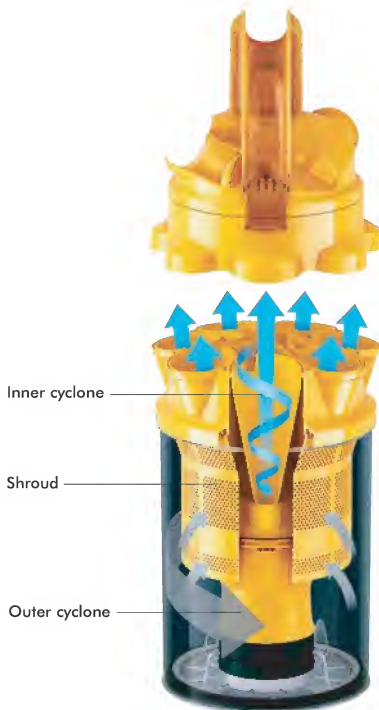


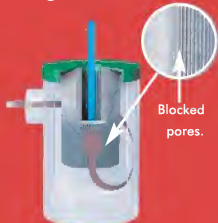


## How patented Root Cyclone™ technology doesn't lose suction



Constant suction in the **outer cyclone** separates large dirt and debris. The **shroud** filters out fluff and hair, then centrifugal forces of 200,000 Gs in the **inner cyclones** spin the finest harmful particles into the bin. Dust is kept away from the filters, so it doesn't lose suction. Air expelled is 150 x cleaner than the air you breathe.

Other cleaners rely on bags and filters.



But these clog with dust and quickly lose suction.

Dyson cyclones spin dust out of the airflow.



With nothing to clog the Dyson doesn't lose suction.

The manual has been provided to you on the condition that you, your employees, affiliates, contractors, agents and representatives will keep confidential the contents of the manual, and will not disseminate, distribute, or copy the manual, or otherwise display the manual for any other purpose other than for reference during servicing of vacuums. The manual is provided under limited license, and must be returned to Dyson immediately upon request.

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- 1.2 Variants
- 1.3 Specifications
- 1.4 Assembling DC14
- 1.5 Operating DC14
- 1.6 Emptying the clear bin™
- 1.7 Cleaning the clear bin™ and shroud
- 1.8 Washing the pre-motor filter
- 1.9 Finding and clearing blockages
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- 2.2 Electrical safety testing

**Fitting notes 3.0**

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- 5.1 Exploded view
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## 1.1 Introduction

This manual is written specifically for Dyson trained engineers and covers the DC14 Root<sup>8</sup> cyclone™ range. The service instructions assume the engineer has the approved tools and test equipment with them.

## 1.2 Variants



DC  
14 telescope reach



DC  
14 all floors



DC  
14 allergy



DC  
14 animal

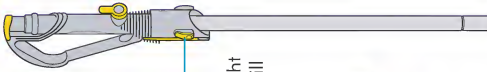
The DC14 range advances on from the DC07. The main developments are the telescope reach wand, a quick release wand with no awkward parts to assemble for instant high-reach cleaning. The large debris channel, an additional front channel on the cleaner head means that larger dirt and debris is not snowploughed across a smooth floor, so you can pick up bigger bits such as rice and nuts first time. A lowered handle for easier carrying. All DC14 machines incorporate one-touch bin emptying to avoid contact with dust. The animal variant also includes a dyson designed Mini Turbine Head, ideal for removing pet hair and fibres from confined spaces such as upholstery, stairs and the car.

### 1.3 Specifications

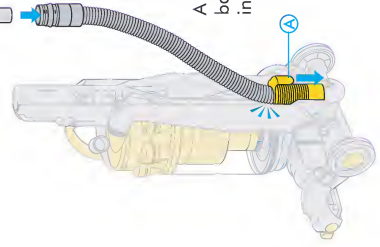
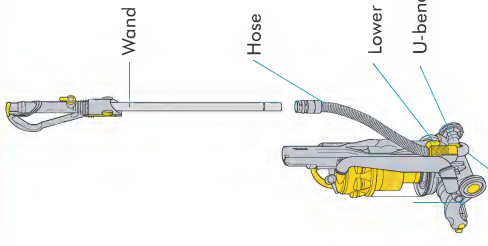
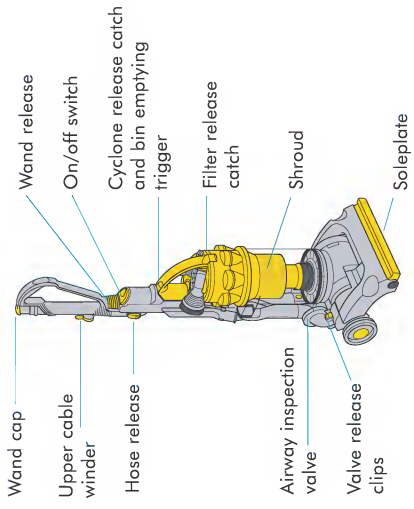
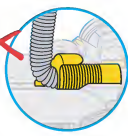
	DC14 telescope reach steel/yellow	DC14 all floors steel/white	DC14 allergy steel/steel	DC14 animal steel/lavender
Root®Cyclone™	✓	✓	✓	✓
Airwatts (constant)	280	280	280	280
Pre-filter	Lifetime	Lifetime	Lifetime	Lifetime
Post-filter	Pad	Pad	HEPA	HEPA
Telescope reach wand	✓	✓	✓	✓
Brush control	✗	✓	✓	✓
Trigger bin emptying	✓	✓	✓	✓
Large debris channel	✗	✓	✓	✓
Mini turbine head	✗	✗	✗	✓
Bin capacity	2.5 litres	2.5 litres	2.5 litres	2.5 litres
Cable length	8.2m	8.2m	8.2m	8.2m
Maximum reach	13.6m	13.6m	13.6m	13.6m
Height	1140mm	1140mm	1140mm	1140mm
Width	355mm	355mm	355mm	355mm
Depth	340mm	340mm	340mm	340mm
Operational weight	8.5kg	8.5kg	8.5kg	8.5kg
Motor	1350w	1350w	1350w	1350w

overview

### 1.4 Assembling DC14



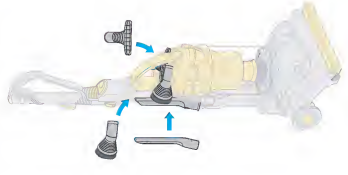
**B** Slide wand straight down into hose until it clicks into place.



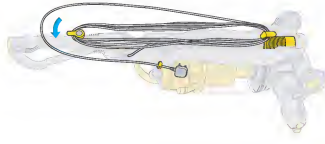
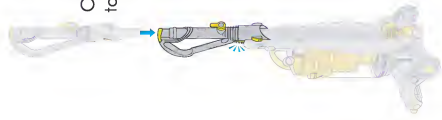
**A** Slide hose into runners at back of machine and click into place.

