



## CT125 – BABY DRUM SANDER 13”



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## **GENERAL SAFETY INSTRUCTIONS**

**EXTREME CAUTION SHOULD BE USED IN OPERATING ALL POWER TOOLS. KNOW YOUR POWER TOOL, BE FAMILIAR WITH ITS OPERATION. READ THE OWNER'S MANUAL AND PRACTICE SAFE USAGE PROCEDURES AT ALL TIMES.**

- ❑ **CONNECT** your machine **ONLY** to the matched and specified power source.
- ❑ **WEAR SAFETY GLASSES, RESPIRATORS, HEARING PROTECTION** and **SAFETY SHOES** when operating heavy machinery. **Always wear safety glasses.**
- ❑ **DO NOT** wear loose clothing or jewellery when operating machinery.
- ❑ **A Safe Environment is important.** Keep the area free of dust, dirt and other debris in the immediate vicinity of the machine.
- ❑ **BE ALERT!** Do Not Use prescription or other drugs that may affect your ability or judgement to safely use this machine.
- ❑ **DISCONNECT** the power source when sandpaper or making any adjustments
- ❑ **NEVER** leave an operating tool unattended.
- ❑ **NEVER** reach over the table when the tool is in operation.
- ❑ **ALWAYS** keep all safety guards in place and ensure their proper function.
- ❑ **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** secure your work with the appropriate clamps or vises.
- ❑ **ALWAYS** keep bystanders safely away while operating machinery.
- ❑ **THINK SAFETY. WORK SAFELY.** Never attempt a procedure if it does not feel safe or comfortable.

## 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.

- **DO NOT** jam or try and over push the work piece into the machine during operation. This may cause damage to the machine. Feed the work piece into the conveyor with a firm grasp, slowly and easily.
- Keep you hand clear of the conveyor and sand paper when feeding your work piece. Make sure your fingers do not get pinched between your work piece board and the conveyor. If you hand gets caught and pulled into the conveyor this could lead to serious injury and or death.
- **DO NOT** wear jewelry or loose clothing while operating this machine.
- **DO NOT** feed any stock into this machine that is less than 1/8" thick and more than 4" in thickness. Do not sand thinner pieces than allowed by using a "dummy" board underneath your work piece. This can be dangerous.
- **DO NOT** sand more than one piece of stock at anytime. This machine is designed to feed stock one piece at a time only. **DO NOT** let anyone stand in front of the machine while sanding.
- **INSPECT** your work pieces. Make sure that they are free of nails, staples, tacks, knots and other objects that may be harmful to your machine.
- **NEVER** use this machine without the proper dust collection in place.
- **TECHINCAL DIFFICULTIES**. Any problems you may run into should be carefully looked at with the power **OFF** and the machine unplugged from the power source.
- **SAFETY GLASSESS and RESPIRATOR** is highly recommended when working with this machine. Some saw dust can be harmful to your lungs, please take caution when using this machine.

# CT125 – BABY DRUM SANDER 13”

## SPECIFICATIONS

As part of the growing line of Craftex woodworking equipment, we are proud to offer the CT125 Baby Drum Sander. The Craftex name guarantees Craft Excellence. By following the instructions and procedures laid out in this owner’s manual, you will receive years of excellent service and satisfaction. The CT125 is a professional tool and like all power tools, proper care and safety procedures should be adhered to.

Main Motor - 1HP, 110V, 1PH

Conveyor Motor - DC 90W, 110V

Max. Sanding Width - 13"

Max. Material Thickness - 4"

Min. Material Thickness - 1/8"

Minimum Stock Length - 7"

Conveyor Belt Speeds - 0 -22 FPM

Sanding Drum Speed - 1720RPM (2258 FPM)

Sanding Belt Size – 3” roll

Sanding Drum Size – 5” Diameter

Min. Dust Collection Req. - 750 CFM.

Dust Collection Port - 2 1/2"

All sealed ball bearings

Thickness scale

Adjustable Rollers

Spring Loaded Quick Release Abrasive Mechanism

Solid steel welded construction

Geared chrome crank handle

Industrial conveyor belt.

Approx. Weight - 83 kg (185 Lbs.)

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## FEATURES

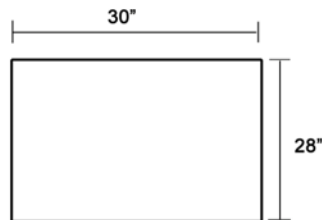


- A – CHROME CRANK HANDLE
- B – TOP COVER
- C – CONVEYOR BELT
- D – VARIABLE SPEED KNOB FOR CONVEYOR
- E – SIDE PANEL
- F – THICKNESS SCALE
- G – ON/OFF SWITCH

# CT125 – BABY DRUM SANDER 13”

## UNPACKING AND ASSEMBLY

Carefully unpack the CT125 from its crate and ensure that everything is in tact. When setting your machine in the desired location, make sure that you have enough machine clearance in order to use this machine to the full capacity. See the figure below for the minimum working clearance.

