

Service Manual

Rangehood

Models:

HC60DCXB 1

HC90DCXB 1

HC120DCXB 1

Product Codes:

89369

80701

89361

80702

89362



care

PRODUCTS

Brand: Fisher & Paykel

Voltage: 220–240v 50Hz

Models:

Model	Description	Product Code - Market
HC60DCXB1	Brushed Stainless Steel 60cm Wide	89368 – GB
HC90DCXB1	Brushed Stainless Steel 90cm Wide	80701 – AA 89361 – GB
HC120DCXB1	Brushed Stainless Steel 120cm Wide	80702 – AA 89362 – GB

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The specifications and servicing procedures outlined in this manual are subject to change without notice.

The latest version is indicated by the reprint date and replaces any earlier editions.

GUIDE TO USING THIS MANUAL

The model covered by this manual is listed on the front cover.






The front cover picture shows the type of product and may not necessarily be an exact image of the model covered by the manual.

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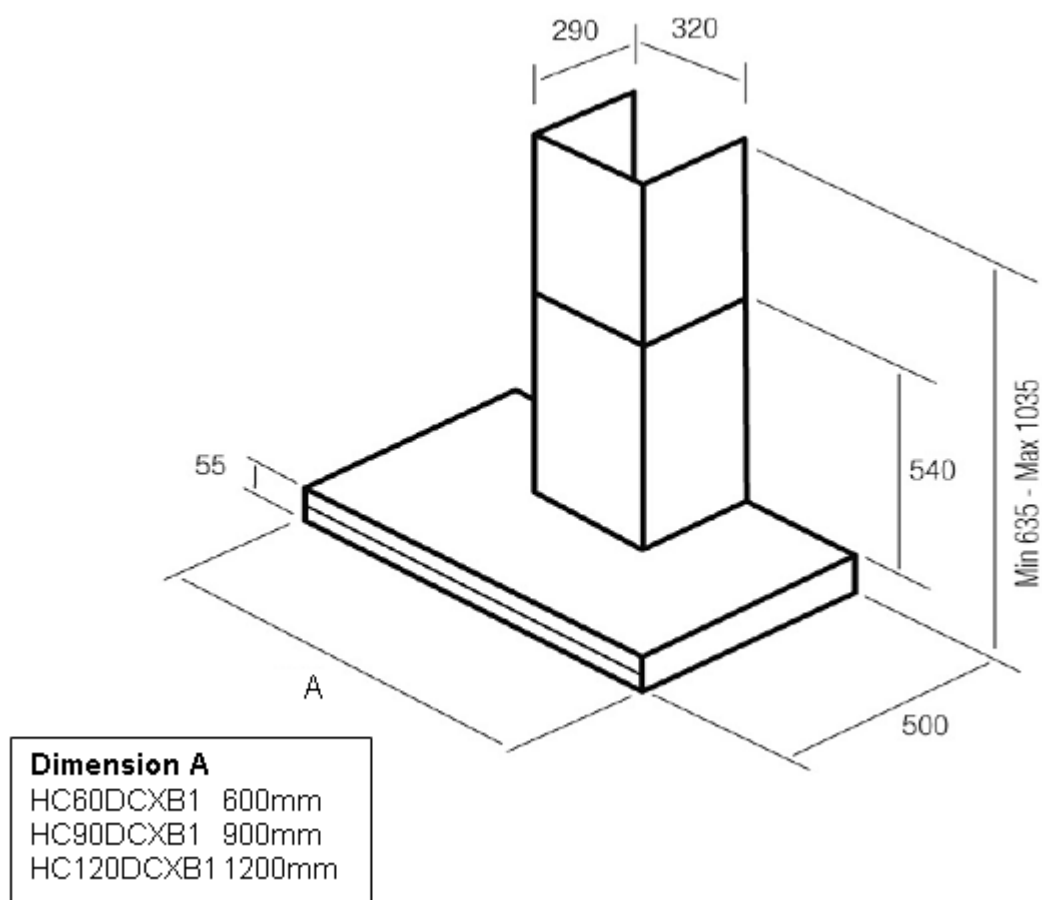
1 HEALTH & SAFETY

When servicing the Range Hood, Health & Safety issues must be considered at all times. Specific safety issues are listed below with the appropriate icon.

