OWNER'S MANUAL

CT094 – HORIZONTAL/VERTICAL SANDER

INDEX

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 changing drill bits, hollow chisels or making other adjustments or repairs.
- **NEVER** leave an operating tool unattended.
- **NEVER** reach over the table when the tool is in operation.
- **ALWAYS** keep blades, knives or bits sharp and properly aligned.
- **ALWAYS** keep all safety guards in place and ensure their proper function.
- **ALWAYS** use push sticks and featherboards 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.

CT094 – HORIZONTAL/VERTICAL SANDER
FEATURES

As part of the growing line of **Craftex** woodworking equipment, we are proud to offer the CT094 Horizontal/Vertical 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 CT094 is a professional tool and like all power tools, proper care and safety procedures should be adhered to.

Features

Motor: 1/2 HP - 4 AMP, 110V, 3450 RPM with keyed switch

Table Size -Two 12" x 8" cast aluminum tables, one with a 3/4" mitre gauge slot

Bed Size - 12 1/2" x 43/4"

Belt Size - 4" x 36" Quick Release

Belt Speed - 2,200 F.P.M Approx.

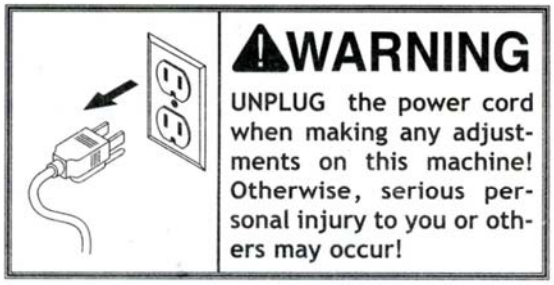
Pulley Size for Contour - 21/2"

Overall Height: 20" x 15" x 17"High

Gross Weight - 30 kg

Carton Size - 24" x 18" x 17"

CT094 – HORIZONTAL/VERTICAL SANDER ADJUSTMENTS



⚠WARNING

UNPLUG the power cord when making any adjustments on this machine! Otherwise, serious personal injury to you or others may occur!

Belt Tracking

The belt tracking must be adjusted correctly to make the belt ride parallel with the table.

To adjust the belt tracking, do these steps:

1. **UNPLUG THE SANDER!**
2. Make sure all guards are in place and the belt locking lever is in the locked position as shown in **Figure 6**.
3. Loosen the knurled adjustment nut away from the roller pin, shown in **Figure 7**.
4. Check the current belt position and note if it needs to go up or down. **Figure 8** shows a properly tracked belt with 1/16" of roller exposed on the top and bottom.
5. Adjust the tension bolt clockwise to make the belt ride up, and adjust counter-clockwise to make the belt ride down.
6. Plug in the sander.
7. Start the sander and observe the corrected belt tracking.
8. Stop the sander and repeat **steps 1-7** until the desired tracking has been met.
9. Finger tighten the adjustment nut against the roller pin when the belt is riding correctly around the rollers.

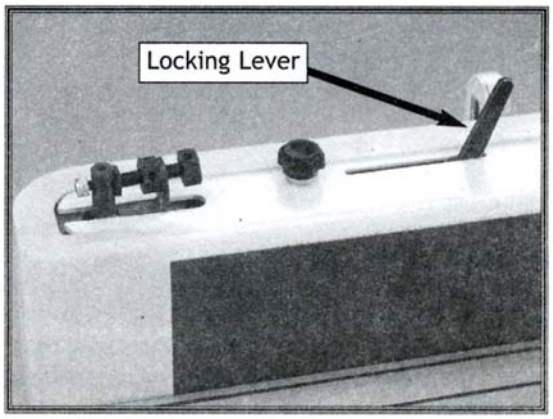


Figure 6. Belt locking lever.