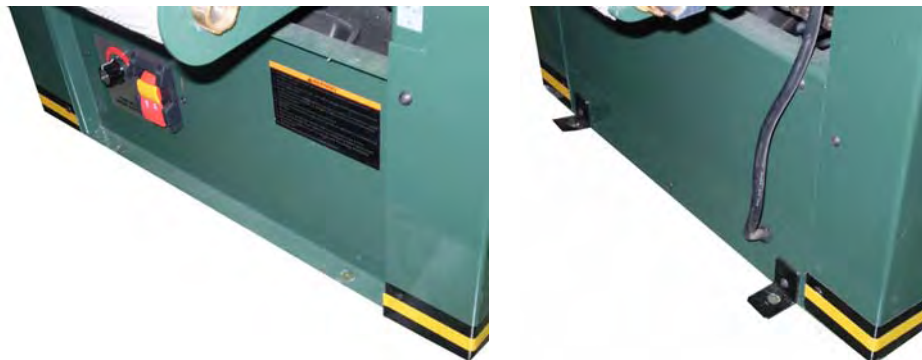


**NOTE – When moving this machine into its desired location please make sure that you do it with the help of another person. The machine is fairly heavy (185 lbs) and it is necessary to lift and or move this machine with the help of another person.**

## MOUNTING

When you have found the proper work bench or surface for your sander (make sure that the surface is flat, stable and can support up to 185lbs) you can mount your sander to the surface of your final resting place.

There are 2 mounting holes located on the front of the machine and 2 mounting plates at the back of the machine. Drill pilot holes into the bench using the mounting holes as guides. Using a wrench, bolt the base to the bench top with 3/8” lag bolts and flat washers.





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## CRANK HANDLE

Now the crank handle that came with the machine needs to be installed. The handle should be installed on the top left side of the unit. Make sure that the set screws and handle are firmly in place before moving on.

## DUST COLLECTION

It is highly recommended that you use a dust collector when using this machine. The minimum CFM requirement for this machine is 750CFM which means you should be using a 1HP or 2HP dust collector at minimum.

The machine comes with a 2 ½” dust port located at the back of the machine. (See picture below) You can use a dust collection adaptor which will take you up to 4” in order to use a normal sized dust collector. A fine layer of dust will be present on your stock as it comes out from the sander. This is normal. It is not recommended to use 2 ½” piping from the machine to your collector.





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## TEST RUN

Connect your machine to the correct power source. Once it is connected you are ready to perform the first test run. Take a careful look in and around your machine before turning it on to ensure everything is in place, all screws and knobs are securely fastened and that all controls are working properly.

Before turning the machine on, make sure you are wearing your safety glasses and that any one around you is also wearing safety glasses and not standing in the front or back of the machine.

Turn the power switch to **ON**.

The drum sander should run smoothly and create very little noise or vibration. If any loud or strange noises occur **turn the machine OFF right away** and inspect the problem. **DO NOT** make any adjustments while the machine is running.

## SANDING DEPTH

The optimum sanding depth will depend on what type of project you are working, what type of wood you are using and the sand paper grit. Under most conditions, the depth should not exceed 0.006”, or approx. ¼ turn of the crank wheel. If you attempt to remove too much wood while sanding this may cause the machine to jam, your wood to burn, rapid paper wear or tear and or motor damage.

When setting your depth, rotate the crank handle until the table is well below the sanding drum. Then raise the table to ensure a proper and safe gap between the work piece and the drum.

Turn the machine **ON**, start the conveyor and feed your work piece. Slowly raise the table until the work piece makes slight contact with the drum. This would be your ideal sanding height.

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## VARIABLE SPEED

The variable speed knob will allow you to increase the feed rate of your work piece from 0 – 22 FPM. The correct speed will vary from work piece to work piece and will depend of what type of wood you are using.

A general rule of thumb is that the slower the feed rate the smoother the sanding job you will get. However, this also runs the risk of burning your wood. After you are familiar with the machine and how it handles, this will not be an issue, however in the beginning the use of trial and error with scrap wood will be helpful to get a feel for the machine.

Start the Conveyor. Rotate the variable speed knob clockwise to increase the speed and counterclockwise to decrease the speed.



