

## CT148 – 1" x 5" BELT/DISC SANDER



COPYRIGHT © 2009 BY CRAFTEX INDUSTRIES INC.

NO PORTION OF THIS MANUAL MAY BE REPRODUCED WITHOUT  
THE WRITTEN CONSENT OF CRAFTEX INDUSTRIES INC.



## 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.

- **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 JEWELLERY 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.
- **NEVER** make crosscuts with the rip fence in place.
- **NEVER** attempt to cut material that is warped or twisted.
- **NEVER** attempt a procedure if it does not feel safe or comfortable.
  
- **ALWAYS** keep blades, knives and bits sharpened and properly aligned.
- **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 the tool is in operation.

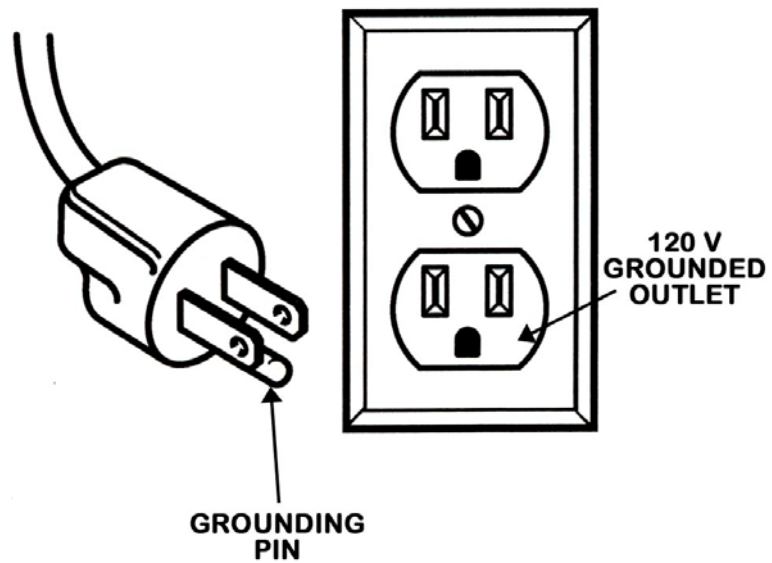
THINK SAFETY. WORK SAFELY.

## SPECIFIC SAFETY INSTRUCTIONS

- **THIS SANDER** is designed to sand wood and wood like products only. Sanding or grinding other materials could result in fire, injury or damage to work piece.
- **DO NOT** use sanding belts or discs that are damaged, torn, loose. Use only correct size sanding belt and disc.
- **ALWAYS** hold the work piece firmly on the table when using the disc sander and when using the belt sander. Sand only one work piece at a time.
- **ALWAYS** sand on the downwards side of the sanding disc when using the disc sander. Sanding on the upward side of the disc sander could cause the work piece to fly out of position, resulting in injury.
- **KEEP** fingers away from where the belt goes into the dust trap.
- **DO NOT** sand with work piece unsupported. Support the work piece with backstop or table. The only exception is curved work performed on the outer sanding drum.
- **ALWAYS** remove scrap pieces and other objects from the table, backstop or belt before turning the sander "ON".
- **DO NOT** wet grind or polish. Never use a steady Stream of water on the work piece.
- **DO NOT** overheat the work piece.
- **DO NOT** grind or polish magnesium. It could catch fire.

## GROUNDING

To prevent possible electrical hazards, have a qualified electrician ensure that the line is properly wired. This machine is pre-wired to be use with a 120 volt power supply and ensure the cord is plugged into a grounded power outlet.



# INTRODUCTION

As part of a growing line of Craftex Woodworking Equipment, we are proud to introduce the CT148 1" x 5" Belt/Disc Sander. This is a professional woodworking tool and like all tools, proper care and safety precautions should be exercised at all times. Please read this manual and adhere to all safety rules when using this machine. With proper care and safety techniques you should receive years of excellent service from this well built sander.

## Features

This unit is ideal for contour sanding, detail & intricate work, dry sharpening. This bench top belt/disc sander features a 1" x 30" belt sander and a 5" sanding disc.

Both belt and disc table tilt 45 degrees for versatility and the removable idler roller guard makes contour sanding easy and effective. With a powerful 1/3 HP motor, this bench top unit is ideal for any workshop.

