hand gets to the cutterhead, it should be moved to the work on the outfeed table.

DIRECTION OF GRAIN

Do not feed work in to the jointer against the grain. The outcome would be chipped

and splintered edges. Feed the grain to attain a smooth surface. **See Figure R.**

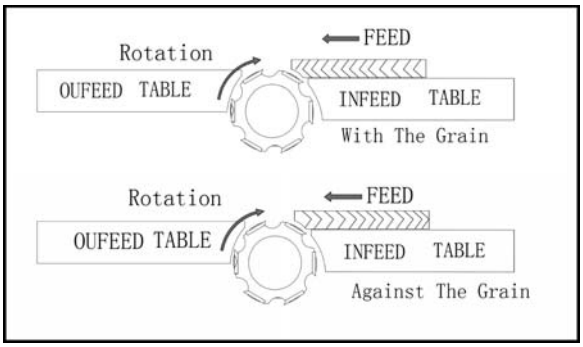


Figure R

The jointer can accommodates cuts up to 1/8” in depth. The hand on the scale is to show the depth of the cut. To regulate the depth of cut, release lock knob and twist adjusting knob clockwise to reduce the counterclockwise to left the infeed table until the feed table is at the preferred position. Tighten lock knob. **See Figure S.**

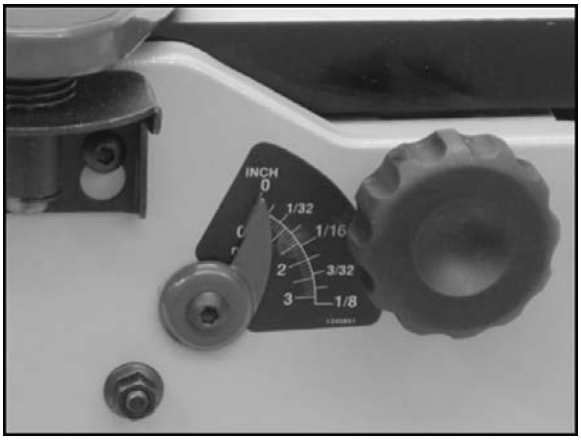


Figure S

Below is table 20A suggested highest depth of cut for various board widths of soft and hard woods.

Table 20A Maximum depth of cut		
Board Width	**Soft Wood**	**Hard Wood**
Less than 6”	1/8”	3/32”
7”	3/32”	5/64”
8”	5/64”	1/16”

INFEED EXTENSION SUPPORT/OUTFEED EXTENSION SUPPORT

For longer workpieces extend the infeed extension support and outfeed extension support to securely support your workpiece. The Maximum length is 51’’, then tighten the support lock knob (K). **See Figure T.**

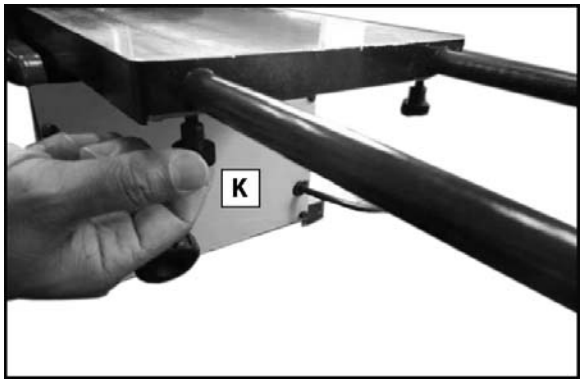


Figure T

PUSH BLOCKS

CAUTION!

A collection of push blocks (A) should be used at all times to prevent damage to hands. **See Figure U.**

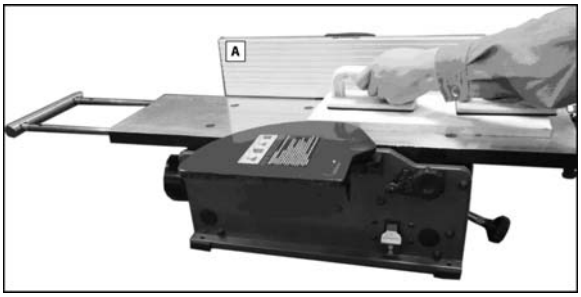


Figure U

WARNING!