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## SANDPAPER REPLACEMENT

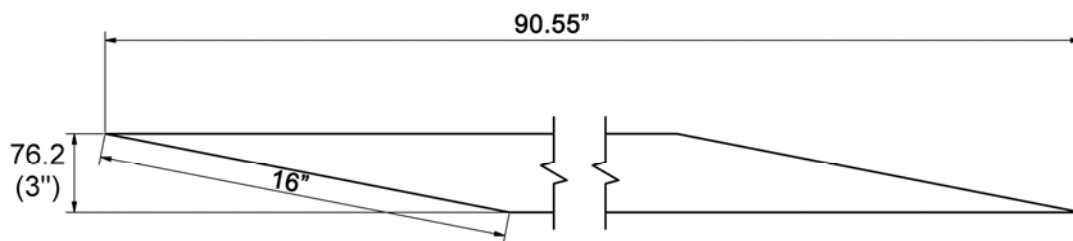
The CT125 is designed with 3” sandpaper rolls. The grit of paper you chose depends on what job you a doing.

An extra coarse, low grit paper is generally used for sanding of rough material, removing glue or thickness sanding.

A medium grit paper is used for removing planer marks and initial finish sanding.

A fine grit paper is used for finish sanding.

- 1) Before changing the sandpaper on your CT125, ensure that the power switch is **OFF** and disconnect the machine from the power source.
- 2) Open the top cover of the sander to expose the sanding drum.
- 3) Remove the old paper by unlocking the quick release spring tension paper mechanism and unwinding the paper. (See diagram below) Pay careful attention to the direction is comes off.
- 4) The old sandpaper can be used as a pattern to cut out the new sandpaper or use the pattern shown below to cut the new sandpaper being installed.



- 5) When wrapping the new sandpaper on the drum make sure that it wrapped tightly and with minimal gaps. This is important for proper sanding after installation.
- 6) Use the spring loaded quick release mechanism to secure the sandpaper to the drum.



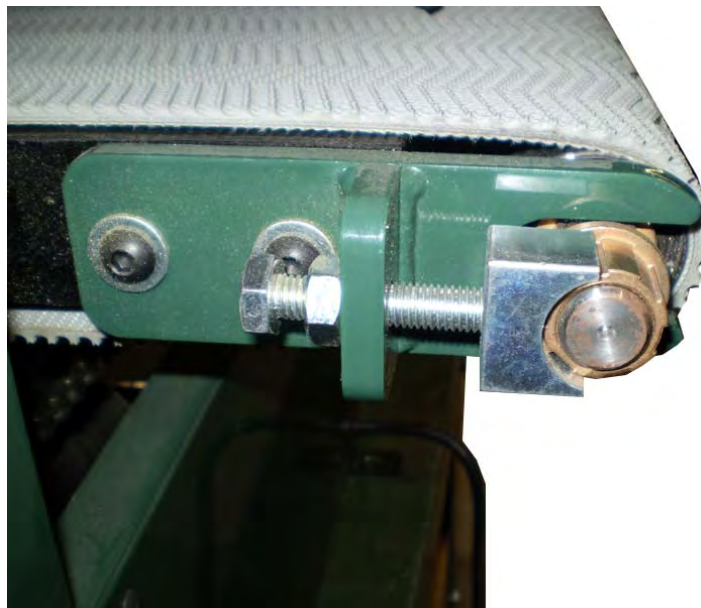
Spring Loaded Quick Release  
Paper Mechanism

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## TENSION AND TRACKING

After reasonable usage of the drum sander, the conveyor may slightly stretch and will require to be tensioned. When tensioning the conveyor belt, it is important to do so from both sides and not to tension one side more than the other as this may lead to more tracking problems.

On the side of the conveyor you will find tensioning controls. (see below) Turn the conveyor adjustment knobs one full turn at a time until the conveyor belt no longer slips or is off during operation. If you notice that the conveyor is tracking to one side, turn the machine **OFF**, and follow the next few steps for proper tracking.



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## TRACKING

The conveyor must track straight for proper sanding. If the conveyor tracks to either side and not straight, you must fix the tracking. When tracking your conveyor, remember that this process can take some time and that proper balance and patience is required. To make the conveyor move in the middle of the rollers, it is recommended that you first over tighten the loose side (the side the belt is tracking towards) and then loosen that same side in order to make the conveyor stay in position. You can try this for both sides but must ensure that the conveyor tracks in the middle by trail and error.

- 1) Turn the conveyor belt **ON**. Watch the conveyor track and notice which way it is tracking.
- 2) Once you have determined which way it is tracking, turn the machine **OFF**, tension the tracking bolt on the loose side (the direction the belt is tracking to). Turn the machine **ON** to see if it is tracking the opposite way. (This may take some time to notice a difference but be patient)
- 3) When the conveyor is near the middle of the table, loosen the adjustment knobs until the conveyor itself stops moving sideways and tracks straight.
- 4) Repeat steps 2 & 3 if you do not get results right away. This process may take several minutes.



