

CX600 MILL / DRILL WITH DIGITAL READOUT

User Manual

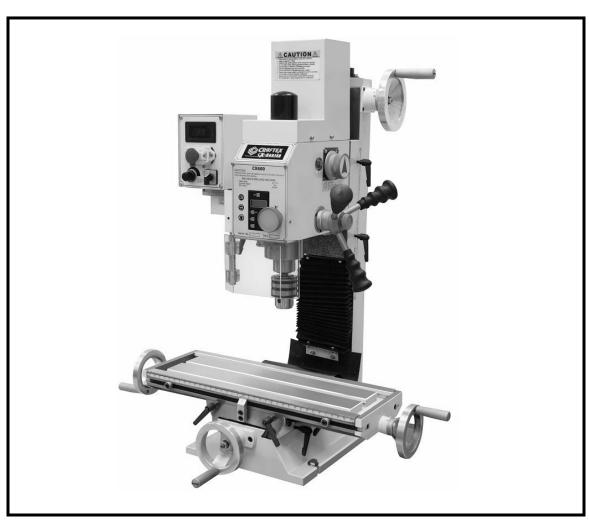


TABLE OF CONTENTS

General Safety Instructions for Machines	3
Specific Safety Instructions	4
CX600 Features	5
Physical Features	6
Proper Grounding	7
Setup	8
Un-Packing	8
Mounting to a Workbench or Stand	9
Assembly	9
Controls	9
Control Panel	12
Chip Guard	13
Test Run	13
Collet Replacement	14
Gibs Adjustment	15
Maintenance	16
Spindle Height Digital Readout	16
Wiring Diagram	17
Troubleshooting	18
Parts List & Parts Breakdown	19
CX600 Optional Stand Parts Diagram and List	27
Warranty	28



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.

CX600 – MILL / DRILL 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. Safe guards must be kept in place and in working order. CX600 will not start until the chip guard is in its position, guarding the spindle.
- 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.
- NEVER 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 CX600 make sure you have read and understood all the safety instructions in the manual and you are familiar with your machine. 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.





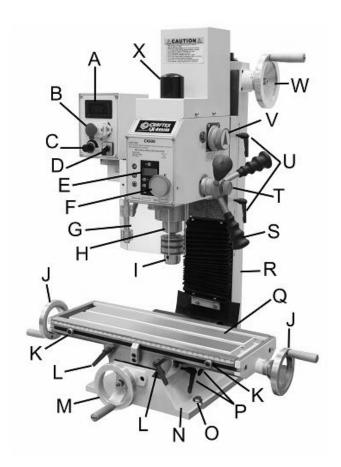
CX600 – MILL / DRILL FEATURES

MODEL CX600 - MILL / DRILL WITH DIGITAL READOUT

As part of the growing line of Craftex metalworking equipment, we are proud to offer the CX600, a Mill / Drill with Digital Readout. By following the instructions and procedures laid out in this user manual, you will receive years of excellent service and satisfaction. The CX600 is a professional tool and like all power tools, proper care and safety procedures should be adhered to.

Motor3/4-HP, 110-V, Single Phase
Drilling Capacity1"
End Mill Capacity5/8"
Face Mill Capacity2-1/2"
Spindle TaperR8
Spindle Stroke2"
Head Tilt+ - 90°
Number of Spindle SpeedsVariable
Range of Spindle Speeds50 – 2250 RPM
Working Surface of Table20" x 7"
Max. Table Longitudinal Travel11"
Max. Table Cross Travel7"
Table Vertical Travel15"
Number of T-Slots3
T-Slot Size
Overall Dimensions 680 x 730 x 880mm
Net Weight (approx)113 Kg
Shipping Weight (approx)135 Kg
Warranty3-Years

CX600 MILL / DRILL PHYSICAL FEATURES



- A. Digital Spindle RPM Readout
- B. ON / Emergency OFF Button
 C. Variable Speed Control Knob
- D. Forward / Reverse Switch
- E. Digital Spindle Height Gauge
- F. Fine Feed Knob
- G. Chip Guard
- H. Spindle
- I . Drill Chuck
- J. Longitudinal Hand Wheel (X-Axis)
- K. Table Stop
- L. Longitudinal Table Travel Lock Lever

- M. Cross Feed Hand Wheel
- N. Base
- O. Mounting Bolt
- P. Cross Feed Lock Levers
- Q. Work Table
- R. Column
- S. Down Feed Handle
- T. Down Feed Handle Lock
- U. Mill Head Lock Levers
- V. High/Low Spindle Speed Knob W. Head Elevating Hand Wheel
- X. Drawbar Cover



PROPER GROUNDING

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

CX600 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.

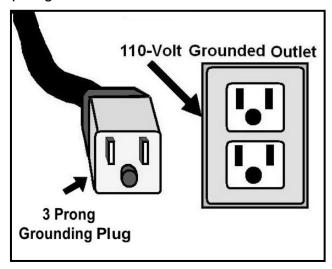


Figure-1 110-Volts outlet for CX600

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 CX600. 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.

SETUP

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

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

WARNING

CX600 is a very heavy machine, do not over-exert yourself. Use fork truck or other mechanical devices for safe moving.

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

UNPACKING

To ensure safe transportation this machine is properly packaged and shipped completely in crates. When unpacking, carefully inspect the crates and ensure that nothing has been damaged during transit. Open the crate and unbolt the machine from the crate. Check that the machine and the parts are in good condition.

While doing inventory, if you can not find any part, check if the part is already installed on the machine. Some of the parts come assembled with the machine because of shipping purposes.

LIST OF CONTENTS QTY
Mill/Drill Machine 1
Drawbar1
Digital Scale 1
Tool Box 1
Oil Bottle1
R8 Arbor 1
Double End Spanner (17-19 mm) 2
Allen Wrenches (2.5, 3, 4, 5, 6, 8mm)6
Slotted Screwdriver 1
Phillips Screwdriver 1
Handles 4
M10 "T" Screws
M10 Washers
M10 Nuts
User Manual 1
Optional Stand for CX600 1

The stand for CX600 is optional and can be bought separately.



MOUNTING TO WORKBENCH OR STAND

The CX600 features four mounting holes on its base which allows to be mounted on a stand or workbench.

To mount the machine on a stand or workbench:

Make sure the stand or the workbench is sturdy enough to support a weight of 113 Kg (weight of CX600).

The stand or workbench must be level so that the machine is mounted in a stable position.

Lift the machine using a fork truck and place it over the stand or workbench. Make sure the machine is centered on the workbench.

WARNING

CX600 is a very heavy machine, do not over-exert yourself. Use fork truck or other mechanical devices for safe moving method

Locate the four mounting holes on the CX600 base and mark the holes on workbench or stand using a center punch.

Remove the machine and drill four holes where you marked the workbench or stand top.

Position the machine on the stand or workbench and align the holes on the machine base with the holes on the stand or workbench top.

Bolt the machine base properly on the work bench or stand top.

ASSEMBLY

Install the four handles by threading them onto the hand wheels as shown in figure-2.

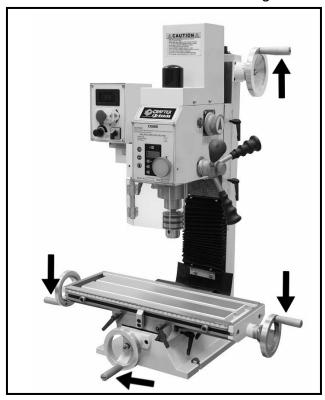


Figure-2 Handles threaded into the hand wheels

CONTROLS

This section provides information on the CX600 controls.

LONGITUDINAL HAND WHEELS: These hand wheels are used to move the work table side to side. See figure-3.

CROSS FEED HAND WHEEL: This hand wheel is located on the front of the machine and is used to move the work table towards or away from the column. See figure-3.

HEAD ELEVATING HAND WHEEL: This hand wheel is located on the top right side of the column and it is used to adjust the head height up or down as required. Turn the hand wheel clockwise to move the head up and counter-clockwise to move the head down. See figure-3.

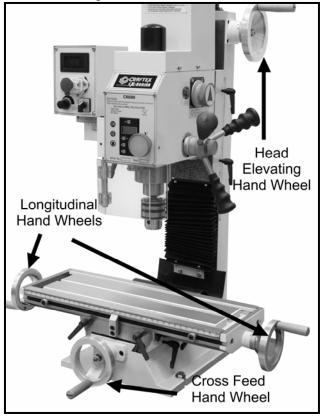


Figure-3 CX600 controls

ADJUSTABLE TABLE STOPS: These stops are located on the front side of the work table as shown in figure-4. These stops are adjusted to stop the work table at any position along the longitudinal axis.

TABLE LOCK LEVERS: The machine features lock levers to secure the work table on X and Y axis in position when needed.

The longitudinal table lock levers are located in the front side of the machine and

must be loosened before moving the table using longitudinal hand wheels.

The cross feed lock levers are located on the right side of the machine, under the work table. These two lock levers must be loosened before moving the table using cross feed hand wheel. See figure-4.

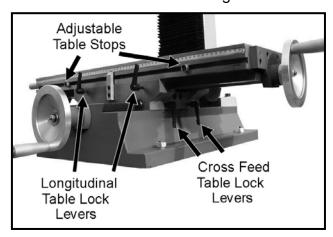


Figure-4 Table stops and table locks

MILL HEAD LOCK LEVERS: Located on the right side of the column, these two lock levers are used to lock and unlock the mill head. Unlock the mill head before adjusting the mill head height using the head elevating hand wheel and re-tighten the lock levers once the head is at the desired height.

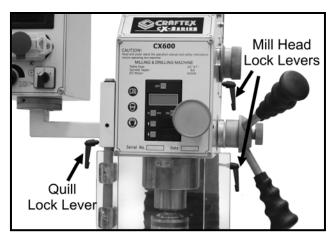


Figure-5 Head and quill locks levers



QUILL/SPINDLE LOCK LEVER: The quill lock lever is located on the left side of the head and is used to secure the quill in position. See figure-5.

WARNING

For best result, all milling operations should be done with the quill/spindle as close to the head assembly as possible. Make sure to lock the spindle, table, and mill head in place before starting milling operation.

DOWN FEED HANDLES: Located on the left side of the head casting, the down feed handles are used to raise or lower the spindle/quill.

The quill/spindle lock lever should be loosened before operating the down feed handles.

FINE DOWN FEED KNOB: Tighten the lock knob shown in figure-7 to engage the fine feed knob in the front of the machine. Turn the fine feed knob clockwise to move the spindle/quill down and counterclockwise to retract it. See figure-6.

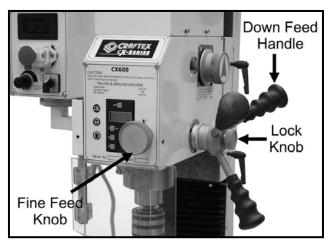


Figure-6 Feed controls

HIGH LOW SPEED KNOB: The CX600 features a high/low speed knob shown in figure-7, used to set the spindle at high or low speed, as required for the job.

The low speed is 50 RPM to 750 RPM while the high speed is 150 RPM to 2250 RPM.

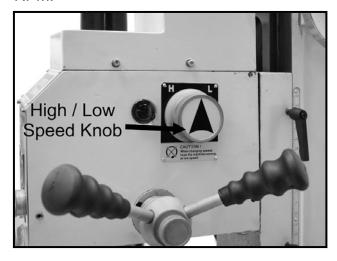


Figure-7 High / Low speed knob

MILL HEAD ROTATION: The CX600 mill head is designed to be tilted + - 90, enabling it to perform task such as angle drilling or horizontal slotting.

Support the head and loosen the nut and the bolt located under the head shown in figure-8.

Rotate the head to its desired angle, using the tilt scale shown in figure-9. Once the head is at the desired angle, re-tighten the bolt and the nut.

WARNING

When loosening the nuts, make sure to provide support to the head so that it does not rotate unexpectedly.

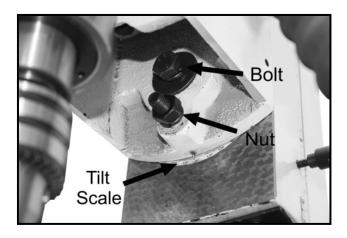


Figure-8 Tilting the mill head

Keep in mind that the head must be positioned accurately at a 90-degree position to the table. If you are able to use an angle vise to accomplish your milling operation without tilting the head, you can save yourself a good amount of set-up time.

CONTROL PANEL

- **A. EMERGENCY STOP BUTTON:** The CX600 features a large emergency stop button on the switch cover, used to stop the machine in the emergency cases.
- **B. ON/OFF BUTTON:** The green push button is to start the motor while the red push button is to switch the motor off.
- **C. SPEED CONTROL KNOB:** The CX600 is a variable speed milling machine and features a speed control knob. The knob should be turned to zero before turning the machine ON.
- **D. FORWARD / REVERSE SWITCH:** The forward / reverse switch is used to change the rotating direction of the spindle.

E. DIGITAL SPINDLE RPM READOUT: The digital spindle RPM display shows the spindle speed

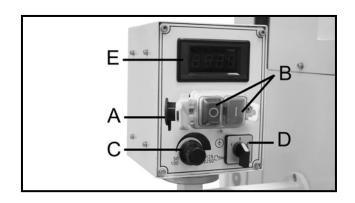


Figure-9 Control panel

SPINDLE HEIGHT DIGITAL READOUT

The spindle height digital readout displays the spindle position and movement to increase milling accuracy.

- **F. ON / ZERO "0" BUTTON:** Turns the digital spindle height gauge ON when it is OFF. When pressed again, zeros the digital read at any point along its stroke.
- **G. OFF BUTTON:** Turns the digital spindle height gauge OFF.
- **H. DIGITAL SPINDLE HEIGHT DISPLAY:** Displays the spindle height and movement.
- **I.** mm/inch BUTTON: Toggles units of measure between metric and inch conventions.
- **J.** ↑ **BUTTON:** Increases the current depth reading.
- **K.** ↓ **BUTTON**: Decreases the current depth reading.



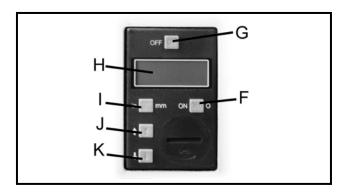


Figure-10 Digital spindle height gauge controls

CHIP GUARD

The chip guard on CX600 is one of the main safety features of this machine. The machine does not start until the chip guard is in its position, guarding the spindle.

Make sure the chip guard is in its closed position before turning the machine ON.

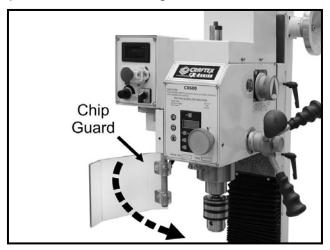


Figure-11 CX600 Chip guard

WARNING

Always wear safety glasses, hearing protection and a respirator when operating this machine.

TEST RUN

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

Remove all the tools used for assembling the machine and make sure all the guards are in place.

WARNING

Before starting the mill/drill, 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.

Connect the cord to the power outlet and turn the machine ON.

TO TEST RUN THE CX600:

- 1. Push the green button in, on the control panel. It should turn the machine ON.
- **2.** Now, push the Emergency Stop Button in, it should turn the machine OFF.
- Turn the machine back ON, and let the machine run on slow speed for 10 minutes.
- 4. Locate the High/Low speed control knob on the left side of the machine and turn it to high speed. Use the variable speed control knob and increase the spindle speed and let the machine run for another 10 minutes.

- 5. If you hear any unusual noise(s) coming from the machine or if it vibrates excessively, shut the machine OFF immediately and disconnect from the power source. Investigate to determine the problem with your machine.
- **6.** If the machine runs smoothly, proceed to the next step.
- 7. Turn the machine OFF.
- **8.** Use the forward/reverse switch and turn the spindle in the opposite direction for 10 minutes.

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.

COLLET REPLACEMENT

The CX600 features an R8 spindle taper which allows using R8 collects. Collets are used to hold the cutting tool into the spindle.

TO INSTALL R8 COLLETS:

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

Remove the draw bar cap as shown in figure-12.

Hold the flat part of the spindle with one hand while loosening draw bar with another hand, using proper size wrenches provided.

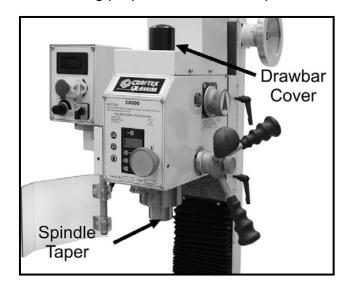


Figure-12 Drawbar cover and spindle taper

Loosen the draw bar fully and tap it with a rubber mallet from the top.

WARNING

The collet with the cutting tool will fall down on to the work table if not supported from below the cutter.

Carefully clean the surface of the new collect, cutting tool and the spindle taper and make sure there is no debris on any part.

Insert the collect into the spindle taper and partially thread so that it just holds it.

Insert the cutting tool into the collet and continue to tighten. Use a hex wrench (provided) and tighten the collet into the spindle taper.



Make sure not to over-tighten the drawbar. Over-tightening the drawbar makes the collet removal difficult and damages the drawbar and the collet threads.

Re-install the drawbar cover.

GIBS ADJUSTMENT

After a period of time, movement of the work table and the head over the slide ways will cause normal wear that needs to be adjusted.

To adjust the gib screws:

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

Locate the work table horizontal adjustment gib screw (A) on the right side of the table and vertical adjustment gib screw (B) on the front side of the table as shown in figure-13.

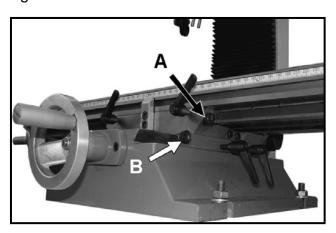


Figure-13 Table gib adjustment screws

Locate the head adjustment gib screws on the column as shown in figure-14.

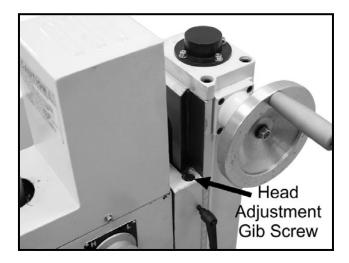


Figure-14 Head adjustment gib screw

Use a Phillips screw driver (provided) and tighten the screws.

Check the work table and the mill head movement on the slide ways using the hand wheels.

MAINTENANCE

During the life of your machine, you will need to practice some regular maintenance to keep your machine 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.** After the operation every day, 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.
- **6.** Good housekeeping practice should be followed on a daily basis keeping your machine 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.

SPINDLE HEIGHT DIGITAL READOUT

When the digital spindle height gauge display is dim or does not show at all, the battery will need to be replaced.



Figure-15 Digital spindle height gauge

Use a Phillips screw and turn the cap, clockwise to open it. Replace the battery with a new one and close the cap.

CHANGING THE FUSE

The fuse (10-Amp) is located at the back of the switch box as shown in figure-16. Turn the button securing the fuse counterclockwise to open and change the fuse. Replace the fuse with a new one and turn the button clockwise to secure the fuse.

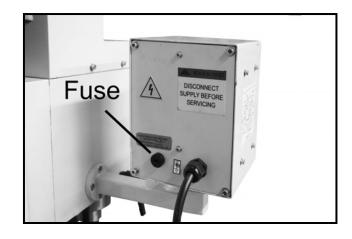
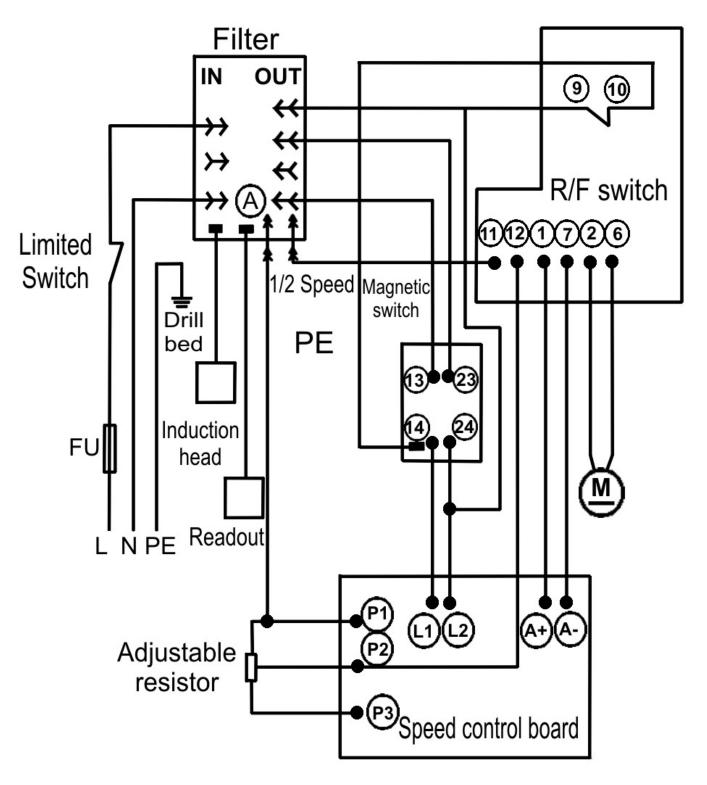


Figure-16 Changing the fuse



WIRING DIAGRAM

Before connecting the machine to the mains, make sure the electrical values of the mains supply are the same as those for the machine's electrical components. Use the wiring diagram below for connecting the mill/drill machine to the mains supply.

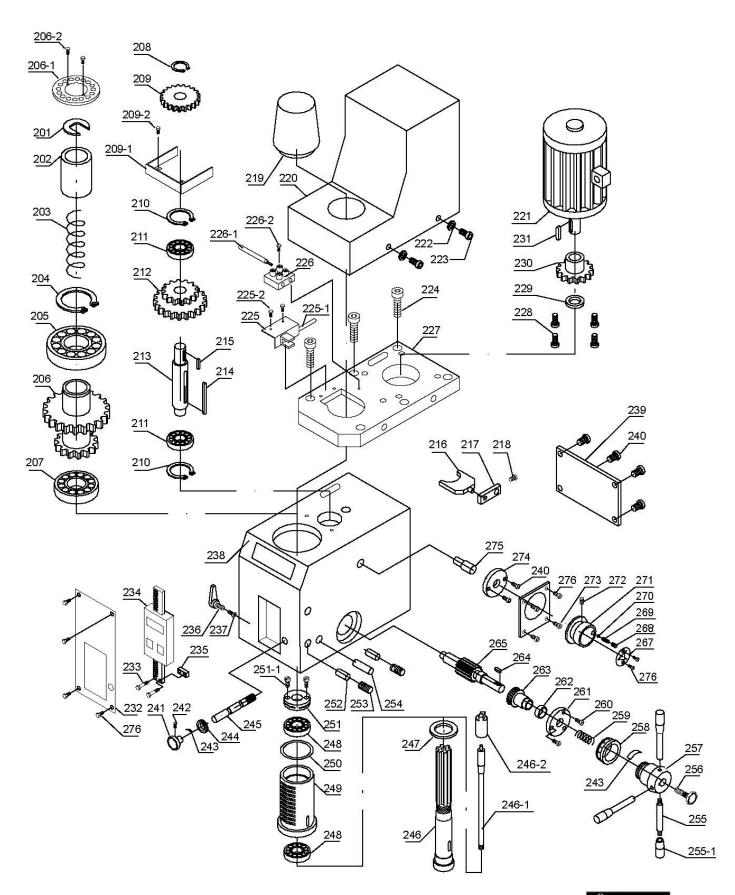


CX600 MILL/DRILL TROUBLESHOOTING

Problem	Possible Causes	Solutions
NO. 18 AND	Gibs too loose on table, column Unused feeds not locked	Readjust gibs Lock all axes but the one moving
Unusual noise coming from	Mill head not locked	Lock mill head
the machine when running.	Quill too loose	Tighten quill lock
	Tool not in center	Center tool
	Improper tool shape, tool dull	Sharpen, or replace tool
Don't be a si to a si to a	Quill moving	Lock quill
Deptil of cat is not consistent	Setup wrong	Make sure setup is parallel to table
	Dull bit	Use sharp bits
	Bit not mounted correctly in chuck	Remount tool
Hole is off center or bit wanders	Chuck loose in spindle	Remount chuck on arbor
Tole is oil cellier of bit wallders	Drawbar not secured	Tighten drawbar
	Bearing loosen or worn	Tighten or replace bearings
	Cutting too fast	Reduce speed
Bit tums erratically or stops	Bit fed into work too fast	Reduce feed rate
Chuck is difficult to tighten	Chuck sticking	Apply lubricant
or loosen	Debris in chuck	Clean chuck
Object workles	Chuck loose on arbor	Clean arbor and remount
Cluck Wobbles	Drawbar not tight	Clean spindle and replace drawbar
Machine does not run when	Chip guard is not in place	Move chip guard to its position
turned ON	Fuse/Breaker is tripped	Re-set the fuse/breaker
	Cord not plugged in	Plug in the cord



CX600 HEAD ASSEMBLY 1



CX600 HEAD ASSEMBLY I

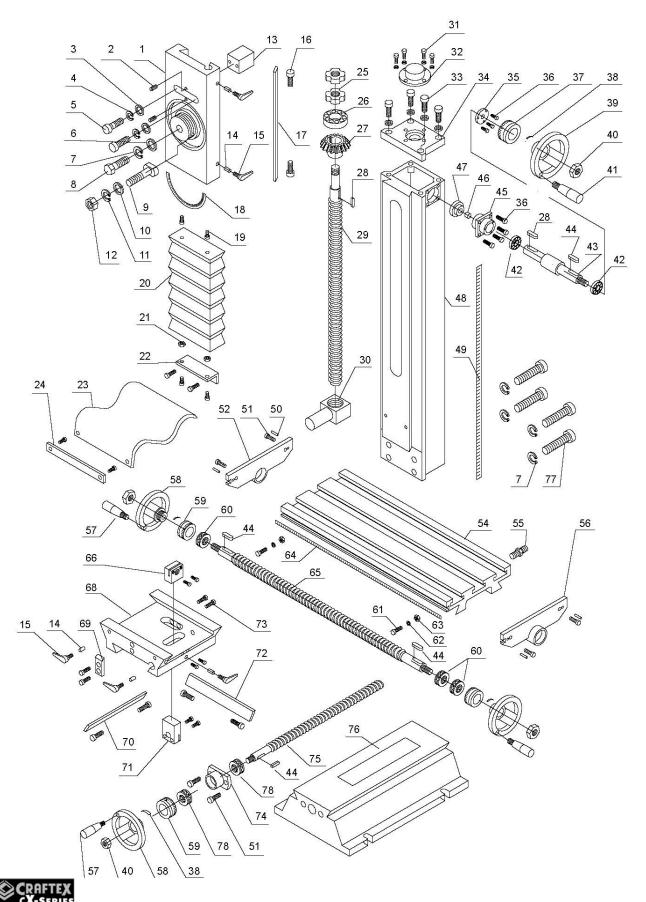
No.	Parts No.	Description	Specification	Qty
1	201	Position Washer	*	1
2	202	Bush		1
3	203	Spring	2.5x28x100	1
4	204	Snap Ring	Φ 45	1
5	205	Bearing	6209	1
6	206	Gears	60/70T	1
7	206-1	Raster Ring	16 Bore	1
8	206-2	Cap Screw	M3x8	2
9	207	Bearing	7007	1
10	208	Snap Ring	Ф 15	1
11	209	Gears	37T	1
12	209-1	Guard		1
13	209-2	Screw	M3x6	2
14	210	Snap Ring	Ф 32	2
15	211	Bearing	6002	2
16	212	Shifting Gear	42/62T	1
17	213	Shaft		1
18	214	Key	5X50	1
19	215	Key	C5x12	1
20	216	Fork		1
21	217	Fork Arm		1
22	218	Set Screw	5x8	1
23	219	Drawbar Cover	00710	1
24	220	Motor Cover		1
25	221	Motor	91ZYT005	1
26	222	Washer	M4	6
27	223	Cap Screw	M4x8	6
28	224	Screw	M6x14	6
29	225	Bracket for finder		1
30	225-1	Electrical wire		1
31	225-2	Screw	M3x6	2
32	226	Terminal Block	19.40-407-10.947-632-4-4527	1
33	226-1	Electrical wire		1
34	226-2	Screw	M3x12	1
35	227	Motor Plate	reserves (17.50) = 0	1
36	228	Screw	M5x12	6
37	229	Snap Ring	M10	1
38	230	Gear	25T	1
39	231	Key	C4X6	1
40	232	Label		1
41	233	Screw	M3x6	2
42	234	Digital Scale		1



CX600 HEAD ASSEMBLY II

No.	Parts No.	Description	Specification	Qty
43	235	Base		1
44	236	Locking Lever	M8x20	1
45	237	Brass Pin		1
46	238	Mill Head		1
47	239	Plate for Head		1
48	240	Screw	M4x8	6
49	241	Knob		1
50	242	Set Screw	M5x6	1
51	243	Spring Piece		2
52	244	Dial		1
53	245	Worm Shaft		1
54	246	Spindle		1
55	246-1	Drawbar		1
55-1	246-2	Retainer cap		1
56	247	Ring		1
57	248	Bearing		2
58	249	Sleeve		1
59	250	"O"Rubber Ring	58x2.65	1
60	251-1	Screw	30X2.00	2
61	251	Adjusted Nut		1
62	252	Brass Pin	B4x20	4
63	253	Set Screw	M5X12	4
64	254	Pin	A6x30	1
65	255	Handle	AUXSU	3
66	255-1	Rubber Handl		3
67		Knob		
68	256 257	Base		1 1
69	100 1101	Dial		
70	258	Spring	1 0-10-0 F	1 1
	259		1.2x12x2.5	1
71	260	Screw	M4X40	3
72	261	Flange		1
73	262	Bushing		1
74	263	Worm Gear	4.40	1
75	264	Key	4x12	1
76	265	Gear Shaft		1
77	266	Flange		1
78	266-1	Screw	4x12	3
79	267	H/L Speed Indication Label	140.0	1
80	268	Set Screw	M8x8	1
81	269	Spring	0.8x5x25	1
82	270	Ball	Ф 6.5	1
83	271	Knob	NAT: 40	1
84	272	Set Screw	M5x16	1
85	273	H/L Speed Label		1
86	274	Flange		1
87	275	Fork Shaft		1
88	276	Cap Screw	M3x4	6

CX600 - MILLING & DRILLING MACHINE Column, Table, Base Assembly



CX600 COLUMN, TABLE, BASE ASSEMBLY I

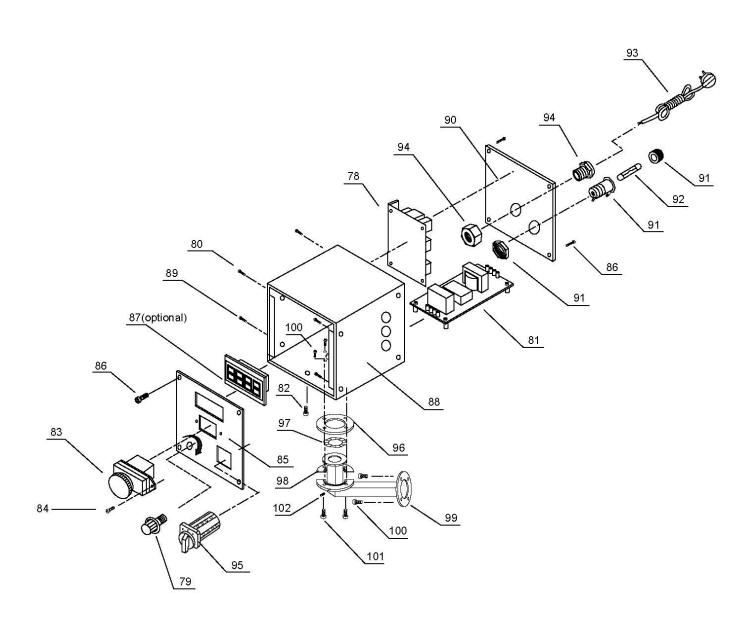
No.	Parts No	Description	Specification	Qty
90	1	Vertical Slide		1
91	2	Screw	M6x16	2
92	3	Washer		2
93	4	Spring Washer	8	6
94	5	Screw	M8x25	2
95	6	Wsher	Ф12	1
96	7	Spring Washer	12	5
97	8	Bolt	M12x40	1
98	9	T-Bolt	M10x60	1
99	10	Washer	M10	1
100	11	Spring Washer	M10	1
101	12	Nut	M10	1
102	13	Block		1
103	14	Brass Pin	Ф5х10	5
104	15	Locking Lever	M6x16	5
105	16	Gib Screw	M8	1
106	17	Gib		1
107	18	Angie Indication Label		1
108	19	Cap Screw	M5x10	12
109	20	Dust Cover	120x400mm	1
110	21	Nut	M5	2
111	22	Connect Rib		1
112	23	Dust Cover		1
113	24	Connect Rib		1
114	25	Nut	M16x1.5	2
115	26	Bearing	51203	1
116	27	Bevel Gear	26T	1
117	28	Key	4x16	2
118	29	Vertical Leadscrew	6T.P.I.	1
119	30	Vertical Leadscrew Nut	6T.P.I.	1
120	31	Cap Screw	M5x10	4
121	32	Cover		1
122	33	Screw	M8x20	4
123	34	Bracket		1
124	35	Flange		1
125	36	Screw	M5x12	7
126	37	Dial		1
127	38	Spring Piece		4
128	39	Handwheel		1
129	40	Locking Nut	M8	4
130	41	Handle	M10x80	1

CX600 COLUMN, TABLE, BASE ASSEMBLY II

	Parts No.	Description	Specification	Qty
131	42	Bearing	6001	2
132	43	Shaft		1
133	44	Key	4x12	2
134	45	Bearing Housing		1
135	46	Bush	Ф14 45 [#] steel	1
136	47	Gear	26T	1
137	48	Column		1
138	49	Label	A5x25	1
139	50	Pin	M6x16	10
140	51	Screw	M6x14	1
141	52	Left Bracket	\$1770 \$40000 CO FARE - 72	1
142	54	Working Table		1
143	55	Plug		1
144	56	Right Bracket		1
145	57	Handle	M8x63	3
146	58	Handwheel		3
147	59	Dial		3
148	60	Bearing	51200	3
149	61	Screw	M6x10	2
150	62	Bush	Ф15 45 [#] steel	2
151	63	T-Nut		1
152	64	Scale		1
153	65	Longitudinal Leadscrew	10T.P.I.	1
154	66	Longitudinal Nut	10T.P.I.	1
155	67	Adjusted Screw	M4x20	4
156	68	Cross Slide		1
157	69	Position Block		1
158	70	Cross Gib		1
159	71	Cross Nut	10T.P.I.(left)	1
160	72	Longitudinal Gib		1
161	73	Cap Screw	M6x25	2
162	74	Bearing Housing		1
163	75	Cross Leadscrew	10T.P.I.(left)	1
164	76	Base		1
165	77	Cap Screw	M12x90	4
166	78	Bearing	51100	2



CX600 MILL ELECTRICAL BOX ASSEMBLY



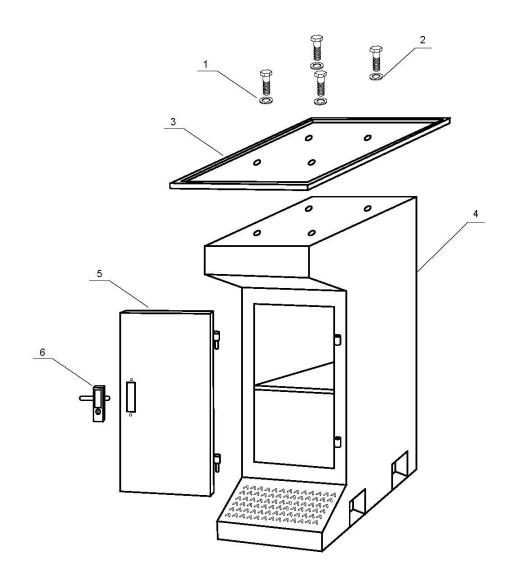
CX600 MILL ELECTRICAL BOX ASSEMBLY

No.	Parts No.	Description	Specification	Qty
1	78-1	Speed Control Board	KBLC-240D	1
2	79	Potentiometer		1
3	80	Screw	M3x8	4
4	81	Filter		1
5	82	Screw	M3x16	4
6	83	Magnetic Swich	KJD17B/120V	1
7	84	Screw	M4x10	2
8	85	Electrical Plate		1
9	86	Screw	M4x6	8
10	87	Speed Display		1
11	88	Electrical Box		1
12	89	Screw	M5x8	4
13	90	Cover		1
14	91	Fuse Holder		1
15	92	Fuse (10A)		1
16	93	Plug		1
17	94	Strain Relief		1
18	95	F/R Switch		1
19	96	Flange		1
20	97	Corrugated gasket		1
21	98	Clamping collar		1
22	99	Bracket		1
23	100	Screw	M5x10	8
24	101	Screw	M6x12	4
25	102	Set screw	M5x10	1
- 3				7



CX600 MILL STAND ASSEMBLY (Optional)

No.	Parts No.	Description	Specification	Qty
1	103	Screw	M10x35	4
2	104	Washer	Ф10	4
3	105	Chip Tray		1
4	106	Stand		1
5	107	Door		1
6	108	Lock		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 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.