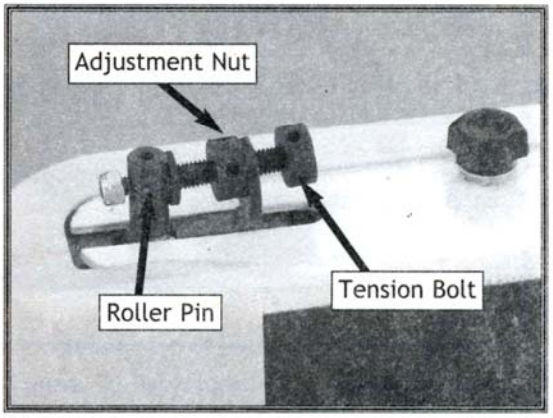


Figure 7. Tracking adjustment system.

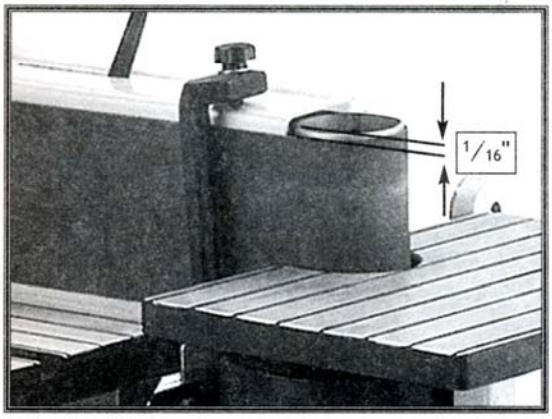


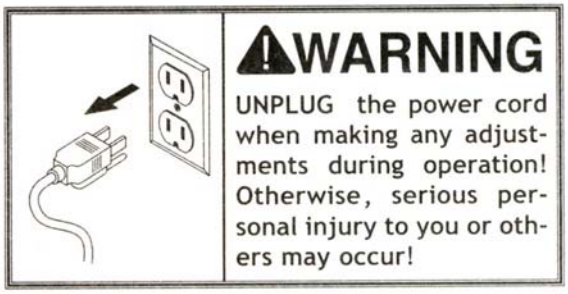
Figure 8. Proper belt tracking.

Scale Pointer

The scale pointer on the sander indicates the tilt angle of the sanding belt relative to the edge sanding table. It has been set at the factory but throughout the life of your machine, you may need to make adjustments.

To adjust the scale pointer, do these steps:

1. **UNPLUG THE SANDER!**
2. Loosen the belt tilting lock knob shown in **Figure 9** and rotate the sanding belt so it is perpendicular with the edge sanding table.
3. Place a machinist square on the edge sanding table and against the sanding belt to check for squareness.
4. Lock the belt tilting knob when the belt is perpendicular to the table.
5. Adjust the scale pointer so it indicates 90° **(Figure 10)**.



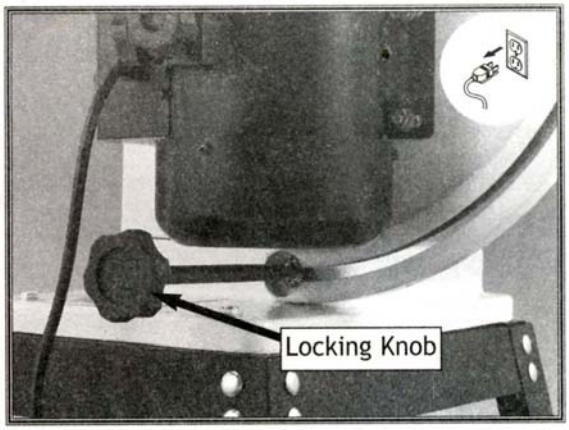


Figure 9. Belt tilt locking knob.

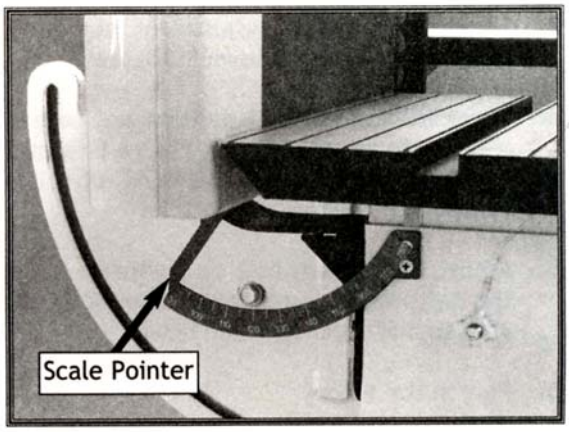


Figure 10. Scale pointer at 90°.