Airway inspection(U-bend)

Click tools into place

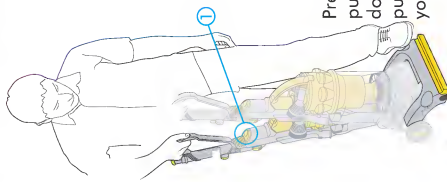


Click wand handle into top of machine

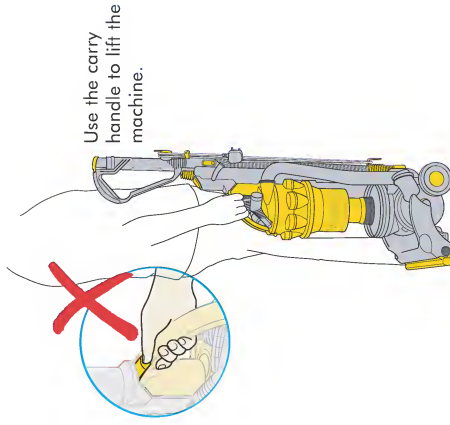


Wind cable anti-clockwise around cable winders and secure with clip.

## 1.5 Operating DC14



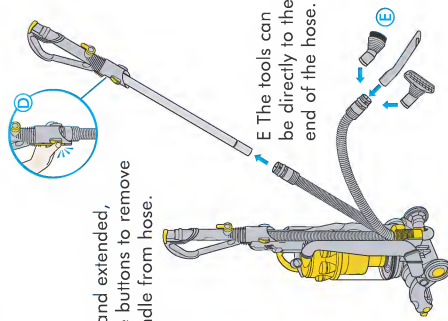
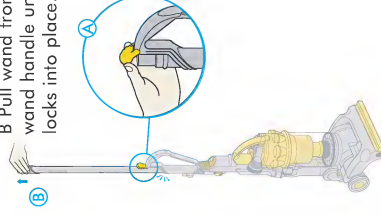
Press on/off button 1, push cleaner head down with foot and pull handle towards you.



Use the carry handle to lift the machine.

### Tools

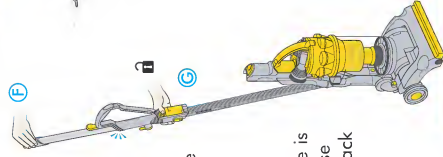
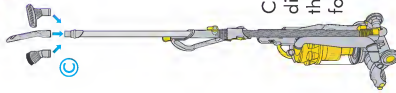
- A Push back wand cap
- B Pull wand from inside wand handle until it locks into place.



D With wand extended, press side buttons to remove wand handle from hose.

E The tools can be directly to the end of the hose.

C Tools can be fitted directly to the end of the wand and hose for hard to reach places.



F Press button to release hose and wand handle from machine.

G To push wand back inside hose, ensure hose is straight. Press the release catch and push wand back inside wand handle

Always work with the machine at the bottom of the stairs.

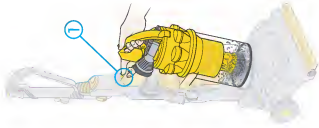


### 1.6 Emptying the clear bin™

Turn the machine off and disconnect from power supply.

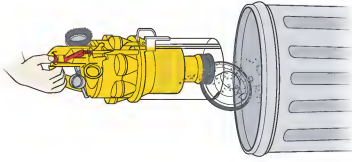


Empty the clear bin™ as soon as the MAX mark is reached. Press catch 1 to release cyclone from machine.



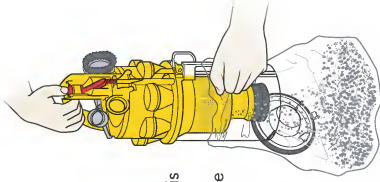
#### Option A

Push the button as shown to release the bin base and empty directly into dustbin.

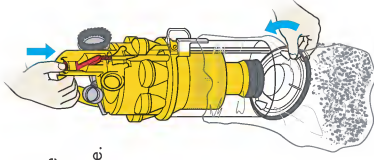


#### Option B

Emptying into a bag is recommended for allergy sufferers. Place bin in bag and pull trigger to release bin base.

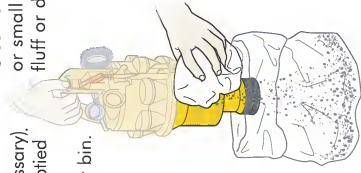


Let the dust settle, close bin base securely before removing from bag. Place back onto machine.

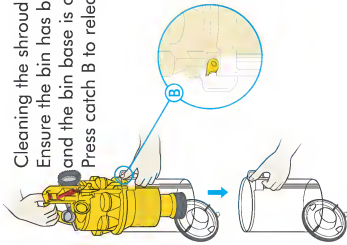


### 1.7 Cleaning the clear bin™ and shroud

Clean shroud with a cloth or small brush to remove fluff or debris.



Cleaning the shroud (if necessary). Ensure the bin has been emptied and the bin base is open. Press catch B to release clear bin.

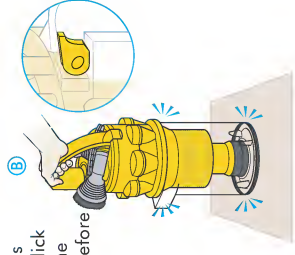
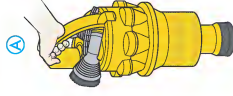
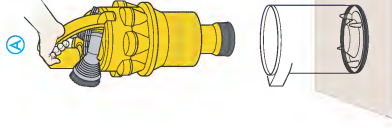


#### Cleaning the clear bin™

- Do not use detergents, polishes or freshening products.
- Do not immerse the cleaner in water.
- Ensure the bin is completely dry before refitting.

#### Replacing the shroud

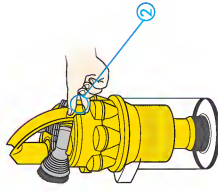
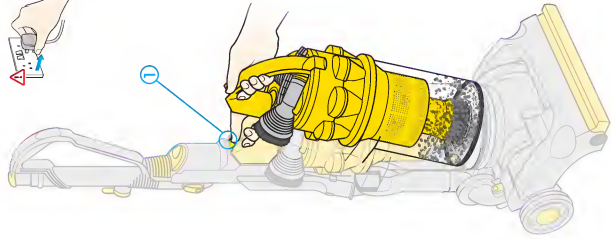
- A Hold the carry handle and place the cyclone into the clear bin.
- B Line up the catches and push down to click into place. Ensure the clear bin is secure before replacing on the machine.



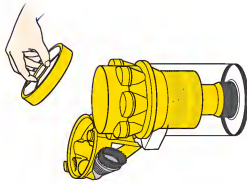


### 1.8 Washing the pre-motor filter

Turn the machine off and disconnect from power supply.



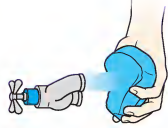
**Accessing the filter**  
Lift filter release catch **2** and remove filter from machine.



The filter may require washing more frequently if vacuuming fine dust. Press catch **1** to release cyclone pack.