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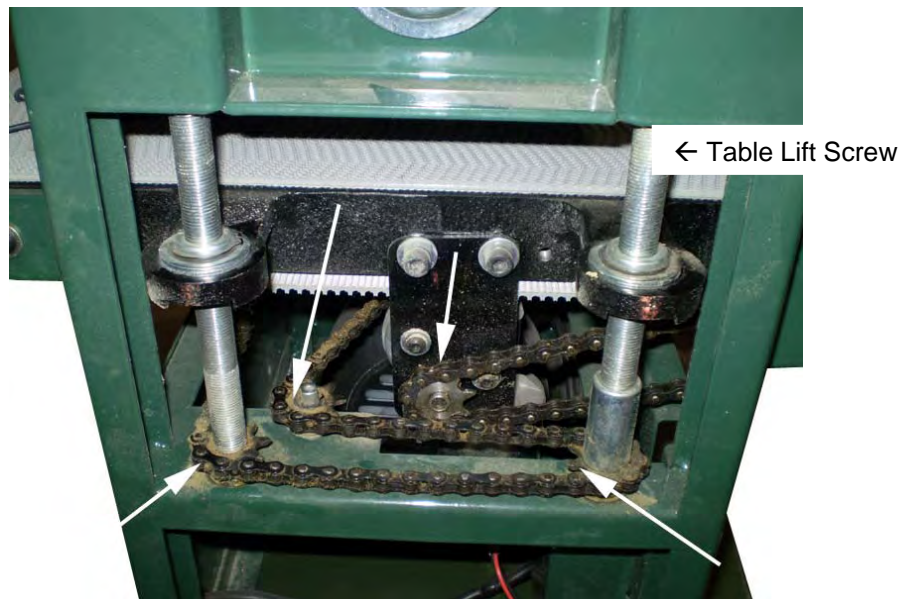
## MAINTENANCE

Cleaning and maintaining this machine is relatively easy. It is imperative to vacuum or use an air blower to clean off wood dust from internal components from time to time to keep the machine clean. To clean your sandpaper from time to time to preserve the life, you can use a rubber abrasive cleaner and run it on the drum as it spins.

## LUBRICATION

Lubrication of the chain mechanism is important and should be done periodically for proper maintenance.

Use a light machine oil. Do not use too much lubrication only a fair amount as too much will attract dirt and could cause the chain to malfunction as it may clog. Refer to the diagram below and take note of the arrows designated for lubrication.



Every six months, the table lift screws will also need lubrication. (Shown in diagram above) It is best to clean the screws first before lubricating. Wipe off with a cleaning towel and then run on the lubrication in an even manner



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## THICKNESS SCALE CALIBRATION

After some time you may notice that the thickness scale can be a little off. In order to sand accurately you must make sure that the thickness scale is calibrated properly and this is an easy process to do every once in a while.

- 1) Sand a scrap work piece with the sander and measure the thickness of the finished piece.
- 2) Loosen the screw that secures the thickness scale pointer and adjust this to the measured work piece





# TROUBLE SHOOTING

SYMPTOM	POSSIBLE CAUSE	POSSIBLE SOLUTION
Machine is vibrating too much or is too noisy	<ol style="list-style-type: none"> <li>1. V Belts are worn or loose</li> <li>2. Motor or other integral component is loose</li> <li>3. Pulley is loose</li> <li>4. Motor bearings are worn</li> </ol>	<ol style="list-style-type: none"> <li>1. Inspect the belts and replace with same size or re-tension</li> <li>2. Inspect the nuts and bolts that secure the motor and replace if necessary. Also replace worn or stripped bolts.</li> <li>3. Remove pulley, replace shaft, pulley &amp; setscrew and re-align.</li> <li>4. Check and replace if necessary</li> </ol>
Motor Overheats or is too hot	<ol style="list-style-type: none"> <li>1. Poor circulation of air through motor</li> <li>2. Motor overload</li> <li>3. Motor is on too long</li> </ol>	<ol style="list-style-type: none"> <li>1. Clean motor to provide normal air circulation</li> <li>2. Reduce load on motor</li> <li>3. Allow motor to cool off.</li> </ol>

