CT180
6” x 48” BELT AND 9” DISC SANDER
User Manual
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GENERAL SAFETY INSTRUCTIONS

Extreme caution should be used when operating all power tools. Know your power tool, be familiar with its operation, read through the owner's manual and practice safe usage procedures at all times.

- **ALWAYS** read and understand the user manual before operating the machine.
- **CONNECT** your machine ONLY to the matched and specific power source.
- **ALWAYS** wear safety glasses, respirators, hearing protection and safety shoes, when operating your machine.
- **DO NOT** wear loose clothing or jewelry when operating your machine.
- **A SAFE ENVIRONMENT** is important. Keep the area free of dust, dirt and other debris in the immediate vicinity of your machine.
- **BE ALERT! DO NOT** use prescription or other drugs that may affect your ability or judgment to safely use your machine.
- **DISCONNECT** the power source when changing any components of the machine.

- **router bits, shaper heads, blades, knives or making other adjustments or repairs.**
- **NEVER** leave a machine unattended while it is in running.
- **NEVER** reach over the machine when it is in operation.
- **ALWAYS** keep blades, knives and bits sharpened and properly aligned.
- **ALL OPERATIONS MUST BE** performed with the guards in place to ensure safety.
- **ALWAYS** use push sticks and feather boards to safely feed your work through the machine.
- **ALWAYS** make sure that any tools used for adjustments are removed before operating the machine.
- **ALWAYS** keep the bystanders safely away while the machine is in operation.
CT180 – 6” x 9” BELT & DISC SANDER
SPECIFIC SAFETY INSTRUCTIONS

❖ **MAKE SURE** the sander is connected to the matched and specific power source instructed in the manual.

❖ **ALL GUARDS** must be in place while operating the sander to ensure operator’s safety.

❖ **MAKE SURE** before making any adjustments, the switch is in the “OFF” position and the cord is un-plugged from the power source.

❖ **NEVER** sand more than one work piece at a time.

❖ **DO NOT** wear loose clothing while operating this sander.

❖ **KEEP YOUR WORK AREA CLEAN.** Cluttered areas and workbenches increase the chance of accident.

❖ **NEVER LEAVE** the sander unattended while it is running.

❖ **KEEP CHILDREN AWAY.** All visitors should be kept at a safe distance from the work area.

❖ **DO NOT** force the sander. It will do the job better and will be safer at the operating rate for which it is designed.

❖ **ALWAYS** wear a dust mask and safety glasses while operating the sander. The use of dust collection system will remove tiny dust particles produced by the sander that can cause serious health problems.

❖ **ALWAYS** inspect stock for staples, nails knots or any other foreign material before sanding.

❖ **ALWAYS** operate the sander in a well-ventilated area and use a dust collection system for dust removal.

❖ **ALWAYS** hold the work-piece firmly when sanding. When not using the table, i.e. sanding free-hand, grip the work piece with both hands.

❖ **USE THE STOP FENCE** when performing horizontal sanding on the belt sander.

❖ **MAINTAIN AND SERVICE** your sander regularly as instructed in the user manual.

❖ **MAKE SURE** you have read and understood all the safety instructions in the manual and you are familiar with your CT180 sander, before operating it. If you fail to do so, serious injury could occur.

**WARNING!**
The safety instructions given above can not be complete because the environment in every shop is different. Always consider safety first as it applies to your individual working conditions.
MODEL CT180 – 6” x 9” BELT & DISC SANDER

As part of the growing line of Craftex woodworking equipment, we are proud to offer the CT180 a 6” x 9” Belt and Disc Sander. By following the instructions and procedures laid out in this user manual, you will receive years of excellent service and satisfaction. The CT180 is a professional tool and like all power tools, proper care and safety procedures should be adhered to.

