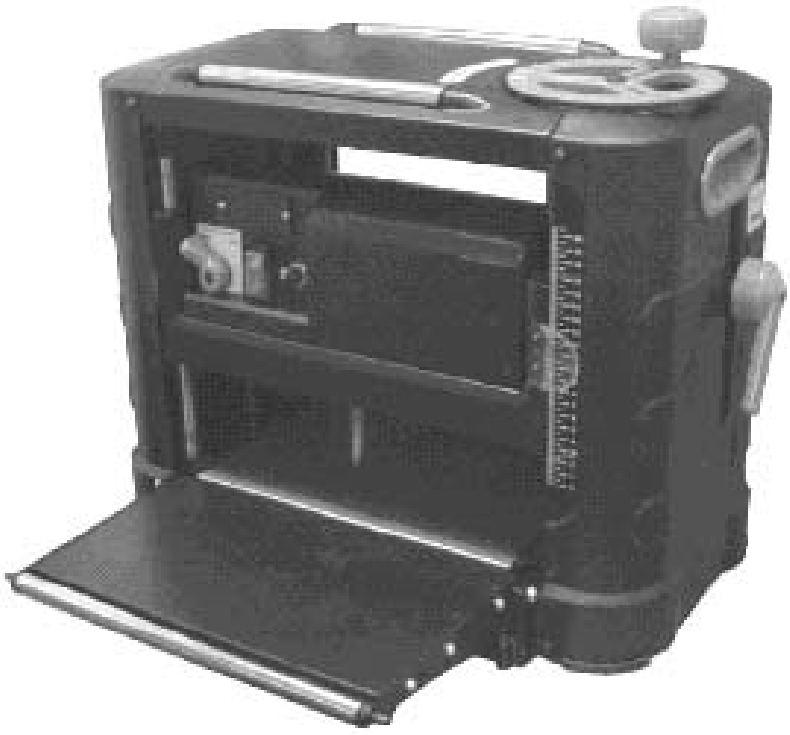
charnwood

Woodworking machinery at its best!

13” PORTABLE THICKNESSER OPERATING INSTRUCTIONS

MODEL: W575



CE

**Charnwood, Cedar Court, Walker Road, Bardon,
Leicestershire, LE67 1TU**

**Tel. 01530 516 926 Fax. 01530 516 929
Email; sales@charnwood.net website; www.charnwood.net**

Introduction

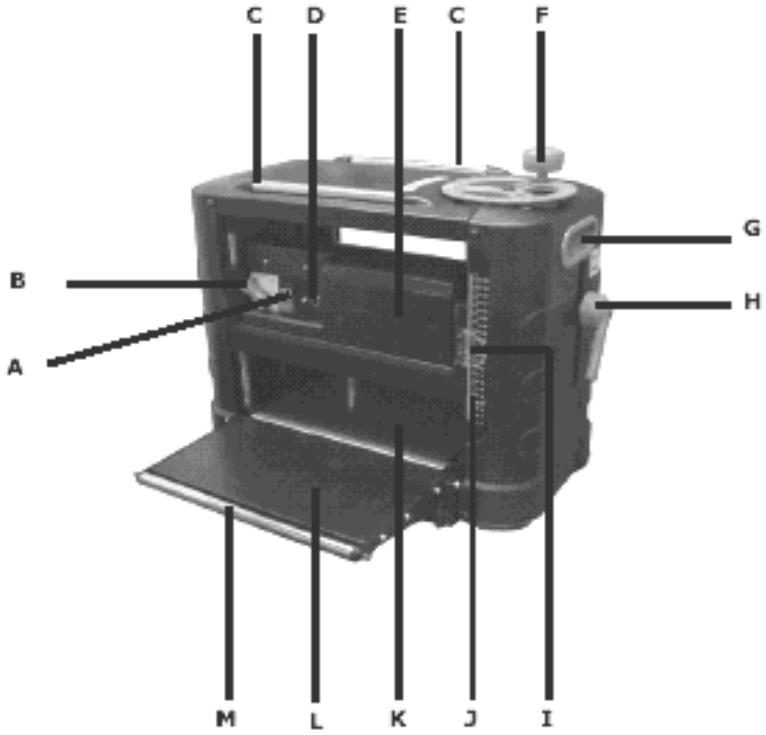
To get the most out of your new portable thicknesser, please read through this manual and safety instructions before use. Please also save the instructions in case you need to refer to them at a later date.