## TROUBLE SHOOTING

SYMPTOM	POSSIBLE CAUSE	POSSIBLE SOLUTION
Machine doesn't turn on or trips breaker when turned on	<ol style="list-style-type: none"> <li>1. Capacitor is faulty</li> <li>2. Centrifugal switch is faulty</li> <li>3. Motor ON/OFF switch is faulty</li> <li>4. Motor is faulty</li> <li>5. Motor connection wired incorrectly</li> </ol>	<ol style="list-style-type: none"> <li>1. Test and replace capacitor if needed</li> <li>2. Adjust or replace centrifugal switch</li> <li>3. Replace ON/OFF switch if faulty</li> <li>4. Test, replace or repair motor</li> <li>5. Make sure motor is wired correctly</li> </ol>
Conveyor Slips when sanding under load	<ol style="list-style-type: none"> <li>1. Conveyor is too loose</li> <li>2. Excessive Load</li> </ol>	<ol style="list-style-type: none"> <li>1. Tension the conveyor properly</li> <li>2. Reduce the load</li> </ol>
Conveyor tracks to one side only	<ol style="list-style-type: none"> <li>1. Conveyor not tracking properly</li> </ol>	<ol style="list-style-type: none"> <li>1. Track the conveyor properly (see page 13)</li> </ol>
Machine stalls or seems under powered	<ol style="list-style-type: none"> <li>1. Low power supply voltage</li> <li>2. Belt is slipping</li> <li>3. Poor Dust Collection</li> <li>4. Machine overload</li> <li>5. Overheated Motor</li> </ol>	<ol style="list-style-type: none"> <li>1. Ensure that all lines and grounds are operations and have correct voltage</li> <li>2. Replace belt and re-check</li> <li>3. Check for air leaks seal leaks, eliminate bends in piping and ensure machine is getting proper suction from port</li> <li>4. Use new sandpaper and ensure you are following max. guidelines</li> <li>5. Allow motor to cool</li> </ol>

