

OWNER'S MANUAL



B350S 15" THICKNESS PLANER



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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 this machine.
- **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.
- **NEVER** make crosscuts with the rip fence in place.
- □ **NEVER** attempt cut material that is warped or twisted.
- □ **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.



Introduction

As part of the growing line of Craftex woodworking equipment, we are proud to offer you the B350S 15" Thickness Planer. 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 B350S is a professional tool and like all power tools, proper care and safety procedures should be adhered to.

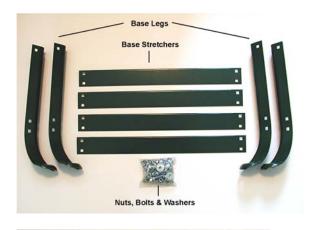
Features

Motor: 2HP, 220-volt single phase.
Speed: 5,000 RPM
Feed Rate: Two speeds, 16 FPM and 20 FPM plus NEUTRAL.
Capacity: 15" width, 6" height.
Maximum Cutting Depth: 1/8".
Minimum Thickness: 1/4".
Knives: 3 high-speed steel knives.
Table: Precision ground cast-iron, 20" L x 15" W.
All ball bearing construction.
Four-column design with four chain-driven jackscrews.
Table locks for security.
Two roller tables for in-feed and out-feed.
Oil bath gearbox.
Solid sheet steel base.
Large table elevation adjusting wheel.
Dust collecting hood for a 4" collection system.
Knife setting tools included.
Four lifting handles included.
Gross weight: 215kg.



PACKAGE CONTENTS

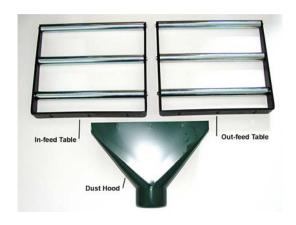
Sheet Metal Stand (Top not shown)



Assembly Parts



Rollers & Dust Hood



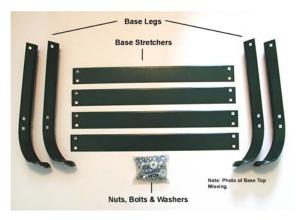
Remove these parts from the shipping case and set aside.



BASE ASSEMBLY

Your B350S Thickness Planer comes complete with a sheet metal stand.

Remove all of the pictured parts from the shipping case and set aside.



Turn the top upside down and using the round head carriage bolts, washers and nuts, assemble the legs to the top. DO NOT TIGHTEN THE NUTS AT THIS TIME.

Assemble the stretchers to the legs using the remaining round head carriage bolts, washers and nuts but do not tighten the nuts just yet.

Set the stand in the upright position and proceed to securely tighten the nuts to the top. Once tightened you may now tighten the stretchers.



ASSEMBLY

Remove all of the side crating materials and safely discard, being careful of the sharp nails that may still be attached to the wood parts.

The B350S Planer should now be sitting on the base of the crate and wrapped in a protective plastic bag. Roll the bag down so that you can access the 4 telescoping lifting rods as shown. There are two on either side of the planer.

CAUTION: The B350S is a very heavy machine and it should be hoisted onto the stand using an appropriate overhead block and tackle and sling or other mechanical or hydraulic system.



Set the planer on the stand so that the mounting holes on the stand and the planer line up. Do Not Remove The Sling Yet.

Install the 4 long hex bolts through the holes using the washers and coloured nuts and securely tighten them.

NOTE: If you wish to reposition the planer or to install it on a mobile base for later mobility you should do so now. If not, you may remove the sling now.

Installing The Table Elevation Wheel & Handle.

Select the Table Elevation Wheel and Handle from the loose parts. The elevator post on top of the thickness planer has a temporary strip of tape around it to retain the post key. Remove and discard the tape.

Position the wheel onto the post so that the key slides into the keyway on the wheel and push it down.

Place the direction escutcheon on top of the wheel and then secure it with the washer and nut from the parts bag.

Install the Handle into the threaded hole on the Table Elevation Wheel and tighten it with the supplied wrench.





ASSEMBLY Cont'd.

Installing The Dust Hood.

Select the Dust Hood from the parts and the bag containing 3 black Allan bolts, flat washers, lock-washers and nuts and the 3 hex bolts.

Install the Dust Hood on top of the rear of the B350S as shown and use the black Allan bolts to secure the Dust Hood top to the body of the planer. Install the bolts, flat washers, lock washers and nuts. The lock washers and nuts can be installed through the 4" opening of the Dust Hood. Tighten the bolts using the included Allan wrench.