Technical data

Voltage/frequency	230 V ~ 50 Hz
Power rating	1800 watts
No load speed	8000rpm
Maximum width	330 mm (13”)
Thicknessing capacity	4.2-150 mm
Planing depth	0-3 mm
Work table	360 × 195 mm
Feed-in speed 1 (slow)	4 m/min
Feed-in speed 2 (fast)	6 m/min
No. of blades	2
Extractor outlet	65mm / 100 mm dia.

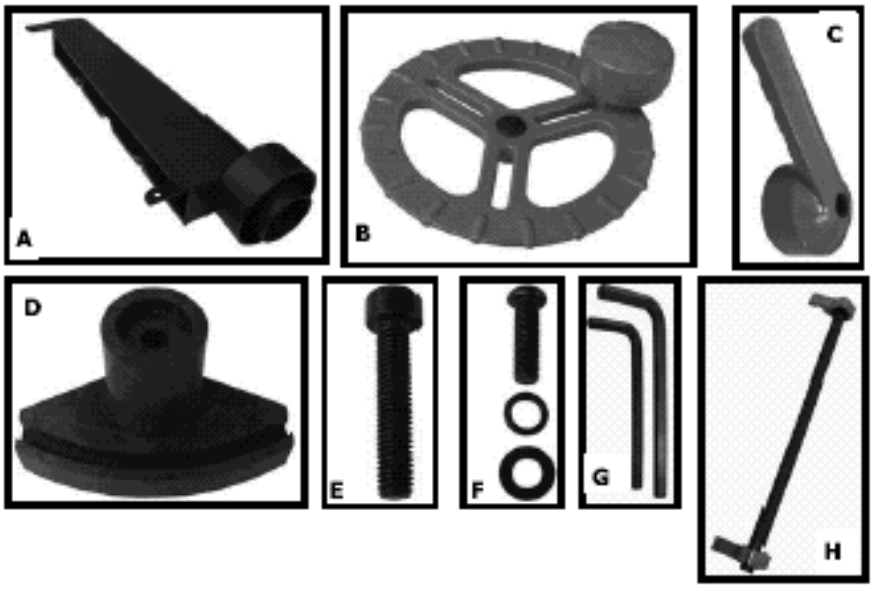
Main components

A. On / Off Switch
B. Feed rate Control
C. Auxiliary Roller
D. Motor Overload Switch
E. Motor
F. Height Adjust Wheel
G. Carrying Handle
H. Height locking handle
I. Scale indicator
J. Scale
K. Main bed
L. In Feed bed
M. In feed roller



Accessories

A. Extraction port
B. Height adjust wheel
C. Height locking handle
D. Rubber foot
E. M6 x 30mm allen bolt
F. M6 x 20mm cross head screw , washer & spring washer
G. 3mm & 5mm allen key
H. Blade setting device