**A**

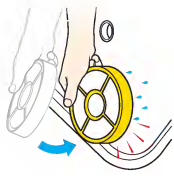


- A. Washing the filter**
- Wash filter and case in cold water only.
  - Only wash blue foam and yellow case.
  - Do not use detergent.
  - Do not put the filter in the dishwasher, washing machine, oven, tumble dryer, microwave or near a naked flame.

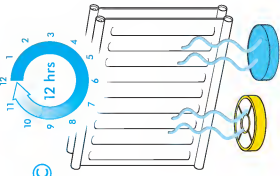


**B**

**B** Wash filter and case until water runs clear.



**C**



**C** Dry for at least 12 hours.

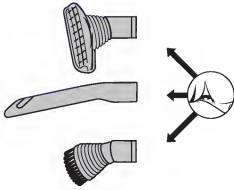
Ensure filter and case are completely dry before refitting onto the machine.

### 1.9 Finding and clearing blockages

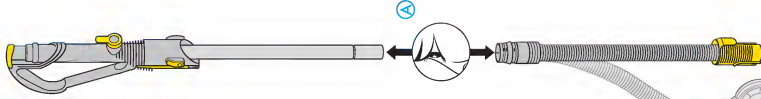


Turn the machine off and disconnect from power supply.

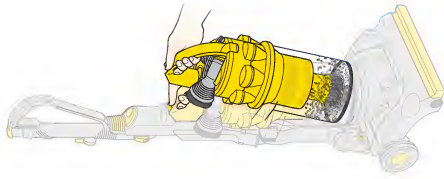
Check tools are clear of blockages.



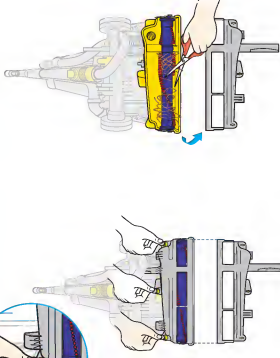
A Remove wand and check inside wand and hose for blockages.



B Press hose release button at front of machine and slide hose out with lower cable winder at rear.

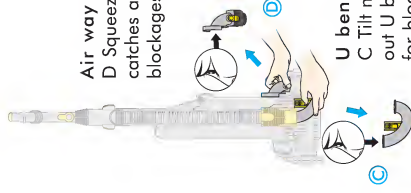


Remove cyclone assembly.




**Brushbar obstruction**  
Lie cleaner on its front. Undo fasteners using a coin and remove soleplate. Remove fluff and hair from brushbar. Replace soleplate and tighten fasteners.

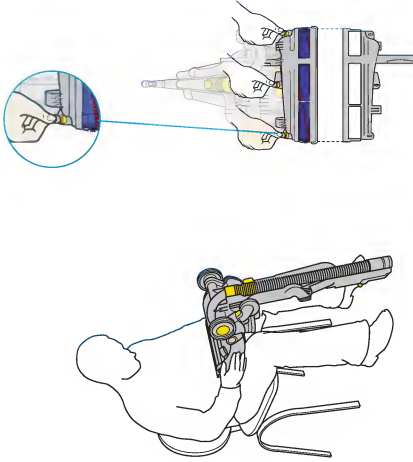
**Air way inspection**  
D Squeeze valve release catches and check inside for blockages.



**U bend inspection**  
C Tilt machine forward, slide out U bend and check inside for blockages.

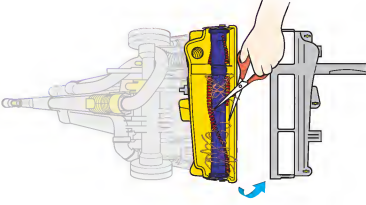
## 1.10 Changing/fitting the belt

 Turn the machine off and disconnect from power supply.

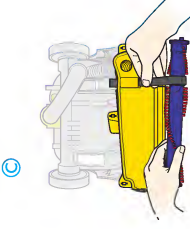


Remove wand and turn machine upside down.

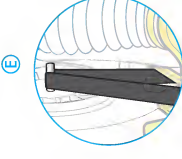
A Undo fasteners using a coin, slide back the end caps and remove the soleplate.



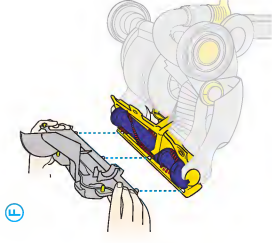
B Remove dirt and debris and check spindle is clean.



C To replace the belt, remove the brushbar, loop belt around brushbar and feed through hole.



E Use back of cleaner as lever, loop belt around thumb. Turn the belt 90 degrees, stretch and release over spindle. Belt must be free of twists as shown.



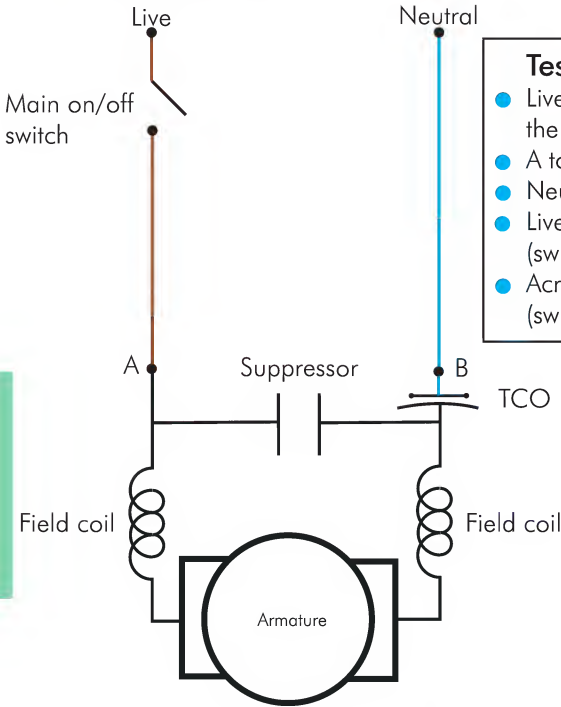
F Rest the three tabs on inside of yellow bumper strip and secure soleplate back into position.



D Check end caps are in place.

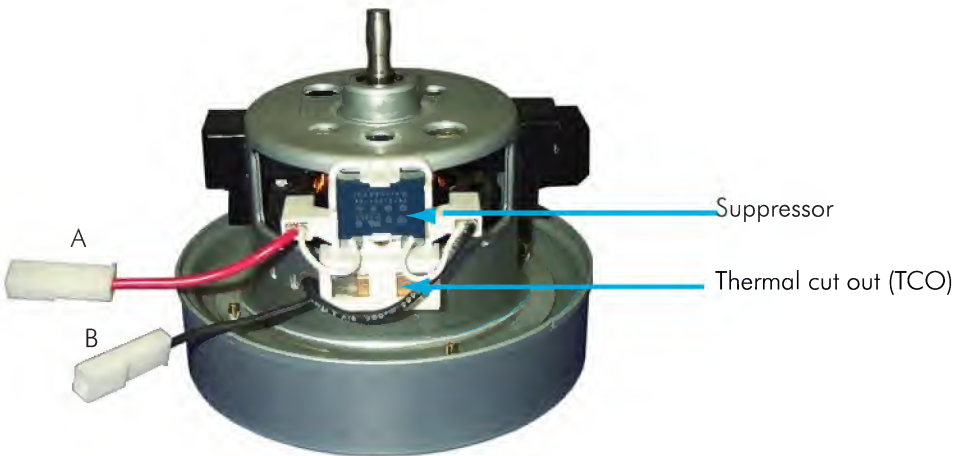
## 2.1 Circuit overview

technical data



### Test Resistance

- Live to A =  $1\Omega$  max. (switch in the ON position)
- A to B =  $7\Omega$  approx.
- Neutral to B =  $1\Omega$  max.
- Live to Neutral =  $7\Omega$  approx. (switch in the ON position)
- Across the mains switch =  $1\Omega$  max. (switch in the ON position)