Roller Adjustment

The motor mounting plate can be adjusted to correctly position the main roller in relation to the platen.

To adjust the main roller position, do these steps:

1. **UNPLUG THE SANDER!**
2. Loosen the four motor mounting bolts (**Figure 11**).
3. Remove the sanding belt.
4. Place a straightedge against the platen and check the roller clearance along the top and bottom. The roller should be 1/8" behind the platen. **Figure 12** shows a top view of the proper clearance.
5. Tighten the motor mounting bolts when the proper clearance has been achieved.

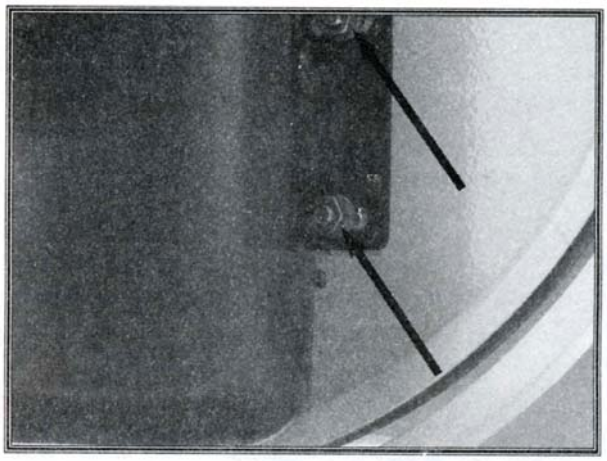


Figure 11. Motor mounting bolts (only 2 shown).

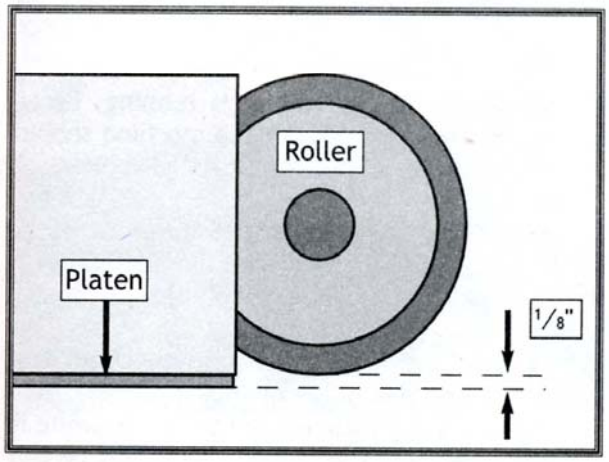


Figure 12. Proper platen to roller alignment.

CT094 – HORIZONTAL/VERTICAL SANDER OPERATIONS

Test Run

The purpose of a test run is to identify any unusual noises and vibrations, as well as to confirm that the machine is performing as intended.

To test run the sander, do these steps:

1. Make sure all guards are in place and the belt is tracked and tensioned properly.

2. Make sure that the ON/OFF switch is in the "OFF" position before connecting the machine to power.

3. Pull the power switch up to start the sander. Once the sander is running, listen for any unusual noises. The machine should run smoothly with little or no vibrations.

   - If there are any unusual noises or vibrations, STOP the sander immediately by pushing the paddle switch down.

4. Unplug the sander and investigate the source of the noise or vibration. DO NOT make any adjustments to the sander while it is plugged in. The sander should not be run any further until the problems are corrected.

⚠WARNING
THIS MACHINE creates sawdust. Always wear safety glasses or a face shield during all sanding operations.

⚠WARNING
KEEP loose clothing rolled up and out of the way of machinery and keep hair pulled back.

⚠CAUTION
This machine produces sawdust that may cause allergic reactions or respiratory problems. Wear a respirator in addition to using a dust collector.