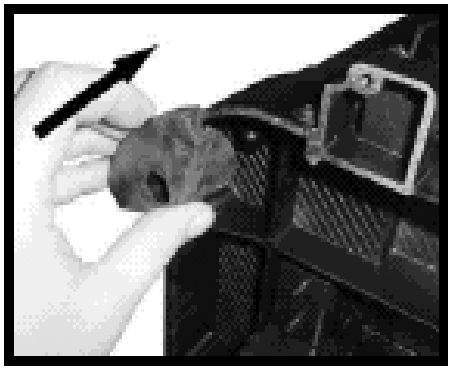


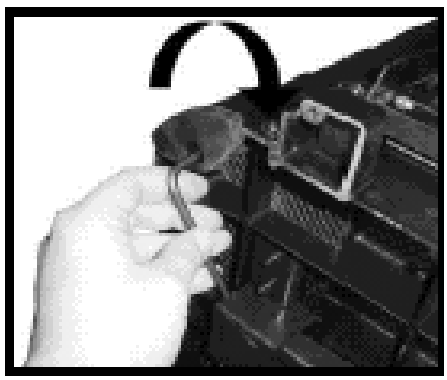
Special safety instructions

- For planing wood only.
- Never use the machine if the blade is not correctly locked in the blade housing.
- Never allow fingers or tools to get near the blade when machine is in use.
- Never try to plane across the grain.

Fitting the rubber feet (part#150)

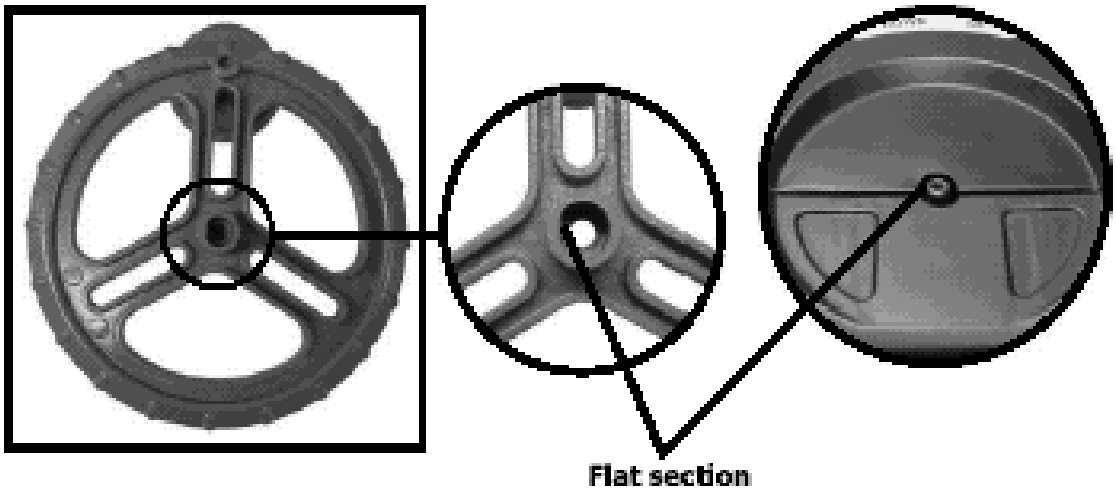
- Place the machine on a level surface and carefully tip backwards to show the bottom of the machine.
- Line up the rubber feet with the threaded section in each corner and push onto the machine. Secure each foot in place using one of the M6 x 30mm allen bolts. Use the 5mm allen key supplied to tighten (be careful not to overtighten as this may cause the casting to crack).
- Carefully lift the thicknesser back upright and make sure it is level and stable.





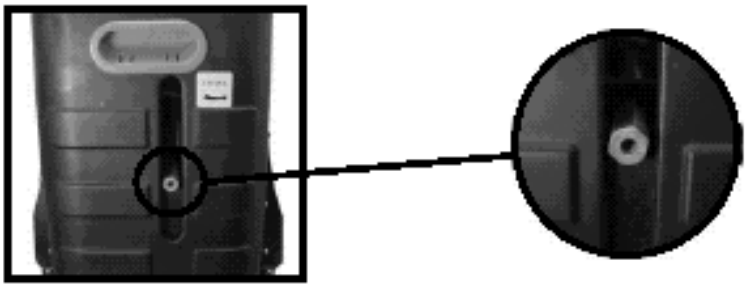
Fitting the height adjust wheel (part#24)

