# MODEL CX509
# 18" OPEN END DRUM SANDER
## USER MANUAL




Version 1.0

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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 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.
- **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.

# CX509 - 18" OPEN END DRUM SANDER
# SPECIFIC SAFETY INSTRUCTIONS

- **MAKE SURE** the sander is connected to the matched and specific power source instructed in the manual.
- **ALL THE GUARDS** must be in place while operating the sander to ensure 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 on this sander.
- **DO NOT** wear loose clothing and jewelry 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 tiny dust particles produced by the sander 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 whenever possible.
- **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.
- **NEVER STAND DIRECTLY** inline with the either in-feed or out-feed tables. Stand on the side.
- **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 CX509 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*.**

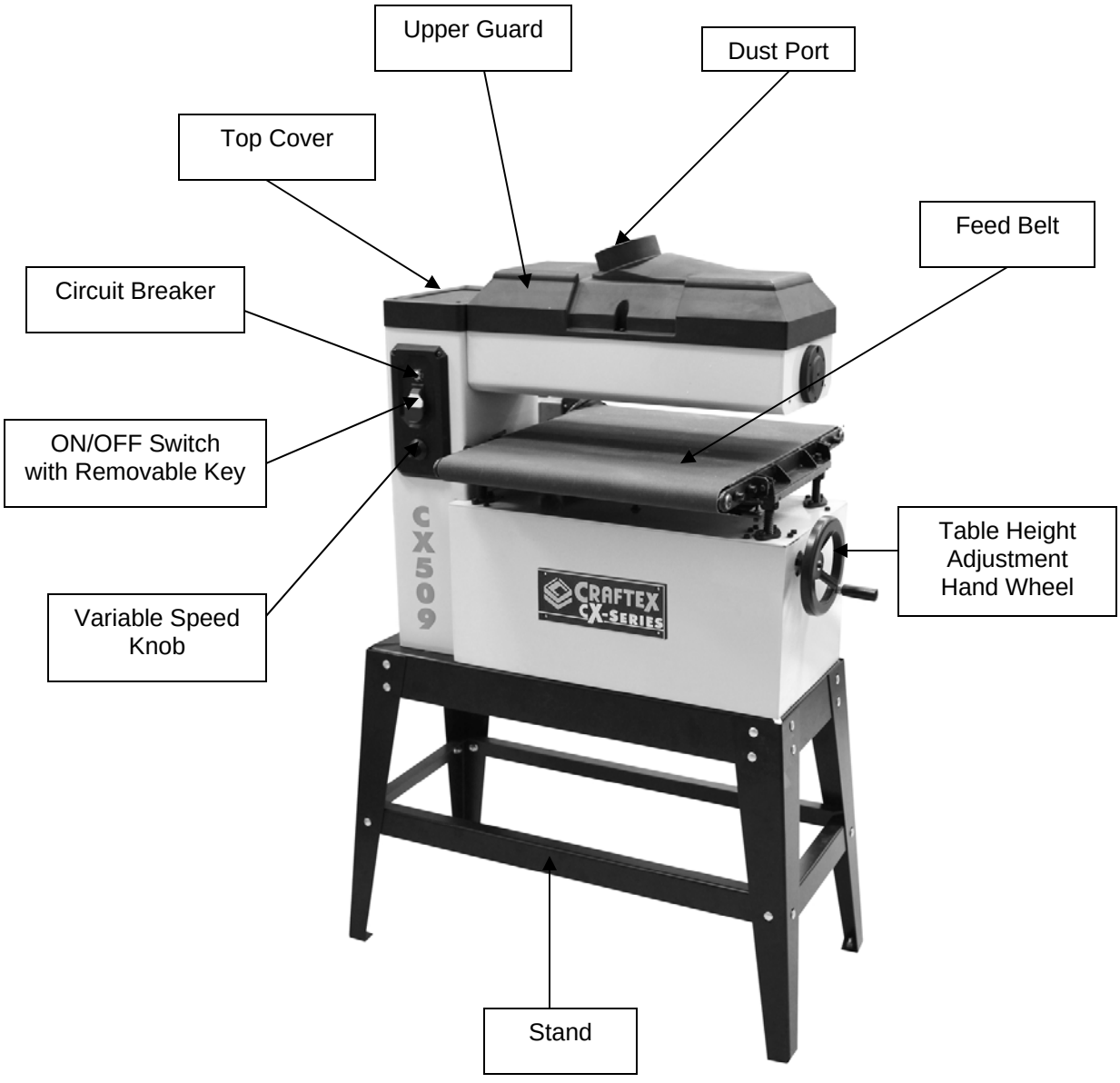
# CX509 - 18" SANDER FEATURES

## MODEL CX509 – 18" OPEN END DRUM SANDER

As part of the growing line of Craftex CX-Series woodworking equipment, we are proud to offer CX509 a 18" Open End Drum Sander. By following the instructions and procedures laid out in this user manual, you will receive years of excellent service and satisfaction. The CX509 is a professional tool and like all power tools, proper care and safety procedures should be adhered to.

- Motor ..... 1.5HP 120Volt, 60-Hz, Single Phase
- Conveyor Belt Feed Motor..... 6/49HP
- Maximum Sanding Width..... 18"
- Maximum Work-piece Height..... 4-1/2"
- Maximum Sanding Depth ..... 1/64"
- Feed Speed..... 0 - 12 FPM
- Number of Sanding Drums ..... One
- Drum Speed ..... Low 2,600 RPM, High 3,400 RPM
- Dust Hood Outlet..... One 4"
- Dimensions..... 41-1/2" x 22-1/2" x 50"
- Weight ..... 90 Kg
- Warranty..... 3 Years

# CX509 – 18" OPEN END DRUM SANDER
# PHYSICAL FEATURES



# UNPACKING

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

# SETUP

When setting up your machine, you will want to find an ideal spot where your sander will most likely be positioned most of the time. Consider your complete work environment as well as working comfortable with the sander before placing your machine in the ideal spot.