The 3 hex bolts are installed on the bottom flange of the Dust Hood in the threaded holes provided.

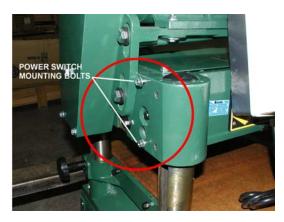
Installing The Magnetic Motor Switch.

The Magnetic Motor Switch on the B350S Thickness Planer is pre-wired and ready to be used on a 220-volt single-phase electrical outlet.



The cable from the motor to the Magnetic Motor Switch should run under the Thickness Planer motor and then mounted on the body at the front left side of the Planer.

There are 2 hex bolts loosely installed in Motor Switch position. Loosen these hex bolts and use them to secure the Motor Switch.

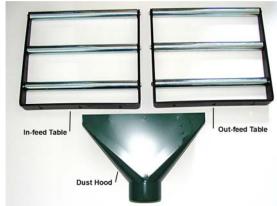




ASSEMBLY Cont'd.

Installing the In-Feed and Out-Feed Tables.

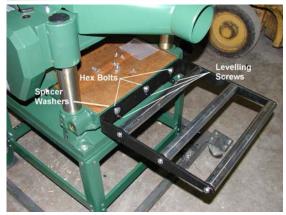
Select the In-Feed and the Out-Feed Roller tables from the loose parts with the parts bag containing hex bolts and Allan screws.



Select 3 of the black flat spacer washers and using masking or packing tape, fasten the washers over the 3 holes at the ends of the feed table. Use an awl or screwdriver to pierce the tape to clear the openings.

Using the shorter hex bolts, place a bolt into the center hole of the roller-table and push it through the center opening, fasten it to the threaded holes in the feed table.

Select 3 of the black Allan levelling screws and install them in the threaded holes below the mounting bolts on the roller-table, *DO NOT TIGHTEN*.



Repeat the above to steps to install the other roller-table.

Assembling the Knife-Setting Gauge

From the loose parts select the two gauges, gauge shaft and the 4 snap rings.



Install 2 of the snap rings into the inner grooves of the shaft, install the 2 gauges and install the 2 remaining snap rings on the outside grooves.

The assembly of the B350S Thickness Planer is now complete.



PREPARING THE B350S FOR OPERATION

Cleaning the Planer.

Your B350S Thickness Planer has been shipped with a protective lubricant on some of the surfaces to prevent rusting in adverse conditions. This protective lubricant can be removed with mineral spirits. The table surface should be thoroughly wiped clean and dry and a coat of paste wax applied and then buffed.

Craftex takes great pains to ensure that your B350S Thickness Planer is correctly aligned at the factory and ready for use when you receive it. However, rough handling during shipping may have altered the settings. To ensure the accurate operation of your planer there are some settings that should be verified before you use the machine.

For some adjustments it will be necessary to fabricate a gauge block out of hardwood such as maple or oak as illustrated. You will also need a straight edge and a feeler gauge.

NOTE: BE SURE THAT THE POWER CORD IS DISCONNECTED BEFORE MAKING ANY ADJUSTMENTS.

Belt Tension

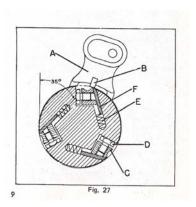
Remove the belt housing cover by removing the 4 screws on the cover. Check the tension of the 3 belts. If the belts are loose, loosen the belt tensioning bolts. Using a hardwood lever, place it under the motor housing and place a wood fulcrum on the body of the tool. Raise the motor until the belts are taut and tighten the tensioning bolts.



Knife Replacement and Adjusting

Remove the 4 screws and the knife-head cover and set aside. Remove the chip ejector.

To check the knives for correct height, use the knife gauge and set it on all 3 knives as in the illustration at right. When the gauge is correctly placed on the cutter head, the knives should just contact the center protrusion of the gauge as shown in 'B'.





PREPARING FOR OPERATION, CONT'D.

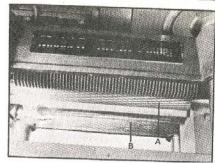
If an adjustment of any of the knives is required, slightly loosen all of the bolts on the knife locking bars. Loosen these just enough to ease the tension on the cutter head but not enough to disturb the knife setting. Adjust the knife that must be reset by further loosening the 5 bolts on the locking bar. The knives are set on lifter springs and the affected one will rise until it contacts the knife gauge. Slightly tighten the bolts just enough to retain the knife position. If additional knives require resetting, repeat the above procedure.