Belt Selection

The sander accepts 4" x 36" sanding belts. There are a large variety of sanding belts to choose from. We recommend Aluminum Oxide belts for standard sanding purposes. **Table 2** shows abrasive types and grit numbers.

As a general rule of thumb, progressively increase the grit number you use without jumping 50 grit sizes at one time. It would take a lot of sanding with a 220 grit paper to remove the sanding scratches left from an 80 grit paper.

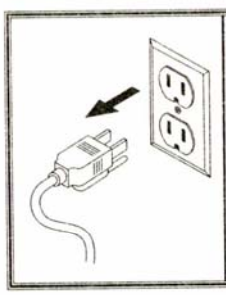
Table 2.

Type	Grit
Coarse	60
Medium	80-100
Fine	120-180
Very Fine	220

Edge and End Sanding

Edge and end sanding operations should be performed on the edge sanding table. These operations are designed to sand flat edges, smooth sharp corners and remove stock.

To start an edge or end sanding operations, do these steps:



⚠WARNING

UNPLUG the power cord when making any adjustments during operation! Otherwise, serious personal injury to you or others may occur!

1. UNPLUG THE SANDER!
2. Loosen the adjustment knobs in **Figure 13** to adjust the edge sanding table height to the desired position.
3. Lock the height adjustment knobs to secure the table.
4. Plug the sander into the power supply.
5. Start the sander.
6. Hold the workpiece firmly against the flat edge as shown in **Figure 14**. Note— *The work stop bar prevents the workpiece from running off the table.*
7. For end sanding, firmly hold the workpiece against the table as shown in **Figure 15**.

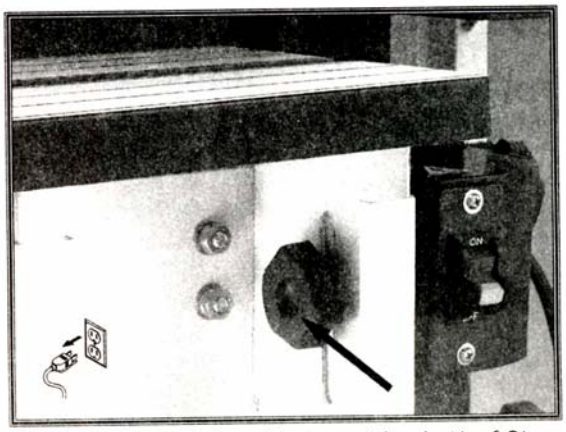


Figure 13. Height adjustment knob (1 of 2).

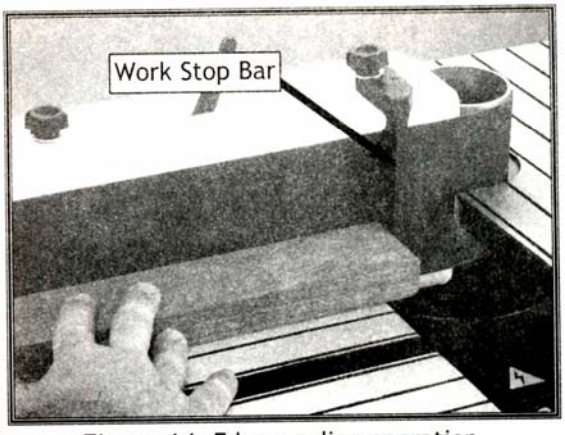


Figure 14. Edge sanding operation.

Figure 15. End sanding operation.

Contour Sanding

Curves and profile sanding operations can be sanded on the contour table.

To start a contour sanding operations, do these steps:

1. **UNPLUG THE SANDER!**
2. Loosen the lock knobs in **Figure 16** to adjust the contour table height to the desired position. Note— *Keep enough of the table post in the bracket so the adjustment knobs can make contact.*
3. Tighten the lock knobs to secure the table.
4. Plug the sander into the power supply.
5. Start the sander.
6. Hold the workpiece firmly with both hands and feed it into the curved end as shown in **Figure 17**. Move the workpiece around the end until the desired profile is achieved.