- Belt sander operates horizontally & vertically and can be locked at any angle in between
- Two 2.5” dust ports
- A precision aluminum table with miter gauge slot
- Motor ......................... ........1-HP, 120-V
- Disc Diameter ................... ........9”
- Work Table Size ............ ........12” x 6”
- Work Table Tilt ................. ........0° to 45°
- Belt Size ......................... ........6” Wide x 48” Long
- Belt Speed ......................... ........1020 SFPM (Standard Feet Per Minute)
- Belt Sander Tilt ................. ........0° to 90°
- Approx Weight ................... ........61 Kgs
- Warranty ............................ ........2 Years
CT180 – 6” x 9” BELT & DISC SANDER

PHYSICAL FEATURES

- Quick Release Tension Lever
- 6” x 48” Sanding Belt
- Belt Guard Cover Lock Knob
- 9” Sanding Disc
- Table Stop
- Work Table
- Miter Gauge
- Sanding Disc Guard
- Stand
- 2.5” Dust Port
- 1-HP Motor
- Backstop
- Table Tilt Scale Lock Knob
- Table Tilt Scale
- Rubber Feet
SETUP

Before setting up your machine you should read and understand the instructions given in this manual.

While setting up your machine, consider existing and anticipated needs, size of the materials to be processed and etc.. so that you don't have to move your machine for larger work-pieces.

UNPACKING

The machine is properly packaged and shipped completely in carton for safe transportation. When unpacking, carefully inspect the carton and ensure that nothing has been damaged during transit.

Open the carton and check that the machine and the parts are in good condition.

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WARNING!

CT180 is a heavy machine, do not over-exert yourself. For safe moving method use a mechanical device or get the help of an assistant.

IMPORTANT

While unpacking the CT180, if you cannot find any part of the machine, check if it is already installed on the machine. Some parts come installed on the machine due to shipping purposes.
PROPER GROUNDING

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

Make sure the cord is plugged into a properly installed and grounded power outlet. To prevent electrical hazards, have a qualified electrician ensure that the line is properly wired.

Make sure that the sander is connected to an outlet having the same configuration as the plug. If an adaptor plug is used, it must be attached to the metal screw of the receptacle.

It is strongly recommended not to use extension cords with your CT180. Always try to position your machine close to the power source so that you do not need to use extension cords.

If it is necessary to use an extension cord, make sure the extension cord does not exceed 50-feet in length and the cord is 14-gauge to prevent motor damage.

**WARNING!**

Improper connection of the equipment-grounding conductor can result in the risk of electric shock. Check with a qualified electrician if you are in doubt as to whether the outlet is properly grounded.
STAND ASSEMBLY

The CT180 comes with an open stand that needs to be assembled before installing the sander onto it.

**WARNING!**

While assembling the stand, place a piece of carton or cloth on the floor to prevent the stand legs and brackets from being scratched.

TO ASSEMBLY THE STAND:

Place the two lower long brackets parallel to each other and place the two lower short brackets on the long brackets. Align the holes on the lower short brackets with the two lower long brackets and attach them together using four bolts, four washers, four lock washers and four nuts. Hand tighten the nuts. Do not fully tighten at this time. See figure-2.

Now attach the upper longer and shorter brackets together in the same manner. Place the upper shorter brackets with square holes on the upper longer brackets, securing them using bolts, washers, lock washers and nuts. Hand tighten the nuts. Do not fully tighten at this time. See figure-3.

Now, attach the four legs to the outside of the upper brackets assembly and secure them using bolts, washers, lock washers and nuts. Hand tighten the nuts at this time.

Insert the lower brackets assembly between the four legs. Align the holes on the brackets with the holes on each leg and secure it using bolts, washers, lock washers and nuts. Hand tighten the nuts at this time.

Once all four legs are attached to the brackets, fully tighten all the buts using a wrench and make sure the stand is level from all four sides.
Place the stand upside down on the floor and attach the four rubber feet to the each leg securing it with the nuts and washers provided. See figure-5.

![Figure-5 Installing the rubber feet](image)

Place the stand up right and adjust the rubber feet making sure that the stand is level from all four sides and tighten the lock nuts on the rubber feet.

