

## **CX603** 1-1/2 HP KNEE MILLING MACHINE **USER MANUAL V-1.0**



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## GENERAL SAFETY INSTRUCTIONS FOR MACHINES

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 wears loose clothing or jewelry when operating your machine. Wear protective hair covering.
- 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 allow unsupervised or untrained person to operate the machine
- 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 bystanders safely away while the machine is in operation.
- NEVER attempt to remove jammed cutoff pieces until the blade has come to a full stop.

# CX603 – MILLING MACHINE SPECIFIC SAFETY INSTRUCTIONS

- READ AND UNDERSTAND the user manual before operating the milling/drilling machine.
- ALWAYS WEAR safety glasses for the protection of your eyes while operating this machine.
- WEAR PROPER APPAREL. Loose clothing, gloves neckties, rings, bracelets, or other jewelry may get caught in moving parts of the machine. Wear protective hair covering to contain long hair. Do not wear gloves and keep your fingers and hair away from rotating parts.
- KEEP GUARDS in place. Guards must be kept in place and in working order to ensure safe operation.
- MAKE SURE the work-piece is properly clamped to the table before operating the machine. Never hold the work-piece by hands when using the mill.
- MAKE SURE the cutting tool is sharp, not damaged and properly secured in the chuck before you start the machine.
- DO NOT turn the power ON with the cutting tool contacting the work-piece.

- SELECT THE PROPER SPINDLE SPEED for the type of work and material you are cutting. Let the spindle reach to its full speed before beginning a cut.
- DO NOT FORCE THE TOOL. Always use the machine at the rate for which it is designed. Do not force the machine doing a job for which it is not designed.
- NEVER LEAVE the machine unattended while it is running.
- ALWAYS turn off the power before removing scrap pieces and cleaning the machine.
- SHOULD ANY PART of your tool be missing, damaged or fail in any way, shut off the machine immediately and remove the plug from power source. Replace any damaged or missing parts before resuming operation.
- MAKE SURE before installing and removing any parts, servicing, cleaning or making any adjustments, the switch is in the "OFF" position and the cord is unplugged from the power source.
- BEFORE OPERATING your CX603 milling machine, make sure you have read and understood all the safety instructions in the manual and you are familiar with your machine.

## **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.





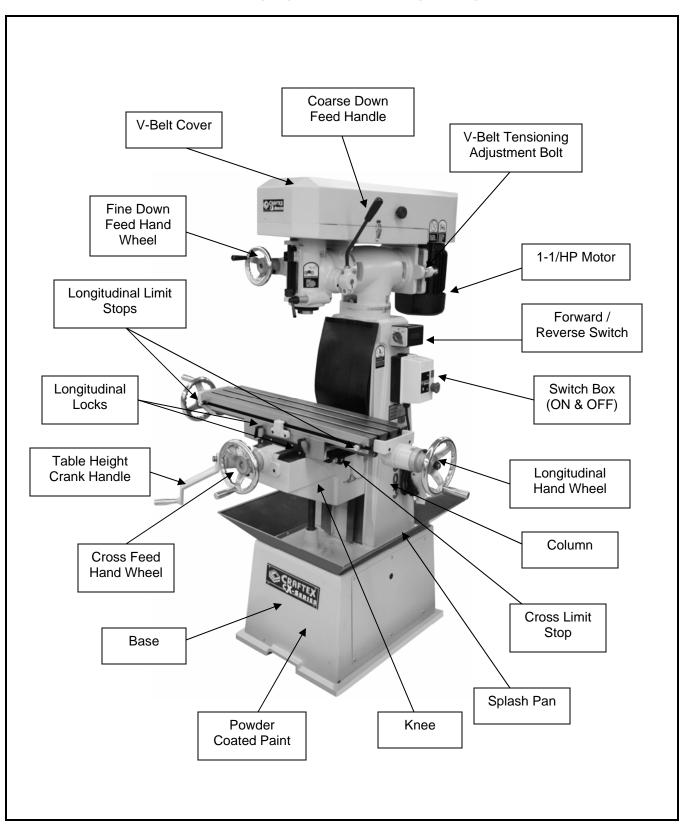
# CX603 – MILLING MACHINE FEATURES

#### MODEL CX603 - 1-1/2 HP KNEE MILLING MACHINE

As part of the growing line of Craftex metalworking equipment, we are proud to offer the CX603, a 1-1/2HP Knee Milling Machine. By following the instructions and procedures laid out in this user manual, you will receive years of excellent service and satisfaction. The CX603 is a professional tool and like all power tools, proper care and safety procedures should be adhered to.

	Motor 1-1/2 HP, 220 V, Single Phase
	Vertical Spindle Taper R8 or MT3 or NT30
	Vertical Spindle Speeds 9 (230 - 2520 RPM)
<b>\$</b>	Spindle Travel3-1/8" (80mm)
<b>\$</b>	Spindle to Column
<b>\$</b>	Spindle to Table Surface 0" - 12-3/8" (0 - 345mm)
<b>\$</b>	Head Tilt45° to the Right & 45° to the Left
<b>\$</b>	Table Surface 8" x 30"
<b>\$</b>	Max. Table Cross Travel 6" (150mm)
<b>\$</b>	Max. Table Longitudinal Travel14-1/2" (370mm)
<b>\$</b>	Lead Screw1" x 8 TPI or 3mm Pitch
<b>\$</b>	Net Weight450 Kg
<b>\$</b>	Gross Weight540 Kg
<b>\$</b>	Warranty3 Years

# CX603 – MILLING MACHINE PHYSICAL FEATURES





## PROPER GROUNDING

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

To prevent electrical hazards, have a qualified electrician ensure that the line is properly wired.

This machine is for use on a normal 220 volts 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.

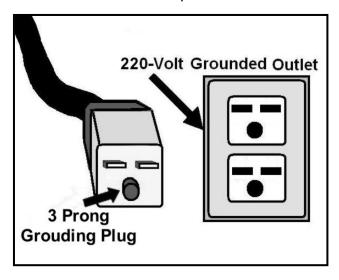


Figure-1 220-Volts Outlet for CX603

## **WARNING!**

Improper connection of the equipmentgrounding 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 CX603. Always try to position your machine close to the power source so that you do not need to use extension cords.

If 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. Check for heat build up periodically.

Your CX603 should be wired with a 3-prongs plug fitting a 3 prong grounded receptacles as shown in figure-1. Do not remove the grounding prong to fit it into a 2-pronged outlet. Always check with a qualified electrician if you are in doubt.

### UNPACKING

The machine is properly packaged and shipped completely in crates for safe transportation. When unpacking, carefully inspect the crates and ensure that nothing has been damaged during transit. Open the crates and check that the machine and the parts are in good condition.

## **NOTICE**

While doing inventory, if you can not find any part, check if the part has already been installed on the machine. Some parts come pre-assembled for shipping purposes.

## **SETUP**

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

The machine comes mounted to the pallet and you need to unbolt it before moving the machine.

Use a wrench and unbolt the milling machine from the pallet.

Position the lifting straps around the machine and attach the other ends of the strap onto the forks of the fork truck. See figure-2.

## **WARNING!**

CX603 is a very heavy machine, do not over-exert yourself. For safe moving method use fork truck. Failure to do so could result in serious personal injury and damage to the machine.

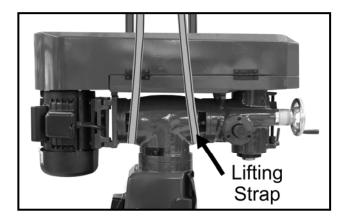


Figure-2 Lifting the milling machine

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

## **CLEANING**

The unpainted surfaces of this table saw are coated with a rust preventive waxy oil and you will want to remove this before you begin assembly. Use a solvent cleaner that will not damage painted surfaces.



## **ASSEMBLY**

To assemble the CX603 milling machine, follow the instructions given below:

Thread the handles into the longitudinal hand wheels located on both sides of the table. See figure-3.

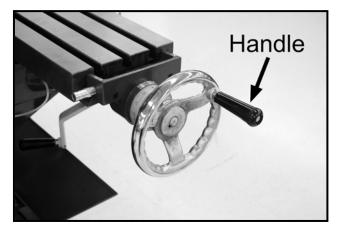


Figure-3 Installing the handle on longitudinal hand wheel

Thread the handle into table cross feed hand wheel located to the front side of the machine. See figure-4.

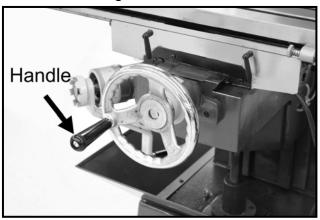


Figure-4 Installing handle onto the cross feed hand wheel

The crank handle comes assembled with its opposite side on the milling machine for shipping purposes.

Remove the C-ring securing the crank handle to the machine and remove the crank handle.

Re-install the crank handle to the milling machine as shown in figure-5 and secure it using the C-ring.

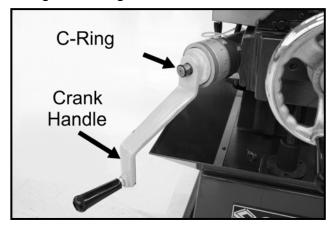


Figure-5 Installing the crank handle

## SPINDLE LUBRICATION

The milling machine features metal to metal contacting parts and needs to be properly lubricated to ensure long life and performance.

To lubricate the spindle bearings:

Lower the down feed handle all way to feed out the quill and rub the quill with a piece or rug having oil on it. See figure-6.

Release the down feed handle and let the quill go to it is initial position.

Locate the spindle lubrication cup on the mill shown in figure-6 and add a few drops of oil in it.

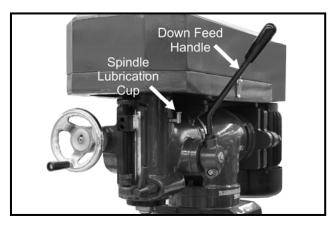


Figure-6 Lubrication the spindle

## **WARNING!**

Lubricating the milling machine properly is an important task in order to maintain the machine at a high performance condition. Failure to follow reasonable lubrication practices could result premature failure of your machine.

## **ON/OFF SWITCH**

The switch box on CX603 is located on the right hand side of the machine featuring a green ON button and a red OFF button.



Figure-7 Switch box

## FORWARD / REVERSE SWITCH

CX403 features a forward / reverse switch which allows changing the rotating direction of the spindle.



Figure-8 CX603 power cord



## **TEST RUN**

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

## **WARNING!**

Before starting the milling machine, make sure that you have read and understood the manual and you are familiar with the functions and safety features on this machine. Failure to do so may cause serious personal injury.

#### TO TEST RUN THE CX603:

- **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 spindle is lubricated before turning the machine ON. See page-10 for details.
- 4. Make sure the forward/reverse switch is in the OFF position and connect the power cord to the matched outlet and push the green button on the switch box.
- **5.** Turn the forward/reverse switch to Forward position and verify that the machine is operating correctly.
- Turn the forward/reverse switch to OFF position and then to Reverse position. See if the spindle rotates in the opposite direction.

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.

**7.** Now, push the red button and it should turn the machine OFF.

### **WARNING!**

Do not make any adjustments while the machine is running. Turn the machine OFF and un-plug the cord from the power source before making any adjustments. Failure to do so may cause serious personal injury.

## **TABLE CONTROLS**

The table on CX603 features three movement paths, controlled using crank handle and hand wheels.

See figure-9 for the three different paths in which the table can move.

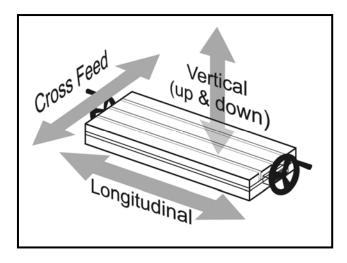


Figure-9 Three movement paths for the table

#### LONGITUDINAL HAND WHEELS

Theses two hand wheels are located on the left and right sides of the table and allow to move the table to the right and to the left.

#### **CROSS FEED HAND WHEEL**

This hand wheel is located on the front side of the machine and is used to move the table towards or away from the column.

#### **CRANK HANDLE**

The crank handle is located on the front side of the machine, under the table and is used to raise or lower the table.

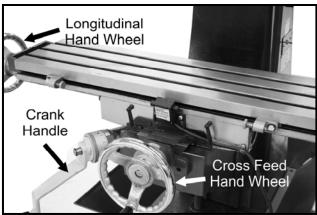


Figure-10 Table movement controls

## **TABLE LOCKS**

The table features lock levers to lock the table in position on each axis, preventing it from unwanted movement while operation.

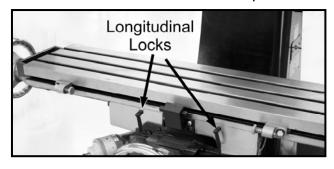


Figure-11 Longitudinal locks

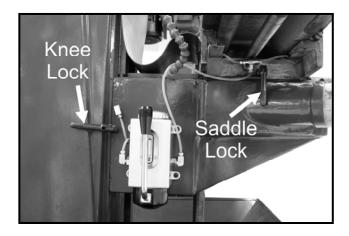


Figure-12 Knee lock and saddle lock

## **TABLE LIMIT STOPS**

Limit stops limit the travel distance of the table and saddle and allow repeatability while operation.

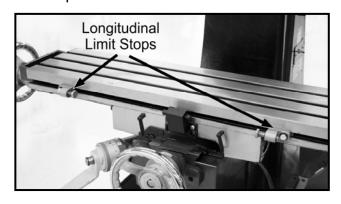


Figure-13 Longitudinal limit stops

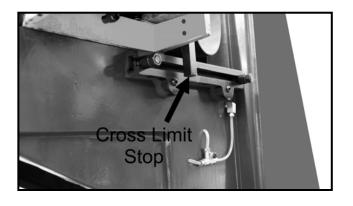


Figure-14 Cross limit stop



## **DOWN FEED CONTROLS**

This section give you information about the functions of the down feed controls.

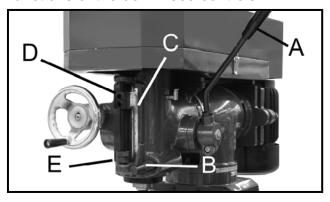


Figure-15 Down feed controls

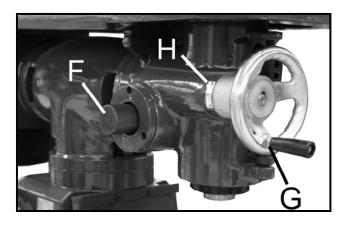


Figure-16 Down feed controls

#### A. DOWN FEED HANDLE

It is used to raise or lower the guill.

#### **B. QUILL LOCK**

It is used to lock the guill in position.

#### C. DOWN FEED SCALE

It shows the quill movement in inches.

#### D. QUILL DOG

It has a pointer on the side with the down feed scale and shows the depth of the down feed.

#### E. DOWN FEED STOP

It stops the down feed assembly at the point where it is set.

#### F. DOWN FEED SELECTOR KNOB

Tightening this knob enables the fine down feed hand wheel while tightening it enables the coarse down feed handle.

#### G. FINE DOWN FEED HAND WHEEL

It raises and lowers the down feed assembly in small increment (when enabled).

#### H. GRADUATED SCALE

Shows quill travel in 0.001" increments when fine down feed hand wheel is used.

## **HEAD TILTING**

The mill head on your CX603 tilts 90°left or right.

To tilt the mill head:

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

Loosen the four hex nuts securing the mill head to the head adaptor on both sides. See figure-17.

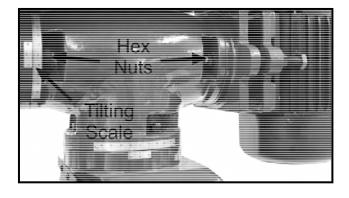


Figure-17 Tilting the mill head

Tilt the head to the right or left and use the tilt scale to set the head at the correct angle. Re-tighten the four hex nuts properly, securing the mill head in position.

## HEAD ADAPTOR ROTATION

The head adaptor rotates 360° around the column.

To rotate the head adaptor:

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

Loosen the three hex nuts securing the head adaptor to the column. See figure-18.

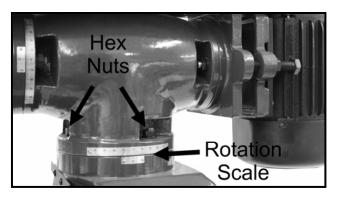


Figure-18 Rotating the head adaptor

Rotate the head adaptor with the head to the right or left and use the rotation scale to set the head adaptor to the correct angle.

Re-tighten the three hex nuts properly, securing the head adaptor in position.

## SPEED CHANGE

The CX603 is a 9-speed (230 - 2520 RPM) milling machine. The spindle speed can be changed as need for the material being cut.

To change the spindle speed:

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

Loosen the lock nut and then bolt shown in figure-19 to release tension on the belt.



Figure-19 Releasing tension on the V-belt

Arrange the belts, using the table in figure-20 to get the correct RPM for your cutting operation and re-tension the V-belt and tighten the bolt and lock nut.

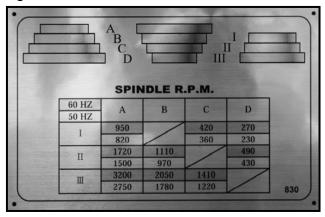


Figure-20 Spindle RPM table



## **MAINTENANCE**

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

- 1. Treat your machine with care, keep it clean and grease and lubricate it regularly. Only through good care you can be sure that the working quality of the machine will remain constant.
- 2. Lubricate all slide ways lightly before every use. The change gears and the lead screw must also be lightly lubricated with lithium based grease.
- 3. During operation, the chips which fall onto the sliding surface should be cleaned in a timely fashion. Frequent inspections should be made to prevent chips from falling into the position between the work table and the slide ways.

## **WARNING!**

Do not remove the chips with your bare hands. There is a risk of cut due to sharp-edged chips. Never use flammable solvents or cleaning agents or agents that generate noxious fumes. Protect electrical components such as motors, switches, switch boxes, etc..., against humidity when cleaning.

**4.** Every day, after the operation, eliminate all the chips and clean different parts of the machine tool and apply machine tool oil to prevent from rusting.

- **5.** Make sure your work area is well ventilated.
- Good housekeeping practice should be followed on a daily basis keeping your lathe clean and well lubricated.
- 7. Check the machine everyday before operation for; worn or damaged cord, wire, loose nuts and bolts and make sure all the safety devices are working properly.

## LUBRICATION

The milling machine features metal to metal contacting parts and needs to be properly lubricated to ensure long life and performance.

## **WARNING!**

Lubricating the milling machine properly is an important task in order to maintain the machine at a high performance condition. Failure to follow reasonable lubrication practices could result premature failure of your machine.

#### SPINDLE BEARINGS

To lubricate the spindle bearings:

Lower the down feed handle all way to feed out the quill and rub the quill with a piece or rug having oil on it. See figure-21.

Release the down feed handle and let the quill go to it is initial position.

Locate the spindle lubrication cup on the mill shown in figure-6 and add 5-6 drops of oil in it. Practice this after every 8 hours of use.

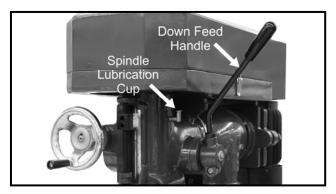


Figure-21 Spindle bearing lubrication

#### **ONE-SHOT OILER**

Open the fill cap on the one-shot oiler and pour ISO 68 lubricant (or equivalent) in it. The oiler features a sight glass which shows the amount of oil.

Once the oiler is filled, pull the handle and release it so send lubricant. See figure-22.

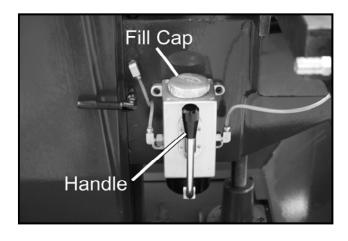


Figure-22 One-shot oiler

Lubricate the machine using one shot oiler after every 8-9 hours of use (one pump only).

#### **LEAD SCREWS & GEARS**

Use the crank handle and raise the table up to access the gears and lead screws underneath the table.

Clean the gears and lead screws using a shop rag. Lubricate the gears and lead screws using #2 grease. See figures below.

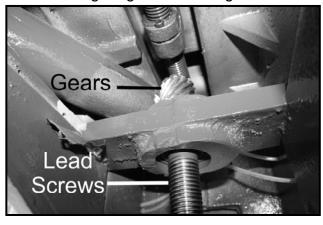


Figure-23 Lubrication bevel gears and vertical lead screws

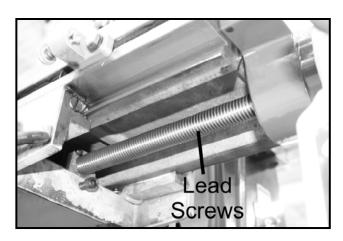


Figure-24 Lubricating longitudinal lead screws

Once you apply the lubricant on the gears and lead screws, move the table through the full range of each lead screw to distribute the lubricant.

Lubricate the lead screws and gears in this manner after every 40 hours of use.



## V-BELT TENSIONING

The V-belt stretches with use and will need to be tensioned properly.

To tension the V-belt:

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

Open the belt cover lock and lift the belt cover up to access the V-belt.



Figure-25 V-belt

Loosen the lock nut shown in figure-26 and rotate the bolt until the V-belt has approximately 1/8" of deflection when moderate pressure is applied.

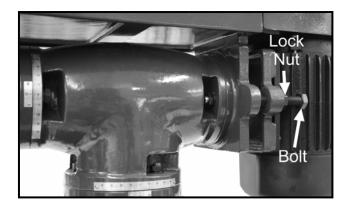


Figure-26 V-belt tension controls

Once the V-belt is tensioned properly, tighten the lock nut.

## **GIBS ADJUSTMNET**

The table movements along the ways is controlled by gibs. Tight gibs increases table movement accuracy and but make it harder to move. Loose gibs make table movement sloppy but easier to move.

Gibs should be adjusted so that the table does not move freely and at the same time it is not hard to move the table.

To adjust the gibs:

Disconnect the machine from the power source.

Adjust the gibs using a screw driver and make sure not to tighten the gibs excessively, failure to do so could result premature wear of the sliding parts.

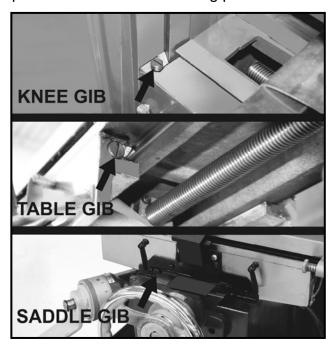
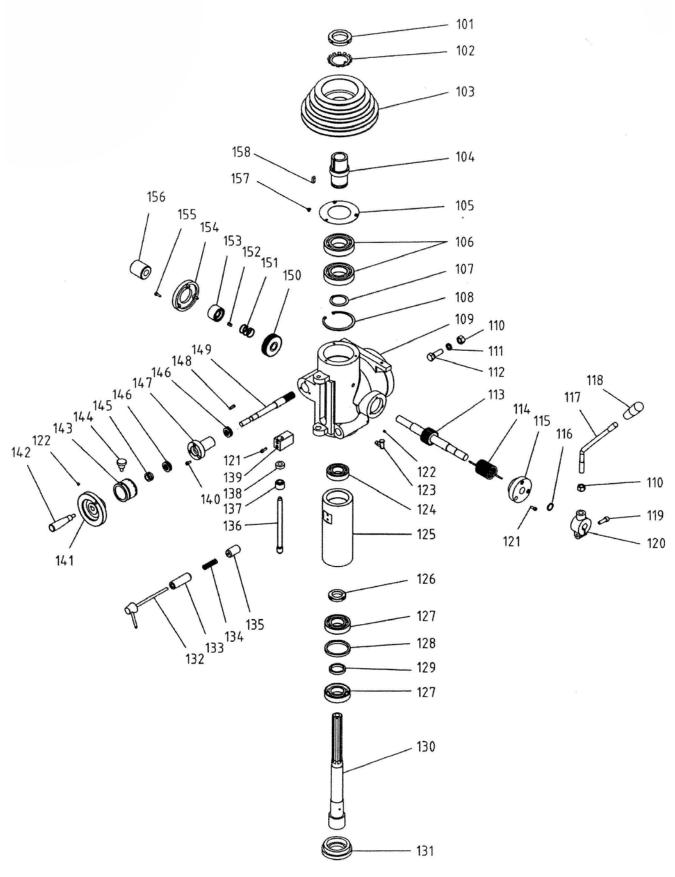


Figure-27 Adjustment gibs

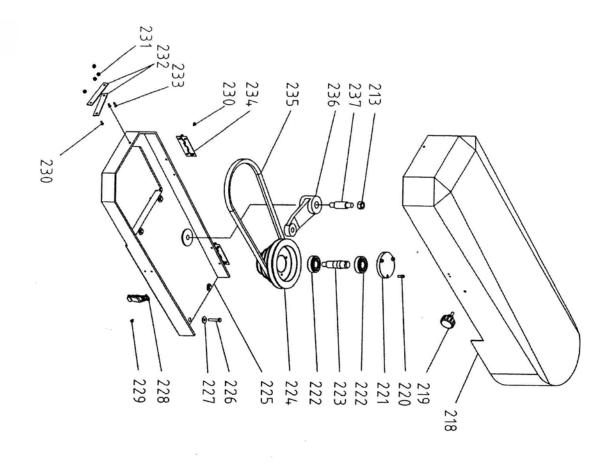
## **CX603 PARTS DIAGRAM**

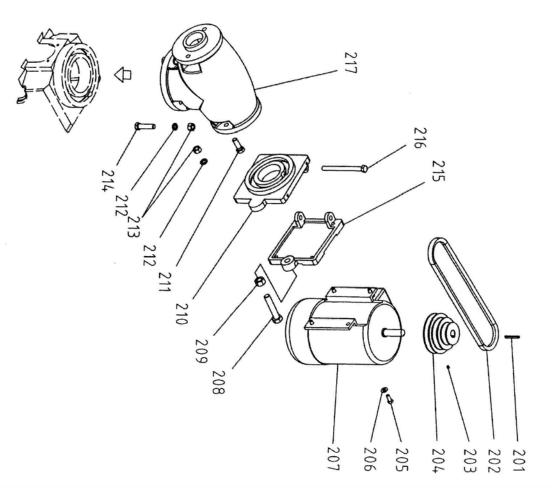




## **CX603 PARTS LIST**

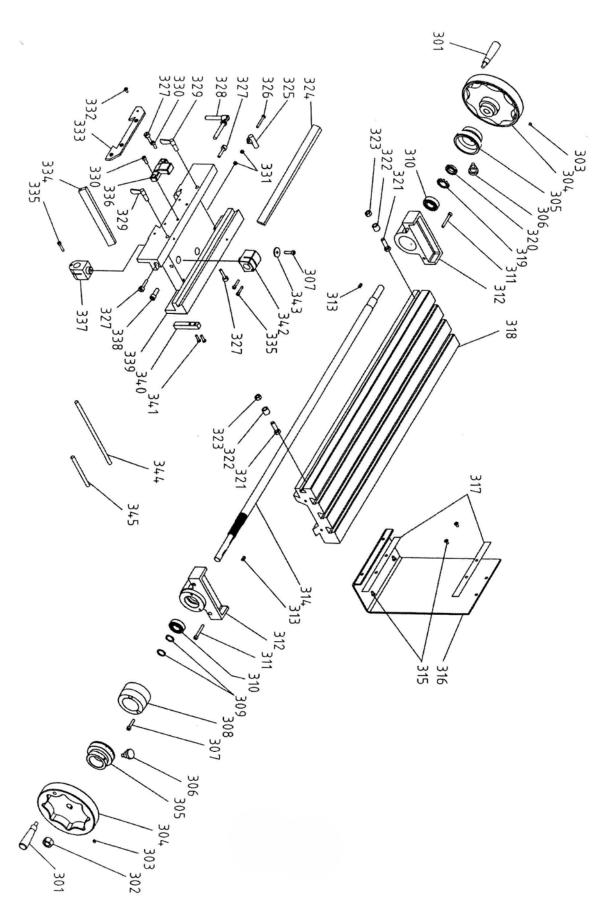
PART	DESCRIPTION	PART	DESCRIPTION
101	NUT	131	SPINDLE NUT
102	WASHER	132	LOCK KNOB SHAFT
103	SPINDLE PULLEY	133	LOCK BLOCK(L)
104	SPLINE SLEEVE	134	SPRING
105	BEARING COVER	135	LOCK BLOCK(S)
106	BEARING 6209ZZ	136	SCREW
107	S-RING 45	137	LOCK NUT
108	C-RING 85	138	HEIGHT NUT
109	HEAD CASTING	139	BLOCK
110	1/2" NUT	140	M5-15 PAN HD SCREW
111	1/2" LOCK WASHER	141	HANDWHEEL
112	1/2"-1 1/2" SCREW	142	HANDLE
113	GEAR SHAFT	143	STEPPED SLEEVE
114	SPRING	144	DIAL POSITIONING SCREW
115	FLANGE COVER	145	9/16" NUT
116	S-RING 19	146	BEARING 51102
117	HANDLE LEVER	147	SLEEVE
118	KNOB	148	5X5X20 KEY
119	M8-25 CAP SCREW	149	WORM SHAFT
120	HANDLE BASE	150	COUPLING WORM GEAR
121	M5-16 CAP SCREW	151	SPRING
122	M6-8 SET SCREW	152	6X6X15 KEY
123	OIL CUP	153	COUPLING
124	BEARING 6206ZZ	154	PLATE
125	SPINDLE QUILL	155	M5-10 PAN HD SCREW
126	NUT	156	KNOB
127	BEARING 7207	157	M5-8 PAN HD SCREW
128	BEARING WASHER(B)	158	KEY
129	BEARING WASHER(S)		
130	SPINDLE		





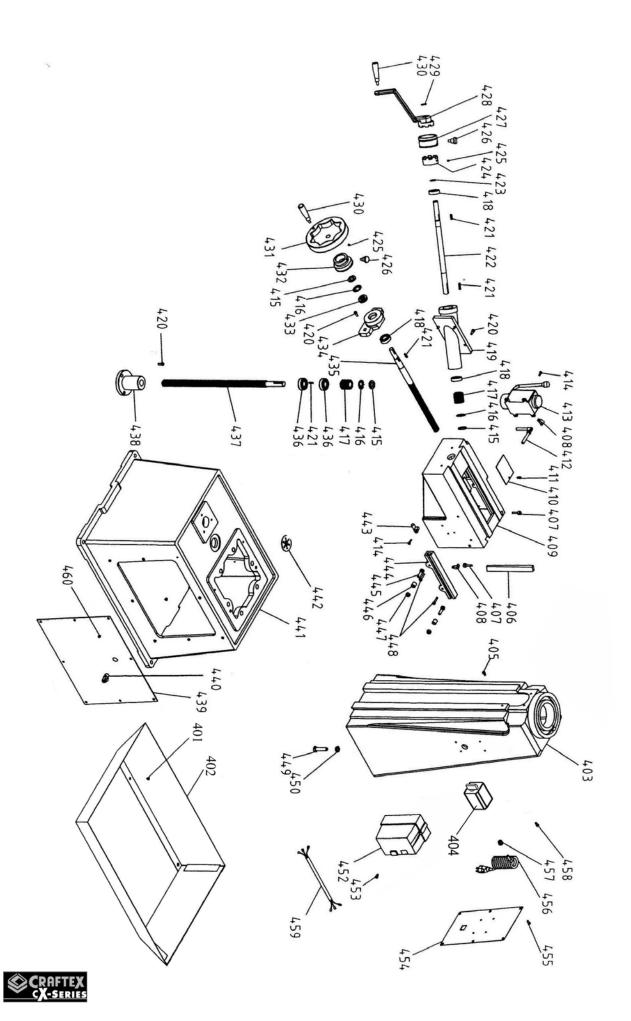


PART	DESCRIPTION	PART	DESCRIPTION
201	5X5X40 KEY	220	M5-20 CAP SCREW
202	BELT B-35	221	FLANGE COVER
203	M6-8 SET SCREW	222	BEARING 6204ZZ
204	MOTOR PULLEY	223	PULLEY PIVOT STRD
205	M8-20 CAP SCREW	224	PULLEY
206	M8 WASHER	225	LOWER BELT COVER
207	MOTOR	226	M6-35 SCREW
208	M16-75 SCREW	227	M6 WASHER
209	M16 NUT	228	LATCH
210	BRACKET	229	M3-8 PAN HD SCREW
211	1/2"-1 1/2" SCREW	230	M5-8 PAN HD SCREW
212	1/2" LOCK WASHER	231	M5 NUT
213	1/2" NUT	232	COVER SUPPORTING ARM
214	1/2"-1 3/4" SCREW	233	M5-10 PAN HD SCREW
215	MOUNTING PLATE	234	COVER HINGE
216	PIVOT	235	BELT B-39
217	VERTICAL HEAD ADAPTER	236	PULLEY SWIVEL
218	UPPER BELT COVER	237	SWIVEL STUD
219	KNOB		





PART	DESCRIPTION	PART	DESCRIPTION
301	HANDLE	326	M5-30 PAN HD SCREW
302	5/8" NUT	327	ADJUSTING SCREW
303	M6-8 SET SCREW	328	HANDLE BAR
304	HANDLE	329	TABLE LOCKING SCREW
305	DIAL	330	M6-16 CAP SCREW
306	DIAL POSITIONING SCREW	331	M5 NUT
307	M6-25 CAP SCREW	332	M5-10 PAN HD SCREW
308	SPACER	333	RUBBER SHEET
309	S-RING 20	334	GIB
310	BEARING 6004ZZ	335	M5-25 CAP SCREW
311	M6-45 CAP SCREW	336	LIMIT SEAT
312	LEAD SCREW BRACKET( R)	337	CROSS NUT
313	5X5X20 KEY	338	M8-25 CAP SCREW
314	LONG LEAD SCREW	339	SADDLE
315	M6-8 PAN HD SCREW	340	STOP BLOCK
316	RUBBER SHEET	341	M5-20 PAN HD SCREW
317	RUBBER SHEET HOLDER	342	LONGITUDINAL NUT
318	TABLE	343	M6 WSHER
319	STAR WASHER	344	OIL TUBING(L)
320	BEARING	345	OIL TUBING(S)
321	M10-30 SCREW		
322	ADJUSTING SCREW SLEEVE		
323	M10 NUT		
324	GIB		
325	LIMIT BLOCK		



ART	DESCRIPTION	PART	DESCRIPTION
401	M6-8 PAN HEAD SCREW	431	HANDLE WHEEL
402	SPLASH PAN	432	DIAL
403	COLUMN	433	BEARING 51104
404	FORWARD/REVERSE SWITCH	434	BEARING HOUSING
405	M6-8 CAP SCREW	435	GROSS LEAD SCREW
406	GIB	436	BEARING 6204ZZ
407	GIB ADJUSTMENT SCREW	437	LEAD SCREW ·
408	OIL JOINT	438	PEDESTAL
409	KNEE	439	COVER
410	KNEE COVER	440	HOLDER
411	M3-6 PAN HD SCREW	441	MACHINE BASE
412	HANDLE BAR	442	COVER
413	OIL PUMP	443	LIMIT BLOCK
414	M5-15 PAN HD SCREW	444	LIMIT TRACK
415	NUT	445	M10-30 SCREW
416	TAB WASHER	446	SLEEVE
417	BEVEL GEAR	447	M10 NUT
418	BEARING 6004ZZ	448	M6-30 SCREW
419	GEAR SHAFT SLEEVE	449	1/2"-2" SCREW
420	M6-16 CAP SCREW	450	1/2" LOCK WSHER
421	5X5X20 KEY		
422	GEAR SHAFT	452	SWITCH
423	S-RING 20	453	3/16"-1/2" PAN HD SCREW
424	COUPLING	454	COLUMN COVER
425	M6-8 SET SCREW	455	M6-8 PAN HD SCREW
426	DIAL POSITIONING SCREW	456	CABLE
427	DIAL	457	STRAIN RELIEF
428	CRANK ARM		
429	S-RING 18	459	MOTOR CORD
430	HANDLE	460	PHILIP HEAD SCREW M35 x 6



## **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 labor (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.