When all knives are set, tighten all bolts **starting with the end bolts first**. Tighten the center bolts next and then tighten the remaining bolts.

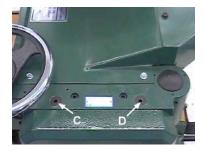
Adjusting Feed Roller Spring Tension

(Fig.1)

The infeed ('A') and outfeed ('B') rollers feed the stock while it is being planed. The rollers are under spring tension and the tension must be sufficient to uniformly feed the stock without slippage and conversely, not too tight so as to cause damage to the board. The tension at both ends of the rollers should be equal. (*Fig.1*)



To adjust the tension of the infeed roller, rotate Allan screw ('C') on both sides of the planer. To adjust the tension of the outfeed roller, rotate Allan screw ('D') on both sides of the planer. (Fig. 2)



Adjusting Height of Outfeed Roller

(Fig. 2)

The height of the outfeed roller is adjusted at the factory and is set **1mm** below the knife-edge.

To adjust the outfeed roller, proceed with the following steps:

Disconnect the power cord.

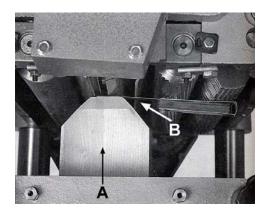
Confirm that all 3 knives have been properly adjusted (see Knife Adjustment And Replacing above).



PREPARING FOR OPERATION, CONT'D.

Place the shop-built hardwood gauge block ('A') on the planer table surface directly below the cutter head as shown.

CAREFULLY (THE PLANER KNIVES ARE VERY SHARP) ROTATE THE CUTTER HEAD BY HAND SO THAT ONE OF THE KNIFE-EDGES IS AT THE LOWEST POSITION.

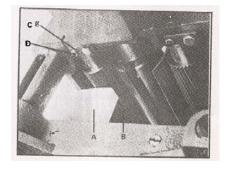


(Fig. 1)

Using a 1mm-feeler gauge ('B') held in place over the top of the gauge block, raise the planer table until the knife-edge just touches the feeler gauge. **Do not raise or lower the planer table any further until the outfeed roller is adjusted.** (Fig. 1)

Move the gauge block ('A') under one end of the outfeed roller ('B'). The outfeed roller should just touch the top of the gauge block. Should an adjustment be required, loosen locknut ('C') and turn screw ('D') until the roller just touches the gauge block. Tighten the locknut. Repeat this procedure on the opposite end of the outfeed roller. (Fig.2)





Adjusting the Chipbreaker

The chipbreaker is located on top of the planer and extends down around the front of the cutter head. The chipbreaker raises as stock is fed through the planer and 'breaks or curls' the chips from the planer much the same way as the iron on a hand plane. The bottom of the chipbreaker must be parallel to the knives and set **1mm** below them.

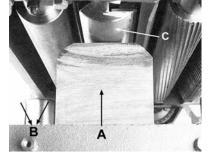
To check and adjust the chipbreaker proceed with the following steps:

Disconnect the power cord.



Confirm that all 3 knives have been properly adjusted (see Knife Adjustment And Replacing above).

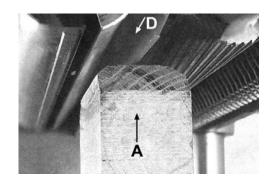
Place the shop-built hardwood gauge block ('A') on the planer table ('B') directly below the cutter head ('C') as shown. (*Fig.3*)



(Fig.3)

CAREFULLY (THE PLANER KNIVES ARE VERY SHARP) ROTATE THE CUTTER HEAD BY HAND SO THAT ONE OF THE KNIFE-EDGES IS AT THE LOWEST POSITION.

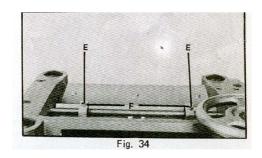
Raise the planer table and use a 0.40" feeler gauge on top of the gauge block. The knife-edge should just touch the feeler gauge. Do not raise or lower the planer table any further until the chipbreaker is adjusted.