**INSTALLING THE DUST PORTS**

Install the dust ports to the back of the sanding belt frame and to the bottom of the sanding disc cover using the screws and washers provided. See figure-7.

![Figure-7 Dust ports](image)

Once the dust ports are installed, attach the coupler to the sanding belt dust port as shown in figure-8.

![Figure-8 Installing the coupler](image)

**MOUNTING THE MACHINE ON TO THE STAND**

Lift the sander up using a fork truck or any other mechanical device and align the four holes on the sander base with the holes on the four corners of the stand. Slowly, lower the machine onto the stand and secure it from underneath the stand using bolts and washers provided. See figure-6.

![Figure-6 Securing sander to the stand](image)
INSTALLING THE TABLE

The table is most commonly installed to be used with the sanding disc but it can also be installed to be used with the sanding belt when the sanding belt is in vertical position.

Loosen the two cap screws shown in figure-9 and slide the table support rod into the hole, making sure that the flat surface of the rod is facing the two cap screws. Then tighten the two set screws.

Slide the table with its bracket onto the support rod as shown in figure-9, making sure that the flat surface of the rod is facing the cap screws on the table bracket, and then tighten the cap screws. See figure-9.

![Figure-9 Table to be used with the sanding disc](image1)

Figure-9 Table to be used with the sanding disc

![Figure-10 Table to be used with the sanding belt](image2)

Figure-10 Table to be used with the sanding belt

INSTALLING THE BACKSTOP

When the sanding belt is set for horizontal sanding, the backstop should be used to prevent the work piece flying out while sanding.

Install the backstop to the sanding platen as shown in figure-11 using screw and washer provided.

![Figure-11 Installing the backstop](image3)

Figure-11 Installing the backstop

**IMPORTANT**

Make sure to remove the backstop when using the work table with the sanding belt in vertical position.
BELT TENSION HANDLE

Thread the belt tension handle into the hole on the tension bracket located inside the sanding platen. See figure-12.

Figure-12 Installing the belt tension handle

ON/OFF SWITCH

CT180 is equipped with a rocker-type power switch which starts and stops the motor and is located on the base of the sander.

The switch features a removable safety key to prevent unauthorized operations. When the sander is not in use for a long period of time, simply remove the locking key and store it in a safe place.

To start the sander, insert the safety key and shift the switch to the left.

BELT TRACKING ADJUSTMENT

Belt tracking means where the belt rides on the rollers. The belt should always be centered on both the rollers.

Your CT180 sander is shipped with the belt tracking mechanism properly adjusted. When installing a new sanding belt, you will need to perform the belt tracking adjustment to center the belt on the rollers.

TO CHECK THE SANDING BELT TRACKING:

Turn the sander ON and see if the belt wanders to the left or right. Be prepared to immediately turn OFF the machine.

If the sanding belt is not riding the rollers on a centered path, adjustment is necessary.

TO ADJUST THE SANDING BELT TRACKING:

Turn the sander ON and turn it OFF quickly.

Loosen the lock nut on the tracking knob.

Turn the tracking knob clockwise to move the belt towards the tracking knob and counter-clockwise to move the belt away.
Now, turn the sander ON and adjust the belt tracking with the sander ON.

Once the sanding belt is centered on both pulleys, retighten the lock nut.

Turn OFF the sander.

**DUST COLLECTION**

CT180 features two 2-1/2” dust ports to connect to a dust collector.

When connecting to a dust collector, use a proper sized hose and make sure all the connections are sealed tightly.

![Figure-15 Dust ports](image)

**TEST RUN**

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

Make sure you have done belt tracking adjustment before performing the test run so that the belt does not come off the rollers or jam against the sander during the test run.

Remove all the tools and objects used for the machine set up and installation before the test run.

Tie back loose clothing and long hair to prevent it from getting caught in the moving sanding belt when you start the sander.

Make sure you have read and understood all the safety instructions given in this manual.

Connect the cord to the power source and turn ON the sander to verify that the machine is working properly.