> ***WARNING!***
> *The CX509 is a heavy machine. Do not over-exert yourself. Use a fork truck or a lifting hook when lifting the machine.*

# PROPER GROUNDING

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

CX509 is for use on a normal 110 volt circuit. Make sure that the machine 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. To prevent electrical hazards, have a qualified electrician ensure that the line is properly wired.

The sander should be wired with a plug having 3 prongs to fit a 3 prong grounded receptacle as shown in figure-1. Do not remove the grounding prong to fit it into a 2 pronged outlet.

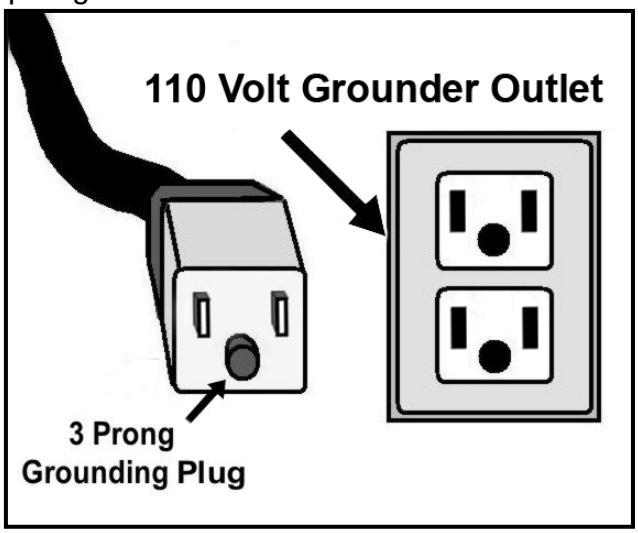



Figure-1 110-Volts outlet for CX509

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

It is strongly recommended not to use extension cords with your CX509. Always try to position your machine close to the power source so that you do not need to use extension cords.

In case if you really find it 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.

# ASSEMBLY

It is recommended to assemble the stand upside down.

Mount the top and bottom long brackets to one of the legs as shown in figure-2 and secure them using bolts and flange nuts provided. Finger tighten for now.

Figure-2 Attaching top and bottom long brackets to the stand leg

Attach the second leg to the top and bottom long brackets and secure it with two bolts and flange nuts. Finger tighten for now.

Attach the top and bottom short brackets to the left and right side of the stand leg assembly and secure them using bolts and flange nuts provided. See figure-4. Finger tighten for now.

Assemble the rest of the stand in the same manner using nuts and bolts provided.

Figure-3 Stand assembly completed

Turn the stand upright and make sure all the legs are evenly positioned. Now, tighten all the nuts and bolts properly.

Get the help of a friend or use a fork truck and lift the sander, align the mounting holes and place the sander onto the stand. Secure it using hex bolts, washers and nuts provided.


Figure-4 Securing the sander to stand

Slide the hand wheel onto the shaft, making sure the shaft pin inserts into the slot in the hand wheel. Secure it using a cap screw provided. See figure-5.

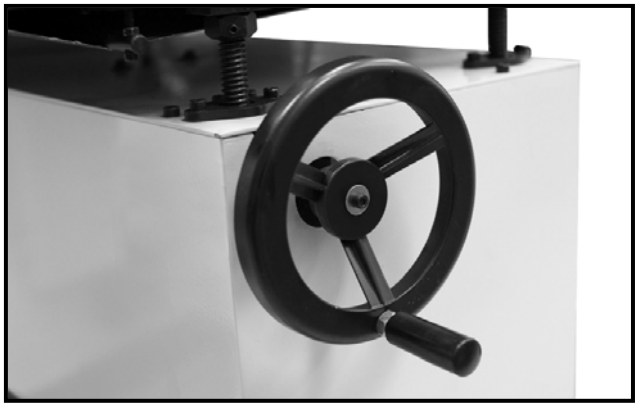


Figure-5 Installing the table height hand wheel

# TEST RUN

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

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 from the power source. Investigate to find out the problem with your machine.

> ***WARNING!***
> *Before the test run make sure the switch is in the OFF position and the cord is disconnected from the power source. Failure to do so, could result in serious personal injury.*

**TO TEST RUN THE CX509:**

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

2. Remove all the tools and objects from the machine, used during set up and assembly.

3. Make sure the sanding drum is safely above the conveyor belt so that it will not make contact when running.

4. Connect the power cord to the matched outlet and push the ON button.

5. Let the sander run for a minute and then turn the switch OFF.

# ADJUSTMENTS

The adjustments below have already been performed at the factory prior to shipping. However, during shipping some parts might get out of adjustment, and we recommend you to at least verify the following adjustments to ensure the best possible results from your sander.

- ✓ **Feed Belt Tensioning and Tracking (page-14)**

- ✓ **V-Belt Tensioning (page-16)**

# WORK-PIECE INSPECTION

Before cutting the work-piece, make sure to inspect it for nails, staples, small pieces of stone or metal and any other object which is dangerous to come in contact with the sanding paper / sanding drum.

If the wood contains any of these objects and it comes in contact with the sanding drum, the object might fly and hit the operator or seriously damage the sander. For a safe cutting method always inspect your work-piece carefully before sanding and always wear eye protection.