- Remove the rubber bung from the centre of the wheel
- Place the wheel onto the shaft on top of the machine ensuring that the flat section on the wheel lines up with the one on the shaft
- Using the M6 x 20mm crosshead screw, washer and spring washer secure the wheel to the shaft.
- Refit the rubber bung



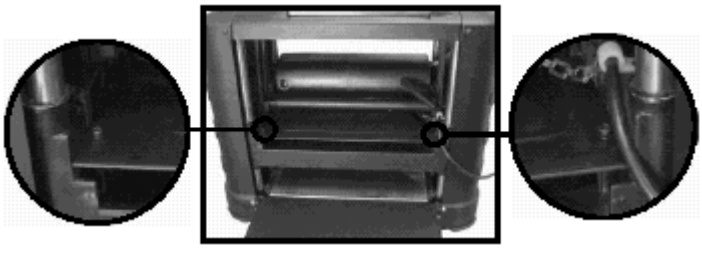
Fitting the height locking handle (part#17)

- Locate the allen bar (part#16) on the right hand side of the machine
- Fit the locking handle over the allen bar
- Secure in place using the remaining M6 x 30mm allen bolt and tighten using the 5mm allen key



Fitting the extraction port (part#27)

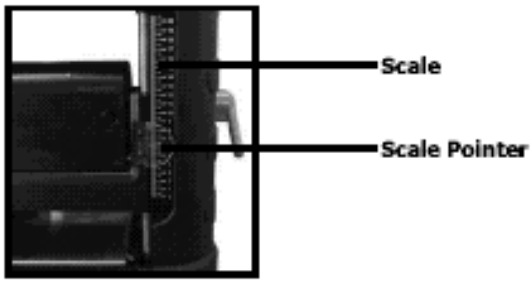
- Remove the two allen bolts at the back of the machine
- Slide the extraction port into place, making sure to line up the allen bolt holes
- Refit the two allen bolts
- Fit the two M4 x 12mm cross head screws at the back of the extraction port to secure in place
- Always ensure a suitable extractor is used when the extraction port is fitted to avoid blockages, we recommend the Charnwood W690 or W790 1hp extractors.



Operating Instructions

Adjusting the depth of cut

- The height of the cutter on the scale is the size of the workpiece after it has passed through the thicknesser. This height can also be viewed on the digital display
- Firstly ensure that the height locking handle (part#17) is unlocked
- Measure the size of your workpiece, then set the height to 1mm below the size of the workpiece using the height adjustment wheel (part#24)
- Lock the cutter block in place using the height locking handle (part#17)



Turning the thicknesser on

- Connect the machine to a suitable power supply
- Press the switch on the front of the machine to the on position, the motor will start to run
- You can set the feed speed by turning the speed adjustment knob (part#51) on the front of the panel. Slow speed is 4m/min, fast speed is 6 m/min. Only adjust this when the cutter block is running at full speed.
- Feed your workpiece into the front of the thicknesser making sure it is placed flat on the base of the machine. There are two spring loaded rubber coated feed rollers that will feed the workpiece through the thicknesser automatically
- Once your workpiece has been fed through turn the machine off and measure the height of the wood
- You can now repeat the above steps lowering the cutter height by up to 3mm at a time

Using the digital display

- Press the on/off button and the readout will appear in the digital display
- You can change the readout from metric to imperial by pressing the in/mm button
- By turning the height adjustment handle the readout will change to give the height of the workpiece once it has passed through the thicknesser
- Alternatively you can press the ABS button, this will change the readout to zero. This can be used once you have passed the workpiece through the thicknesser, you then measure the size of the wood. If you now need to take 3mm off the workpiece you turn the height adjustment wheel until the readout is –3mm. Feed the workpiece back through and it will now be at the correct size