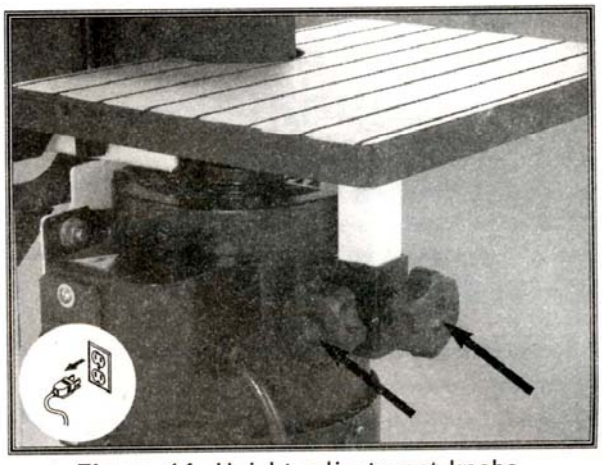


Figure 16. Height adjustment knobs.

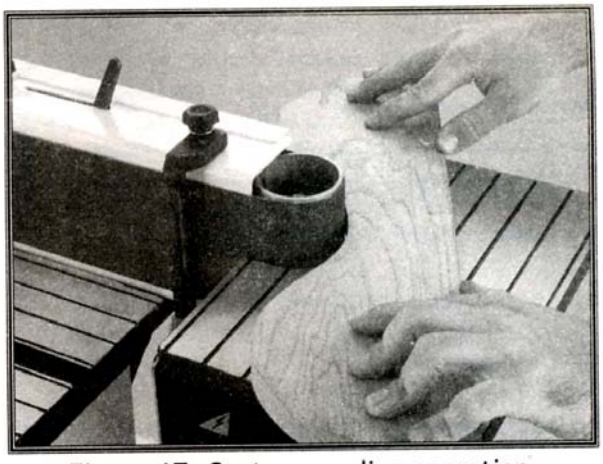


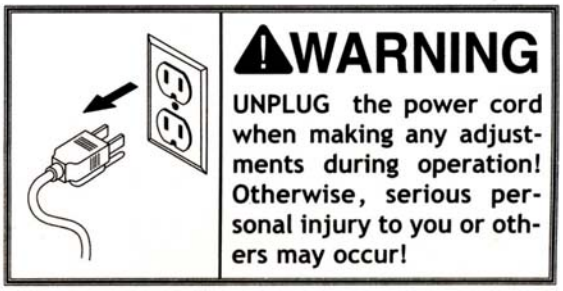
Figure 17. Contour sanding operation.

Changing Sanding Belt

The sanding belt will need to be changed if the belt ever becomes worn or damaged.

To change the sanding belt, do these steps:

1. **UNPLUG THE SANDER!**
2. Remove the work stop bar and cover lock knobs from the belt guard (**Figure 21** on table).
3. Slide belt guard off the sander as shown in **Figure 21**.
4. Release the belt tension by moving the belt tension lever to the "unlock" position.
5. Remove sanding belt as shown in **Figure 22**.
6. Install a new belt with the arrows in the proper direction (**Figure 22** white arrow), tension it, and replace the belt guard.



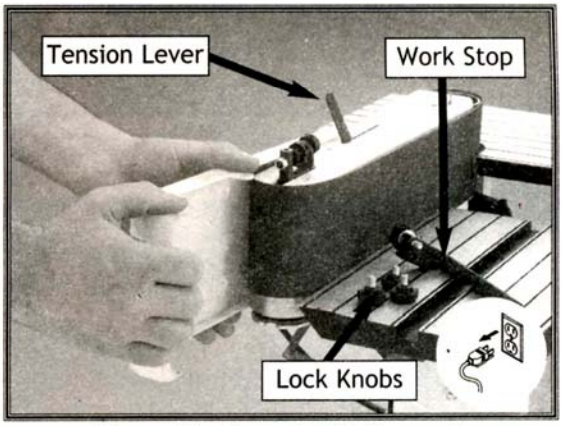


Figure 21. Removing belt guard.