	<p>Electrical Safety</p> <p>Ensure the mains power has been disconnected before servicing the Appliance.</p> <p>If the mains supply is required to be on to service the Appliance, make sure it is turned off when removing any electrical component or connection to avoid electric shock.</p>
	<p>Electrostatic Discharge</p> <p>An anti-static strap is to be used as electrical static discharge (ESD) protection when servicing electronic components.</p>
	<p>Good Working practices</p> <p>Ensure the work area is in a tidy and orderly condition at all times so as not to cause a hazard while service work is being completed. Always clean and tidy the Appliance and work area after service is completed.</p>
	<p>Insulation test</p> <p>Megger test to check insulation</p> <p>Warning: short together the phase and neutral pins on the plug so not to damage any electronic circuitry.</p>
	<p>Sharp Metal Edges</p> <p>When working around cut sheet metal edges, use appropriate gloves or protection to eliminate the change of receiving a laceration.</p>

2 SPECIFICATIONS

2.1 Product Dimensions



2.2 Product Weight

HC60DCXB1	13.1 Kg
HC90DCXB1	14.8 Kg
HC120DCXB1	28 Kg

2.3 Electrical Ratings

220 – 240V 50Hz 370W

2.4 Noise Ratings (dba)

Speed 1	42
Speed 2	51
Speed 3	60

2.5 Maximum Air Flow (m3/Hr)

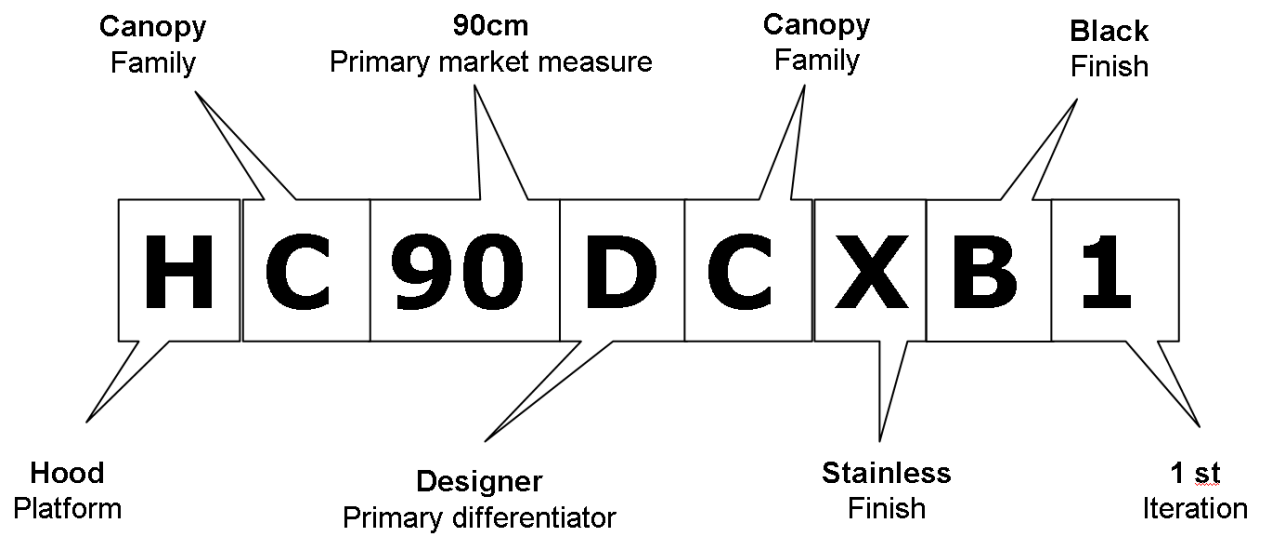
Speed 1	438
Speed 2	615
Speed 3	800

3 Serial Number

This is located underneath the Aluminium Filters.



4 Model Code Convention



5 Filters

5.1 Replacing Aluminium Filters

- Depending on use, and at least once a month, the aluminium grease filters should be removed and cleaned in a dishwasher or with hot soapy water. If washed in a dishwasher, the filters should be placed in an upright position to prevent food from falling on them. After rinsing and drying, replace the filters by reversing the following instruction for removal.

Note: some discolouration of the frames may occur.

- Removing the aluminium filters:
- Pull the relative catch, tilting it downwards until it disengages from the supports.
- Reverse these instructions when refitting the filters.