Setting the digital display

- The W575 thicknesser is fitted with a digital display to give an accurate height reading.
- Once you have passed your first workpiece through the thicknesser you should measure the height and check that the digital readout is set correctly
- If it is not then you can recalibrate
- Press and hold the Zero button then press the P+ button. The word set will appear on the display and start flashing
- To adjust the readout up or down press and hold the P+ or P- button. It will take a few seconds for the readout to change.
- If you hold the button for several seconds the readout will gradually change quicker
- Once the readout is set correctly press the zero button and the ‘set’ will disappear

Thermal overload protection

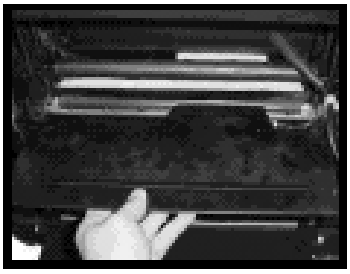
- The motor is protected against overheating and burnout by a thermal overload switch
- If this happens then it is simply reset by pressing the thermal overload button on the front of the control panel next to the on/off switch

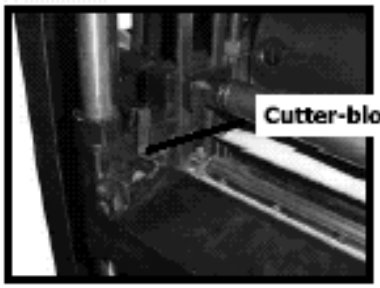
Maintenance

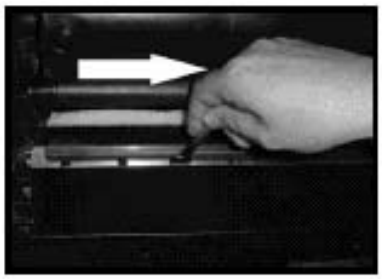
Replacing the blades

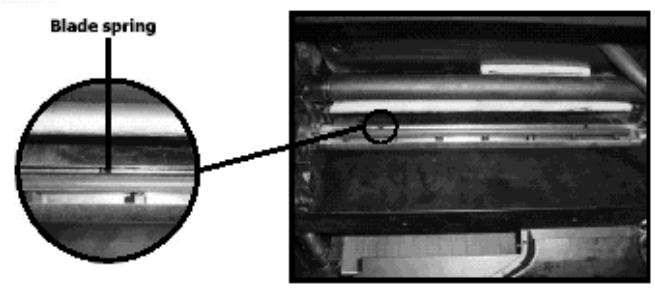
- The blades on this thicknesser can be reground to give a longer life
- Loosen and remove the screws and bolts that hold the extraction port in place
- Slide the dustproof cover(part#29) forward so you can gain access to the cutter block
- Lower the cutter block using the height adjustment handle until you have easy access to the cutter block
- Turn the cutter block until it is locked in the correct position to allow access to the blades. Be careful as the blades are extremely sharp, we recommend you use safety gloves

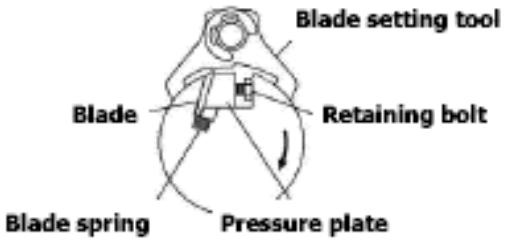
- There are 6 different lockable positions. Press the locking lever and turn the block until it is in the correct position
- Loosen the seven blade screws (part#74)
- Remove the blade from the cutter block taking note of the direction the blade is facing to ensure it is replaced the same way
- Place the new blade into the cutter block seating it on the two springs (part#75) and making sure it is positioned centrally
- Sit the blade setting device onto the cutter block and press down so the blade is set to the correct height
- Whilst holding down the blade setting device tighten up the seven blade screws
- Carry out the above steps for the second blade
- Once both blades are fitted slide the dustproof cover back over the cutter block and refit the extraction port