(Fig.4)

Move the gauge block ('A') (without the feeler gauge) under one end of the chipbreaker ('D'). The chipbreaker should just touch the gauge block. Check the other end as well. (*Fig.4*)

Should an adjustment be required, remove the knife cover plate on top of the planer and loosen nuts ('F') and rotate screws ('E') until the bottom of the chipbreaker just touches the gauge block. Re-tighten the nuts. (Fig.34)





Adjusting Table Rollers

The B350S Planer is supplied with 2 table rollers that aid in the feeding of the stock by reducing friction. These rollers are factory set for average planning and are set flush with the planer table surface. If you are planning rough lumber on a constant basis you may want to raise the rollers to their 'High' position to further reduce friction. Conversely, if you are planning finished lumber you will want the rollers set to the 'Low' position. The following procedure shows you how to change these settings.



Disconnect the power cord.

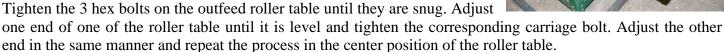
Lay a straightedge across both rollers and rotate screws to raise or lower the rollers on that side of the table. Repeat the process on the other side, being particularly careful to ensure that the rollers are always parallel to the table surface.



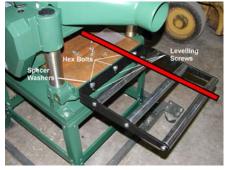
Adjusting the Infeed and Outfeed Roller Tables

The infeed and outfeed roller tables must be perfectly level with the planer table surface to prevent snipe (the cupping in boards at the beginning and end of the thickness planning process). There are 3 adjusting Allan screws on the end plates of the roller tables to raise or lower the tables.

Use a long straight edge that will extend through the planer table and slightly beyond both roller tables.

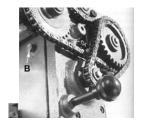


Repeat the process on the infeed roller table.



MAINTAINING THE B350S

Regular maintenance of the B350S thickness planer is the responsibility of the owner to ensure long-term accuracy and safety of the machine. Proper owner maintenance is also a condition of the warranty.





Lubrication

The gearbox oil should be changed on an annual basis.

Disconnect the power cord.

Remove the gearbox cover with an Allen wrench and set it aside. Remove the oil fill/level indicator bolt ('B') on the gearbox and then place an empty container under the drain plug ('A') and remove it to drain the old gear oil.

Replace the drain plug and fill the gearbox with approved gear oil. Oil should be replaced once a year. (Use 80-90Wt. gear oil in normal situations, and use 50 Wt. oil for unheated winter shops)

Replace the gearbox cover.

ELEVATION SCREWS

Common grease should be used on an annual basis to lubricate the elevation screws accessible through the slots on the four guideposts.

WAXING THE PLANER TABLE BED

Your B350S Planer will operate more smoothly if you keep the planer table bed waxed and polished. Use a quality paste wax and buff it to a high polish.

MAINTAINING THE KNIVES

On occasion the knives on the B350S may strike a nail or even a grain of sand or other dirt that may leave a nick in them. This nick may be cancelled out by slightly sliding *one* of the knives either to the left or right in the cutter head. Refer to **KNIFE REPLACEMENT AND ADJUSTING.**

The knives on your B350S Thickness Planer are made of HS steel and if properly maintained and sharpened on a regular basis, they should provide you with excellent planning results. The knives should be re-sharpened by a professional. The knife-edges are set at an angle of 35 degrees.

Some wood species will leave deposits of tar and resin on the knives that will hamper the efficiency of them. A routine cleaning of the knives is recommended.



OPERATING THE B350S THICKNESS PLANER

Your B350S Thickness Planer is a precision instrument that will provide you with many years of excellent service if properly maintained and operated.

Before planning any board, determine the thickest part of the board and then set the elevation dial so that no more than 1/8" of material will be removed at a time.

Tighten the post locks to ensure there will be no movement of the table and to help prevent snipe.