Some woods with excessive twisting or wrapping are un-stable while sanding. This situation can be dangerous, because during operation the work-piece can move unexpectedly which can either damage the machine or hurt the operator.

If the wood is slightly cupped, make sure the cupped face of the wood is held against the conveyor belt. If the bowled side of the work-piece is not held against the conveyor belt, there will be a great possibility that the work-piece move unexpectedly while sanding, and cause kickback or injury to the operator.

Some stock with large knots can damage the sanding paper / sanding drum and wet stock will give a poor result.

***WARNING!***

*If the work-piece is excessively wrapped, it is dangerous to cut because it is unstable and will cause kick back, damaging the machine and causing injury to the operator. Do not cut these work-piece with excessive wrapping.*

# DEPTH OF CUT

One full turn of the height adjustment hand wheel anti-clockwise, will give 1/64" depth of cut. However the correct depth of cut when surface sanding depends on many variables, such as the hardness of the wood, the width of the work-piece and the feed rate.


Figure-6 Table height adjustment hand wheel

To set the depth of cut:

Rotate the table height hand wheel and allow a gap between the work-piece and the sanding drum.

Turn ON the feed belt and the sanding drum and feed the work-piece into the sander.

Raise the feed belt slowly until the work-piece makes light contact with the sanding drums.

After a few passes, turn the hand wheel to a 1/4 turn for a 1/64" depth of cut (maximum depth of cut).

## ON/OFF SWITCH

The CX509 features an ON/OFF switch with a removable key. The key can be removed to prevent the sander from unauthorized use.

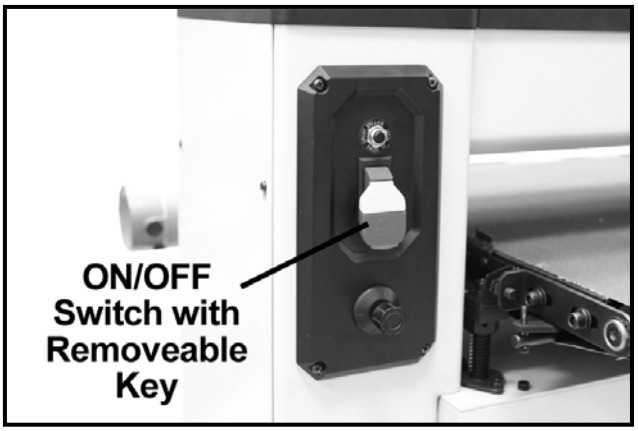



Figure-7 ON/ OFF switch with removable key

***WARNING!***

*Do not adjust the variable speed knob while the conveyor motor is OFF. Failure to do so could result in damaging the V-belt and adjusting mechanism.*

## VARIABLE SPEED

The CX509 features a variable speed knob which allows you to increase the feed rate from 2-12 FPM. The correct speed to use depends on the type of wood being used.

A slower feed rate will provide a smoother result but has the risk of burning the wood while a faster feed rate removes the material faster but has the risk of overloading the motor or damaging the sanding paper.

We recommend to run a few test runs with different speeds before sanding your actual work-piece.

**TO ADJUST THE FEED BELT SPEED:**

Turn ON the feed belt.

Rotate the variable speed knob to increase or decrease the feed speed.

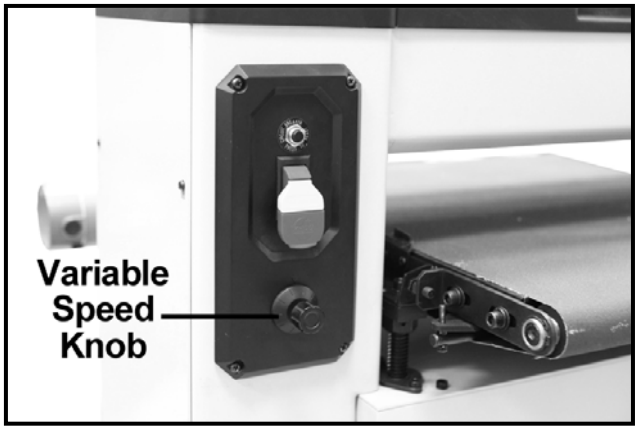



Figure-8 Variable speed knob

***WARNING!***

*Do not adjust the variable speed knob while the conveyor motor is OFF. Failure to do so could result in damaging the V-belt and adjusting mechanism.*

# SANDING BELT REPLACEMENT

The CX509 is designed for a 89-1/8" x 3" sanding belt.

**TO CHANGE THE SANDING BELT:**

Disconnect the machine from the power source.

Lift the upper guard and remove the three cap screws that secure the chip deflector to the sander and remove the deflector.

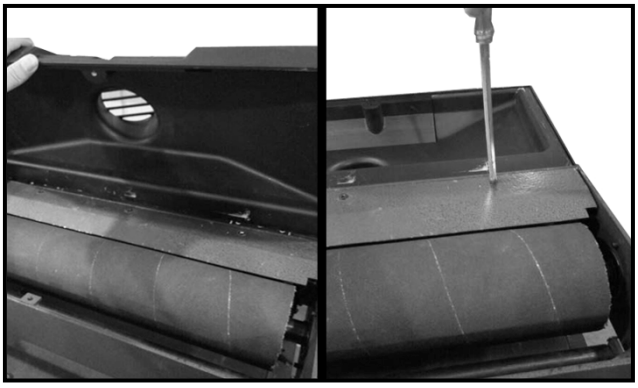


Figure-9 Accessing the sanding drum

The sanding belt is secured to the both ends of the sanding drum by spring loaded clamps.

Reach under the right end of the drum. Push the clamp forward and pull the tab of the sanding belt out of the right drum slot.

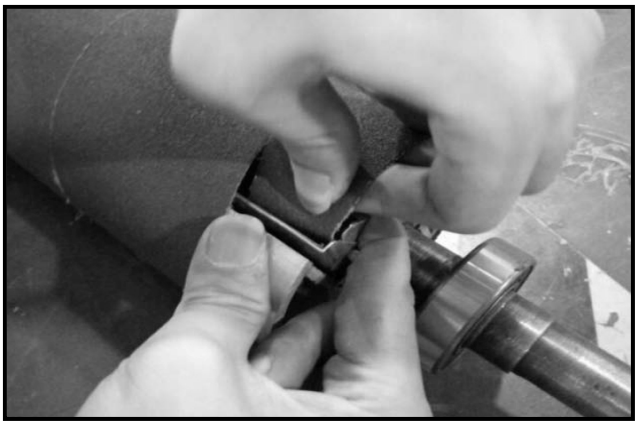


Figure-10 Clamp position

Remove the sanding belt from the drum sander until you reach the clamping device on the left side of the drum sander. Push the clamp forward and release its grip on the sanding belt and remove the sanding belt.

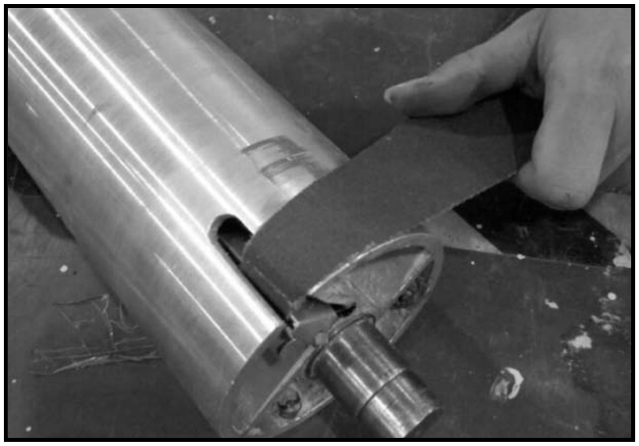


Figure-11 Removing the sanding belt

Lift up on the clamping device on the drum sander and insert the end of the sanding belt so that it fills as much of the slot as possible and is aligned with the left side of the slot. Release the clamping device to hold the belt in position.

Hold the sanding belt with one hand to keep tension on the belt and roll away the drum from you with the other hand to wrap the belt onto the drum until you reach the clamping device on the drum.

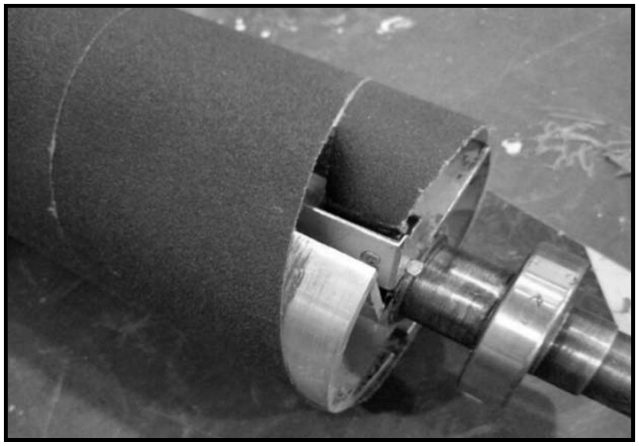


Figure-12 New sanding belt installed

Move the clamping device forward and slide in the end of the sanding belt. Make sure the belt is firmly secured.

Reinstall the chip deflector and close the upper guard.

> ***WARNING!***
> *Do not overlap when wrapping the belt onto the sanding drum. A minimum 1/8" gap between the edges may be necessary. Always make sure the belt is wrapped tightly onto the drum and is secured properly on both ends. If the sanding belt comes loose during the operation, it could cause kickback.*

# SANDING OPERATION

Make sure the switch is OFF and sander is disconnected from the power source.

Make sure the correct sandpaper grit is installed on the drum.

Inspect the work-piece and make sure it is free of nails, pieces of stone or any other foreign material which can make the sanding operation unsafe. See page-10 for details.

Place the work-piece on the conveyor belt, under the sanding drum.

Turn the height adjustment hand wheel and lower the sanding drum until it matches the greatest height of the work-piece. The first pass will take off just the high spots of the work-piece.

Remove the work-piece from the conveyor belt and turn the sander ON.

Adjust the conveyor feed rate and stand to the left side of the conveyor belt to avoid any kickback.

Place the work-piece on the conveyor belt and allow the belt to feed it under the sanding drum.

When the work-piece is fed half way under the sanding drum, step to the rear of the sander and support the work-piece as it leaves the sanding drum.

Rotate the work-piece 180° and feed the work-piece into the sander again.

Increase the depth of cut by the correct amount and repeat the above steps with progressively finer grits until the desired result is achieved.

Make sure to reduce the feed rate as the grit and desired finish change.

Turn the switch OFF when the operation is complete.

> ***WARNING!***
> *Do not push the work-piece while sanding. This will overload the motor and repeatedly doing so will damage the motor.*

# FEED BELT TENSION & TRACKING

The feed belt tension and tracking must be properly adjusted to ensure that the work-piece correctly and safely passes underneath the sanding drum.

Occasional adjustment of the feed belt tracking may be required due to belt stretching, normal wear and tear, and improper tensioning. Ideally, the feed belt should track in the center area of the table.

If the conveyor belt slips on the rollers then the belt tension needs to be increased.

If the conveyor belt moves to one side or the other when it is running, then the belt tracking needs to be adjusted.

**TO ADJUST FEED BELT TRACKING:**

Turn the sander ON and carefully watch if the feed belt tracks to one side or the other. If the belt moves to one side, immediately stop the machine and adjust the belt tracking.

Loosen the lock nut and the tracking screw on the side that the feed belt tracks towards.

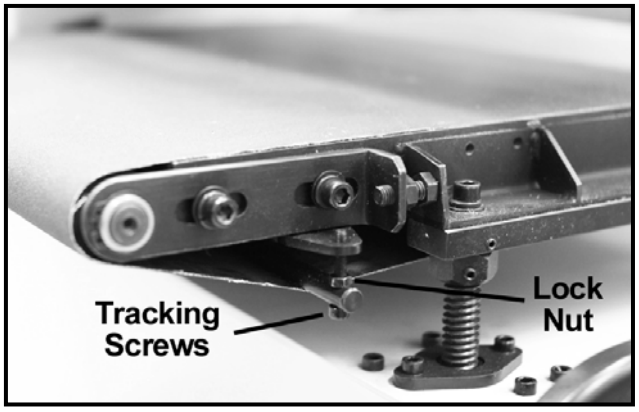



Figure-13 Feed belt tracking controls

Loosen the tracking adjustment screw until the feed belt tracks straight.

Tighten the lock nuts.

**TO TENSION THE FEED BELT:**

Disconnect the cord from the power source.

Make sure the conveyor belt is tracking on the center of the rollers.

Loosen the feed roller lock screws on both sides of the table. See figure-14.

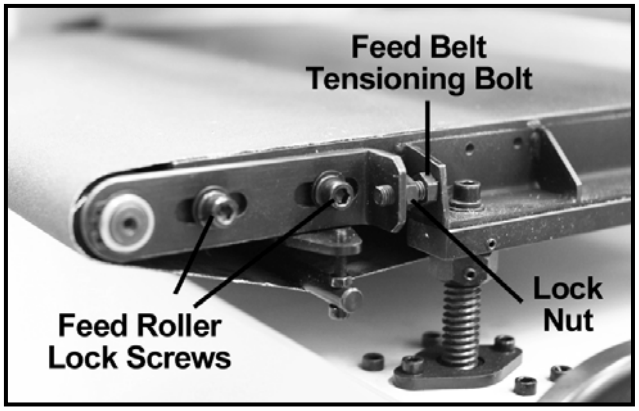



Figure-14 Feed belt tensioning controls

Loosen the lock nuts and turn both of the feed belt tensioning bolts one full turn at a

time until the feed belt does not slip on the rollers anymore. See figure-12.

Once the feed belt is tensioned properly, tighten the feed roller lock screws and feed belt tensioning lock nuts.

> ***WARNING!***
> *Do not over-tension on the feed belt. Over-tensioning the feed belt may cause premature wear, and strain on the motor.*

# FEED BELT REPLACEMENT

The conveyor belt on the CX507 will get old with use and will need a replacement.

> ***WARNING!***
> *Make sure the machine's power switch is OFF and the cord is disconnected from the power source when installing / removing any part or servicing the sander.*

**TO REPLACE THE BELT:**

Make sure the cord is disconnected from the power source.

Raise the sanding drum to its highest position using the table height adjustment hand wheel.

Loosen the lock nuts on the feed belt tensioning bolts on both sides of the table and turn the bolts to release tension on the feed belt.

Remove the cap screws shown in figure-13 and loosen the corresponding cap screws on the inside edge.

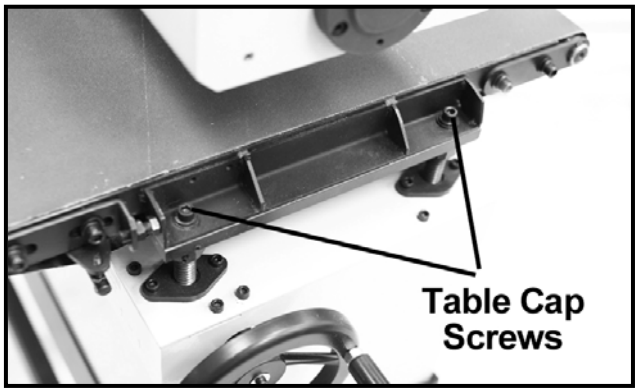



Figure-15 Table cap screws

Get the help of an assistant and lift the outside edge of the table, then slide the feed belt off.

Clean any dust or debris on the rollers and slide the new feed belt on.

Re-install and tighten the cap screws. Tighten the feed belt adjustment bolts equally and tension and track the feed belt properly. See page-14.

# V-BELT REPLACEMENT & TENSIONING

The V-belt must be inspected once a month for any damages. If you find the belt is damaged or cracked, stop operating the sander and replace the V-belt.

> ***WARNING!***
> *Make sure the machine's power switch is OFF and the cord is disconnected from the power source when installing / removing any part or servicing the sander.*

**TO REPLACE THE V-BELT:**

Remove the four cap screw securing the top pulley cover to the sander frame and remove the cover.

Remove the four screws securing the side cover to the sander and remove the cover to access the V-belt.

Now, loosen the two cap screws securing the motor shown in figure-16. This will loosen the tension on the V-belt.

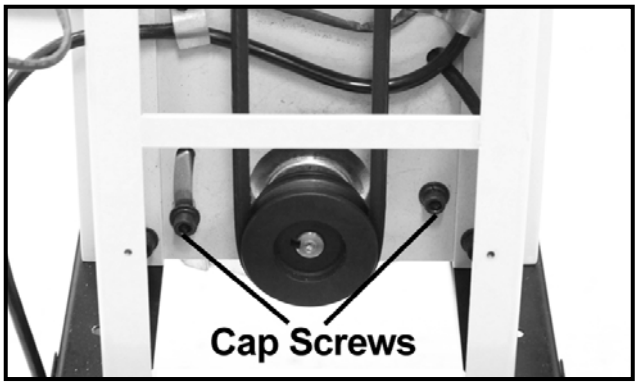



Figure-16 Loosening the cap screws

Remove the old V-belt off the pulleys and install the new belt.

**TO TENSION THE V-BELT:**

Push the motor pulley down with one hand and retighten the cap screws to secure the motor pulley in position.

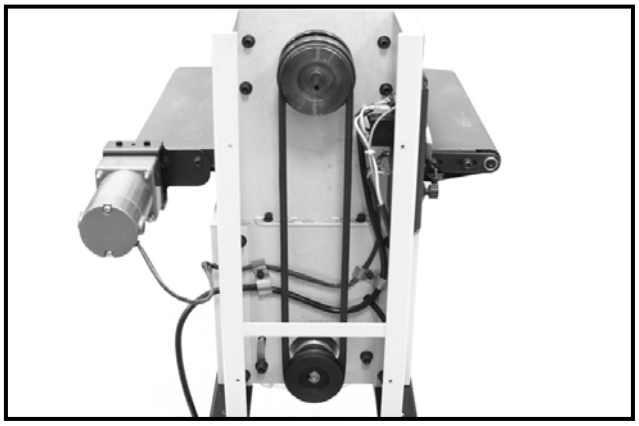


Figure-17 New V-belt installed onto the pulleys

Reinstall the side cover and top cover and tighten the screws.

# MAINTENANCE

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

> ***WARNING!***
> *Make sure the machine's power switch is OFF and the cord is disconnected from the power source when installing / removing any part or servicing the sander.*

Check your machine daily for the following before use:

- Loose mounting bolts
- Damaged or worn or loaded sandpaper
- Worn or damaged conveyor belt
- Damaged or worn power cord
- Any other unsafe condition

# CLEANING

The moisture from the wood dust remaining on the conveyor belt and other parts of the machine. The table and other unpainted surfaces of the machine should be cleaned and wiped after every use to make sure there is no moisture against bare metal surfaces.

When the sandpaper on the CX509 becomes loaded with built-up sawdust, run a sandpaper cleaner through the sander a couple of times until the sandpaper is clean.

# LUBRICATION

The height adjustment screw shafts, located on either end of the machine must be well lubricated with grease at all times.

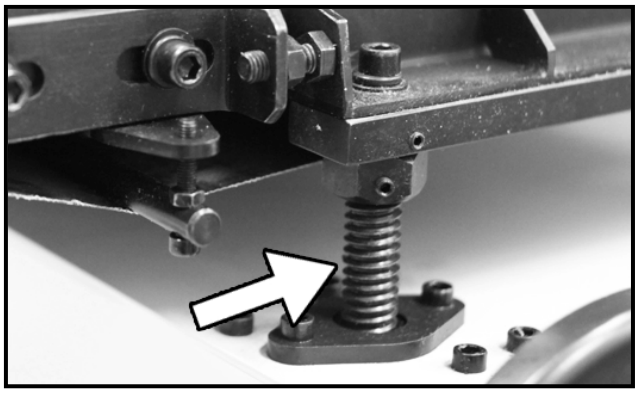


Figure-17 Lubricate here

Oil the bushings on each end of the feed belt rollers. See figure-18.

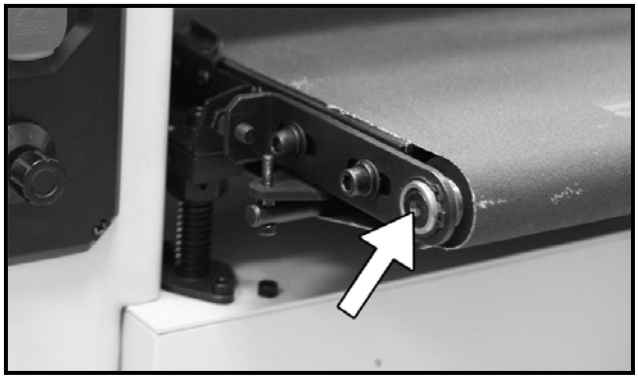
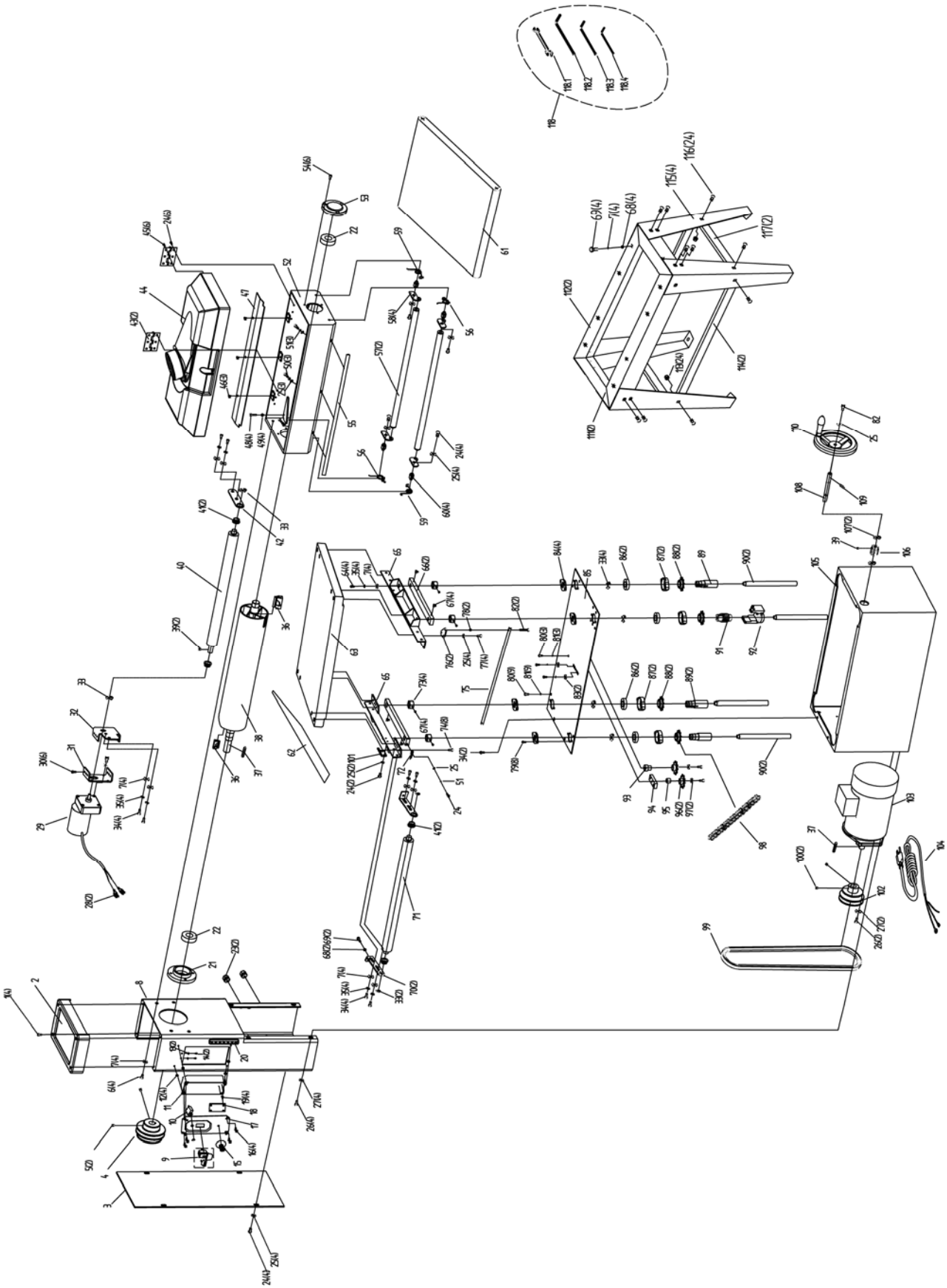


Figure-18 Lubricate here

# PARTS DIAGRAM



# PARTS LIST

| No. | Description | Specification | Qty |
|---|---|---|---|
| 1 | HEX SOCKET HEAD SCREW | 5x16 | 4 |
| 2 | FIXED COVER | | 1 |
| 3 | SIDEPOD PLATE | | 1 |
| 4 | DRIVEN PULLEY | | 1 |
| 5 | HEXAGON SOCKET SET SCREW | 6x10 | 2 |
| 6 | HEX SOCKET HEAD SCREW | 8x16 | 4 |
| 7 | FLAT WASHER | Φ8 | 20 |
| 8 | SIDEPOD | | 1 |
| 9 | SWITCH | HY18-4P | 1 |
| 10 | SWITCH RESET | L1/25A | 1 |
| 11 | DUST COVER | | 1 |
| 12 | HEXAGON NUT | M5 | 4 |
| 13 | EXTERNAL TOOTH WASHER | Φ5 | 2 |
| 14 | CROSS RECESSED PAN HEAD COMBINATION SCREW | 5×8 | 2 |
| 15 | SPEED KNOB | | 1 |
| 16 | CROSS RECESSED PAN HEAD SCREW | 5x10 | 4 |
| 17 | TURNMETER COVER | | 1 |
| 18 | SPEED PLATE | 120V | 1 |
| 19 | CROSS RECESSED PAN HEAD TAPPING SCREW | ST3.5X8 | 4 |
| 20 | RULER | 180x26.55mm | 1 |
| 21 | BEARING COVER | | 1 |
| 22 | BEARING | 6205-2Z | 2 |
| 23 | WIRE FIXED HEAD | MA16-10B | 2 |
| 24 | CROSS RECESSED PAN HEAD SCREW | 5x8 | 17 |
| 25 | FLAT WASHER | Φ5 | 19 |
| 26 | HEX SOCKET HEAD SCREW | 10x25 | 6 |
| 27 | FLAT WASHER | Φ10 | 6 |
| 28 | STRAIGHT TERMINAL | 170213-2 | 2 |
| 29 | SMALL MOTOR | | 1 |
| 30 | HEX SOCKET HEAD SCREW | 6x16 | 6 |
| 31 | SUPPORT PLATE1 | | 1 |
| 32 | SUPPORT PLATE2 | | 1 |
| 33 | SHAFT RING | Φ20 | 8 |
| 34 | HEX SOCKET HEAD SCREW | 8x12 | 10 |
| 35 | ELASTIC WASHER | Φ8 | 12 |
| 36 | ROLLER CHIP | | 2 |
| 37 | KEY | A6x40 | 2 |

| No. | Description | Specification | Qty |
|---|---|---|---|
| 38 | DRUM GROUP | | 1 |
| 39 | HEXAGON SOCKET SET SCREW | 5x5 | 3 |
| 40 | FEED BEIT ROLLER | | 1 |
| 41 | BUSHING | | 4 |
| 42 | FRONT BRACKET | | 1 |
| 43 | HINGE | | 2 |
| 44 | HEAD COVER | | 1 |
| 45 | CROSS RECESSED PAN HEAD TAPPING SCREW | ST4.8x10 | 6 |
| 46 | CROSS RECESSED COUNTERSUNK HEAD SCREW | 6x10 | 3 |
| 47 | BLOCKING CHIP PLATE | | 1 |
| 48 | HEX SOCKET HEAD SCREW | 6x20 | 4 |
| 49 | HEX NUT | M6 | 4 |
| 50 | HEX SOCKET HEAD SCREW | 5x8 | 3 |
| 51 | ELASTIC WASHER | Φ5 | 4 |
| 52 | ROLLER SUPPORT | | 1 |
| 53 | BEARING COVER | | 1 |
| 54 | HEX SOCKET HEAD SCREW | 6x12 | 6 |
| 55 | ADJUSTING EXTRUDED ALUMINUM | | 1 |
| 56 | LEFT TORSION SPRING | | 2 |
| 57 | ROLLER | | 2 |
| 58 | ROLLER RETAINER PLATE | | 4 |
| 59 | RIGHT TORSION SPRING | | 2 |
| 60 | ROLLER PIN | | 4 |
| 61 | CONVEYOR BELT | 1135*457.2 | 1 |
| 62 | SANDPAPER | 2265*77 | 1 |
| 63 | CONVEYOR TABLE | | 1 |
| 64 | HEX SOCKET HEAD SCREW | 8x25 | 4 |
| 65 | CONVEYOR BRACKET | | 2 |
| 66 | BOLT BLOCK | | 2 |
| 67 | HEXAGON SOCKET SET SCREW | 5x8 | 8 |
| 68 | HEX NUT | M8 | 6 |
| 69 | HEX HEAD SCREW | 8x20 | 6 |
| 70 | REAR BRACKET | | 2 |
| 71 | FEED BELT ROLLER | | 1 |
| 72 | POINTER | | 1 |
| 73 | LOCK NUT | | 4 |
| 74 | CROSS RECESSED COUNTERSUNK HEAD SCREW | 6x30 | 8 |
| 75 | ADJUST ROD | | 1 |
| 76 | ADJUSTING RETAINER PLATE | | 2 |

| No. | Description | Specification | Qty |
|---|---|---|---|
| 77 | HEX SOCKET HEAD SCREW | 5x12 | 4 |
| 78 | HEX NUT | M5 | 2 |
| 79 | HEX SOCKET HEAD SCREW | 6x15 | 8 |
| 80 | HEX SOCKET HEAD SCREW | 6x12 | 12 |
| 81 | ELASTIC WASHER | Φ6 | 12 |
| 82 | HEX SOCKET HEAD SCREW | 5x35 | 3 |
| 83 | ENLARGE FLAT WASHER | Φ6×Φ16×1.5t | 2 |
| 84 | DUST COVER | | 4 |
| 85 | UNDERCASING PLATE | | 1 |
| 86 | BEARING | 61904-2Z | 4 |
| 87 | BEARING BLOCK | | 4 |
| 88 | SPROCKET | | 4 |
| 89 | ELEVATING NUT | | 3 |
| 90 | ELEVATING SCREW | | 4 |
| 91 | HELICAL-CUT GEAR | | 1 |
| 92 | BRACKET | | 1 |
| 93 | INTERVAL BLOCK | | 1 |
| 94 | ADJUST BLOCK | | 1 |
| 95 | BUSHING | | 1 |
| 96 | SPROCKET | | 2 |
| 97 | FLAT WASHER | Φ6 | 2 |
| 98 | CHAIN | 410-132 | 1 |
| 99 | BELT | A40 | 1 |
| 100 | HEXAGON SOCKET SET SCREW | 5x8 | 2 |
| 101 | GUIDE PLATE | | 1 |
| 102 | MAIN PULLEY | | 1 |
| 103 | MOTOR | 1-1/2HP，120V，60HZ | 1 |
| 104 | POWER CORD | UL/14AWG×3C×2.61m | 1 |
| 105 | UNDERCASING | | 1 |
| 106 | WORM | | 1 |
| 107 | SHAFT RING | Φ12 | 2 |
| 108 | TRANSMISSION SHAFT | | 1 |
| 109 | SPRING PIN | 3x16 | 1 |
| 110 | HAND WHEEL | | 1 |
| 111 | UPPER SHORT BRACKET | | 2 |
| 112 | UPPER LONG BRACKET | | 2 |
| 113 | FLANGE NUT | M8 | 24 |
| 114 | LOWER LONG BRACKET | | 2 |
| 115 | STAND | | 4 |

| No. | Description | Specification | Qty |
|---|---|---|---|
| 116 | CARRIAGE BOLT | 8x16 | 24 |
| 117 | LOWER SHORT BRACKET | | 2 |
| 118 | HEX WRENCH SET | | 1 |
| 118.1 | OPEN END WRENCH | 8x12 | 1 |
| 118.2 | WRENCH | M6×90×40 | 1 |
| 118.3 | WRENCH | M5×90×40 | 1 |
| 118.4 | WRENCH | M4×65×23 | 1 |

# *WARRANTY*

## CRAFTEX 3 YEARS LIMITED WARRANTY

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