## 2.2 Electrical safety testing

**Ensure that at all times during the repair and testing that customers, pets, children and you are not exposed to any Live electrical supply.**



### Socket polarity check

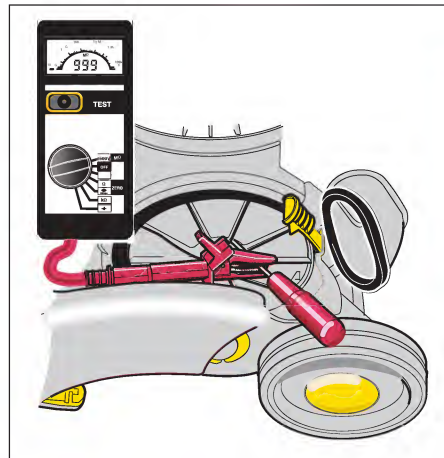
Test the socket outlet using the 3-pin test unit to ensure that the socket is correctly wired and earthed.

### Insulation test

The following test must be performed prior to and upon completion of all repairs to Dyson floorcare products and before any functional checks. You must ensure that a full visual inspection of the product is completed prior to repair. This is vital to avoid any possibilities of personal injury to the end user.



The AVO MEGGER BM401/2 can be used to test the electrical insulation of a Class II appliance; it indicates any electrical leakage.

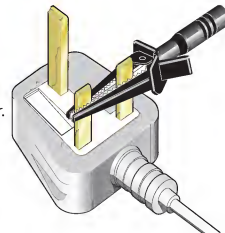


technical data

### Procedure for use:

Ensure daily functionality checks on the Megger meter have been completed.

1. Set the range selector switch to 500V position.
2. Ensure the mains switch of the product to be tested is in the on position.
3. Attach the black crocodile clip to the live and neutral pins of the mains plug (bonded).
4. Connect the red crocodile clip to the shaft of a thin, flat bladed screwdriver.
5. Remove the motor inlet cover.
6. Locate the screwdriver through the motor housing grille, onto the motor fan.
7. Press down and hold the 'Test' button on the meter. Record the reading.



A reading of between  $3M\Omega$  and  $>999$  is acceptable.  $2M\Omega$  is the minimum legal requirement. A reading of below  $3M\Omega$  is not to Dyson standards and is not considered safe, further investigation and rectification must be made before the product is used. the following components must be visually inspected:

Mains power cord, internal power cord, switch, motor and carbon build up in the motor housing.

**If you cannot repair a product with an insulation test reading of below  $3M\Omega$  you must inform the customer that it is unsafe to use. Please inform the customer of the required actions to repair the product (including the charge structure). If the product is left un-repaired you must indicate on your paperwork that the product is electrically unsafe! You must also fit a warning sticker in a visible location on the product.**

### 3.1 General note



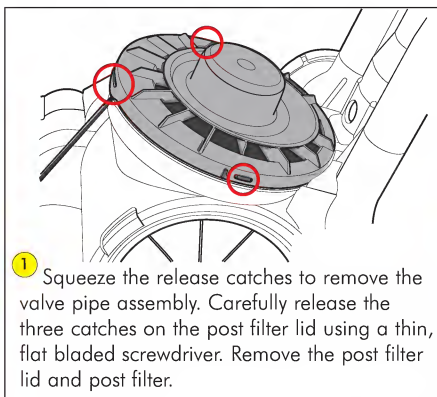
**Before attempting any repairs it is vital to ensure that the product is totally isolated from the mains supply and that accidental reconnection cannot occur.**

Please ensure that safety goggles are worn at all times whilst servicing Dyson vacuums.

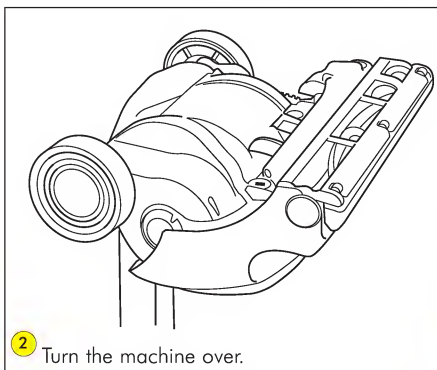
### 3.2 Dismantle main body

Remove the cyclone and the bin assembly from the main body. Release the wand catch and unclip the wand from the duct. Press the hose release catches and remove the wand assembly from the hose, then detach the hose from the main body. Remove the motor inlet cover.

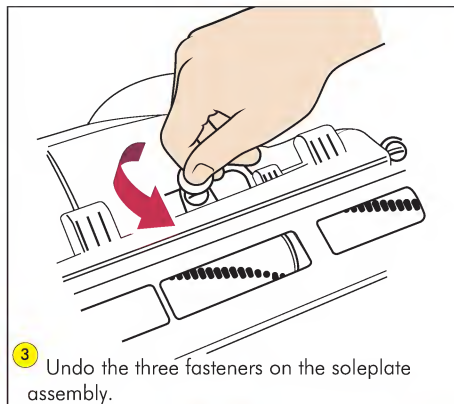
fitting notes



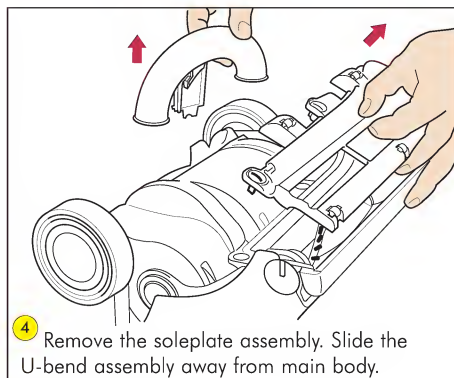
**1** Squeeze the release catches to remove the valve pipe assembly. Carefully release the three catches on the post filter lid using a thin, flat bladed screwdriver. Remove the post filter lid and post filter.