Make sure to always use push blocks when performing operations to avoid accidents never pass hands over the cutterhead.

JOINTING AN EDGE

This is the most usual operation for the jointer. These cuts are made to square an edge of a work-piece. Place the guide fence square with the table. The depth of the cut should be the least required to get a straight edge. With the best face of your workpiece pushed tightly next to the fence with push blocks move the workpieces all the way through the cutterhead. **See Figure V.**

Figure V

SURFACE PLANING

Surfacing is like the edge jointing operation but for the position of the work piece. For surfacing, the most important flat surface of the work piece is put on the infeed table of the jointer with the thin edge of the work piece next to the fence. The work piece is moved from the infeed table, across the cutterhead to the outfeed table, establishing a leveled surface on the work piece.

MAINTENANCE

WARNING!

Make sure that the machine is unplugged from its power outlet before performing any maintenance procedures.

Your jointer should work for a very long period of time if you take out time to perform the following maintenance procedures periodically.

CLEANING

Sawdust pileups and other remains can make the tool joint and plane incorrectly. Constant cleaning and waxing is needed for correct precision planning and jointing. Any moving parts should be cleaned frequently with penetrating oil and lubricated with a light covering of medium weight machine oil.

CAUTION!

With the machine removed from the power source, use low pressure air to blow of motor to remove any kind of remains or pileups. Air pressure over 50P.S.I. as the pressure is too high and can damage the insulation. A respirator and safety glasses should always be worn by the operator when using compressed air. Always keep area clean and in safe order so chips and dust do not build up under the machine.

Every so often clean, wax, and buff the tables. This would help in avoiding improper feeding of the work piece and ensure smother operation.

HARDWARE TIGHTNESS

Check to see if the screws, clamps, nuts and bolts are secured tightly and in good condition. Remove the cutterhead safety guard on the machine and check the cutterhead inserts and screws to make sure it's tight after 50 hours of use. Recheck often.

WARNING!

Make sure that the machine is removed from the power outlet before performing any maintenance procedures

BLADE (CUTTER INSERT) REPLACEMENT

WARNING!

To prevent and avoid severe personal injury NEVER SPIN THE CUTTERHEAD BY HAND. Cutter insert are extremely sharp! Heavy leather gloves are recommended when working with the cutterhead. Do not touch the cutter insert without gloves

The 8" cutterhead is fitted with 16 index able cutter inserts. All cutter inserts can be rotated to show any one of its two cutting edges. So if one cutting edge becomes blunt or broken, just rotate it 90° to show a new cutting edge

In addition, every cutter insert has a reference on one corner. As the cutter insert is turned, the reference mark can be used as a sign of which edges are used and which are new. **See Figure W.**

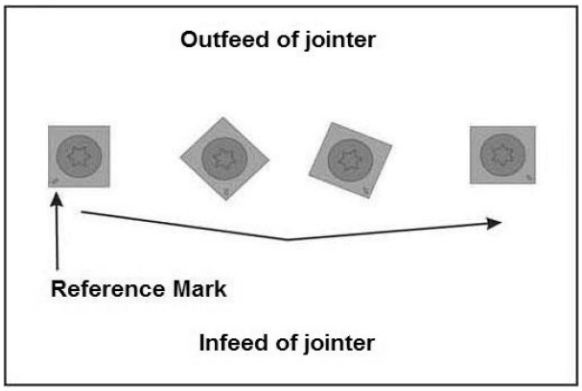


Figure W

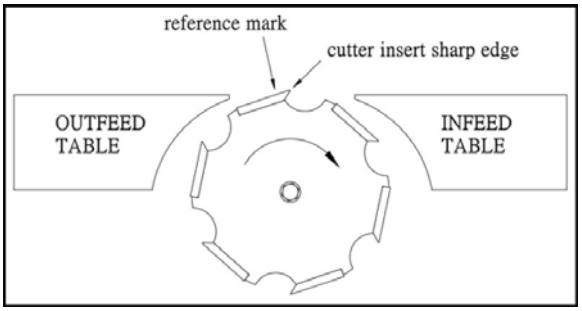


Figure X

To turn or change a cutter inserts:

- REMOVE THE JOINTER FROM THE POWER OUTLET!
- Get rid of any sawdust from the head of the Torx screw.
- Clean all dust and dirt off the cutter insert and the cutterhead compartment from where the cutter insert seat, and replace the cutter insert so a new, sharp edge facing out. If you have any pitch and gum remover use that to be sure you remove the entire wood residue from the cutterhead and cutter insert before trying to turn them. A shot of compressed air can also be used but be sure to wear safety glasses.
- Lubricate the Torx screw thread with a light machine oil, clean off the extra oil of the threads, and torque the Torx screw to 48-50 inch/pounds. When turning a cutter insert, the cutter insert would seat itself before tightening.

Note: the cutter insert and cutterhead needs to be cleaned properly to get a smooth finish. Dirt or dust that gets locked between the cutter inserts and cutterhead would lift the cutter insert and make obvious marks on your work piece when next the machine is being used.

REPLACING THE BELT

1. Use 4MM Allen Key to release the screw of belt guard. **See Figure 1**

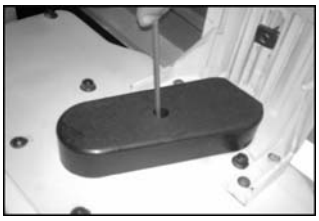


Figure 1

2. Remove the belt guard. Then loosen the pulley and remove the old or damaged belt. **See Fgure 2.**

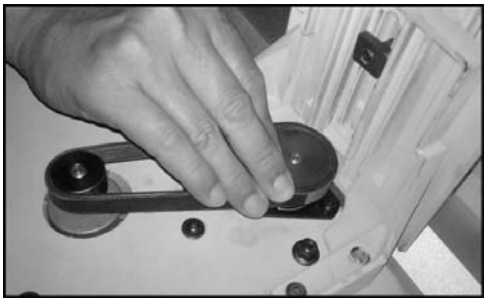


Figure 2

3. Loop the new belt on to the drive pulley. **See Figure 3.**

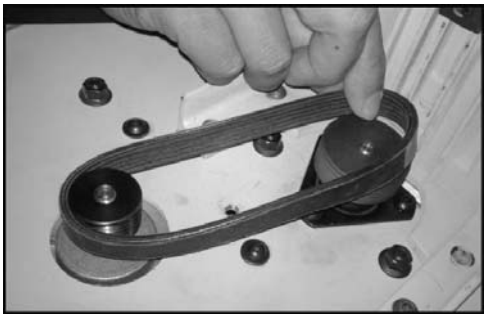


Figure 3

4. Push the belt on the cutterhead pulley. **See Figure 4.** Then turn cutterhead pulley clockwise and to help seat the belt properly on the pulleys. **See Figure 5.**