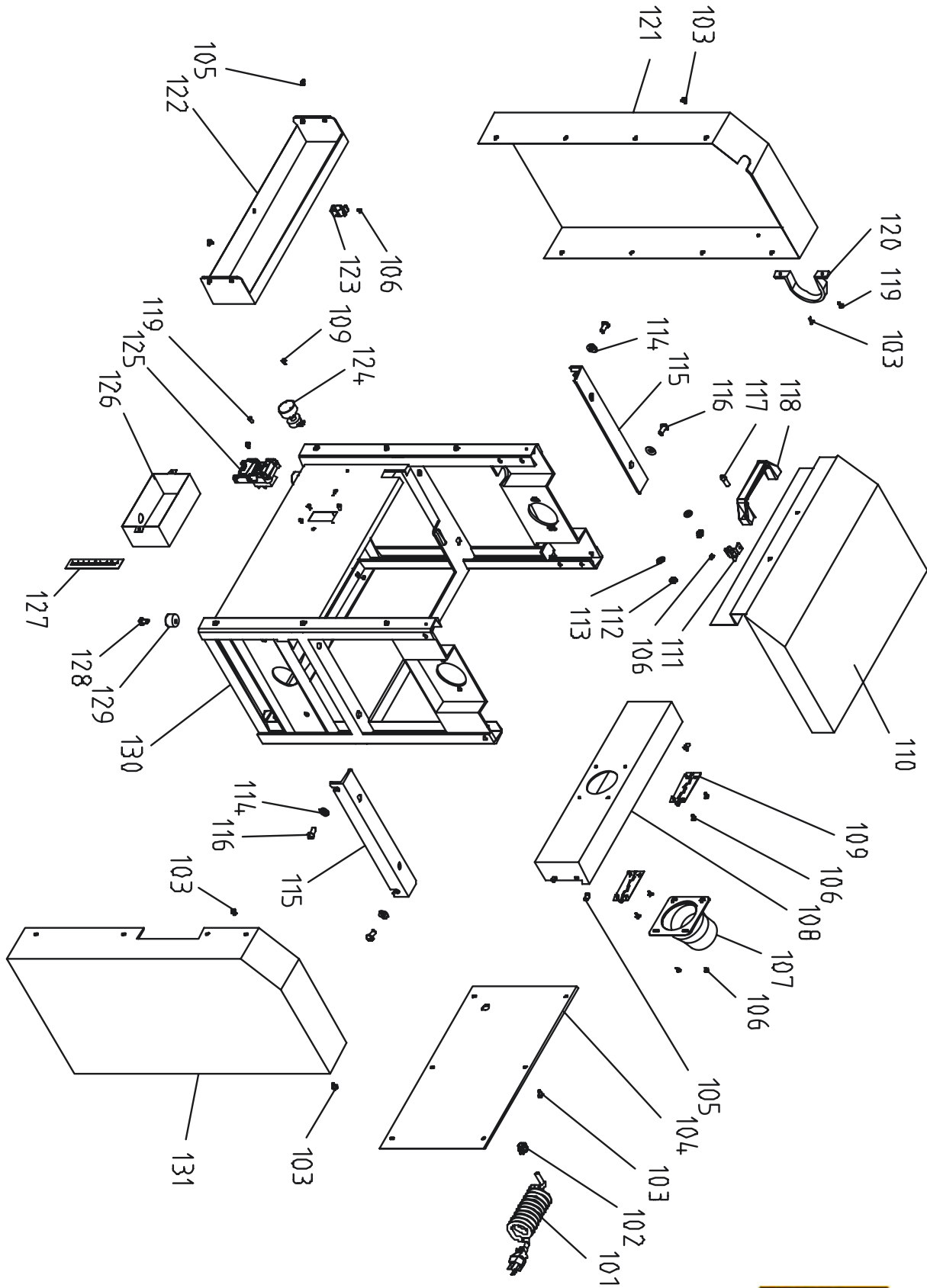
# TROUBLE SHOOTING

SYMPTOM	PROSSIBLE CAUSE	POSSIBLE SOLUTION
Sandpaper tears off drum or wears excessively	<ol style="list-style-type: none"> <li>1. Sand paper is not securely fastened to drum</li> <li>2. Nail or metal piece in wood being sanded</li> <li>3. Too much use without cleaning of paper</li> </ol>	<ol style="list-style-type: none"> <li>1. Re-check to ensure paper is fastened to drum using spring loaded release</li> <li>2. Sand only clean pieces, or severe damage can be caused to machine</li> </ol>
Poor Dust Collection	<ol style="list-style-type: none"> <li>1. Dust collection line outs are undersized or not properly sized for this machine</li> <li>2. Dust collector too small for this machine</li> <li>3. Dust collector is too far away</li> </ol>	<ol style="list-style-type: none"> <li>1. Branch from 2 ½" (at source) out to a minimum of 4" to your collector. 6" or 8" is OK as well. Do not stay at a 2 ½" pipe size</li> <li>2. Dust collector should be at least 750CFM capacity. If not, upgrade to a larger collector</li> <li>3. Bring your collector closer as the farther away it is, the less air pressure there is. Should be at 10 feet max distance</li> </ol>

## CT125 – PARTS LIST

REF	DESCRIPTION
101	POWER CORD
102	CORD HOLDER
103	M5X10 SOCKET PAN HEAD SCREW
104	REAR PANEL
105	M6X10 SOCKET PAN HEAD SCREW
106	M4X5 SOCKET PAN HEAD SCREW
107	DUST PORT
108	BASE OF DUST PORT
109	HINGE
110	TOP COVER
111	LATCH
112	NUT 1/4"
113	WASHER 1/4"
114	WASHER 5/16"
115	BRACE
116	M8X12 SOCKET PAN HEAD SCREW
117	PAN SCREW 1/4"X5/8"
118	HANDLE
119	M4X10 SOCKET PAN HEAD SCREW
120	BRACE
121	LEFT COVER
122	FRONT PANEL
123	LATCH SEAT
124	VARIABLE SPEED CONTROL
125	SWITCH
126	BOX OF SWITCH
127	DEPTH SCALE
128	SCREW 5/16"X3/4"
129	FOOT
130	BODY
131	RIGHT COVER