## Specifications

Motor – 1/3HP, 110V, single phase, 3450RPM

Belt – 1"x 30"

Disc – 5"

Belt Table Tilt – 45 degrees

Disc Table Tilt – 45 degrees

Belt Table Size – 5" x 5"

Disc Table Size – 7 ¼" x 3 ¾"

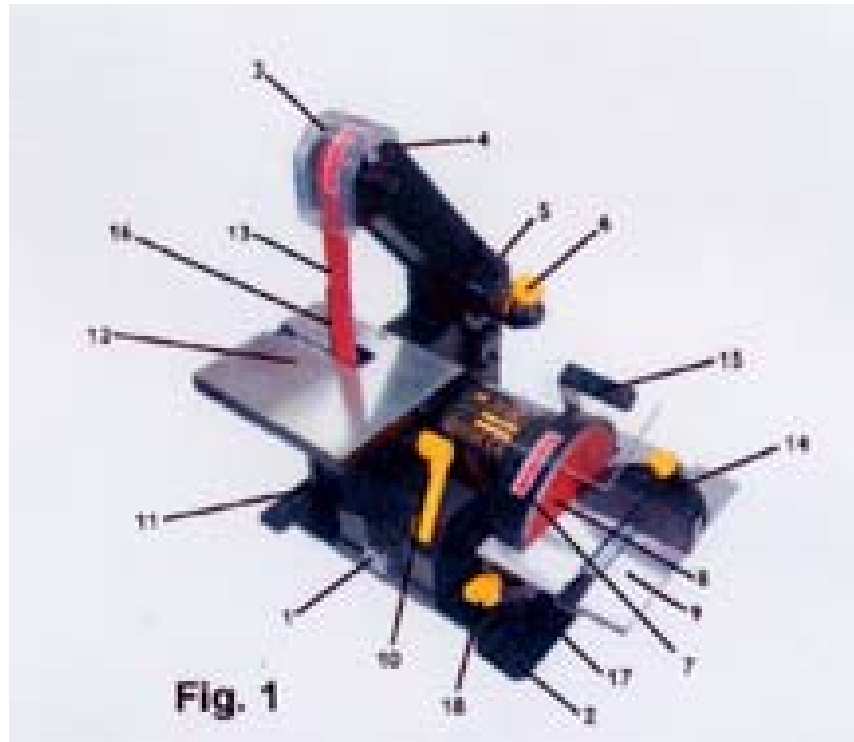
Belt Tracking Adjustment

Dust Port – 1 ½"

Platen Size – 1" x 2"

2 Year Warranty

## PHYSICAL FEATURES



**Fig. 1**

1. ON/OFF switch
2. Mounting holes
3. Belt guard
4. Belt guard knob
5. Belt tracking bolt
6. Tension handle
7. Disc guard
8. Sanding disc
9. Disc table
10. Table locking handle
11. Base
12. Bed table
13. Sanding belt
14. Mitre Gauge
15. Eye shield
16. Back Stop
17. Bevel Scale
18. Table Lock Knob

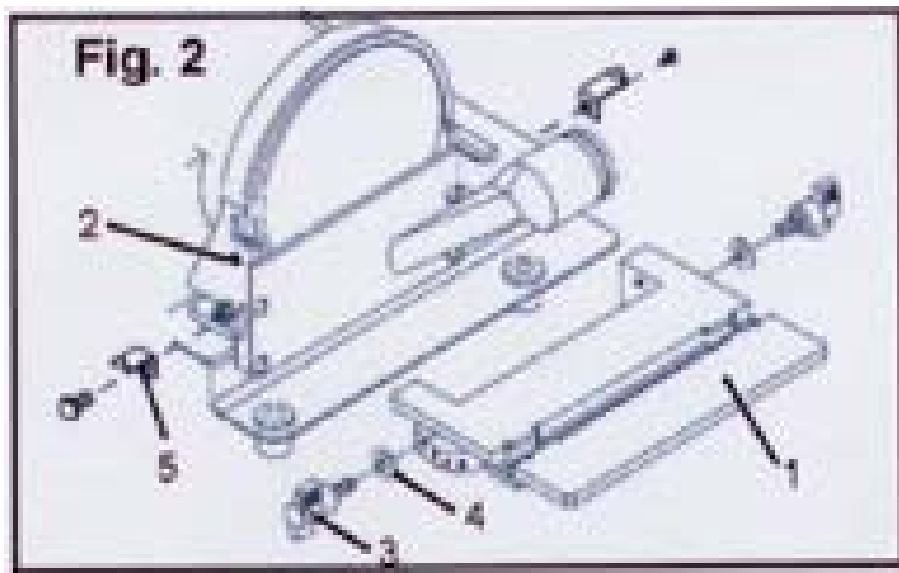
## ASSEMBLY

Lift the sander from the carton and place it on your work bench or your desired work place.