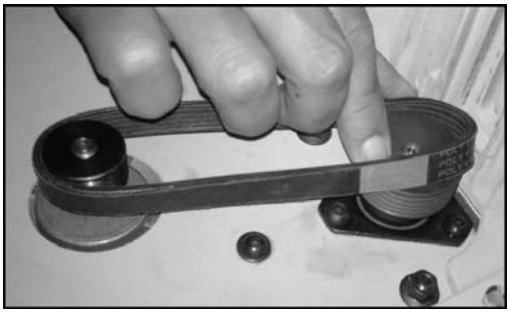


Figure 4

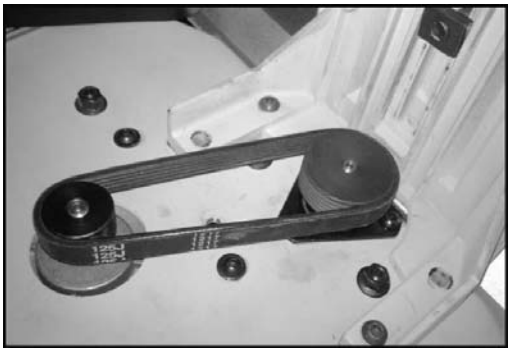


Figure 5

5. Put the belt guard back into place. **See Figure 6 and Figure 7.**

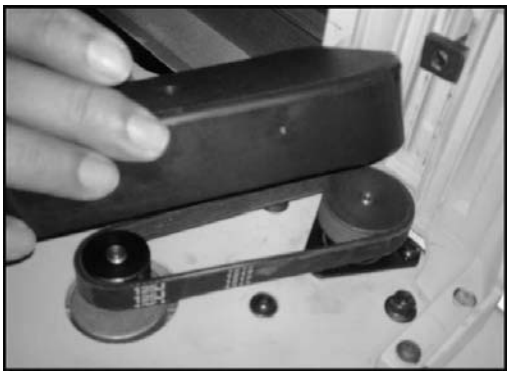


Figure 6

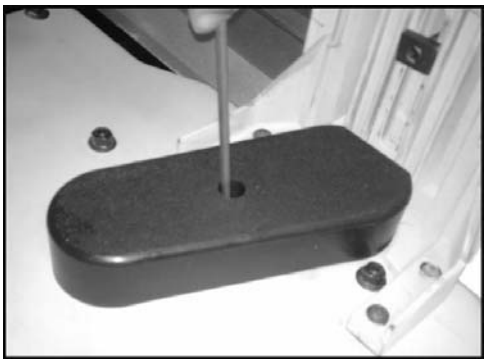


Figure 7

TROUBLE SHOOTING GUIDE

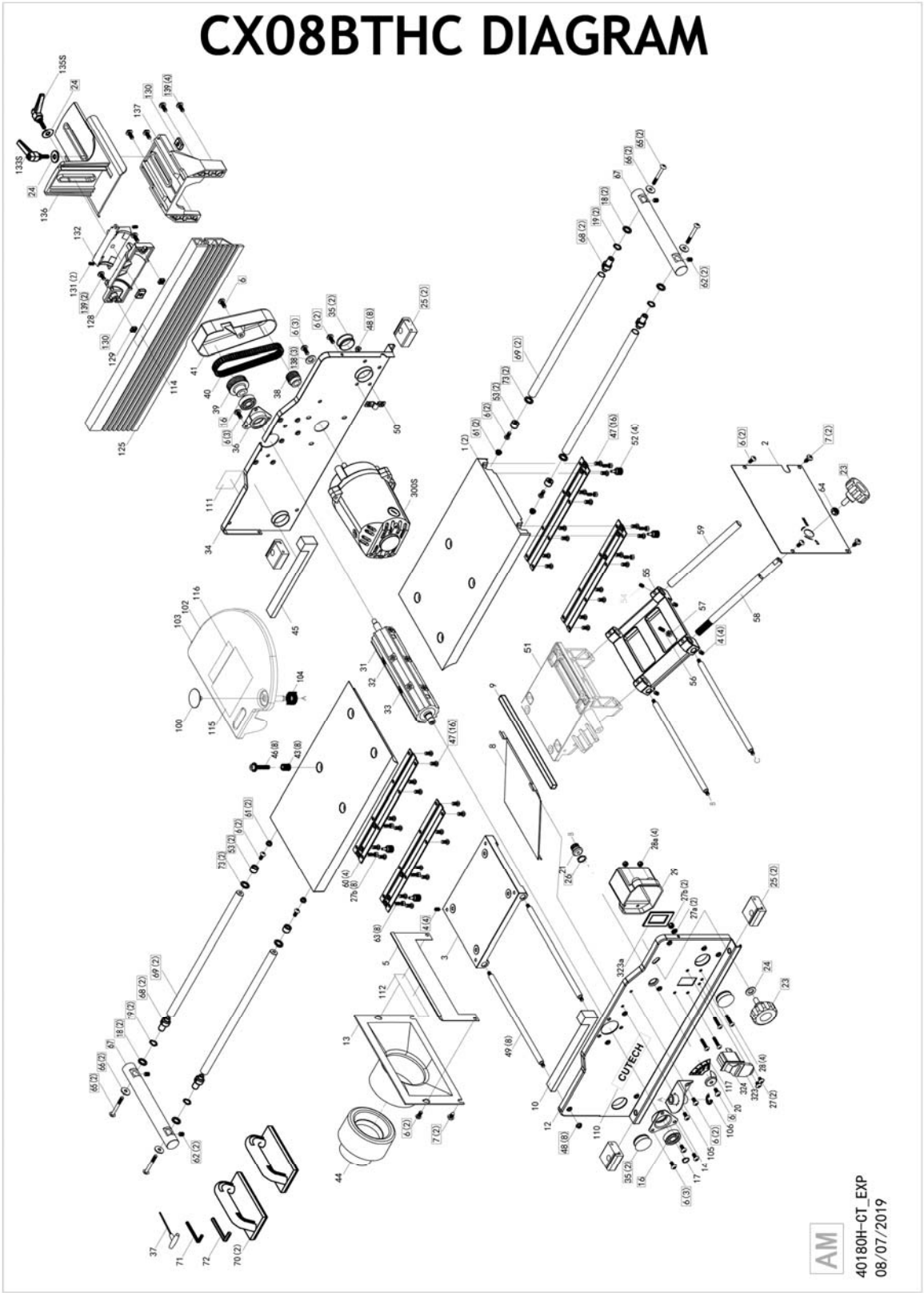
Motor and Machine Operation

PROBLEM	LIKELY CAUSE	SOLUTION
Motor wouldn't turn on .	Isn't plugged in to the out let source. Blown fuse. Lockout key detached. Improper Voltage	Check the outlet source. Have the fuse replaced, reset breaker or call an electrician. Replace lockout key.
Fuses or circuit breaker gets burnt.	Short circuit in cord or plug. Overloaded unit.	Call an electrician to fix or replace cord or plug for shorted wires. Lower the load. Use circuit different from other household appliances or use a circuit that has high amp rating.
Motor fails to increase full power	An overload of circuit with lights, motors and appliances. Short wires or circuits too long	Decrease the load on the circuit. Get a loner wire or decrease length of the circuit.
Motor overheats	Overloading of motor during usage. No air flow through the motor	Take lighter cuts, and decrease the load of the motor. Wipe out motor to provide normal air flow.