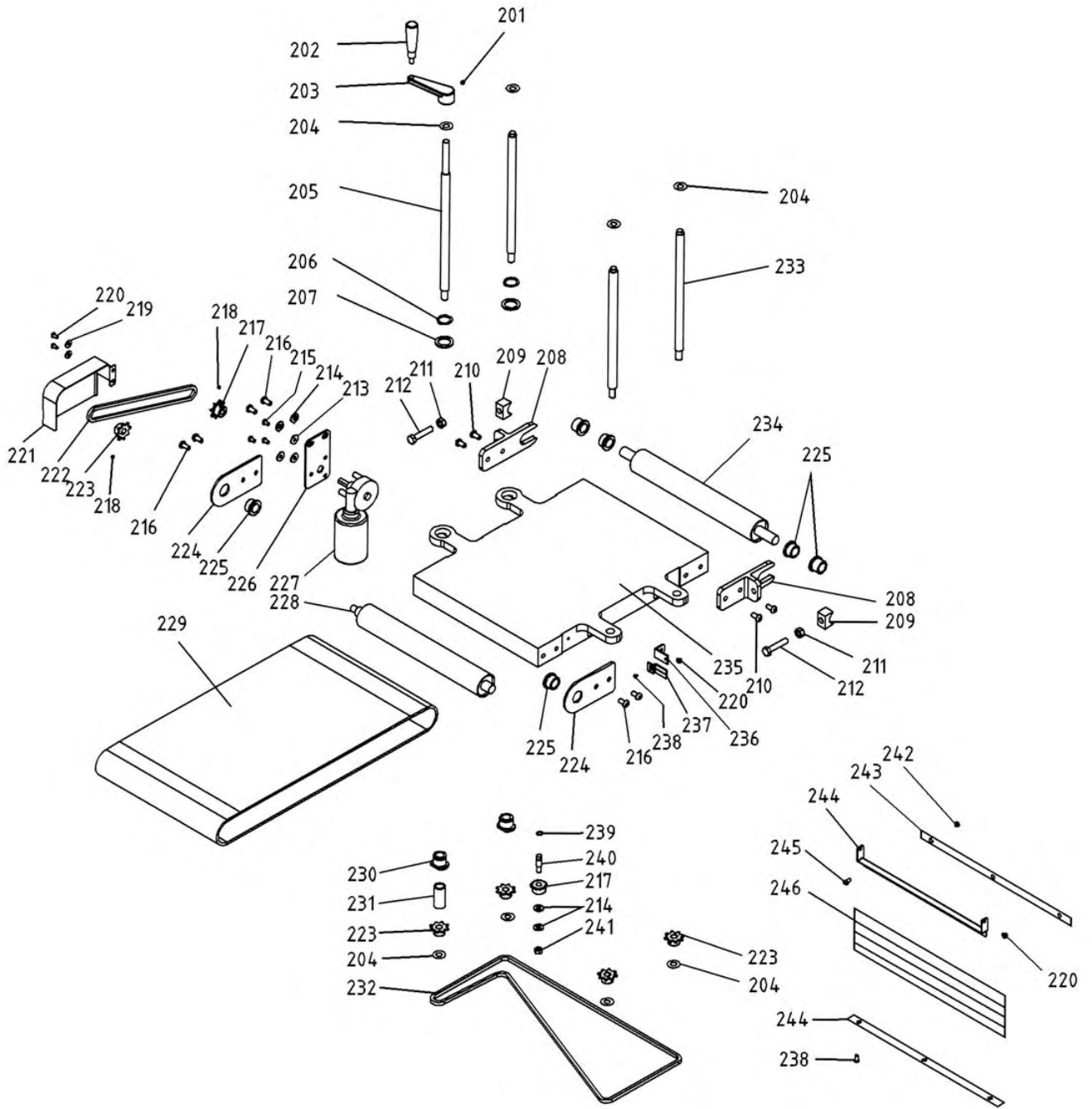
# CT125 – PARTS DIAGRAM



## CT125 – PARTS LIST

REF	DESCRIPTION	REF	DESCRIPTION
201	SET 1/4"X1/4"	231	SHAFT
202	HANDLE	232	CHAIN
203	HANDLE BASE	233	TABLE LIFT SCREW(S)
204	WASHER 12X22-0.5	234	IDLER ROLLER
205	TABLE LIFT SCREW(L)	235	TABLE
206	C-25 RING	236	POINTER BASE <sub>f</sub>
207	WASHER 25X35X3	237	POINTER
208	ROLLER BRACKET(R )	238	PAN SCREW 3/16"X3/8"
209	BUSHING SUPPORT	239	C-10 RING
210	M8X20 SOCKET PAN HEAD SCREW	240	SPROCKET SHAFT
211	NUT M10	241	NUT 5/16"
212	SCREW M10X50	242	NUT 3/16"
213	WASHER 1/4"		
214	WASHER 5/16"		
215	M6X10 SOCKET PAN HEAD SCREW		
216	M8X12 SOCKET PAN HEAD SCREW		
217	SPROCKET M10		
218	SET M5X5		
219	WASHER M5		
220	M5X10 SOCKET PAN HEAD SCREW		
221	COVER		
222	CONVEYOR MOTOR CHAIN		
223	SPROCKET M12		
224	ROLLER BRACKET(F)		
225	BUSHING 18.9X31X25.4X20		
226	MOTOR PLATE		
227	DC MOTOR		
228	DRIVE ROLLER		
229	CONVEYOR BELT		
230	NUT		