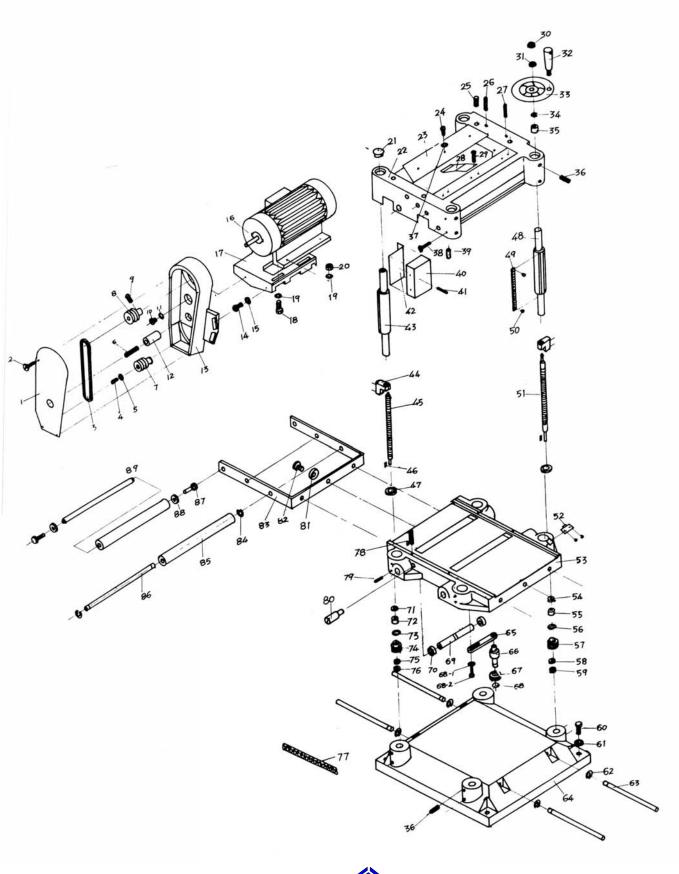
Turn the B350S on and set the gearbox to the desired feed rate and then insert the board into the planer. Allow the machine to feed the board, never force-feed it or pull on the board from the outfeed end.

If the board jams, immediately set the gearbox to neutral and turn off the power. Release the post locks, lower the table slightly, remove the board and start again.

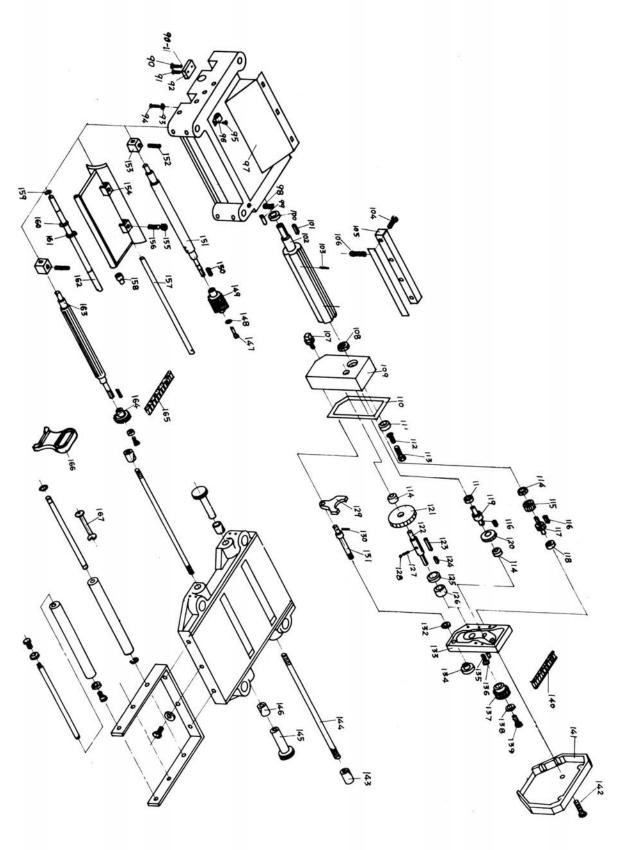




B350S SCHEMATIC DIAGRAM "A"



SCHEMATIC DIAGRAM 'B'