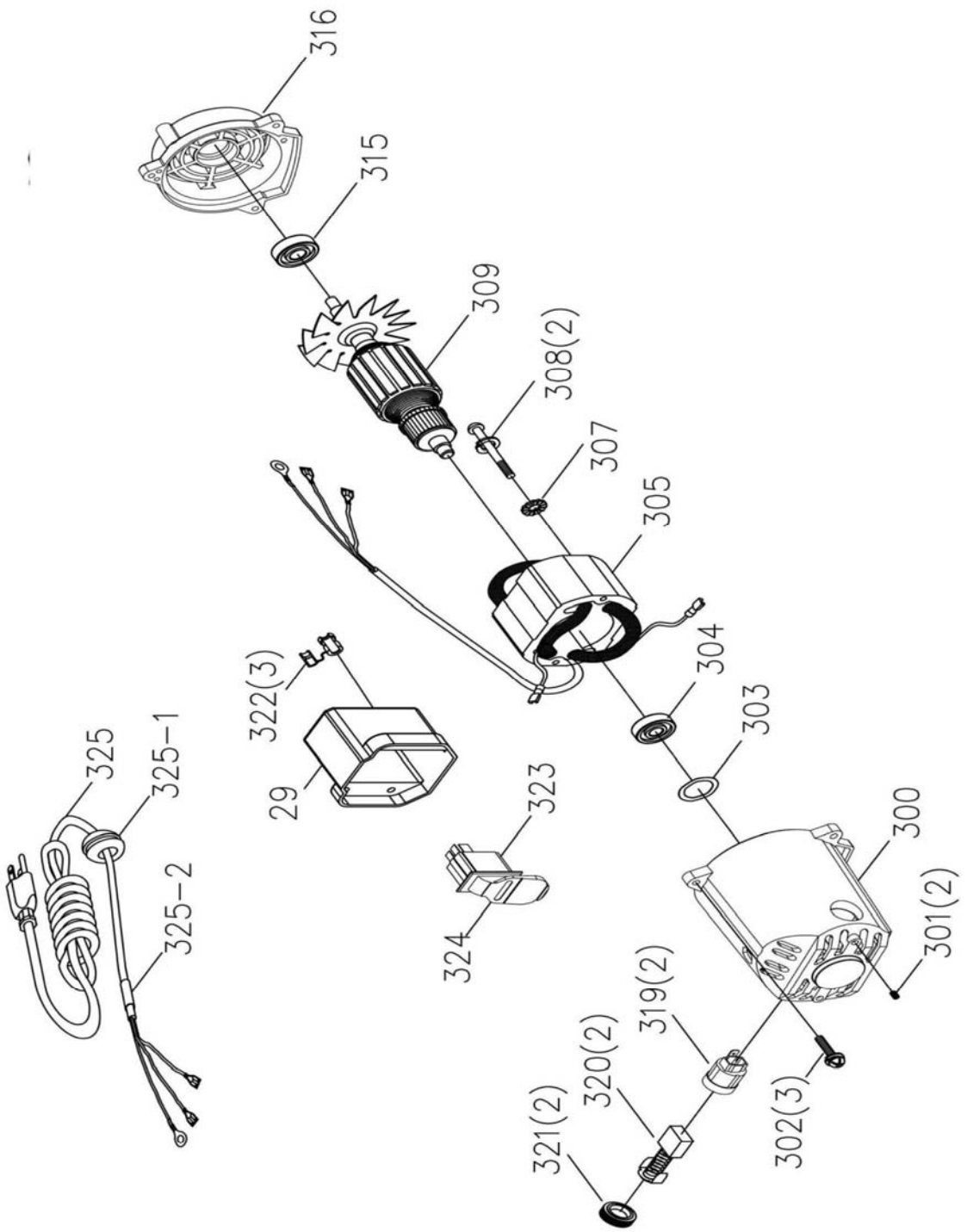
Motor goes off or slows down during a cut.	Overloading of motor during usage. Short circuit in motor or no connection. Circuit breaker moved.	Take lighter cuts, and decrease the load of the motor. Call electrician to fix or replace connections on motor for faulty terminals or damaged insulation. Set up correct circuit breaker; decrease the amount of machines used on that circuit.
Blades lingers when cutting or makes a squealing sound when starting the machine	V-belt damaged. Blunt cutter tips.	Get a new V-belt. Get new cutter tips or turn them.
The jointer vibrates when being used.	Loose or broken cutter insert. Broken belt. Blunt cutterhead bearing.	Get new cutter inserts or tighten them. Get new cutterhead bearing.
Infeed table difficult to modify	Table lock is busy or partly busy	Release the table lock fully.
Work piece stops working at the start of the cut.	Outfeed table is higher than normal	Line up outfeed table with cutterhead cutter insert at the dull center.

Chipped or ripped out	Knot or incompatible grain direction in wood. Nicked or broken cutter inserts. Feeding the work piece very fast. Taking a deep cut.	Check work piece for knots and grain; clean stock should be used. Turn or replace cutter insert. Reduce the feed rate. Take a small depth in cut(make sure to reduce the depth of cutting when using hard wood)
Fuzzy grain	Blunt knives. Wood contains high moisture	If moisture is too high let wood dry before usage Get new knives.
Lines or ridges that run along the length of the board.	Nicked, blunt, or chipped cutter insert.	Turn or get new cutter insert.
Rough cutter marks, wavy surface, or chatter marks across the face of the board.	Fast in feeding the work piece. Cutter inserts not on the same heights in the cutterhead.	Reduce the feed rate Wipe clean and fix the cutter inserts so they are set on the same level as the cutterhead.
Board edge is curved in or curved after jointing	Board not put together with same pressure on infeed and outfeed table during cut. Board has too much bow or coil along its length.	Hold board with same pressure as it moves over the cutterhead Take limited cuts to remove the high spots before a full pass Surface plane one face so there is a good surface to place along the fence. It should take 3 t 5 passes to get a perfect edge depending on the state of the board and the depth of cut.