During the test run if there is any unusual noise coming from the machine or the machine vibrates excessively, stop the machine immediately and disconnect the cord from the power source. Investigate to find out the problem with your machine. See page-20 for TROUBLESHOOTING.

Remove the safety key from the ON/OFF switch and try to turn the sander ON. The sander should know start with the safety key removed.

If the machine starts without the safety key, immediately stop the machine. Do not operate the machine. Check with our customer service.

**WARNING!**

*The fine dust particles produced by the woodworking machines can go inside your lungs and cause serious respiratory problems. Make sure to wear a dust mask and connect the machine to a proper dust collection system while operation.*
WORK-PIECE INSPECTION
CT180 is designed to sand wood only. Do not use this machine to sand metals, glass or stone etc.

Before sanding, make sure to inspect the work-piece for nails, staples, small pieces of stone or metal and any other foreign objects.

Sanding the work-piece with this kind of objects can tear the sanding paper. For a safe sanding always inspect your work-piece carefully before cutting and wear eye protection.

Some woods with excessive finish or glue load up the sand paper and reduce its usefulness. Use an abrasive cleaner to clean the sanding paper.

ADJUSTING THE TABLE TILT
The work table can be tilted from 0° to 45° by loosening the lock knob shown in figure-16 and tilting the table to the desired angle as indicated on the tilt scale and re-tighten the lock knob.

HORIZONTAL/VERTICAL SANDING
The belt sander can be positioned vertically or horizontally and it can also be positioned at any angle in between, depending on your sanding needs.

TO ADJUST THE SANDING BELT ANGLE:
Make sure the switch is in the OFF position and the cord is disconnected from the power source.

Loosen the two lock nuts shown in figure-17 and slowly lift / lower the belt sander to the desired angle.

Re-tighten the lock nuts securing the belt sander in position.

To position the belt sander horizontally, lower the belt sander completely until it sits on the stop bolt shown in figure-18.
When using the belt sander in horizontal position, make sure to install the backstop to the sanding frame, so that the work-piece does not fly out. See figure-19.

ADJUSTING THE MITER GAUGE

The miter gauge is used to hold and support the work-piece at a desired angle during sanding operation. The miter gauge body angle can be adjusted.

TO ADJUST THE MITER GAUGE:

Loosen the lock knob shown in figure-18 and reposition the miter gauge to the desired angle.

Re-tighten the lock knob.

To set the miter gauge square with the disc, use a combination square. If the angle pointer needs to be repositioned, loosen pointer screw and readjust. See figure-20.
SANDING TIPS

When sanding a flat surface, firmly hold the work-piece with both hands, keeping your fingers away from the sanding belt.

External curves must be sanded on the flat portion of the sanding belt. Internal curves must be sanded on the roller portion of the sanding belt.

Make sure to move the work-piece equally along the sanding belt and use the miter gauge for precise work.

To sand a perfectly straight edge, make sure the belt table is perfectly square with the sanding belt.

The sanding disc turns much faster and removes more of the external edge. When sanding small flat surfaces or convex edges, disc sanding is the best way to achieve good results.

INSTALLING / REMOVING THE SANDING DISC

The CT180 comes with a 9" PSA (pressure sensitive adhesive backed disc).

WARNING!

Make sure the switch is in the OFF position and the cord is disconnected from the power source when installing/removing parts, adjusting and servicing the machine. Failure to do so may result in serious personal injuries.

TO INSTALL/REMOVE THE DISC FOLLOW THE INSTRUCTIONS BELOW.

Remove the work table (if installed).

Remove the screws securing the sanding disc cover and remove the cover. See figure-21.

Remove the old sanding disc by peeling it off from the plate.

Clean the plate before installing the new sanding disc and make sure there is no dust or debris on its surface.

You may experience poor and unsatisfactory results, or the sanding disc may loose contact with the plate during operation if there is dust or debris on the plate surface.

Peel the paper at the back of the new sanding disc and install the sanding disc on to the plate. Make sure the sanding disc is centered and adheres completely flat against the plate.
INSTALLING / REMOVING THE SANDING BELT

The CT180 comes with a 6” x 48” sanding belt.