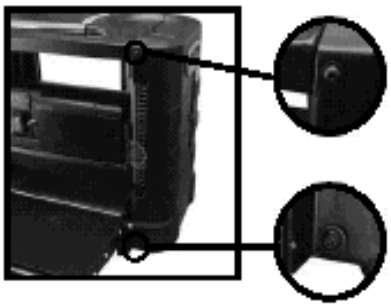


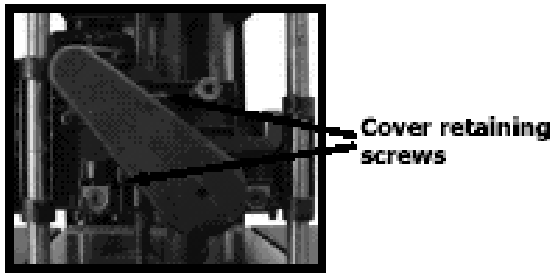
Replacing the motors carbon brushes

- When the carbon brushes get below 4mm they will need to be replaced. Follow the instructions below to check the brushes regularly and replace when necessary
- There are two brush covers (part#159) one is situated at the front of the machine and the other is located from the rear with the cutter wound down to the bottom to give easy access
- Using a flat screwdriver remove the brush cover, slide out the old brush and replace if necessary
- Refit the brush cover

Replacing the drive belt (Part#95)

- Remove the height locking handle (part#17) and height adjustment wheel (part#2)
- Unscrew the four allen bolts that hold the right hand side panel in place
- Slide the panel upwards and remove
- Unscrew the two screws that hold the belt cover (part#96) in place and remove the cover
- Rotate the cutter block pulley using the belt whilst slowly pulling the belt towards you. The belt should gradually come off the pulley.
- Replace the new belt in the same way





General cleaning

- Remove dust and chips regularly from machine with a brush or compressed air. Check that motor ventilation slots are not blocked.
- Lubricate all bearings and moving parts regularly with oil. Avoid getting oil on drive belt.
- Regularly remove sap and the like from the front and rear tables with household spirit or petroleum.

Environmental information

You can help protect the environment! Follow local environmental regulations:
Dispose of unwanted electrical equipment at an approved refuse disposal centre.

Troubleshooting

Problem	Possible cause	Possible solution
Motor is slow or weak	- voltage from source is low	- Request a voltage check from local power company
	- Windings are burned out or open	- Have the motor checked, repaired or replaced
	- NVR switch is defective	- Have the NVR checked, repaired or replaced
	- Circuit is overloaded with appliances, lights or other electrically powered equipment	- Do not use other appliances or electrically powered equipment on the same circuit when using the thicknesser
Motor regularly overheats	- Voltage from source Is low	- Request a voltage check from the local power company
	- Dull blades	- Replace the blades
	- Sawdust inside machine is blocking airflow	- Clean out the thicknesser
	- Feed rate too fast	- Reduce the feedrate
	- Too much material being removed per pass	- Reduce the amount of material being removed per pass
Motor does not start	-No power at mains Supply	- Check the mains supply
	- Defective switch, motor or mains lead	- Have the machine inspected by a suitably qualified person
	- Overload has cut the power to the motor	- Leave the machine to cool for 10–15 minutes
Poor finish on work piece	- Dull/ damaged blades	- Resharpen or replace Blade
	- Blade blocked by Chipping's or resin	- Clean the blades
	- Too much material being removed per pass	- Make more passes with smaller cuts
	- High moisture content in work piece	- Dry out workpiece or use a different piece
Un-parallel workpiece After cut	- Blades incorrectly set	- Reset blades parallel