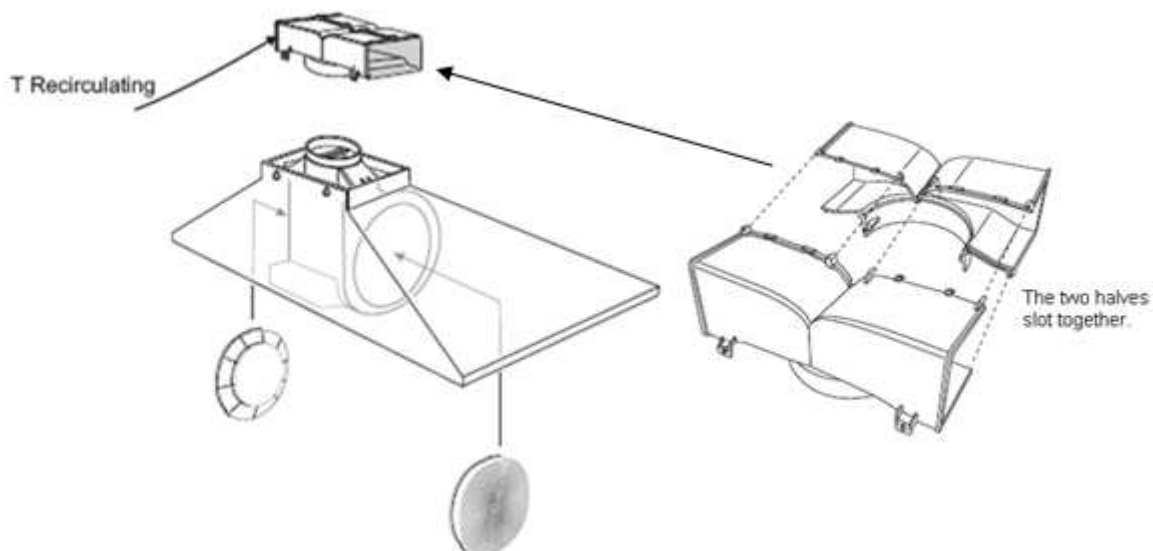
5.2 Carbon Filter

Active carbon filters are disposable items designed to remove grease and odours from cooking vapours before the air is channelled back into the kitchen. The active carbon filters must be replaced periodically to work properly, at least once every three months, depending on the frequency with which the wall canopy is used.

5.3 Recirculation

To recirculation your wall canopy, please purchase a recirculation kit (part no. 791820) and carbon filters (part no. 791823). The recirculation kit is required to channel the air out through the side-vents at the top of the flue.

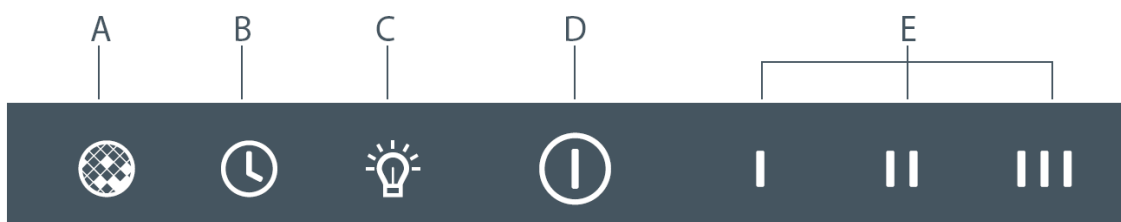
Note: a ducting hole is not required in the wall or ceiling if a recirculation kit is fitted.



6 Operation

6.1 Five-Button Control Panel

- A** Filter cleaning alert indicator
Activates to alert of the need to clean filters and deactivated with a single press
- B** Timer button
The fan will operate for 15 minutes before automatically turning off
- C** Light button
Turns the lights ON and OFF. Press and hold button to adjust the level of light.
- D** Power ON/OFF
- E** Fan speed buttons (1st, 2nd and 3rd speed)



6.2 Using the Automatic Timer

To operate the automatic timer

- Select the fan speed.
- Press the button for two seconds until the LED light blinks.
- The timer will work for 5 minutes at the current speed and 5 minutes at each of the lower speeds until coming to a complete stop. At the end of this time, the motor will stop and the light will go out.
- To cancel the timer: press the timer button once and the motor will stop.

7 Service Procedures

7.1 Removing Inner Panel

- Disconnect the mains supply to Rangehood
- Remove the aluminium filter
- Remove the 12 screws (figure 1)
- Lift inner panel off (figure 2)
- Reassemble in reverse order

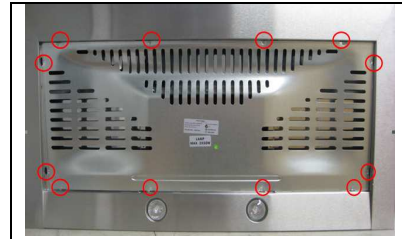


Figure 1



Figure 2

7.2 Replacing the Halogen Lamps

- Disconnect the mains supply to Rangehood
- Allow the lamps to cool down
- Remove the aluminium filter
- Remove the inner panel (refer Section 7.1)
- Turn halogen lamp to the anticlockwise (figure 3)
- Remove halogen lamp (figure 4)
- Reassemble in reverse order



Figure 3



Figure 4

7.3 Removing Lamp Holders

- Disconnect the mains supply to Rangehood
- Remove inner panel (refer section 7.1)
- Remove halogen lamp (refer section 7.2)
- Turn lamp holder 90° (figure 5)
- Remove lamp holder (figure 6)
- To disconnect wiring (refer section 7.7)
- Reassemble in reverse order



Figure 5



Figure 6

7.4 Removing the Touch Controller PCB

- Disconnect the mains supply to Rangehood
- Remove inner panel (refer section 7.1)
- Remove the 2 screws holding the controller (figure 7)

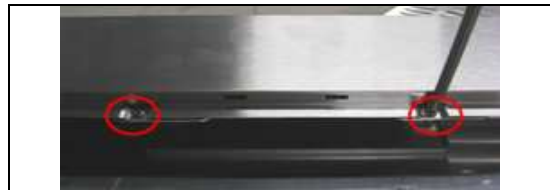


Figure 7

- Slide controller out (figure 8)



figure 8

- Remove the 2 screws hold bracket (figure 9)



figure 9

- Remove 4 screws in the controller cover and remove cover (figure 10)



Figure 10

- Slide out PCB board and disconnect wiring harness (figure 11)

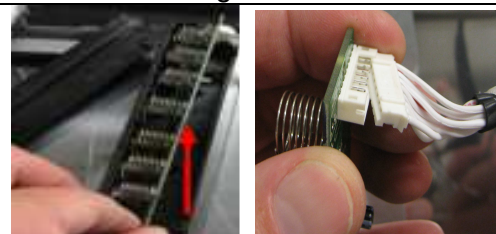


Figure 11

- Reassemble in reverse order

7.5 Motor Removal and Replacement

- Disconnect the mains supply to Rangehood
- Remove the chimney covers and remove Rangehood from wall
- Remove the lamp holder brackets by removing the 3 screws per bracket on the rear of the motor housing (figure 12)
- Remove the 2 screws on the rear of motor housing (figure 13)
- Inside the motor housing remove the 4 screws (2 on each side) holding the motor (figure 14)
- Move the motor to the left and slide the power cord grommet out of the housing (figure 15). The motor can now be removed from the motor housing
- Reassemble in reverse order



Figure 12



Figure 13



Figure 14



Figure 15

7.6 Motor Disassembly

- Remove motor from housing (refer section 7.5)
- Remove the three screws on the end cover (figure 16)



Figure 16

- Lift motor from cover (figure 17)



Figure 17

- Remove the fan blade by undoing the centre nut and slide the fan blade off the shaft (figure 18)



Figure 18

- The motor can now be removed from the end cover by turning motor clockwise and lifting off (figure 19)



Figure 19

- Removed the mounting bracket by removing the two nuts (figure 20) and lifting off
- Resemble in reverse order.



Figure 20

7.7 Connection Box Components and Removal

Located on the side of the motor

- To access the components in the connection box unscrew the 4 screws indicated in figure 21 and the cover will lift off
- To remove the complete connection box unscrew the 2 screws indicated in figure 21 and the complete box will lift off

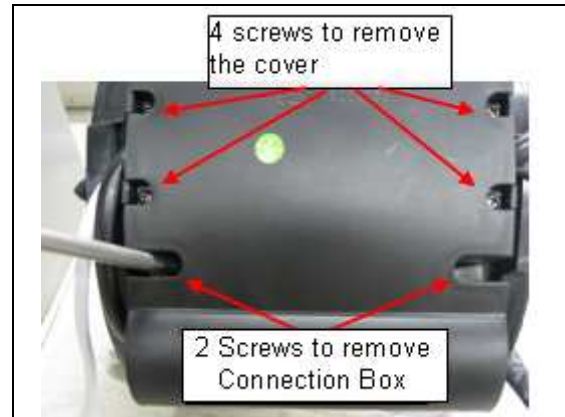


Figure 21

7.8 Power Module Replacement

Located inside the connection box

- Replace Power Module by removing the connection box cover (figure 21)
- Transferring all wiring connections to the replacement power module
- Remove the two screws indicated in figure 22 and lift old power module out of connection box and refit the replacement power module
- Refit the connection box cover

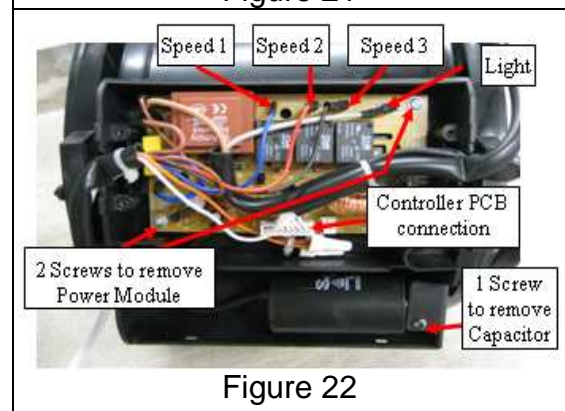


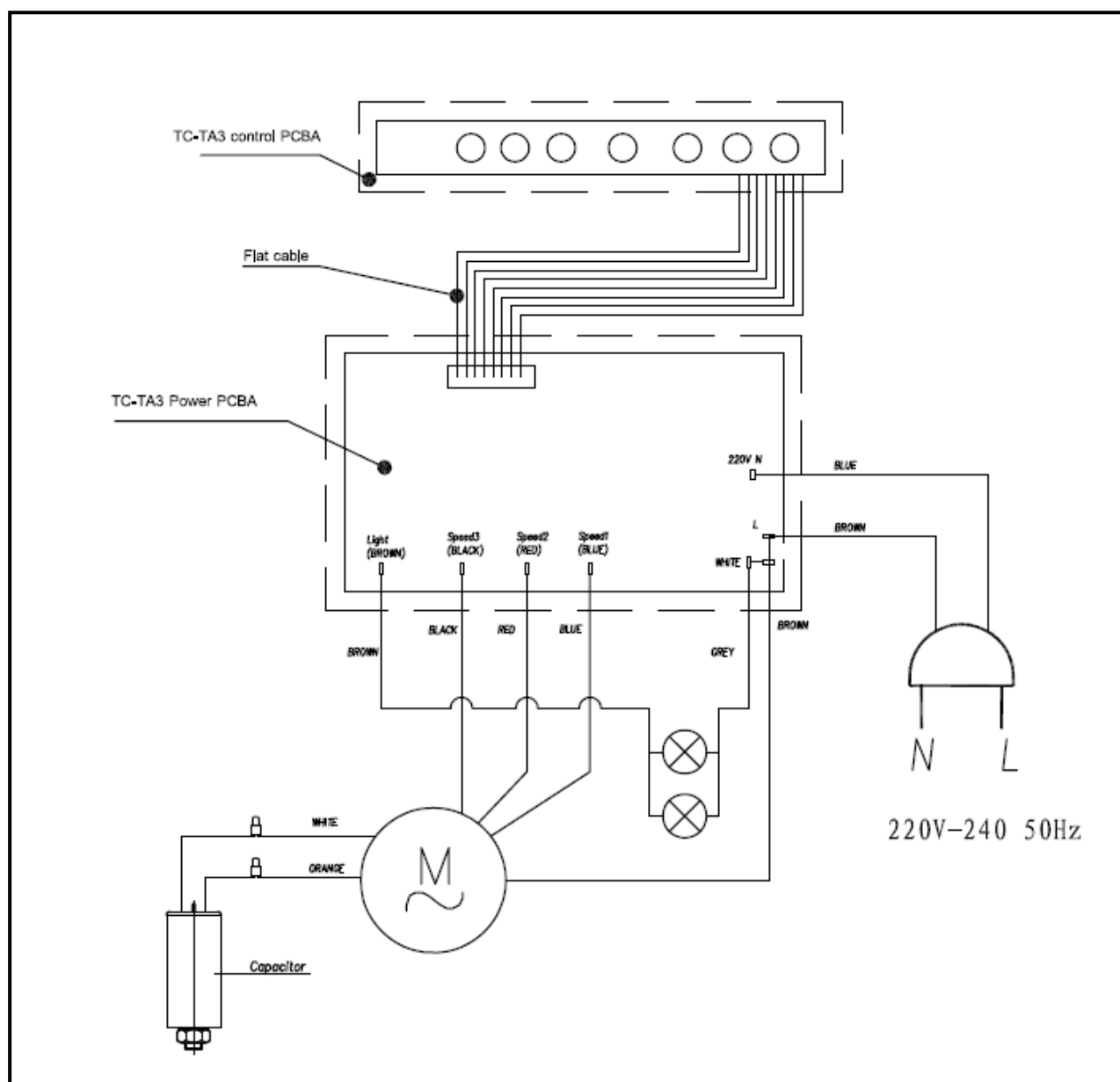
Figure 22

7.9 Motor Capacitor Replacement

Located in the connection box

- Replace the Motor Capacitor by removing the connection box cover (figure 21)
- Removing the screw indicated in figure 22 and transfer wiring to replacement capacitor
- Fit the replacement capacitor
- Refit the connection box cover

7.10 Wire Diagram



8 Notes