To avoid injury always keep the plug disconnected from the power source and the switch turned OFF until the sander is completely assembled and adjusted properly.

### Installing Disc Table (Fig. 2)

- 1 Align the disc table (1) with the holes on the disc guard (2).
- 2 Attach scales to hole on the disc guard housing. Tighten the screws.
- 3 Attach knobs (3) and washers (4), tighten the table and guard together.
- 4 Be sure the gap between the disc and disc table is 2mm (1/16") or less.



### Installing the Spark Guard (Fig. 3)

Install the spark guard with a bolt and a washer and keep the distance between the guard and wheel as small as possible, and no greater than 25mm.

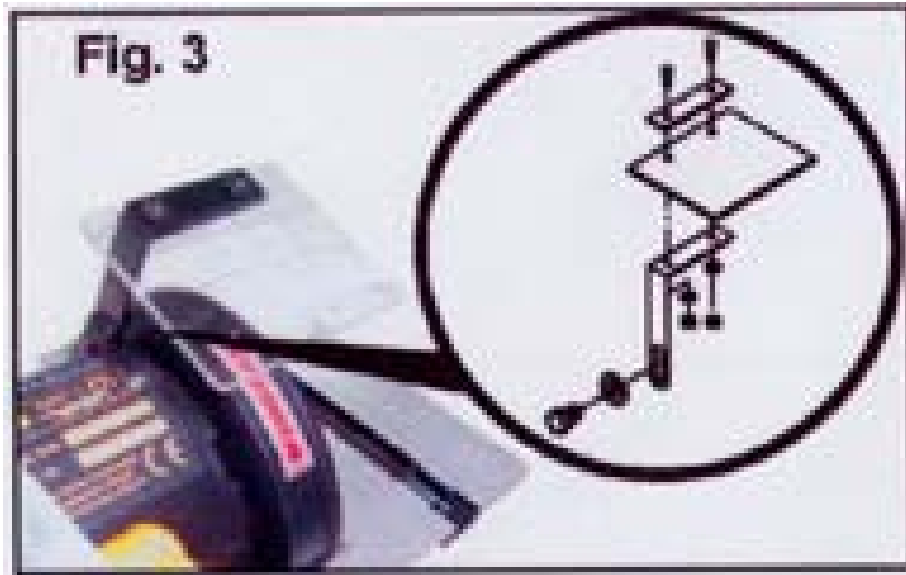
Note: We highly recommend that you bolt this bench sander securely to a workbench to gain the maximum stability of your machine.

If you want to bolt the machine to a bench

- 1 Locate and mark the four bolt holes on the bench.
- 2 Drill the bench with a 1 mm drill bit
- 3 Bolt the bench grinder on to the bench with bolt, washers and nuts. Note that these fasteners are not supplied with the machine.

## ASSEMBLY

Note: This tool is accurately adjusted before shipping from the factory. Check the following accuracy and readjust them if necessary in order to obtain the best results in operation.



### Adjusting the Table

To avoid trapping the work piece or fingers between the table and sanding disc or sanding belt, the gap between the table and sanding disc or sanding belt should be kept at 2mm (1/16") or less.