# CT125 – PARTS DIAGRAM

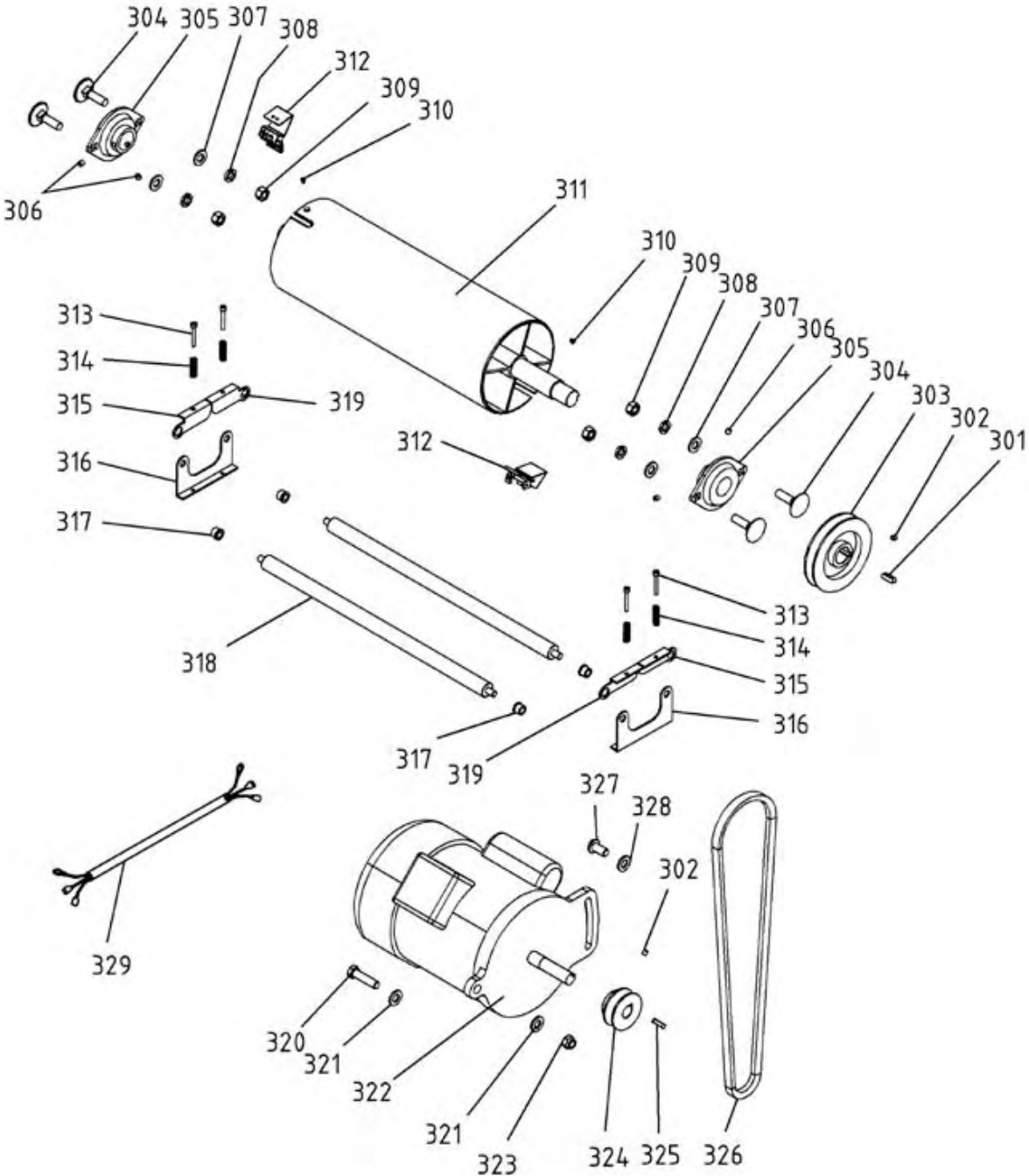




## CT125 – PARTS LIST

REF	DESCRIPTION
301	KEY 6X6X25
302	SET 1/4"X1/4"
303	DRUM PULLEY
304	5/16"X1" CARRIAGE BOLT
305	DRUM BEARING ASSY
306	SET SCREW M6-6
307	WASHER 5/16"
308	SPRING WASHER 5/16"
309	NUT 5/16"
310	M3X6 FLAT HEAD SCREW
311	DRUM
312	SANDING DRUM
313	M4X35 CAP SCREW
314	SPRING
315	RIGHT ROLLER BRACKET
316	ROLLER SUPPORT BRACKET
317	BUSHING 8*10
318	PRESSURE ROLLER
319	LEFT ROLLER BRACKET
320	3/8"X1 1/4" HEX BLOT
321	WASHER 3/8"-20
322	MOTOR
323	NUT 3/8"
324	MOTOR PULLEY
325	KEY 5X5X25
326	V-BELT A-39
327	M10-25 CAP SCREW
328	WASHER 3/8"-25
329	MOTOR CORD

# CT125 – PARTS DIAGRAM





## WARRANTY

### CRAFTEX 2 YEAR LIMITED WARRANTY

Craftex warrants every product to be free from defects in materials and agrees to correct such defects where applicable. This warranty covers **two 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.