Charnwood W575 Parts List

Part no.	Description
1.	Flat washer
2.	Pressure plate
3.	Locking shaft
4.	Pin
5.	Screw
6.	Bush
7.	Upper cover
8.	Locking bar
9.	Roller
10.	Key
11.	Bolt
12.	Rotation label
13.	Pin shaft
14.	Positioning shaft
15.	Spring pin
16.	Allen bar
17.	Height locking handle
18.	Height adjust knob upper
19.	Screw
20.	Height adjust knob lower
21.	Rubber bung
22.	Cross head screw
23.	Spring washer
24.	Height adjustment wheel
25.	Cross head screw
26.	Flat washer
27.	Extraction port
28.	Foam guard
29.	Dustproof cover
30.	Screw
31.	Gear
32.	Gear
33.	Gear
34.	Key
35.	Adjustable bar
36	Bearing
37	Washer
38	Bearing
39.	Gear box supporter
40.	Gear bar
41.	Flat washer
42.	Cross head screw
43.	Shaft circlip
44.	Gear
45.	Speed adjustment bracket
46.	Washer

Part no.	Description
47.	Steel Ball
48.	Positioning spring
49.	Hex bolt
50.	Speed adjustment shaft
51.	Speed adjustment knob
52.	Hex bolt
53.	Hex bolt
54.	Spring washer
55.	Flat washer
56.	Gear box cover
57.	Shaft circlip
58.	Sprocket
59.	Hex bolt
60.	Adjustable nut
61.	Gear box support
62.	Bearing
63.	Sleeve
64.	Gearing
65.	Gearing
66.	Gear spindle
67.	Gear spindle
68.	Sprocket spindle
69.	Sleeve
70.	Sleeve
71.	gear
72.	Blade
73.	Blade pressure plate
74.	Blade screw
75.	Spring
76.	Cutter block
77.	Pin
78.	Drive wheel
79.	Nut
80.	Circlip
81.	Bearing
82.	Body
83.	Cord clamp
84.	Spring washer
85.	Dustproof plate
86.	Nyloc nut
87.	Adjustable nut
88.	Spring
89.	Plate
90.	Hex bolt
91.	Motor connection plate
92.	Flat washer

93. Hex bolt
94. Cross head screw
95. Drive belt
96. Belt cover
97. Motor fixture bar
98. Indicator
99. Cross head screw
100. Bearing
101. Circlip
102. Positioning flange
103. Feed roller
104. Spring
105. Oil bearing
106. Shaft circlip
107. Sprocket
108. Sprocket sleeve
109. Sprocket
110. Bearing cover
111. Hex bolt
112. Nut
113. Washer
114. Hex bolt
115. Extension table roller
116. Extension table
117. Cross head screw
118. Connection plate
119. Nyloc nut
120. Screw
121. Worktable
122. Connection plate
123. Motor
124. Column sleeve
125. Stand plate
126. Column
127. Adjustable thread
128. Pin
129. Bevel gear
130. Hex bolt
131. Thread guard
132. Rail pressure bracket
133. Base
134. Allen bolt
135. Nut
136. Allen bolt
137. Band spring
138. Coil spring
139. Lower guard
140. Scale
141. Socket handle
142. Left housing
143. Cable clip
144. Cross head screw
145. Shaft circlip
146. Drive shaft cover
147. Hex bolt
148. Flat washer
149. Transmission shaft
150. Rubber foot
151. Oiled bearing
152. Bag keep plate
153. Bag
154. Bearing
155. Sel tapping screw
156. Coil
157. Armature
158. Adjustable thread
159. Carbon brush cap
160. Carbon brush
161. Carbon brush holder
162. Motor housing
163. Hex bolt
164. Circlip
165. Belt pulley
166. Cord
167. Self tapping screw
168. Cord clamp
169. Cord sleeve
170. Control panel housing
171. Cable protection ring
172. Self tapping screw
173. Cable protection ring
174. Motor cover
175. Self tapping screw
176. Rear motor cover
177. Capacitor
178. Switch
179. Self tapping screw
180. Thermal overload protector
181. Nyloc nut
182. Plastic cover
183. Anti reverse plate holder
184. Anti reverse plate
185. Anti reverse plate base
186. Washer

Charnwood W575 Exploded View Diagram