**2** Turn the machine over.

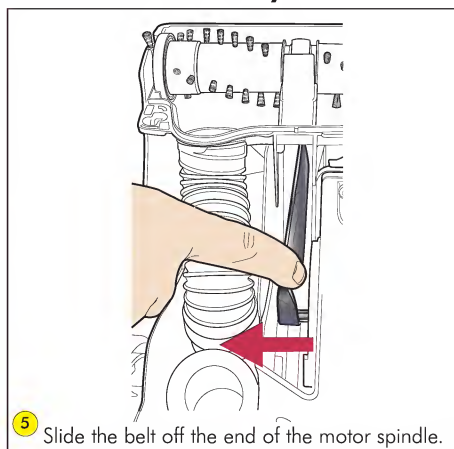


**3** Undo the three fasteners on the soleplate assembly.



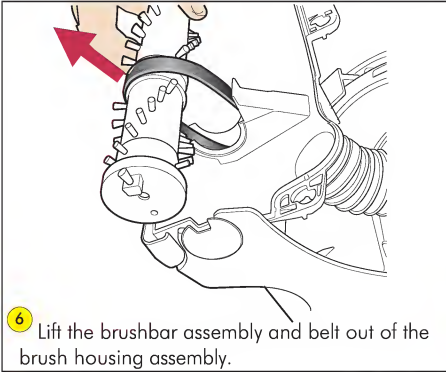
**4** Remove the soleplate assembly. Slide the U-bend assembly away from main body.

### Clutchless variant only

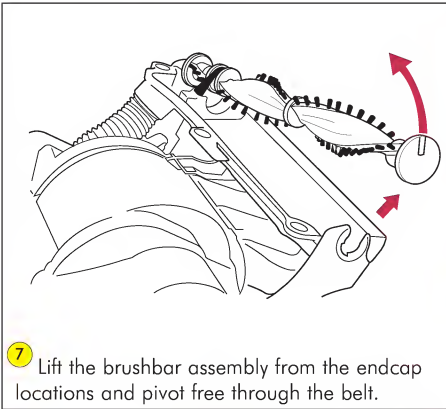


**5** Slide the belt off the end of the motor spindle.

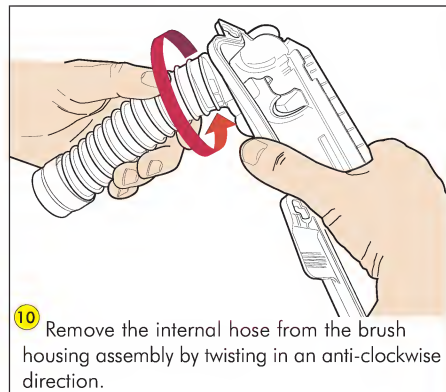
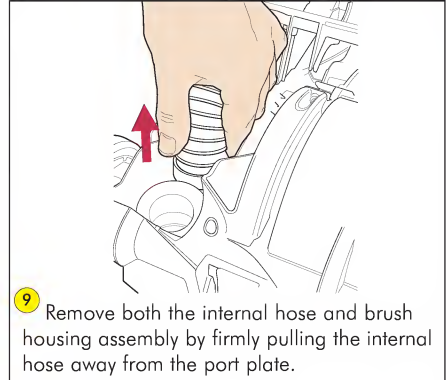
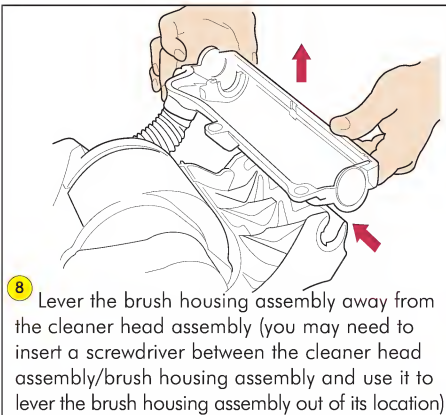




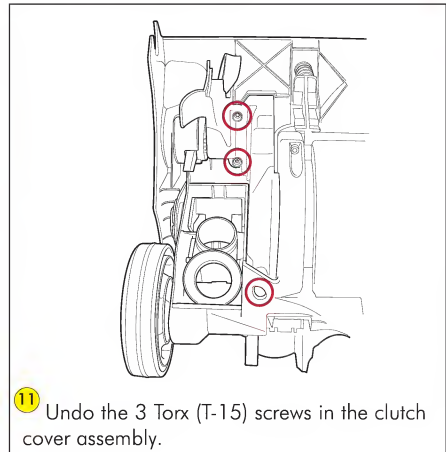
**Clutch variants only**



**All models**

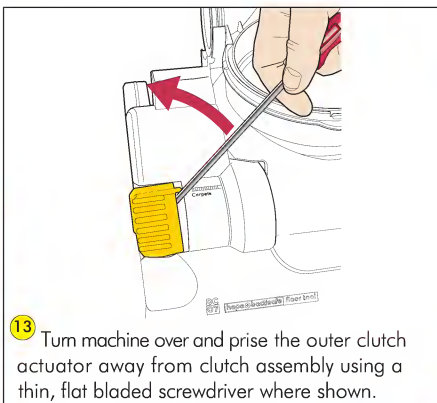
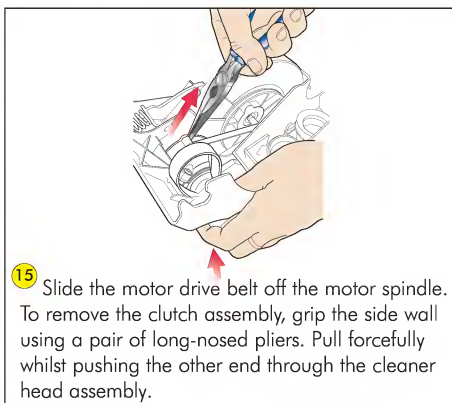
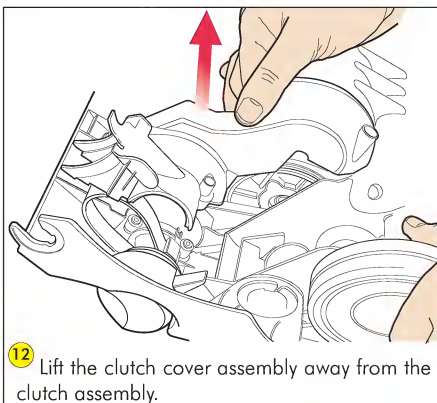