TO INSTALL/REMOVE THE SANDING BELT:

Make sure the switch is in the OFF position and the cord is disconnected from the power source.

Remove the belt guard by removing the three lock knobs shown in figure-22.

![Figure-22 Removing the three lock knobs securing the belt guard](image)

Remove the dust port by removing the screws and washers securing the dust port to the sander frame.

Turn the belt tension handle to the left releasing tension on the belt. See figure-23.

![Figure-23 Loosening the tension on the belt](image)

Remove the old belt and install the new sanding belt onto the rollers. Make sure the arrow on the back of the sanding belt is pointing towards the sanding disc.

Once the belt is installed onto the rollers, turn the belt tension lever back to the right to tension the belt.

The sanding belt should be centered on both rollers. Before installing the removed parts of the sander, the belt tracking adjustment should be performed to check and adjust the belt. See page-12 for details.
MAINTENANCE

During the lifetime of your machine, you will need to practice some regular maintenance to keep your sander in peak operating condition.

**WARNING!**

*Make sure the machine is turned OFF and the cord is disconnected from the power source before installing/removing and servicing any component of the machine.*

The sander should be checked daily for loose mounting bolts, damaged or worn belt or disc, damaged cord or plug, worn or damaged wires and any other unsafe condition before use.

Clean the machine daily after use and when the machine is not in use turn the switch off and remove the switch key.

A build-up of dust in the motor can cause motor damage. Periodic cleaning of the motor is not only recommended, but also mandatory for normal sanding performance.

All bearings are permanently lubricated and require no further lubrication.

The moisture from the wood dust remaining on the table surface can cause rust. The table and other un-painting surfaces of the machine should be cleaned and wiped after every use to make sure that there is no moisture against bare metal surface.

V-BELT TENSION & REPLACEMENT

The V-belt is pre-installed and tension at the factory. It stretches with use and should be checked regularly for proper tension and belt condition.

**TO REPLACE AND TENSION THE V-BELT:**

Make sure the switch is in the OFF position and disconnect the cord from the power source.

Remove the work table if it is installed to the sanding disc.

Remove the sanding disc cover.

Remove the sanding disc, remove the screw securing the sanding disc plate and remove the plate.

**WARNING!**

Make sure the machine is turned OFF and the cord is disconnected from the power source before installing/removing and servicing any component of the machine.

Loosen the four motor mounting lock nuts securing the motor. (two other lock nuts not shown in figure-25)
At this point the V-belt should be loose enough to slip it off the pulleys.

Replace the V-belt with a new one and install it on the pulleys.

Re-install the sanding disc plate and secure it with the screw removed.

Tension the V-belt by moving the motor away from the sanding disc and tighten the motor mounting lock nuts.

Push the center of the V-belt with your finger as shown in figure-26 to check the tension on the drive belt. The belt is correctly tensioned when there is approximately 1/4” deflection when it is pushed with moderate pressure.

If the deflection is not approximately 1/4” when you push with moderate pressure, loosen the motor mounting nuts and re-tension the belt.

If the deflection is approximately 1/4”, re-install the sanding plate, sanding disc, disc guard and the table.
## TROUBLESHOOTING

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<th>PROBLEM</th>
<th>CAUSES</th>
<th>SOLUTION</th>
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| Motor does not run when power switch is turned ON. | 1. Switch is burnt out.  
  2. Connection wire is loose or damaged. | 1. Replace the switch.  
  2. Tighten or replace the wire. |
| Motor does not run at full speed.    | 1. Power voltage is too low.  
  2. Motor is damaged. | 1. Test voltage.  
  2. Check and repair motor. |
| Machine does not reach full power.   | 1. Incorrect power wiring  
  2. Overload | 1. Replace with the correct wire size.  
  2. Reduce sanding load. |
| Motor over heating                   | 1. Motor is dirty.  
  2. Check and repair motor. |
## CT180 PARTS LIST

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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 repair.