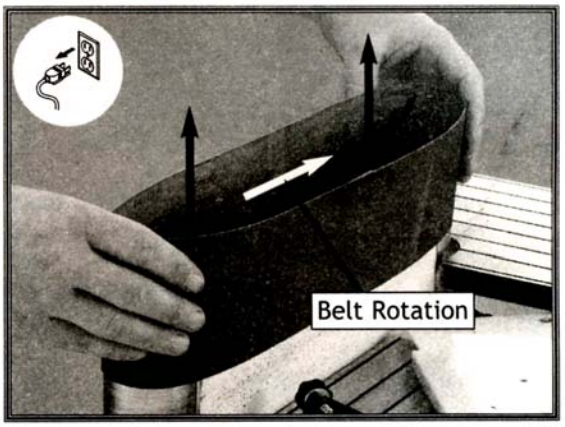


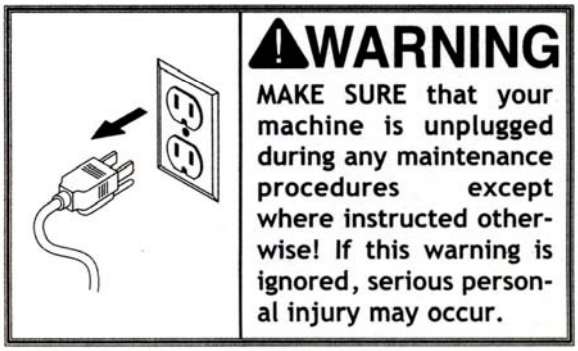
Figure 22. Removing sanding belt.

CT094 – HORIZONTAL/VERTICAL SANDER MAINTENANCE

General

To ensure optimum performance from your sander, make a habit of inspecting it before each use. **Check for the following conditions and repair or replace when necessary:**

- Loose mounting bolts.
- Worn switch.
- Worn or damaged cords and plugs.
- Any other condition that could hamper the safe operation of this machine.



Lubrication

Since all bearings are shielded and permanently lubricated, simply leave them alone until they need to be replaced. DO NOT lubricate them.

Lubricate the unpainted work tables regularly (**Figure 23**) to prevent rust and ensure a smooth sliding action from the tool post holder and the tailstock. Your goal is to achieve adequate lubrication. However, too much lubrication will attract dirt and sawdust, which may cause these components to lose their freedom of movement.

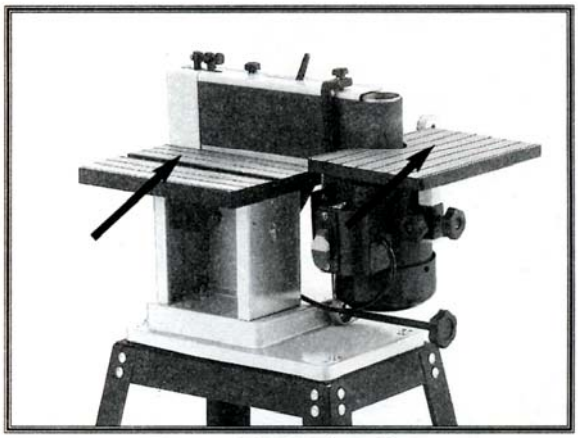


Figure 23. Work tables.

Sanding Belt

Regularly clean your sanding belt as sawdust builds up in the grit. Clean the sanding belt with Craftex abrasive belt cleaners as shown in **Figure 24**. Cleaning out built up sawdust will prolong the life of your sanding belt.

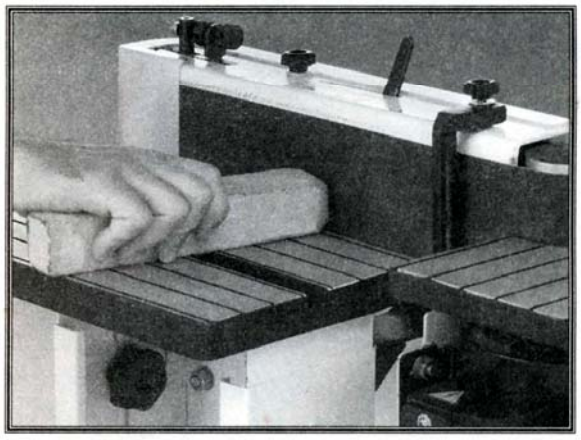
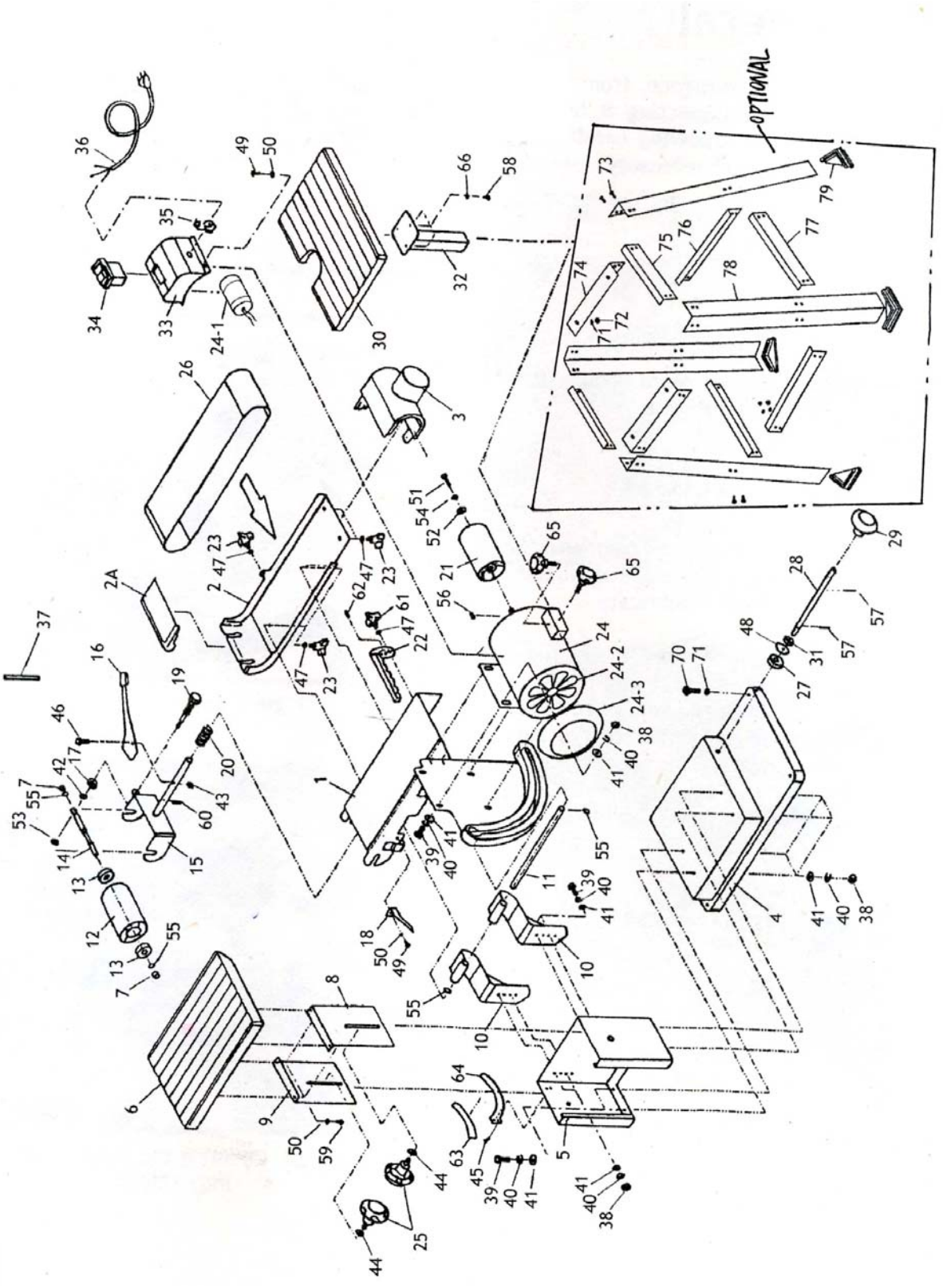


Figure 24. Cleaning the sanding belt with PRO STICK®.

CT094 – HORIZONTAL/VERTICAL SANDER
PARTS



CT094 – HORIZONTAL/VERTICAL SANDER

PART #	DESCRIPTION	QTY
1	SANDING CLOTH PLATFORM	1
2	BELT COVER	1
2A	BELT COVER (SMALL)	1
3	DUST CHUTE	1
4	BASE	1
5	CABINET	1
6	TABLE	1
7	RUBBER TUBE	2
8	UP-DOWN PLATE (RIGHT)	1
9	UP-DOWN PLATE (LEFT)	1
10	BRACKET	2
11	SHAFT	1
12	DRIVE ROLLER	1
13	TUBE	2
14	ARBOR	1
15	ROLLER ARM	1
16	BELT TENSION ARM	1
17	LOCK NUT M8-1.25	1
18	POINTER	1
19	MICRO-ADJUSTING SCR	1
20	SPRING	1
21	MOTOR ROLLER	1
22	BRACKET	1
23	MALE KNOB 6 X 8MM	5
24	MOTOR	1
24-1	CAPACITOR 400MFD 125VAC	
24-2	MOTOR FAN	
24-3	MOTOR FAN COVER	
25	MALE KNOB 8 X 16MM	2
26	SANDING BELT	1
27	SPACER	1
28	ROD	1
29	FEMALE KNOB 12MM	1
30	EXTENSION TABLE	1
31	LOCK WASHER 8MM	1
32	SUPPORTING ROD	1
33	SWITCH BOX	1
34	TOGGLE SWITCH W/KEY	1
35	STRAIN RELIEF 8MM	1
36	POWER CORD 18 GA. 3 WIRE	1
37	BELT TENSION DRIVE	1
38	HEX NUT M8-1.25	12
39	PHLP HD SCR M8-1.25 X 25	12
40	LOCK WASHER 8MM	24
41	FLAT WASHER 8MM	24

PART #	DESCRIPTION	QTY
42	FLAT WASHER 6MM	1
43	LOCK NUT M8-1.25	1
44	FLAT WASHER 8MM	2
45	FLAT HD SCREW M4-.7 X 5	2
46	PHLP HD SCR M8-1.25 X 25	1
47	FLAT WASHER 6MM	6
48	FLAT WASHER 8MM	1
49	PHLP HD SCR M5-.8 X 10	5
50	LOCK WASHER 5MM	9
51	PHLP HD SCR M6-1 X 20	1
52	WASHER	1
53	LOCK NUT M6-1	1
54	LOCK WASHER 6MM	1
55	EXT RETAINING RING 12MM	4
56	KEY 5 X 5 X 25	1
57	ROLL PIN 3 X 20	2
58	PHLP HD SCR M6-1 X 12	3
59	PHLP HD SCR M5-.8 X 10	4
60	SHAFT	1
61	STAR KNOB 6 X 25	1
62	ROLL PIN 4 X 20	1
63	SCALE LABEL	1
64	SCALE	1
65	MALE KNOB 8 X 16	2
66	FLAT WASHER 6MM	3
70	SCREW M8-1.25 X 35	4
71	FLAT WASHER 8MM (optional)	40
72	HEX NUT M8-1.25 (optional)	36
73	SCREW M8-1.25 X 12 (optional)	32
74	LONG BRACKET (optional)	2
75	BRACKET (optional)	2
76	LONG SUPPORT PLATE (optional)	2
77	SHORT SUPPORT PLATE (optional)	2
78	SUPPORT LEG (optional)	4
79	RUBBER SUPPORT (optional)	4

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.