**Clutch variants only**

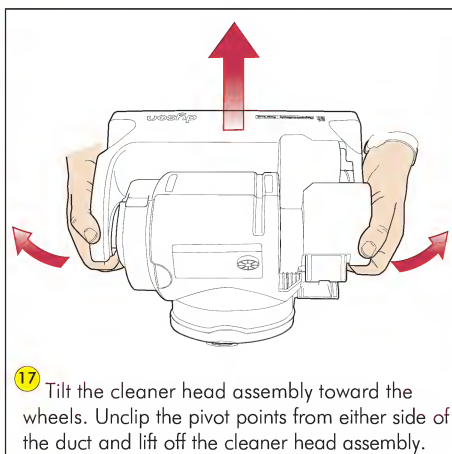
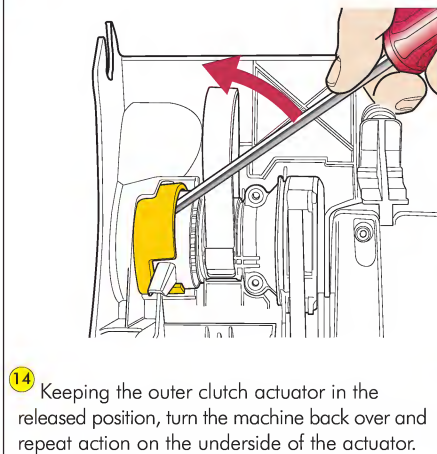
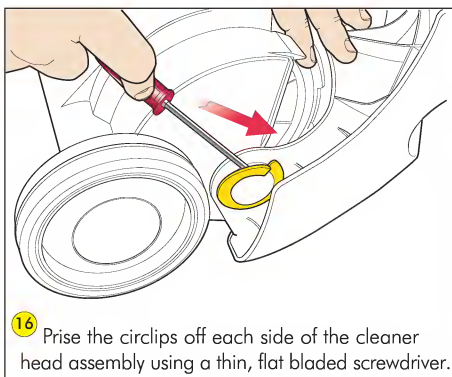


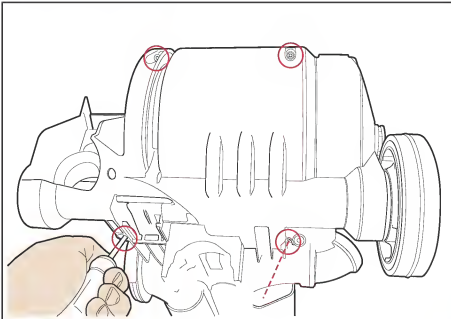
fitting notes



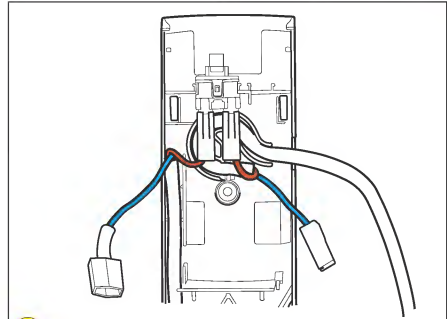


All models

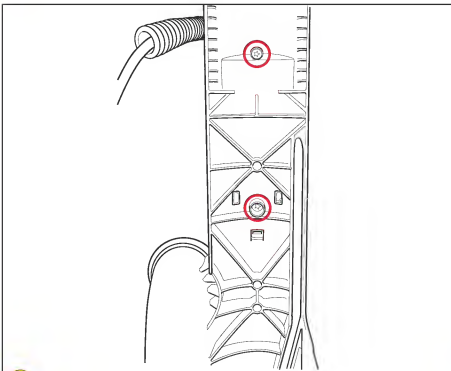




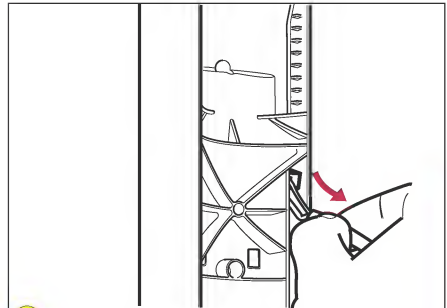
**18** Undo the four Torx (T-15) screws as shown.



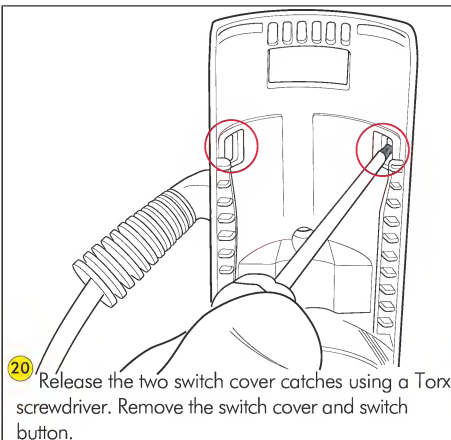
**21** Detach the live (brown) wires from the switch. Disconnect the neutral (blue) wires. Remove the switch and power cord from the duct assembly.



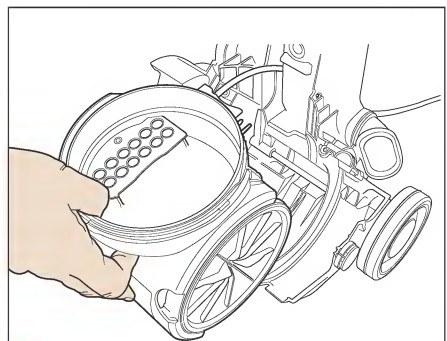
**19** Undo the two Torx (T-15) screws in the rear of the duct.



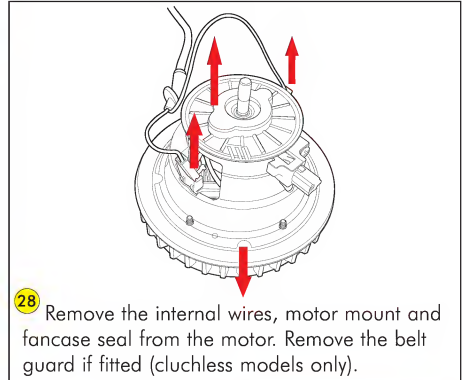
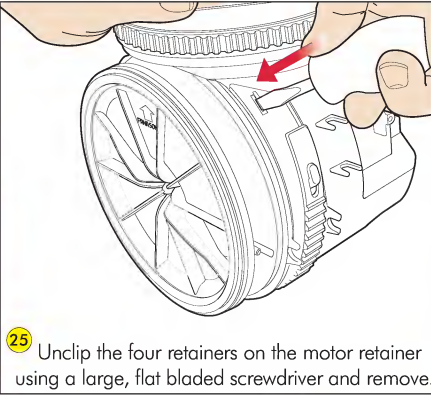
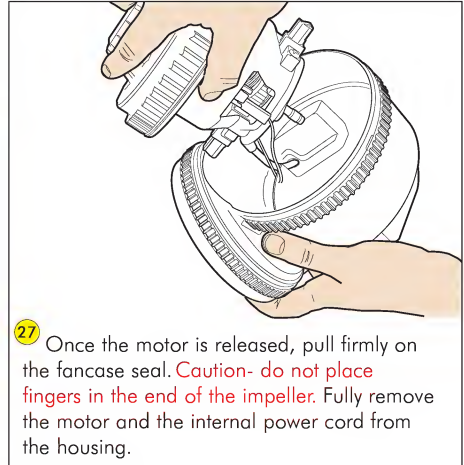
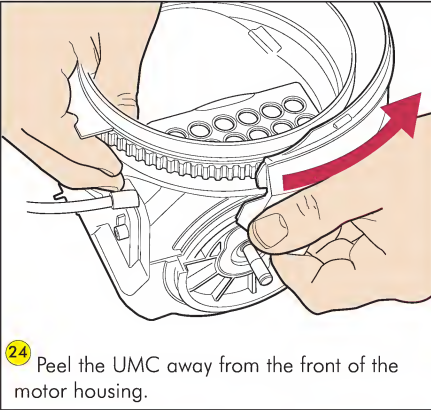
**22** Pull the internal power cord through the rear of the duct. Release along the entire length of the duct.