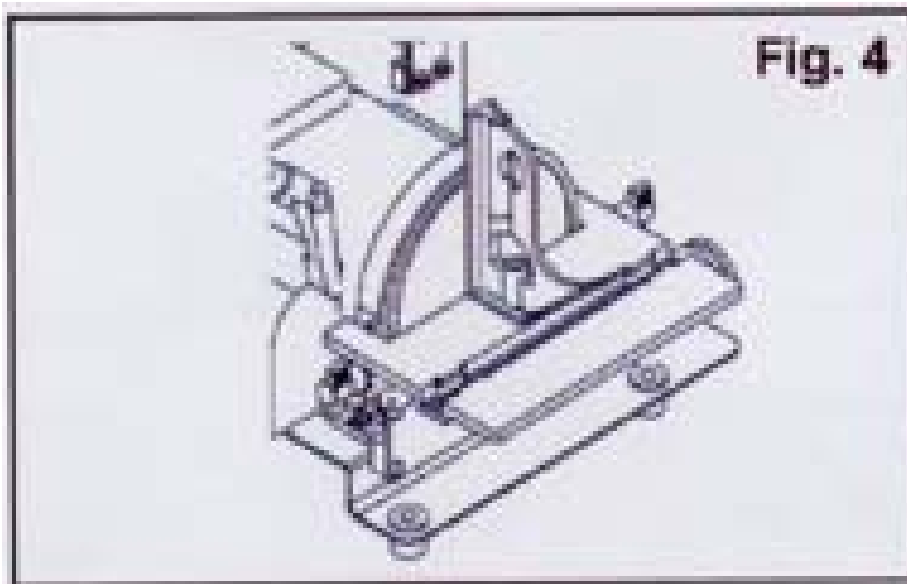


# ASSEMBLY

## Adjusting the Disc Table Tilt Angle (Fig.4)

The disc table can be moved from 0° to 45° by loosening the table lock knobs. Tilt the table to the desired angle, then tighten the table lock knobs to secure the position.

- 1 Using a combination square to set table at 90° to the disc.
- 2 If necessary, loosen the table lock knobs so the table is at 90°
- 3 Using a screwdriver, adjust the pointer to the 0° mark.



# ASSEMBLY

## Adjusting the Belt Table (Fig. 5)

The belt table can be tilted by loosening the table lock knob, tilt the table to the desired angle, and tightening the table lock knob.

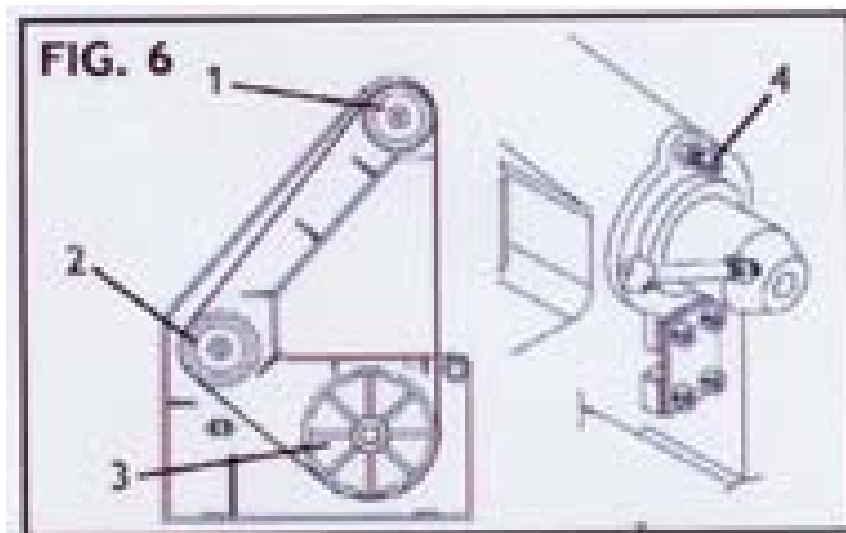
- 1 Using a combination square to set table at 90° to the belt
- 2 If necessary, loosen the table lock knob until the table is 90° to the belt
- 3 Using a wrench, turn the set screw until the screw touches the frame.



## ASSEMBLY

### Adjusting the tracking of Sanding Belt (Fig. 6)

- 1 With the belt guard removed and the sander plugged in, flip the switch ON and then OFF.
- 2 The belt should remain centered on the upper (1), the middle (2) and the lower (3) wheels as it turns.
- 3 If the belt moves off center, it needs to be adjusted.
- 4 If the belt moves to the left, slightly turn the adjusting bolt (4) anti-clockwise with a hex key. If the belt moves to the right, slightly turn the adjusting bolt clockwise.
- 5 Disconnect the power and test the belt tracking and table clearances by hand. Adjust if needed. Note: Turn the knob SLIGHTLY to set proper tracking.
- 6 Replace the belt guard when properly centered and tracking correctly.