B350S PARTS LIST

Part No	o. Description	Size	Qty.
1	Cover	- Oize	1
2	Cheese Hd, Mach. Screw	M6x12mm	1
3	'V' Belts (matched)		3
4	Hex Head Cap Screw	M8x25mm	1
5	Washer		1
6	Hex Head Cap Screw	M10x80mm	1
7	Cutterhaed Pulley		1
8	Motor Pulley	7/8" Bore Single	1
9	Hex. Soc. Set Screw	M8x10mm	1
10	Hex. Hd. Cap Screw	M10x25mm	1
11	Flat Washer	ι 10mm	1
12	Bushing		1
13	Belt & Pulley Guard		1
14	Hex Hd. Cap Screw	M10x35mm	2
15	Flat Washer	ι 10mm	1
16	Motor		1
17	Motor Plate		1
18	Hex Hd. Cap Screw	M8x40mm	4
19	Washer	ι 8mm	4
20	Hex Nut	M8	4
21	Column Cap		3
22	Head Casting		1
23	Chip Deflector	M0-40	1
24	Hex Hd. Cap Screw	M6x12mm	3
25	Adjusting Nut	140.50	4
26	Soc. Hd. Cap Screw	M8x50mm	4
27	Hex. Soc. Set Screw	M8x20mm	1
28	Chip Breaker Spring	M6x12mm	3
29 30	Hex. Head Cap Screw Hex Nut	IVIOX I ZITITI	6 1
31	Washer		1
32	Handle		1
33	Adjusting Wheel		1
34	Int. Retaining Ring		1
35	Bushing		1
36	Soc. Hd. Cap Screw		16
37	Washer	ι 6mm	3
38	Cheese Hd. Mach. Screw	M5x10mm	4
39	Hex. Socket Set Screw	WOXTOTILL	1
40	Control Box		1
41	Socket Set Screw		4
42	Bracket		1
43	Column		3
44	Spindle Nut		4
45	Small Spindle		3
46	Key		4
47	Limiter Ring		2
48	Column		1
49	Scale		1
50	Rivet		4
51	Sprocket		1
52	Indicator Needle		1
53	Table		1
54	Washer		1
55	Bearing		1
56	Retaining Ring		1
57	Sprocket		1
58	Washer		1
59	Hex Nut	M10	1
60	Hex Hd. Cap Screw		4
61	Washer		4
62	Retaining Ring	12-E	4
63	Lifting Handles		4



64 Base 1 65 Idler 1 66 Shaft 1 67 Sprocket 4 68 Retaining Ring 4 68-1 Flat Washer 1 68-2 Hex Hd. Cap Screw M8x25mm 2 69 Table Roller 2 70 Bearing 4 71 Washer 3 72 Bearing 3 73 Retaining Ring 3 74 Sprocket 3 75 Washer 3 76 Hex Nut 3 77 Chain 1 78 Socket Hd. Cap Srew 4 79 Hex Socket Set Screw M10x20mm 80 Table Roller Pin 4 81 Washer 6 82 Hex Socket Set Screw 6 83 Bracket 2 84 Retaining Ring 8 8	0.4	D		14 1
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127 Spring 1 128 Ball 1 129 Shifer 1 130 Roll Pin 1 131 Clutch Shaft Assembly 1 132 O-Ring 1 133 Gear Box Assembly 1 134 Knob 1 135 Socket Hd. Cap Screw 5 136 Roll Pin 16x30mm 2 137 Sprocket 1 138 Washer 1 139 Hex Hd. Cap Screw M6x30mm 1 140 Chain 1 141 Cover 1 142 Screw 1 143 Adjusting Lever 2 144 Adjusting Bolt 2 145 Left Locking Knob 2 146 Gib 2 147 Hex Hd. Cap Screw M6x15mm 2 148 Washer 1 149 Sprocket				
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150 Key 1 151 Outfeed Roller 1	148			1
151 Outfeed Roller 1	149	Sprocket		1
151 Outfeed Roller 1	150	Kev		1
	151	Outfeed Roller		1
152 Spring 4	152	Spring		4
153 Block w/ Bushing 4	153			4
154 Chipbreaker w/ Bushing 1	154			1
155 Hex Nut M5 2			M5	2
156 Hex Socket Set Screw M5x12mm 2		Hex Socket Set Screw		2
157 Chipbreaker Adjusting Rod 1				1
158 Bushing 2	,			2
159 Retaining Ring 2				
160 Spacer 1				
161 Anti-kick Fingers 1				1
162 Anti-kick Shaft 1	_			
163 Infeed Roller 1		1 11 11 11 11 11 11 11 11 11 11 11 11 1		
164 Sprocket 1		111100011101		
165 Chain 1				
166 Knife Gauge 1				
167 Wrench 1				





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 <u>two years</u> 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. 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 (see locations on inside back cover of this manual).
- 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.



BUSY BEE TOOLS - - - SHOWROOMS -Coast to Coast

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1064 Salk Road, Pickering, Ontario, L1W 4B5 Tel. – 905-831-9582, Fax – 905-831-4292

We have been serving the Canadian woodworking and metalworking industry for over 27 proud years. We stand behind out machines. If you have any questions, comments or concerns, please call or write to our head office, or call toll free at 1-800-461-BUSY(2879), or email us – busybee@busybeetools.com