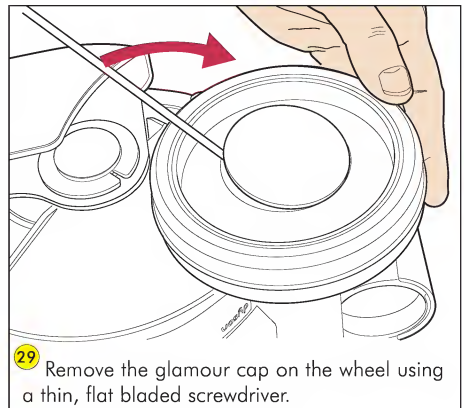
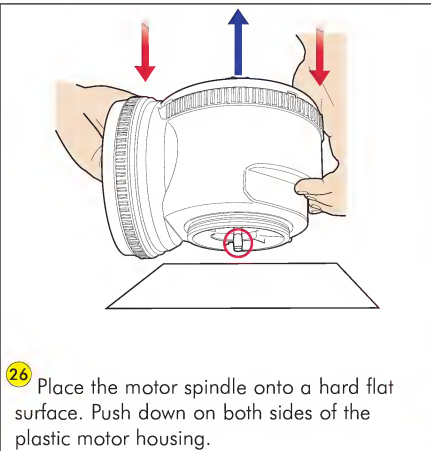
**20** Release the two switch cover catches using a Torx screwdriver. Remove the switch cover and switch button.

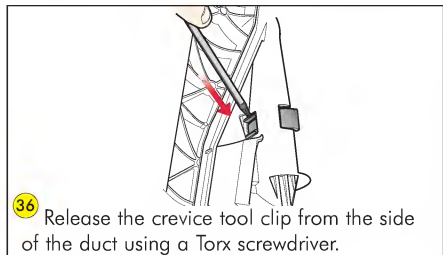
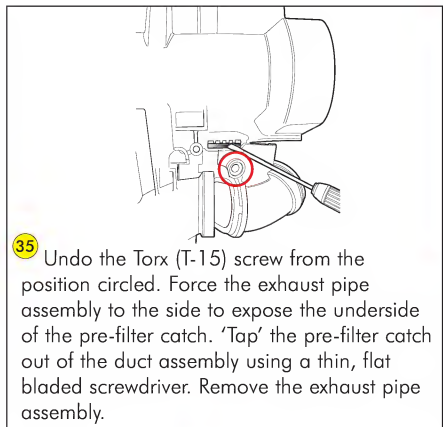
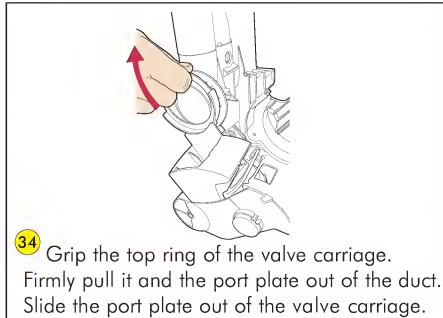
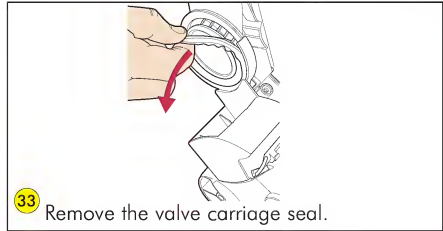
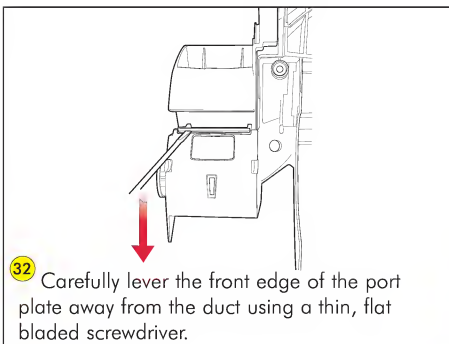
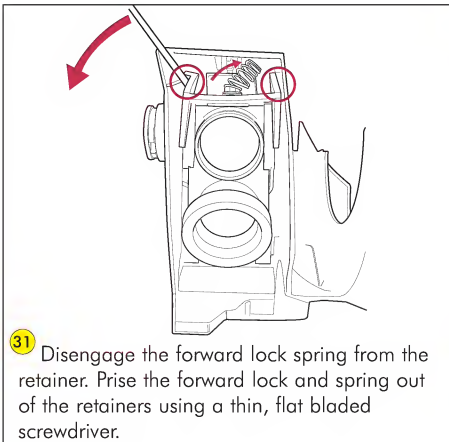
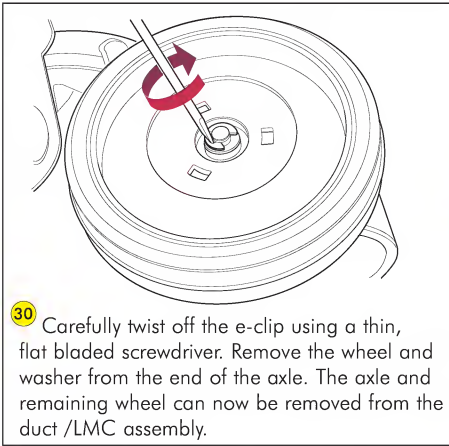


**23** Remove the upper motor cover (UMC), motor housing and internal power cord from the duct/lower motor cover (LMC) assembly.