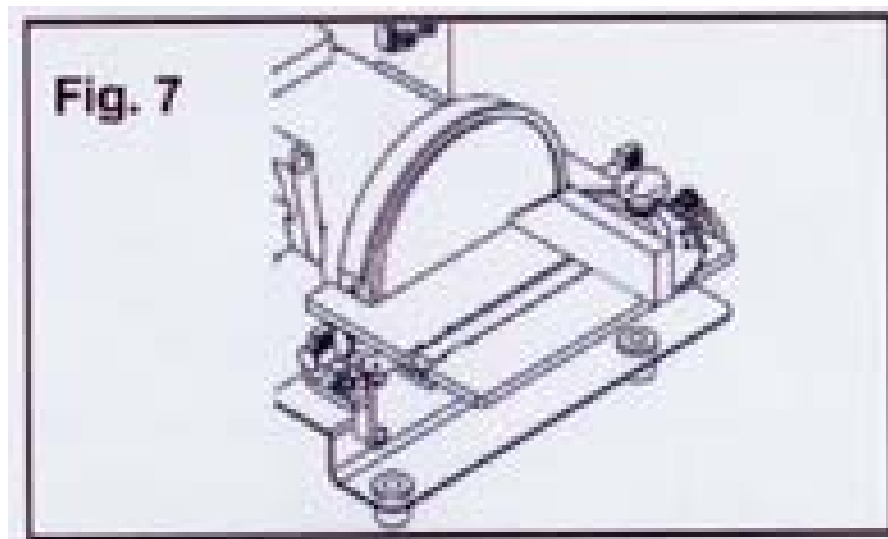


## ASSEMBLY

### Adjusting the Mitre Gauge (Fig. 7)

The miter gauge is used with the worktable to sand work piece with miter angles or compound angles when the worktable at a tilt angle. The angle between the body and the bar can be set from 90° to 45° left or right

Check the squareness with a combination square and adjust the pointer if necessary. Remember the miter gauge is a convenient guide but not be relied upon for ultimate precision.



## OPERATION

Never connect the plug to the power source outlet until all installations and adjustments are completed and you have read and understood the safety and operational instructions. The belt and disc sander is designed to perform rough sanding operations on surface, edge grain and end grain sanding. The sander will also perform freehand forming and contouring operations.

- 1 Always apply light pressure allowing the abrasive to remove the material slowly.
- 2 The work piece should be moved, continuously, to avoid burning.
- 3 Avoid sanding small pieces of wood which will position the fingers close to the abrasive belt or disc.
- 4 Use the miter gauge and worktable to perform miter or compound angle sanding.

## OPERATION

### Abrasive Disc (Fig. 8)

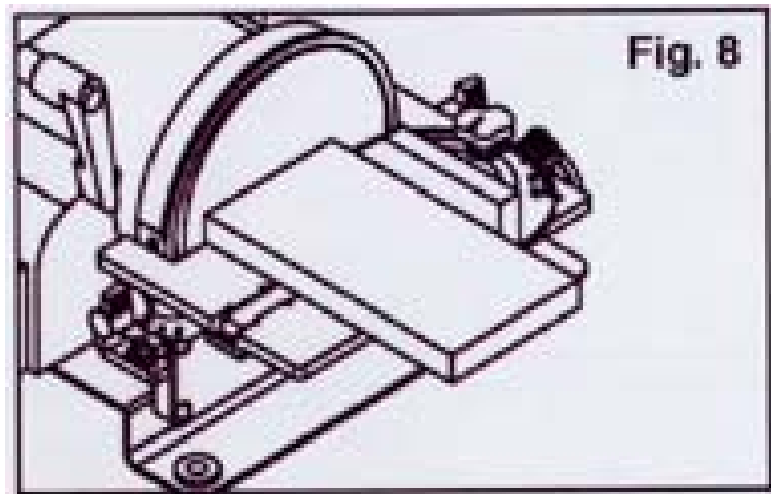
Avoid injury from slips, jams or thrown pieces; make sure all adjustments are made. Review section ASSEMBLY AND ADJUSTMENTS for correct disc adjustments.

End sanding and outside curve sanding

- 1 Use disc for sanding the ends of small and narrow work pieces and outside curved edges. Always work on the right side of the disc center (downward rotation side), holding the work piece firmly and applying light pressure against the sanding disc.
- 2 The disc moves the fastest and removes more material at the outer edge.

**WARNING!** Using the left side (upward rotation side) of the disc will cause the work piece to fly up or kick back and could result in injury.

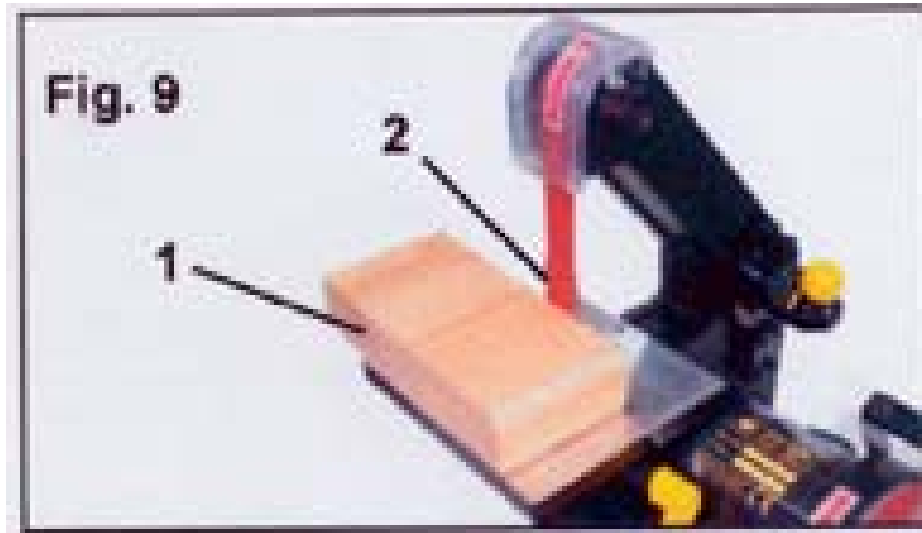
The belt is most efficient when used with the table. The belt size is convenient for getting into corners and concave curved edges.



## OPERATION

### Straight sanding (Fig. 9)

When using to sand wood (1), keep the backstop (2) in place for straight sanding or grinding operations. [Changing the](#)



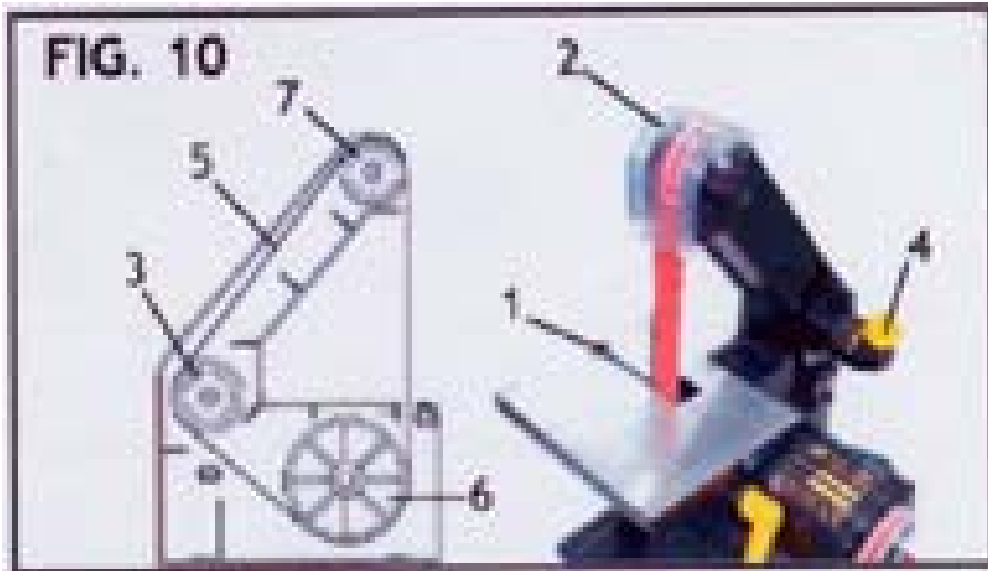
### Changing the Sanding Belt (Fig. 10)

**WARNING!** To avoid injury from accidental starting, always turn the switch OFF and remove the power plug from the power source before changing the sanding belt.

- 1 Remove the table leveling screw (1) from the table.
- 2 Remove the belt guard (2) and the housing by removing the belt housing knob.
- 3 Release the middle wheel (3) tension by SLIGHTLY moving and holding the tension handle (4) downward.
- 4 Remove the abrasive belt.
- 5 Install and align the new abrasive belt (5) on the lower wheel (6) and upper wheel(7). There is an arrow on the inside of the belt. The arrow should point down, in the same direction as rotation arrow on the housing to avoid belt damage.
- 6 Release the belt tension handle (4). Spring action will tension the belt when the handle is released.
- 7 Make sure the belt is tracking correctly. Adjust the tracking if necessary.

## OPERATION

When the belt is tracking properly it rides on the center of each wheel.  
Replace the belt guard (2), belt housing and re adjust the belt table. Note: The belt rotates anti-clockwise. When installing a belt, make sure the arrows point to the anti-clockwise direction, as shown by the rotation label.

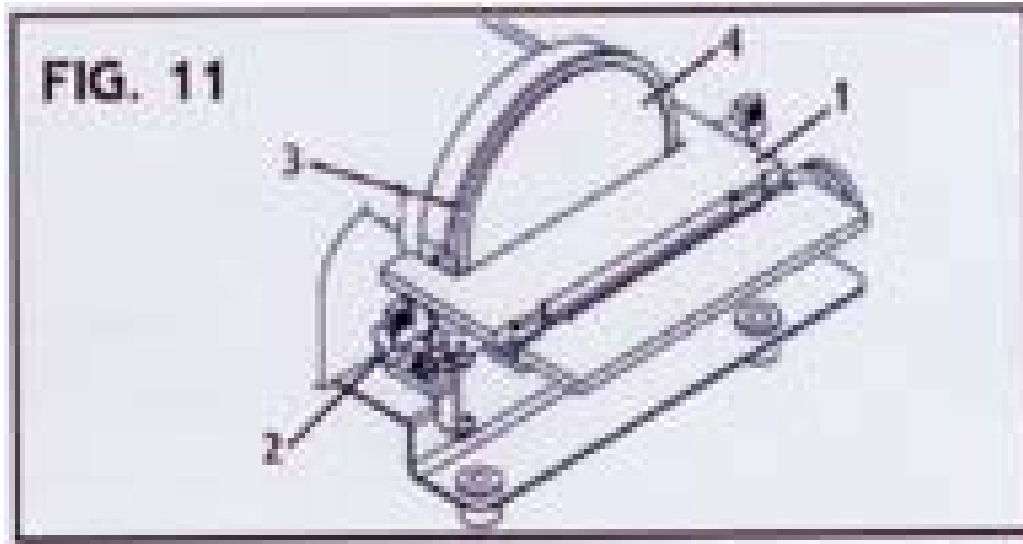


## OPERATION

### Changing the Sanding Disc (Fig. 11)

1. Remove the scales and table assembly (1) from the sander, by loosening the knobs (2) from both sides of the housing .
2. Tilt the table assembly (1) downward to remove it from the sanding disc (3).
3. Remove the dust chute to the disc guard housing and the four screws.
4. Remove the worn abrasive disc (4) by peeling it from the disc plate (3) .
5. Clean the disc plate if necessary. Apply a new adhesive sanding disc to the disc plate.
6. Reattach the dust chute and table assembly (1).
7. Align the disc table with the holes on the disc guard.
8. Attach scales to hole on the disc guard housing and tighten the screws. Attach knobs and washers, tighten the table and guard together.
9. Adjust the table to be 2mm from the sanding disc, tighten the knobs.

## OPERATION



## MAINTENANCE

**WARNING!** For your own safety turn the switch off and remove the plug from the power source outlet before maintaining or lubricating your belt / disc sander.

### General Maintenance

1. Frequently blow out or vacuum out any dust that may accumulate inside the motor.
2. Remove impacted sawdust from the disc and belt abrasive or replace abrasive belt and disc paper.

This unit is fairly maintenance free but occasionally checking the machine adjustments, knobs and screws will ensure a longer life.





# PARTS LIST

NO	Description	SIZE	Q'TY	NO	Description	SIZE	Q'TY
1	Motor Housing		1	46	BACKSTOP OF BELT		1
2	Rotor		1	47	FLAT WASHER	1/4"*12*1T	2
3	SHAFT	16*208L	1	48	TELESCOPOC SCREW	M4*10L	2
4	STATOR with copper wire	111*53*34	1	49	BELT	1"*30" #10	1
5	FAN	16*1/4	1	50	BELT OUTER COVER		1
6	BALL BEARING	6202ZZ	4	51	HEX. SCREW	5/16"*3/8"	1
7	MOTOR COVER (Front AND Behind)		2	52	BELT GUARD		1
8	CROSS HEAD SCREW W/I WASHER	M4*128MM	4	53	SOCKET SCREW	M4*10L	1
9	HEX. NUT	M4	4	54	COPPER WASHER		1
10	SOCKET SCREW	M6*6L	1	55	TEETH WASHER	5MM	1
11	SPRING WASHER	M6	1	56	CROSS HEAD SCREW W/I WASHER	3/16"*1/4"	1
12	HEX. W/I WASHER	M6*10L	4	57	CAPACITOR	8.5UF/250	1
13	BASE		1	58	CROSS HEAD TAPPING SCREW	3/16"*3/8"	1
14	DISC GUARD		1	59	SWITCH BOX		1
15	HEX. SCREW	M5*12L	2	60	STRAIN RELIEF BUSHING	6N-4	1
16	TOOTH WASHER	M5	2	61	ELECTRIC CORD		1
17	FLAT WASHER	M5	2	62	WIRE CLIPER	ACC-2B	2
18	DISC	5"	1	63	CROSS HEAD SCREW W/I WASHER	3/16"*1/4"	2
19	STOP SCREW	1/4"*5/16"	4	64	CROSS HEAD TAPPING SCREW	5MM*12L	3
20	DISC SANDING PAPER	5" #100	1	65	SWITCH	HY18	1
21	DUST CHUTE		1	66	RUBBER PAD		4
22	CROSS HEAD SCREW	3/16"*3/8"	4	67	POINTER		2
23	DISC TABLE		1	68	CROSS HEAD SCREW W/I WASHER	3/16*1/4"	2
24	FLAT WASHER	3/16"*16*1.5	2	69	BELT TABLE		1
25	ADJUSTING KNOB	M5*20L	2	70	HEX. SCREW	M8*20L	1
26	CORD BUSHING	3/8	1	71	FLAT WASHER	M8*23*21	1
27	BELT FRAME		1	72	HANDLE	M8*50L	1
28	FLAT WASHER	5/16"*X1651.	1	73	STOP SCREW	M6*20L	1
29	TOOTH WASHER(OUT)	ABW-8	1	74	HEX. NUT	M6	1
30	HEX. SCREW W/I WASHER	M8*12L	2	75	MITER GAUGE		1
31	HEX. SCREW W/I WASHER	3/16"*5/8"	4	76	SOCKET HEAD SCREW	M5*10L	4
32	DRIVING WHEEL(BIG)	92.5*26T	1	77	FLAT WASHER	M4*12*1T	1
33	UPPER WHEEL SHAFT		1	78	HEX WRENCH	3MM*100L	1
34	DRIVING WHEEL(SMALL)	50*25T	2	79	HEX WRENCH	4MM	1
35	C-CLIP	S-15	3	80	NAMEPLATE		1
36	BENT AXLE		1	81	SPEC. LABEL		1
37	E-CLIP	E-9	2	82	MOTOR LABEL		1
38	FIXED SEAT		1	83	GROUND LABEL		1
39	ADJUSTING SPRING		1	84	WRENCH HOLDER		1
40	SPRING SOCKET		1	85	CROSS HEAD SCREW W/I WASHER	3/16"*3/8"	1
41	HEX. NUT	1/4"	1	86	CARRIAGE SCREW	M6*18L	1
42	KNOB		1	87	FLAT WASHER	M6*14*1T	1
43	FIXED PLATE		2	88	WING NUT	M6	1
44	HEX. NUT	M5	1				
45	TELESCOPOC SCREW	M5*20L	1				



## CRAFTEX 2-YEAR 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.