CX08BTHC DIAGRAM



CX08BTHC MOTOR DIAGRAM



CX08BTHC PARTS LIST

Diagram	Description	QTY	Part No.
1	TABLE	2	PCX08BTHC001
2	RIGHT COVER	1	PCX08BTHC002
3	OUTFEED SUPPORT	1	PCX08BTHC003
4	SET SCREW	8	PCX08BTHC004
5	LEFT COVER	1	PCX08BTHC005
6	BUTTON HD SCREW	20	PCX08BTHC006
7	SELF TAP SCREW	4	PCX08BTHC007
8	DUST CHUTE	1	PCX08BTHC008
9	FOAM SEAL	1	PCX08BTHC009
10	FOAM SEAL	1	PCX08BTHC010
11	KNOB SHAFT	1	PCX08BTHC011
12	FRONT FRAME	1	PCX08BTHC012
13	DUST PORT	1	PCX08BTHC013
14	BEARING RETAINER	1	PCX08BTHC014
15	BRACKET	1	PCX08BTHC015
16	BEARING	2	PCX08BTHC016
17	EXTERNAL RETAINING RING	1	PCX08BTHC017
18	WASHER	4	PCX08BTHC018
19	WAVE WASHER	4	PCX08BTHC019

20	POINTER	1	PCX08BTHC020
21	GEAR	1	PCX08BTHC021
22	SPACING SLEEVE	1	PCX08BTHC022
23	LOCK KNOB	2	PCX08BTHC023
24	FLAT WASHER	3	PCX08BTHC024
25	FOOT	4	PCX08BTHC025
26	EXT RETAINING RING	2	PCX08BTHC026
27	PHILLIPS BUTTON SCRWE	2	PCX08BTHC027
27A	LOCK WASHER EXT	2	PCX08BTHC027A
27B	HEX NUT	10	PCX08BTHC027B
28	HEX SOCKET SCREW	4	PCX08BTHC028
28A	ANTI-LOOSE HEX NUT	4	PCX08BTHC028A
29	SWITCH BOX	1	PCX08BTHC029
31	SPIRAL CUTTERHEAD	1	PCX08BTHC031
32	INSERT	16	PCX08BTHC032
33	TOREX SOCKET HEAD CAP SCREW	16	PCX08BTHC033
34	REAR FRAME	1	PCX08BTHC034
35	HOLE PLUG	4	PCX08BTHC035
36	BEARING RETAINER	1	PCX08BTHC036
37	TORX WRENCH	1	PCX08BTHC037
38	DRIVE PULLEY	1	PCX08BTHC038
39	CUTTERHEAD PULLEY	1	PCX08BTHC039

40	BELT	1	PCX08BTHC040
41	BELT GUARD	1	PCX08BTHC041
42	POINTER SHAFT	1	PCX08BTHC042
43	ADJUST SCREW	8	PCX08BTHC043
44	VACUUM ADAPTOR	1	PCX08BTHC044
45	FOAM SEAL	1	PCX08BTHC045
46	SCREW WITH WASHER	8	PCX08BTHC046
47	BUTTON HD SCREW	32	PCX08BTHC047
48	FLANGE NUT	16	PCX08BTHC048
49	THE ROD	8	PCX08BTHC049
50	CORD LAMP	1	PCX08BTHC050
51	INFEED SUPPORT	1	PCX08BTHC051
52	LOCK KNOB	4	PCX08BTHC052
53	SPACER	4	PCX08BTHC053
54	SET SCREW	1	PCX08BTHC054
55	BRACKET	1	PCX08BTHC055
56	SET SCREW	1	PCX08BTHC056
57	HEX NUT	1	PCX08BTHC057
58	ADJUSTING ROD	1	PCX08BTHC058
59	SHAFT	1	PCX08BTHC059
60	PLATE	4	PCX08BTHC060
61	BUMPER	4	PCX08BTHC061
62	SCREW	4	PCX08BTHC062
63	SCREW	8	PCX08BTHC063

64	HEX NUT	1	PCX08BTHC064
65	SCREW	4	PCX08BTHC065
66	FLAT WASHER	4	PCX08BTHC066
67	EXTENSION SUPPORT	2	PCX08BTHC067
68	EXTENSION SUPPORT LEVELING STUD	4	PCX08BTHC068
69	EXTENSION SUPPORT SLIDING POST	4	PCX08BTHC069
70	PUSH BLOCK	2	PCX08BTHC070
71	HEX WRENCH	1	PCX08BTHC071
72	HEX WRENCH	1	PCX08BTHC072
100	HOLE PLUG	1	PCX08BTHC100
102	CUTTERHEAD GUARD	1	PCX08BTHC102
103	BUMPER	1	PCX08BTHC103
104	SPRING	1	PCX08BTHC104
105	BRACKET	1	PCX08BTHC105
106	EXT RETAINING RING	1	PCX08BTHC106
110	NAME PLATE	1	PCX08BTHC110
111	SPEC LABEL	1	PCX08BTHC111
112	WARNING LABEL	1	PCX08BTHC112
115	WARNING LABEL	1	PCX08BTHC115
116	CUTTER INSERTS REPLACEMENT LABEL	1	PCX08BTHC116
117	SCALE	1	PCX08BTHC117
125	FENCE	1	PCX08BTHC125

128	BEVEL BRACKET	1	PCX08BTHC128
129	SQUARE NUT	2	PCX08BTHC129
130	SPECIAL NUT	2	PCX08BTHC130
131	NYLOK SOC HD SCREW	2	PCX08BTHC131
132	INTERMEDIATE BRACKET	1	PCX08BTHC132
133S	TILT LOCK LEVER ASSY	1	PCX08BTHC133S
135S	TILT LOCK LEVER ASSY	1	PCX08BTHC135S
136	FENCE SLIDE BRACKET	1	PCX08BTHC136
137	FENCE BRACKET	1	PCX08BTHC137
138	FLAT WASHER	3	PCX08BTHC138
139	SOC BUTTON HD SCREW	9	PCX08BTHC139
300S	MOTOR	1	PCX08BTHC300S
301	SOCKET SET SCREW	2	PCX08BTHC301
302	SCR HEX SOC CAP WITH WASHER	3	PCX08BTHC302
303	WAVY WASHER	1	PCX08BTHC303
304	BALL BEARING	1	PCX08BTHC304
305	STATOR ASSY	1	PCX08BTHC305
307	STAR WASHER	1	PCX08BTHC307
308	PAN HEAD SCREW	2	PCX08BTHC308
309	ROTOR ASSY	1	PCX08BTHC309

315	BALL BEARING	1	PCX08BTHC315
316	END COVER	1	PCX08BTHC316
317	FLAT WASHER	3	PCX08BTHC317
319	BRUSH HOLDER	2	PCX08BTHC319
320	BRUSH	2	PCX08BTHC320
321	BRUSH CAP	2	PCX08BTHC321
323	SWITCH	1	PCX08BTHC323
323-1	SWITCH COVER	3	PCX08BTHC3231
324	SWITCH KEY	1	PCX08BTHC324
325	CORD WITERMINALS	1	PCX08BTHC325
325-1	GROMMET	1	PCX08BTHC3251
325-2	SLEEVE	1	PCX08BTHC3252

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 labour (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. Return authorization may take up to 72 hours for inspection and approval.

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.