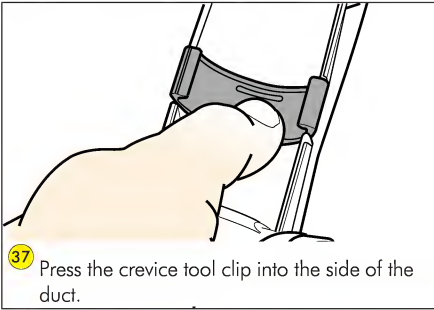
fitting notes



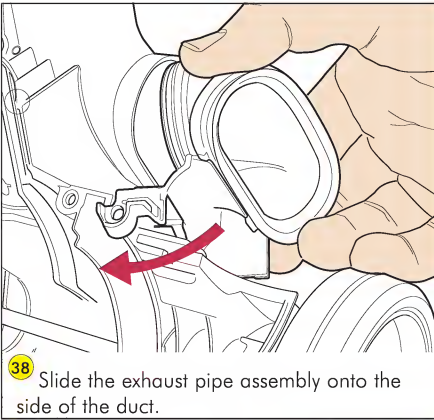


fitting notes

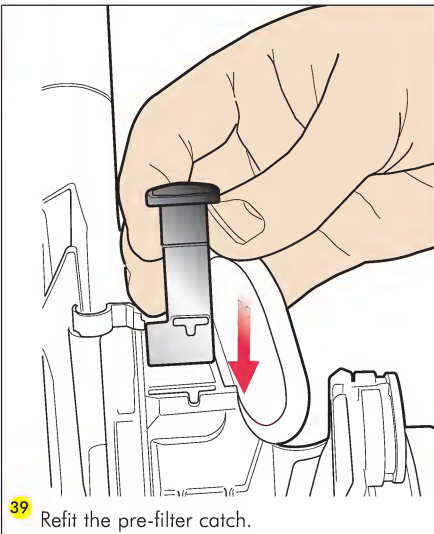
### 3.3 Assemble main body



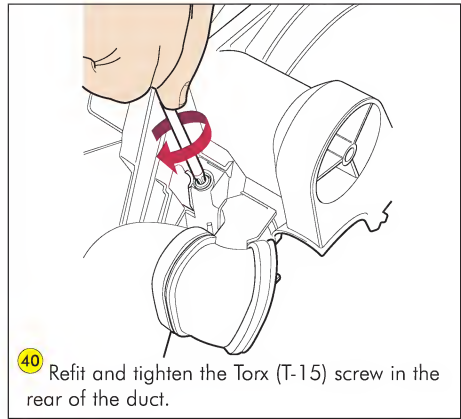
**37** Press the crevice tool clip into the side of the duct.



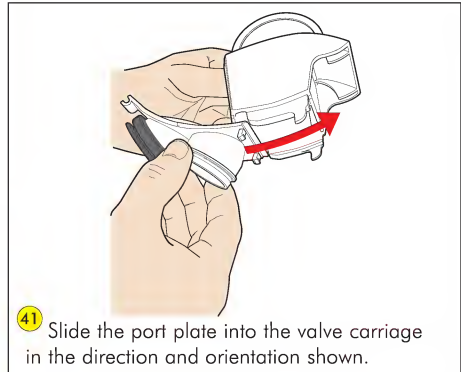
**38** Slide the exhaust pipe assembly onto the side of the duct.



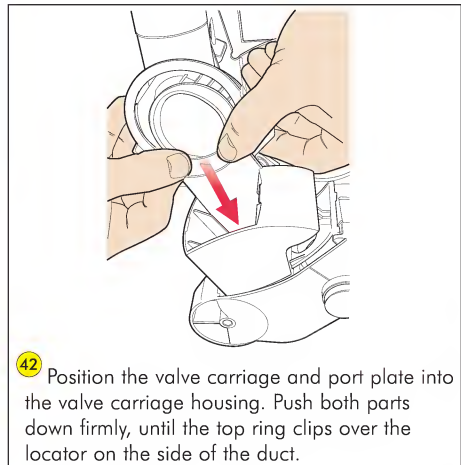
**39** Refit the pre-filter catch.



**40** Refit and tighten the Torx (T-15) screw in the rear of the duct.

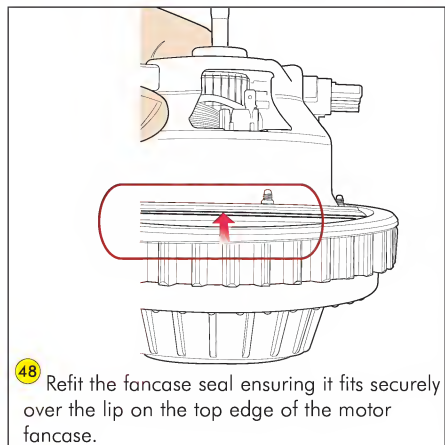
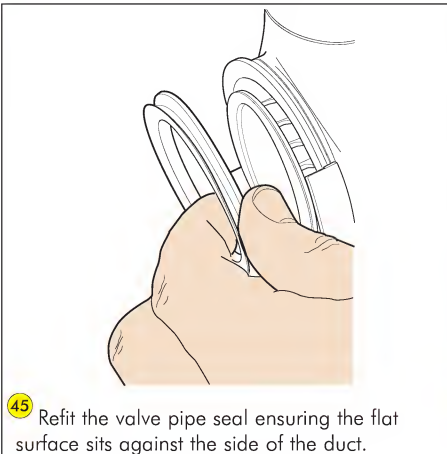
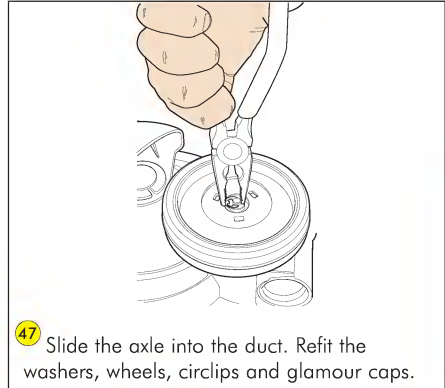
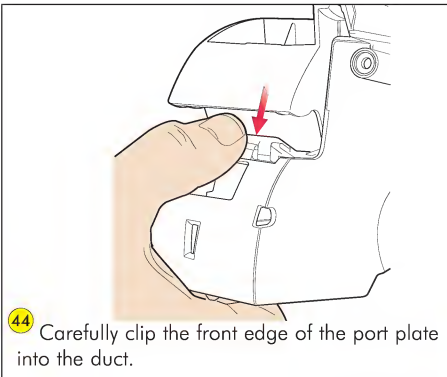
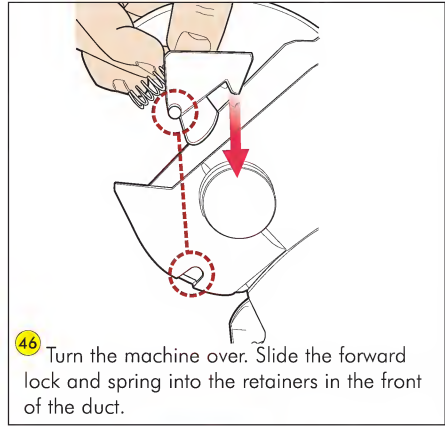
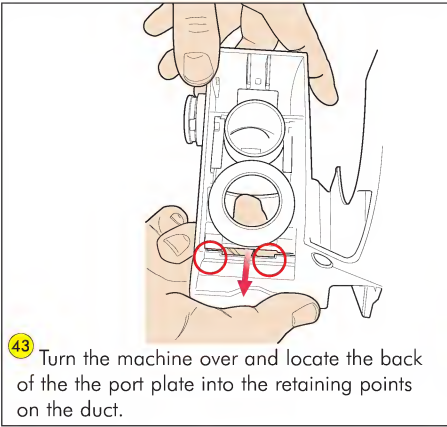


**41** Slide the port plate into the valve carriage in the direction and orientation shown.

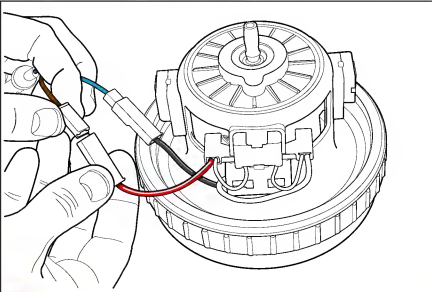


**42** Position the valve carriage and port plate into the valve carriage housing. