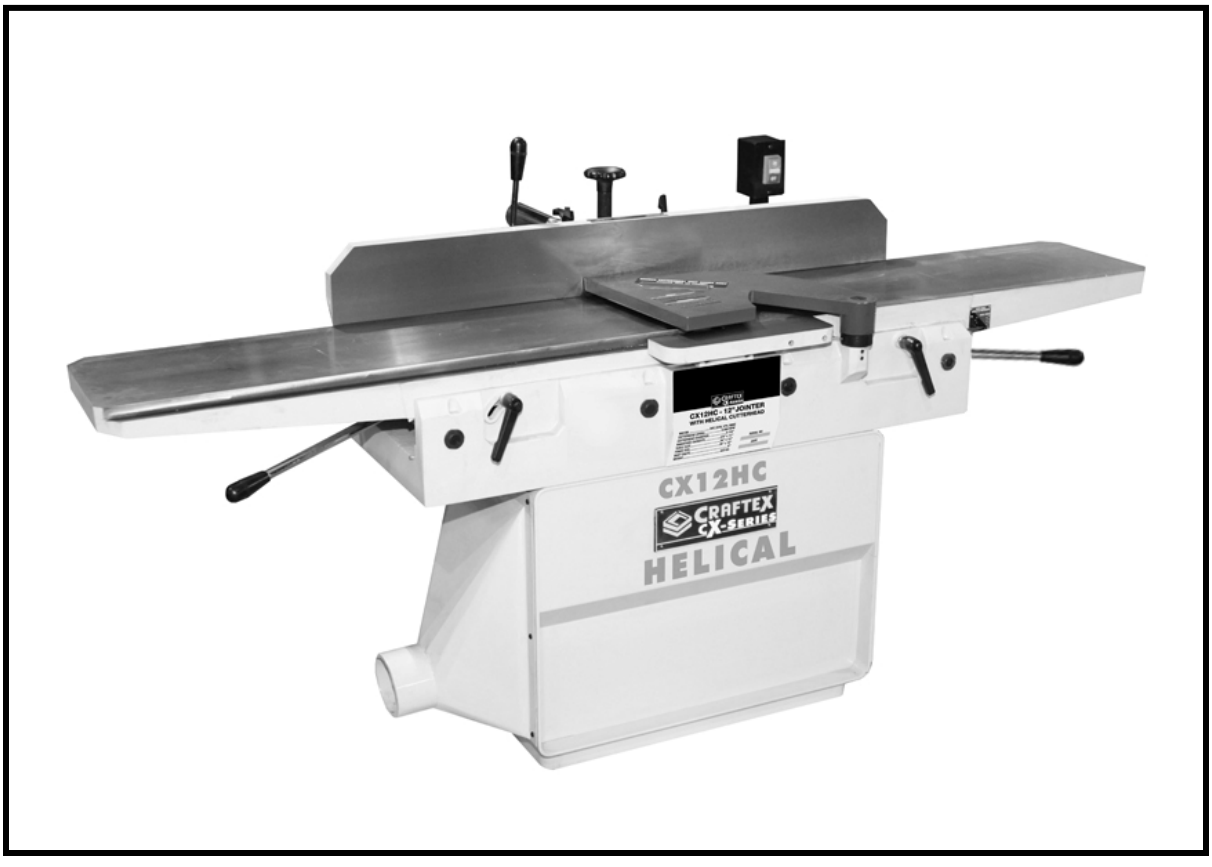
MODEL CX12HC
12" JOINTER WITH HELICAL CUTTERHEAD
USER MANUAL



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Version 1.0

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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 the bystanders safely away while the machine is in operation.

CX12HC SPECIFIC SAFETY INSTRUCTIONS

- **ALWAYS** lock the mobile base before operating the machine.
- **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 that does not provide a reasonable distance of safety for your hands.
- **NEVER** make cuts deeper that 1/8" in a single pass to prevent overloading the machine and to prevent dangerous 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.
- **MAINTAIN** the proper relationship of in-feed and out-feed table surfaces and the cutter-head knife path.
- **ALL OPERATIONS MUST** be performed with the guards in place to ensure safety.
- **ALWAYS** inspect your stock 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 the 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 the CX12HC. 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*.**

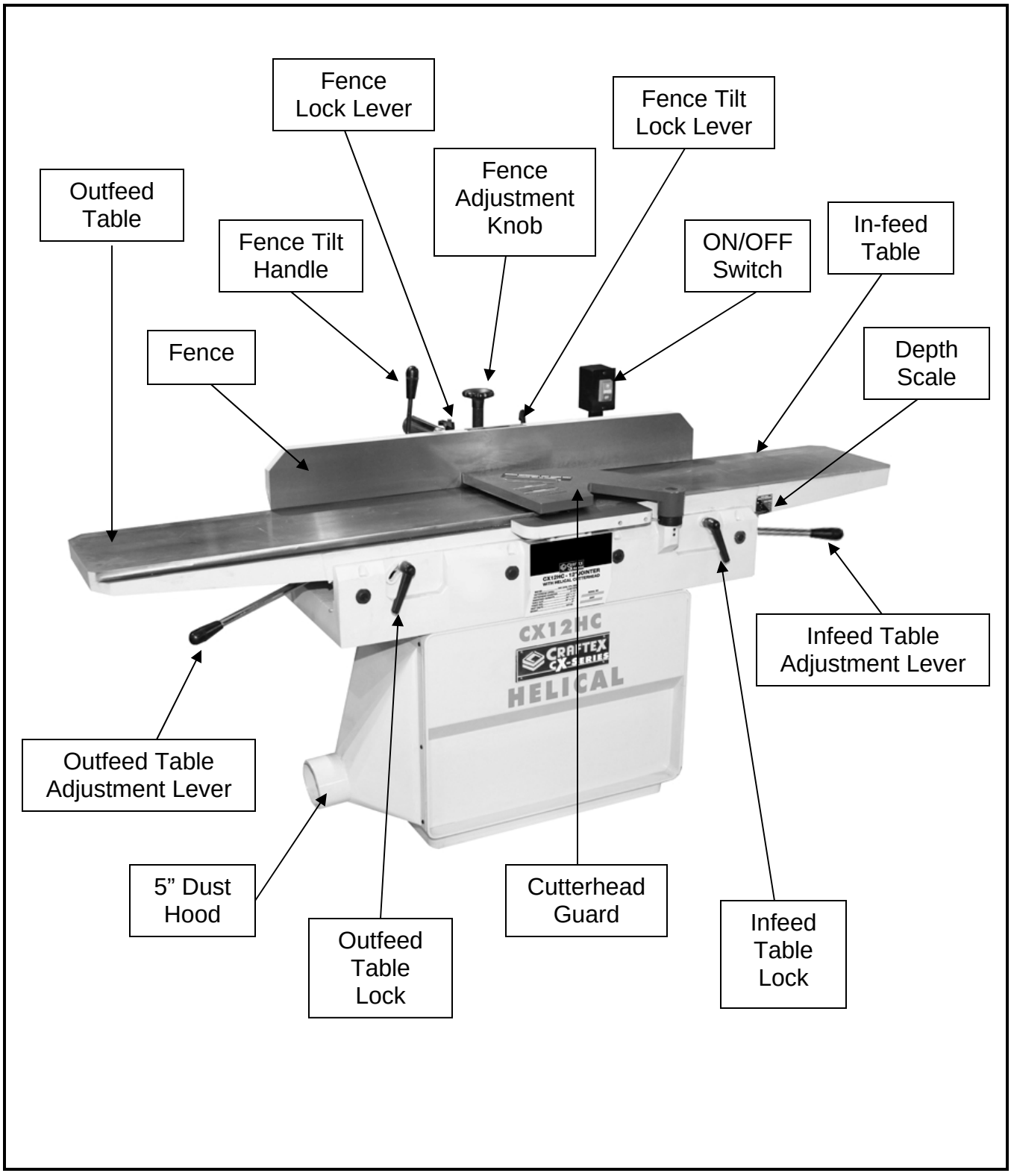
CX12HC JOINTER
FEATURES

MODEL CX12HC - 12” JOINTER WITH HELICAL CUTTERHEAD

As part of the growing line of Craftex woodworking equipment, we are proud to offer the CX012HC, an 12” Jointer with Helical Cutterhead. By following the instructions and procedures laid out in this user manual, you will receive years of excellent service and satisfaction. The CX12HC is a professional tool and like all power tools, proper care and safety procedures should be adhered to.

- Motor: 3 HP, 220 Volts, Single Phase, 60Hz, 15 Amps
- Double 'V’ Belts Drive: Yes
- Max. Depth of Cut: 1/8”
- Max. Width of Cut: 12”
- Cutter Head Speed: 5,000 RPM
- Number of Cutters: 96
- Size of Cutter: 15mm x 155 x 2.5mm
- Cuts per Minute: 21,400
- Table Size: 12” Width, 83-1/4” Length and Height (from floor) 31-1/2"
- Fence Size: 1-1/4” Width, 47” Length, 5-1/2” Height, 45°, 90° and 135° Stops
- Die Cast Metal Cutterhead Guard: Yes
- All Ball Bearing and Cast Iron Construction: Yes
- Shielded and Lubricated Ball Bearings: Yes
- Dust Hood: 5"
- Net Weight: 510 lbs
- Warranty: 3 YEARS

CX12HC PHYSICAL FEATURES



SETUP

Before starting setting up the machine you need to read and understand this user manual completely. For the protection of your eyes you should wear safety glasses.

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

WARNING!

CX12HC is a heavy machine. Do not over-exert yourself. Use fork truck or other devices for safe moving.

IMPORTANT!

When setting up your machine, you will want to find an ideal spot where your jointer will most likely be positioned most of the time. Consider your complete work environment as well as working comfortable with the jointer before placing your machine in the ideal spot.

UNPACKING

The machine is properly packaged in a carton for safe transportation. When unpacking, carefully inspect the crate and ensure that nothing has been damaged during transit. Open the crate and check that the machine is in good condition. The machine is heavy and you should use a fork truck or get assistance to move the machine for safe moving method. You should also clean the cutter-head, in-feed and out-feed tables, and the fence before assembly and operation.

The hardware (screws, washers & etc) might be shipped in a plastic bag. After the machine has been un-packed, check that all loose parts and hardware are present.

PROPER GROUNDING

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

CX12HC 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.

The jointer should be wired with a plug having 3 prongs to fit a 3 prong grounded receptacle as shown in figure-1. Do not remove the grounding prong to fit it into a 2 pronged outlet.

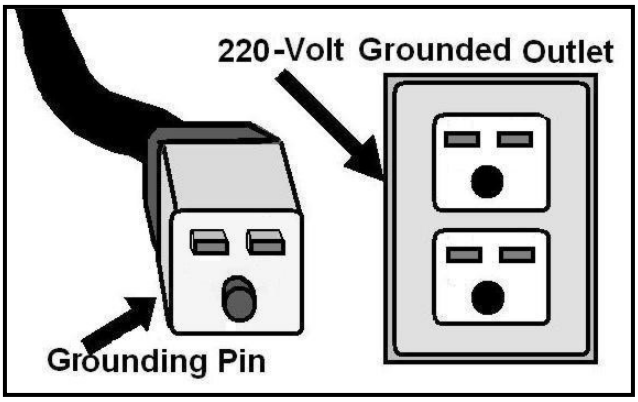


Figure-1 220 volts outlet for CX12HC

It is strongly recommended not to use extension cords with your CX12HC. Always try to position your machine close to the power source so that you do not need to use extension cords.

In case if you really find it necessary to use an extension cord, make sure the extension cord does not exceed 50-feet in length and the cord is 14-gauge to prevent motor damage.

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.

ASSEMBLY

Make sure the cord is disconnected from the power source.

Install the fence assembly to the rear of the cabinet by aligning the fence mounting holes with the holes on the cabinet and tighten the cap screws to secure the fence in position. See figure-2.

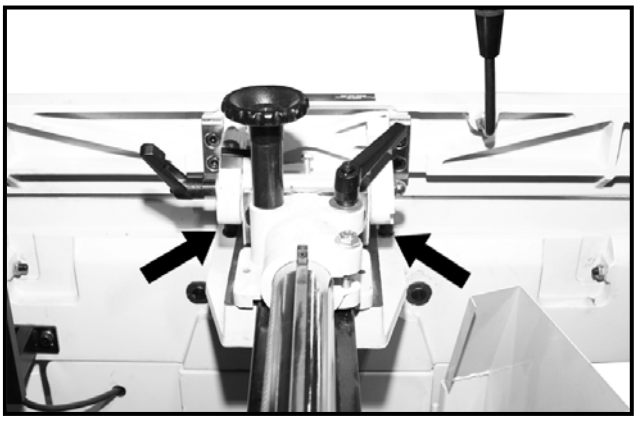


Figure-2 Installing the fence

The jointer comes with the switch bracket installed upside down for shipping purposes.

Loosen and remove the two screws securing the switch bracket to the cabinet. Now, attach the switch bracket to the cabinet upright and secure it using the screws removed. See figure-3.

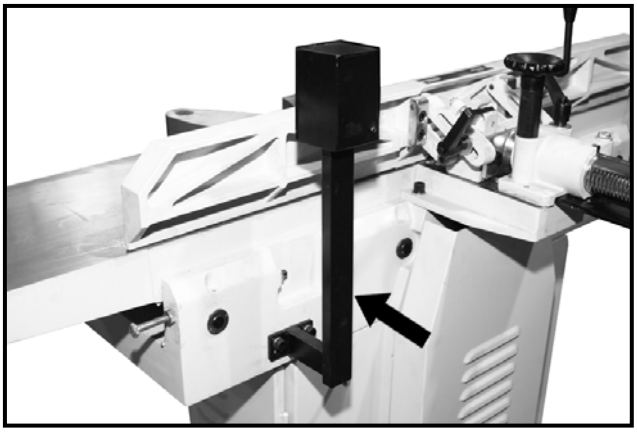


Figure-3 Installing the switch bracket

Insert the cutterhead guard shaft and use the set screws to tight it. See figure-10.

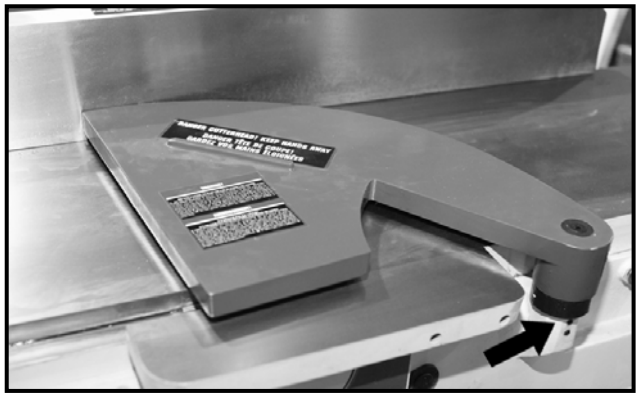


Figure-4 Installing the cutterhead guard

Attach the dust hood to the cabinet and secure it using screws provided.

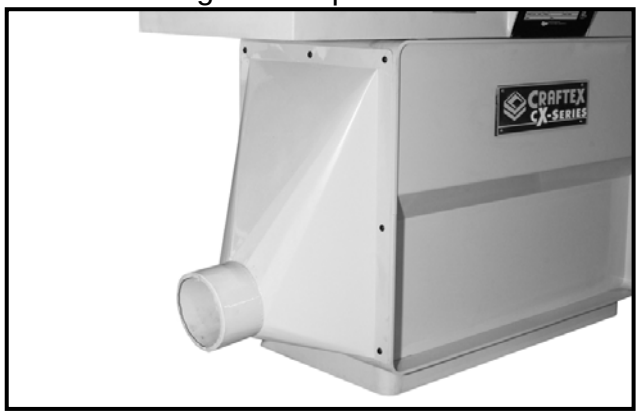


Figure-5 Installing the dust hood

BASIC CONTROLS

The basic controls of the jointer are shown in the figure below. Use this figure and read the text to know what the basic controls of your machine are.

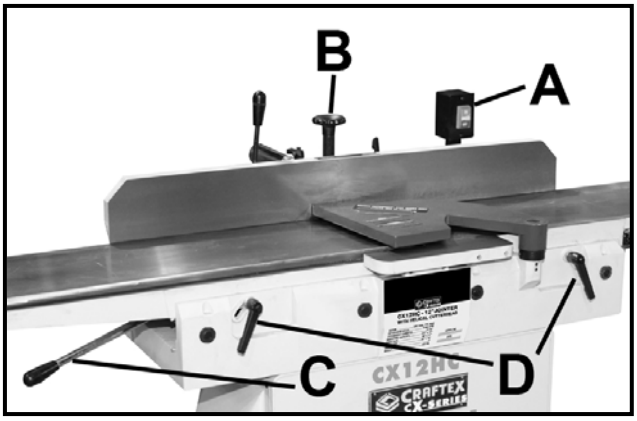


Figure-6 Basic Controls

A. ON/OFF SWITCH: Starts and stops the jointer.

B. FENCE ADJUSTMENT KNOB: Moves the fence forward or backward.

C. TABLE ADJUSTMENT LEVERS: Move the table forward and backward.

D. TABLE LOCKS: Lock the tables to the position desired position.

TEST RUN

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

TO TEST RUN THE MACHINE:
Make sure you have read and understood the safety instructions given in the manual.

Connect the machine to correct power source.

Make sure all the tools and objects used during setup are cleared away from the machine.

Turn the machine ON and let the machine run for a few seconds.

Press stop button to turn OFF the machine and restart the jointer.

Listen and watch the machine for any unusual noises. The machine should run smoothly with little or no vibration.

During the test run if there is any unusual noise coming from the machine or the machine vibrates, immediately shut off the machine and investigate to find out the problem with your machine.

WARNING!

Before starting the jointer please make sure that you have read and understood the manual and you are familiar with the functions and safety features on this machine. Failure to do this may cause serious personal injury.

FENCE ADJUSTMENT

Make sure the cord is disconnected from the power source before making any adjustments.

FORWARD & BACKWARD MOVEMENT

The fence can be positioned anywhere across the table by loosening the lock lever and rotating the star knob shown in figure-7.

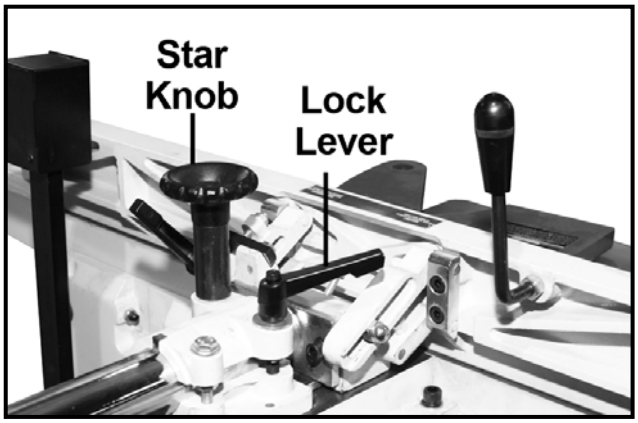


Figure-7 Fence controls for forward and backward movements

Once the fence is moved to the desired position, retighten the lock lever.

TILTING THE FENCE

To tilt the fence outward or inward, loosen the lock lever and tilt the fence to the desired angle. Retighten the lock lever to secure the fence in the desired angle. See figure-8.

When tilting the fence outward, the stop plate must be rotated to the up position allowing the fence to go past it. See figure-8.

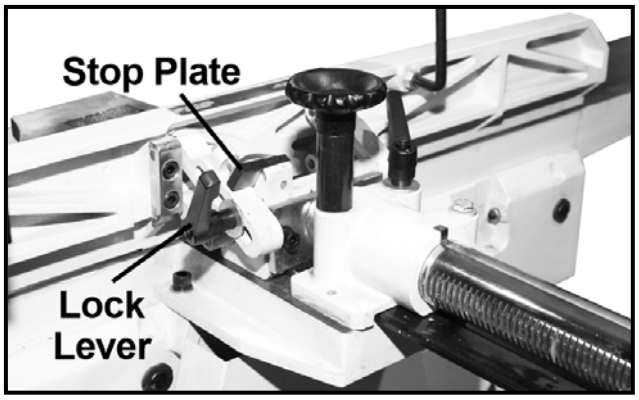


Figure-8 Fence tilt controls

FENCE POSITIVE STOPS

The CX12HC fence is equipped with positive stops at the most common fence positions (90° and 45° right left).

Loosen the lock lever.

Position the fence at 90° to the table making sure the tip of the stop bolt shown in figure-9 is against the stop plate. then tighten the lock handle.

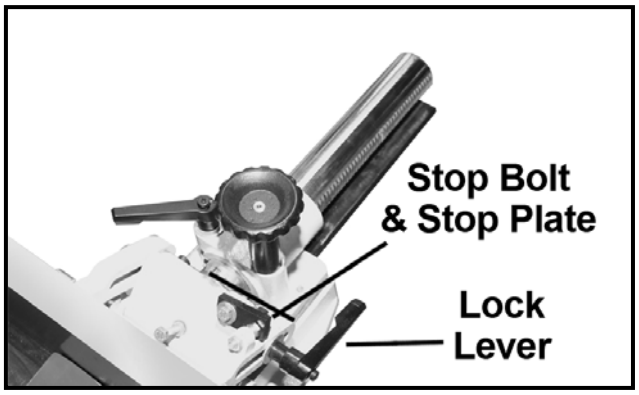


Figure-9 90° positive stop

Using a square, check to see if the fence is at 90° with the table..

If the fence is not at 90° to the table, loosen the lock lever and lock nut on the stop bolt. Turn the stop bolt until it is tip contacts the stop plate. Make sure the table is now at 90° with the table and tighten the lock lever.

Tilt the fence inward as far as possible and use a combination square to check if the fence is tilted 45° inward to the table.

If an adjustment is necessary, loosen the lock nuts and adjust the bolts shown in figure-10 until tip of the bolts contact the brackets.

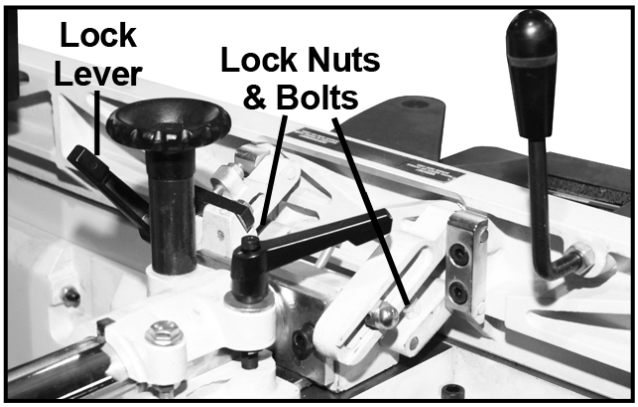


Figure-10 45° inward positive stop

Now, rotate the tilt stop plate to up position and tilt the fence outward as far as possible. Use a combination square and to check if the fence is tilted 45° outward.

If an adjustment is necessary, loosen the lock nut and adjust the bolt shown in figure-11 until head of the bolt contacts back of the fence.

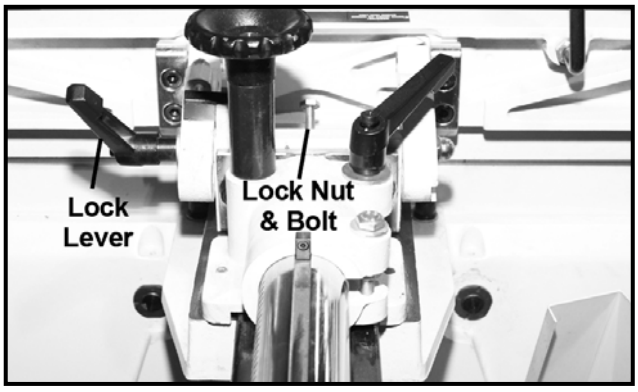


Figure-11 45° outward positive stop

Tighten the lock lever to secure the fence in position.

INFEED TABLE ADJUSTMENTS

To raise or lower the infeed table, loosen the table lock lever. See figure-12.

Move the table height lever up or down until the table is at the desired position and tighten table lock lever. See figure-12.

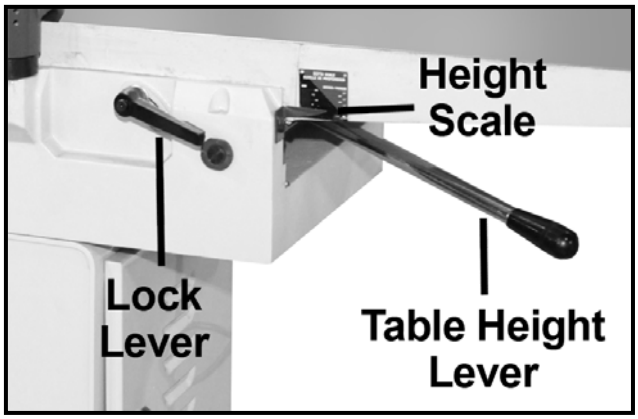


Figure-12 Infeed table height controls

The depth of cut depends on the position of the infeed table in relationship with the cutterhead and it can be read on the pointer and scale. See figure-13.

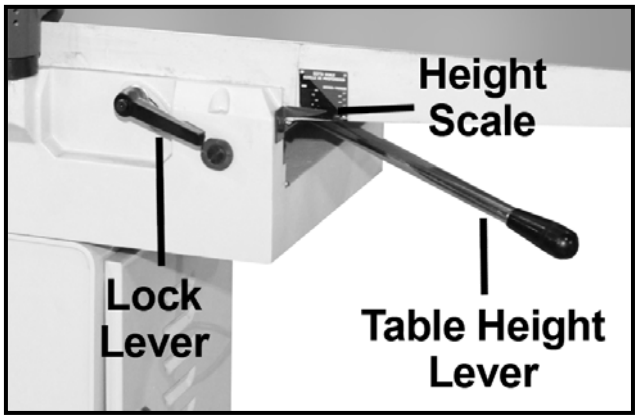


Figure-13 Infeed table height adjustment

Positive stops are provided on the jointer to limit the height and depth of the infeed table. To adjust the stops, loosen two locknuts and shown in figure-14. Turn the two adjustment bolts as necessary.

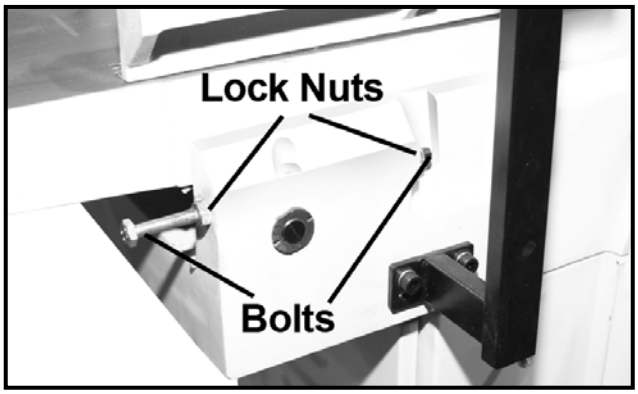


Figure-14 Infeed table positive stop bolts

Retighten locknuts.

We recommend that the height of the infeed table to be adjusted so that the table at its highest point will be 1/2mm below the highest point of the cutter inserts. This is an important feature of your jointer which enables you to rapidly position the infeed table for a finish or final cut.

OUTFEED TABLE ADJUSTMENT

For most jointing operations the outfeed table must be exactly level with the cutter inserts at their highest point of revolution. To move the outfeed table, loosen lock lever shown in figure figure-15 and move the table height lever up or down until the table is level with the cutter inserts.

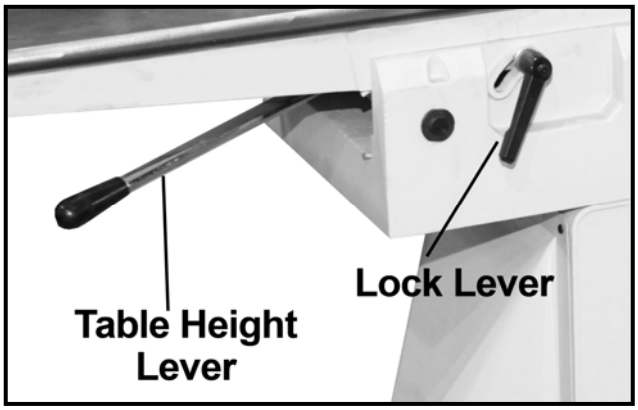


Figure-15 Outfeed table height adjustment

It may be necessary to adjust the positive stops. Loosen the two locknuts shown in figure-16 when moving the table up or down.

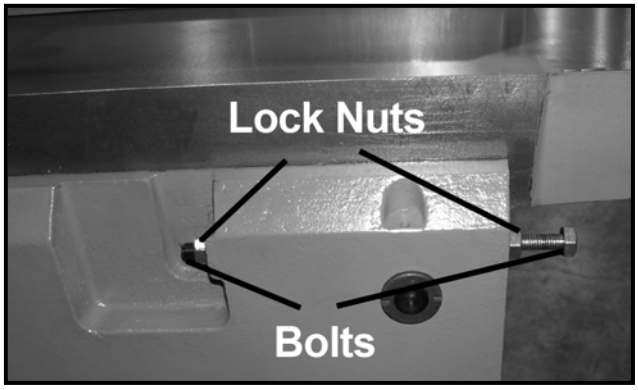


Figure-16 Outfeed table positive stops

Turn the bolts and when the table is exactly level with the cutter inserts at the highest point of revolution, retighten the lock nuts.

WINDING THE CUTTERHEAD GUARD

The cutterhead guar must be checked to see if it works properly.

Pull the guard and let it go. The guard should spring back over the cutterhead.

If the guard drags across the table, loosen the set screws on the guard, raise it slightly then tighten the set screws.

If the guard does not spring back over the cutterhead, loosen the set screws. Hold the guard over the cutterhead and wind the shaft collar clockwise. Tighten the set screws and check to see if the guard works properly.

Figure- 17 Cutterhead gaurd

WORKPIECE INSPECTION

Before cutting any wood, make sure to inspect the workpiece for the nails, staples, small pieces of stone or metal and any other object which is dangerous to come on contact with the blade.

If the wood contains any of these objects and it come in contact with the blade, either the object might fly and hit the operator or seriously damage the blade. For a safe cutting method always inspect your work-piece carefully before cut.

Some of the woods with excessive twisting, wrapping or large knots are unstable while jointing. While jointing operation the work-piece can move un-expectedly, this will either damage the blade or hurt the operator.

Do not joint or surface plane against the grain direction. Cutting against the grain increases the chance of kickback as well as tear out on the stock.

Always joint the stock with the grain so that the grain is pointing down and towards you as viewed on the edge of the stock.

In case the grain changes direction along the edge of the board, decrease the cutting depth and make additional cuts.

Make sure all the stock is sufficiently dried before jointing. Wet stock causes unnecessary wear on the knives and poor cutting results.

CONNECTING TO A DUST COLLECTOR

CX12HC features a 5” diameter dust port to connect to a dust collector. When connecting to a dust collector, use a proper sized hose and make sure all the connections are sealed tightly.

WARNING!

The fine particles of saw dust produced by the machines in your work shop can go into your lungs and cause serious health problems. Make sure your machines are connected to a proper dust collection system while operation.

SURFACE PLANING

When surface planing on a jointer, set the cutting depth to 1/32” and make sure the fence is set to 90°. Place the concave face of the stock flat on the in-feed table and run the jointer. Push the stock over the cutter head with the help of push blocks as shown in figure-18.

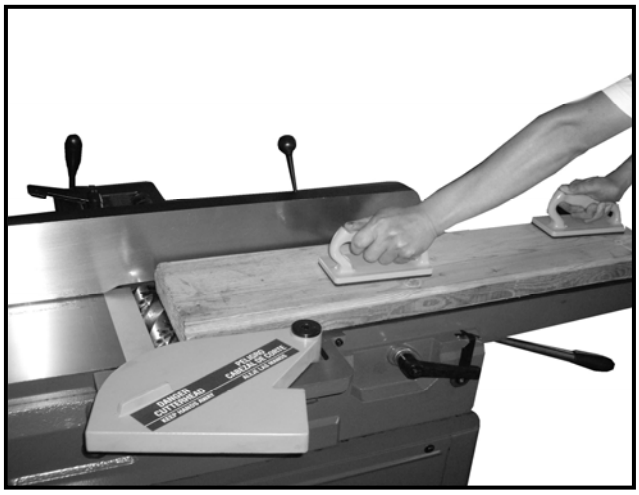


Figure-18 Surface planing

Never plane stock against the grain direction of the wood. It can cause a kick back or there is a possibility of tear-out on the wood.

WARNING!

To save your hands, always use push blocks when surface planing on the jointer. Failure to do so, your hands can come in contact with the cutter head and serious injury can occur.

BEVEL CUTTING

Bevel cutting is the cutting operation to cut a desired angle on the edge of the work piece.

To perform bevel cutting operation on a jointer it is recommended to set the cutting depth between 1/16” and 1/8”.

Now, set the fence to your desired angle and start the jointer. Use push blocks to push the stock over the cutter-head. If the stock is cupped, make sure to put the concave face of the stock flat on the in-feed table. See figure 19.

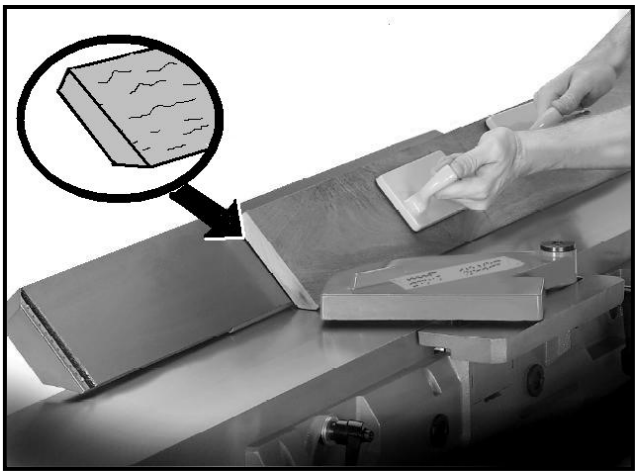


Figure-19 Bevel cutting

EDGE JOINTING

Edge jointing is to make the edge of the stock flat and suitable for joinery or finishing. To edge joint on the jointer set the cutting depth to 1/16” & 1/8” and make sure the fence is set to 90 degrees. Place the concave face of the stock flat on the in-feed table and run the jointer. Use push blocks to push the stock over the cutter head. Repeat the same procedure until the edge of the stock is flat.

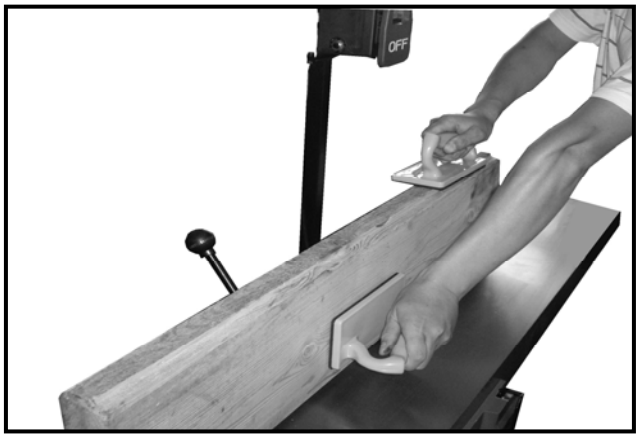


Figure-20 Edge jointing

MAINTENANCE

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

> ***WARNING!***
> *Make sure the switch is turned OFF and the cord is disconnected from the power source when installing, removing any parts or servicing the machine.*

Check the machine for any loose mounting bolts, dull or damaged inserts, worn or damaged wires or any other unsafe condition daily before use.

Regularly vacuum all sawdust from the machine.

The unpainted surfaces such as the precision ground cast iron table top should be protected with a light coat of paste wax and then buffed dry.

Check the V-belts for wear and correct tension on a regular basis.

LUBRICATION

Since all the bearings are sealed and permanently lubricated on the CX12HC, you do not need to lubricated them.

INSPECTING THE CUTTERHEAD KNIVES

The cutterhead knives are supposed to be at the same height with each other and with the outfeed table. If one of the carbide inserts is higher than the others, you will get a poor result while doing any cutting operation.

To inspect the cutter-heads disconnect the jointer from the power source and remove the cutterhead guard so that you can have access to the cutter-head.

Now, take a straight edge and put it on the outfeed table so that it hangs over the cutterhead. Rotate the cutter head body and check the height of each carbide insert with the out-feed table. The inserts should just touch the bottom of the straight edge. If the inserts are set too high or too low then they should be adjusted.

ADJUSTING/ REPLACING CUTTERHEAD KNIVES

The carbide inserts get dull after sometimes and need to be adjusted or replaced occasionally.

To adjust or replace the carbide inserts, disconnect the machine from the power source and remove the cutter head guard to expose the cutter head with the carbide inserts.

Now, take a hex key and loosen the screws on the carbide inserts that hold each carbide insert to the cutter head body. See figure-21.

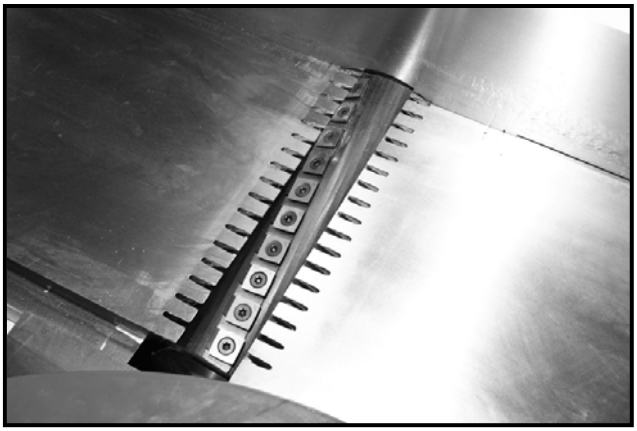


Figure-21 Removing the carbide inserts

Clean all the dust and debris on the cutter-head body and on the insert and replace it with a new one.

WARNING!

Remember if the dust and debris on the cutter-head body is not cleaned, it will make the insert out of height alignment and may result in poor cutting performance.

The carbide insert has a square shape and thus it has four cutting edges. When one edge of the carbide insert gets dull, simply rotate it 90 degrees and you will get a new and fresh cutting edge. When all four edges of the carbide insert are used replace it with a new one.

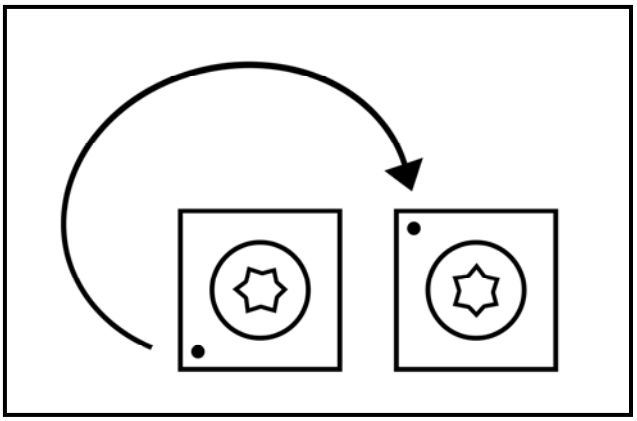


Figure-22 Rotating carbide insert 90°

REPLACING AND TENSIONING V-BELTS

The jointer comes with two V-belts installed and properly tensioned.

TO REPLACE THE V-BELTS:
Disconnect the cord from the power source.

Loosen the knob and pull the latch upwards. Open the rear cabinet door to access the V-belts.

Loosen the lock nuts shown in figure-23 to loosen tension on the V-belts.

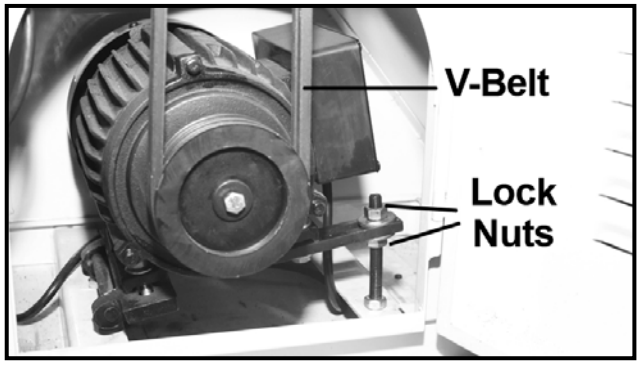


Figure-23 V-belt tensioning lock nuts

Remove the V-belts from the motor pulley and the cutterhead pulley.

Install the new V-belts and make sure both are setting properly into the grooves of the pulleys.

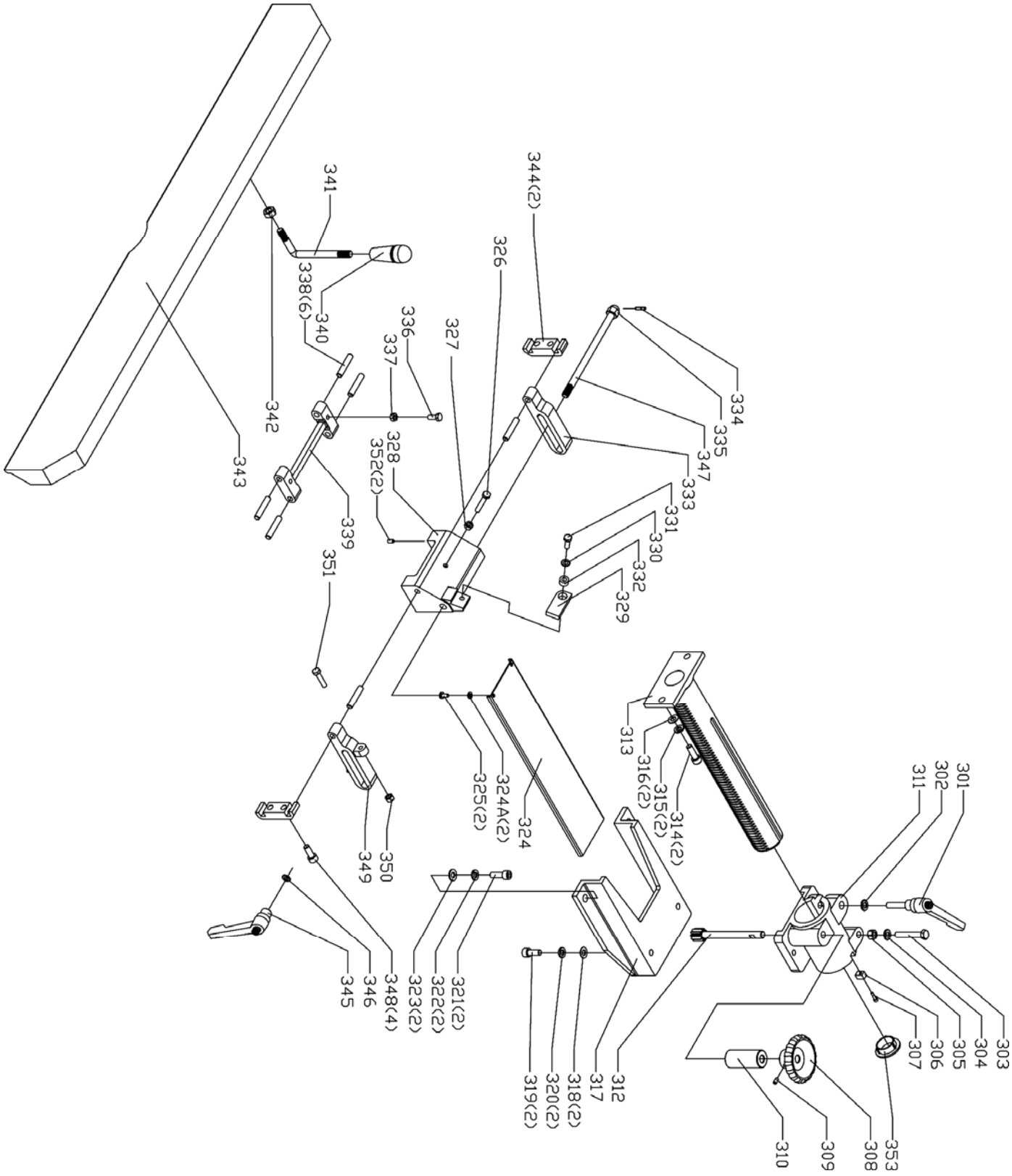
TO TENSION THE V-BELTS:

Push the motor down with one hand and tighten the upper lock nut shown in figure-24 first and then the lower one with the other hand.

There is approximately 1/2" deflection in the center span of the V-belts using light finger pressure.

Close the cabinet door.

FENCE
PARTS BREAKDOWN



FENCE
PARTS LIST

REF	DESCRIPTION	QTY
301	LOCK HANDLE	1
302	FLAT WASHER	1
303	HEX HD SCR	1
304	FLAT WASHER	1
305	HEX SOC SET SCR	1
306	GUID BLOCK	1
307	HEX SOC HD SCR	1
308	HAND WHEEL	1
309	HEX SOC SET SCR	1
310	ADAPTER	1
311	BRACKET	1
312	GEAR SHAFT	1
313	GEAR COLUMN	1
314	HEX SOC HD SCR	2
315	LOCK WASHER	2
316	FLAT WASHER	2
317	FENCE SUPPORT	1
318	FLAT WASHER	2
319	HEX SOC HD SCR	2
320	LOCK WASHER	2
321	HEX SOC HD SCR	2
322	LOCK WASHER	2
323	FLAT WASHER	2
324	GUARD	1
324A	LOCK WASHER	2
325	HEX SOC PAN SCR	2
326	HEX HD SCR	1
327	HEX NUT	1
328	FENCE BRACKET	1
329	BLOCK	1
330	FLAT WASHER	1
331	HEX HD SCR	1
332	SLEEVE	1
333	LEFT BRACKET	1
334	SPRING PIN	1
335	HEX NUT	1
336	HEX HD SCR	2
337	HEX NUT	2
338	PIN	6
339	SUPPORT	1
340	KNOB	1
341	HANDLE ROD	1
342	HEX NUT	1
343	FENCE	1
344	REAR CLAMP	2
345	HANDLE	1
346	FLAT WASHER	1
347	SHAFT	2
348	HEX SOX HD SCR	4
349	RIGHT BRACKET	1
350	HEX NUT	1
351	HEX HD SCR	1
352	HEX SOC HD SCR	2
353	COLUMN COVER	1

TABLE
PARTS BREAKDOWN

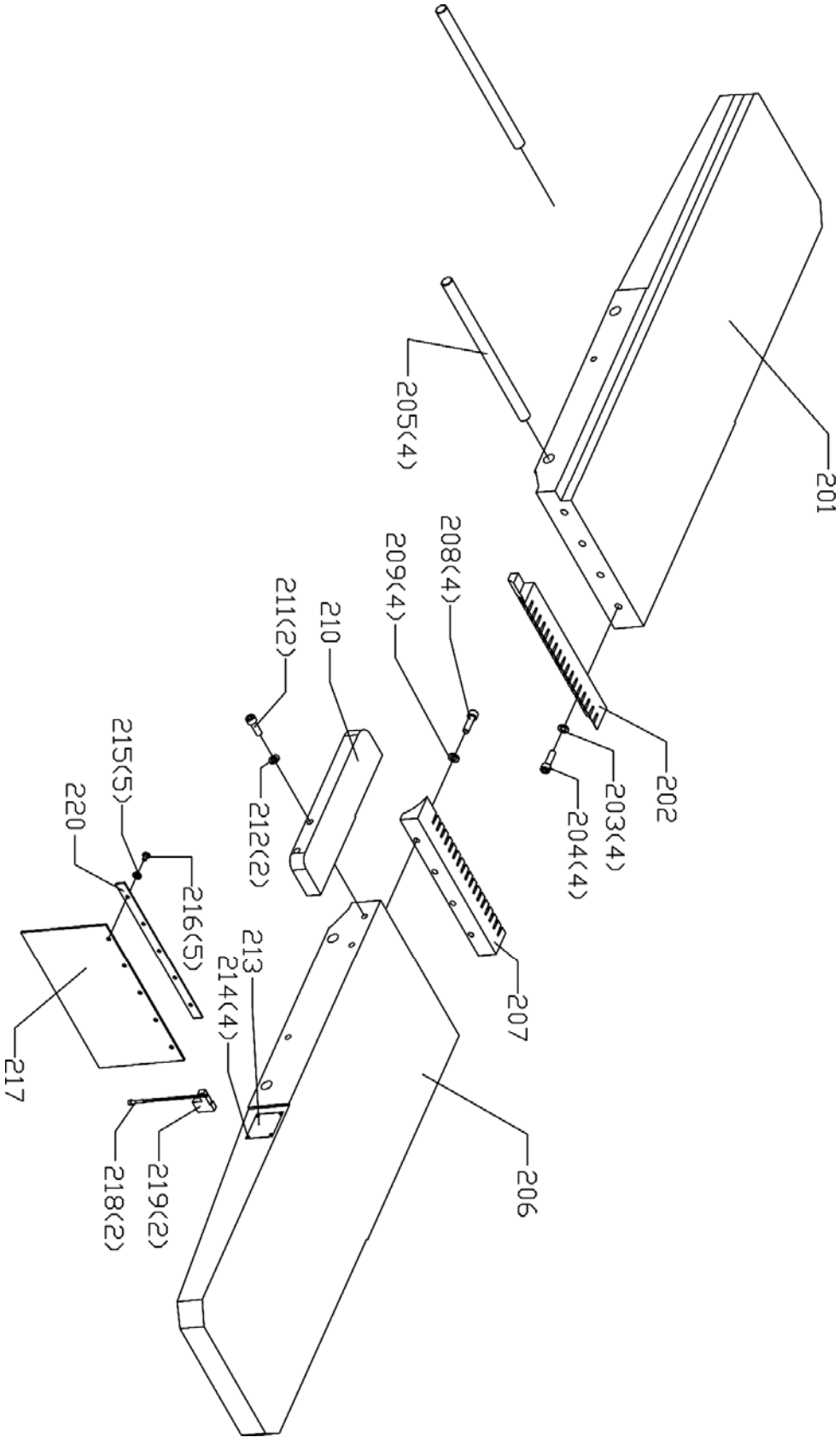
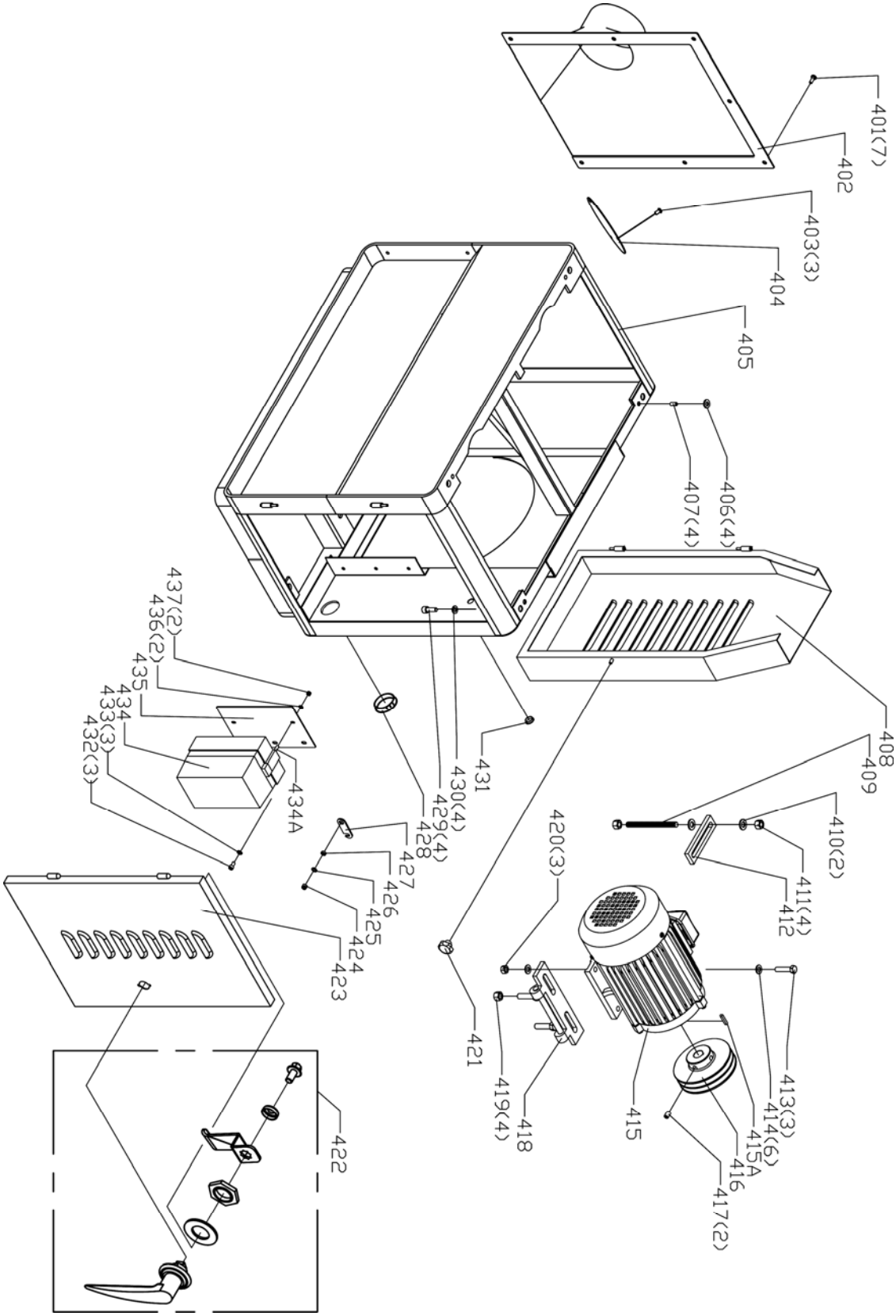


TABLE
PARTS LIST

REF	DESCRIPTION	QTY
201	OUTFEED TABLE	1
202	TABLE LIP	1
203	LOCK WASHER	4
204	HEX SOC HD SCR	4
205	SHAFT	4
206	INFEED TABLE	1
207	TABLE LIP	1
208	HEX SOC HD SCR	4
209	LOCK WASHER	4
210	RABBET LEDGE	1
211	HEX SOC HD SCR	2
212	LOCK WASHER	2
213	DEPTH LABEL	1
214	RIVET	4
215	FLAT WASHER	5
216	CHEESE HD SCR	5
217	DUST DEFLECTOR	1
218	HEX SOC HD SCR	2
219	BLOCK	2
220	PLATE	1

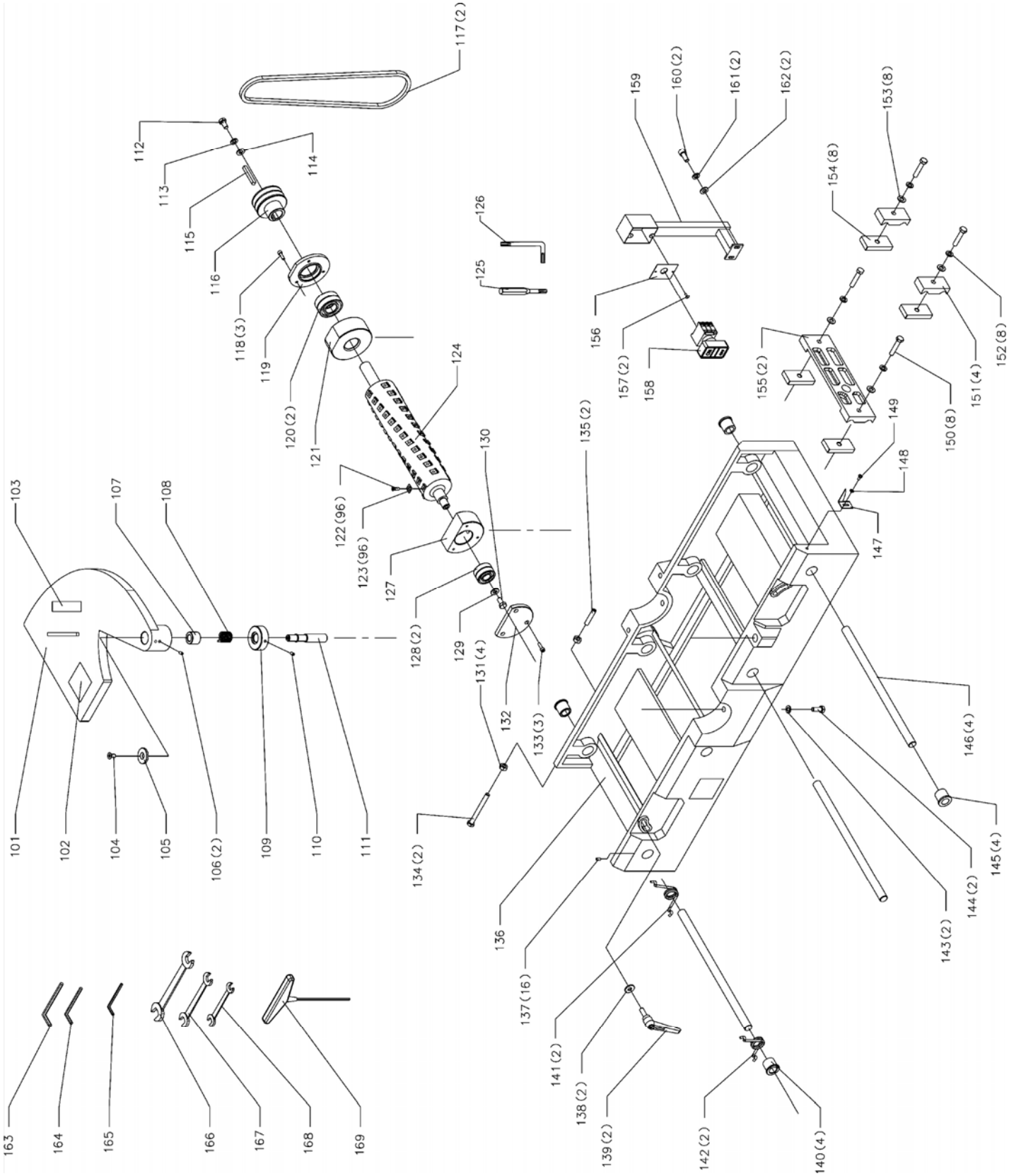
CABINET
PARTS BREAKDOWN



CABINET
PARTS LIST

REF	DESCRIPTION	QTY
401	HEX SOC PAN HD SCR	7
402	DUST HOOD	1
403	DUST CHUTE COVER	3
404	HEX SOC PAN HD SCR	1
405	CABINET	1
406	RUBBER WASHER	4
407	HEX SOC HD SCR	4
408	PULLEY COVER	1
409	ROD	1
410	FLAT WASHER	2
411	HEX NUT	4
412	PLATE	1
413	HEX HD SCR	3
414	FLAT WASHER	6
415	MOTOR	1
415A	KEY	1
416	MOTOR PULLEY	1
417	HEX SOC HD SET SCR	2
418	MOTOR BRACKET	1
419	HEX NUT	4
420	HEX NUT	3
421	CROSS PAN HD SCR	1
422	HANDLE ASSY	1
423	ACCESS DOOR	1
424	LOCK NUT	1
425	LATCH	1
426	FLAT WASHER	1
427	HEX NUT	1
428	SLEEVE	1
429	HEX SOC HD SCR	4
430	LOCK WASHER	4
431	SMALL STRAIN RELIEF	1
432	CROSS PAN HD SCR	3
433	FLAT WASHER	3
434	MAGNETIC SWITCH	1
434A	CROSS PAN HD SCR M5X20	2
435	SWITCH PLATE	1
436	EXT. TOOTHE WASHER	2
437	HEX NUT	2

BASE
PARTS BREAKDOWN



BASE
PARTS LIST

REF	DESCRIPTION	QTY
101	GUARD	1
102	WARNING LABEL	1
103	WARNING LABEL	1
104	FLAT HD SCR	1
105	SPECIAL WASHER	1
106	HEX SOC SET SCR	2
107	ADAPTOR	1
108	SPRING	1
109	SHAFT COLLAR	1
110	HEX SOC SET SCR	1
111	SHAFT	1
112	SCR.(LEFT THREAD)	1
113	LOCK WASHER	1
114	WASHER	1
115	KEY	1
116	PULLEY	1
117	V-BELT	2
118	HEX SOC HD SCR	3
119	RH BEARING COVER	1
120	BEARING	2
121	RH BEARING SUPPORT	1
122	COUNTERSUNK HEAD SCREW	96
123	INDEXABLE INSERT 15X15X2.5MM	96
124	HELICAL CUTTERHEAD	1
125	DRIVER BIT TORX T20	1
126	L-WRENCH TORX T20	1
127	LH BEARING SUPPORT	1
128	BEARING	2
129	FLAT WASHER	1
130	SCR.(LEFT THREAD)	1
131	HEX NUT	4
132	LH BEARING COVER	1
133	HEX SOCK HD SCR	3
134	HEX HD SCR	2
135	HEX SOC SET SCR	2
136	BASE	1
137	HEX SOC SET SCR	16
138	FLAT WASHER	2
139	LOCK HANDLE	2
140	ECCENTRIC BUSHING	4
141	SPRING	2
142	SPRING	2
143	LOCK WASHER	2
144	HEX HD SCR	2
145	SHAFT SLEEVE	4
146	SHAFT	4
147	POINTER	1
148	FLAT WASHER	1
149	CROSS PAN HD SCR	1
150	HEX HD SCR	8
151	SPECIAL COLLAR	4
152	LOCK WASHER	8
153	FLAT WASHER	8
154	CLAMP	8
155	CLAMP PLATE	4
156	SWITCH PLATE	1
157	TAPPING SCREW	2
158	SWITCH	1
159	SWITCH BRACKET	1
160	CAP SCREW	2
161	SPRING WASHER	2
162	WASHER	2
163	HEX.KEY(10MM)	1
164	HEX.KEY(8MM)	1

165	HEX.KEY(3MM)	1
166	OPEN END WRENCH(17-19MM)	1
167	OPEN END WRENCH(12-14MM)	1
168	OPEN END WRENCH(10-12MM)	1
169	LONG T-HEX.KEY(4MM)	1

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.

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.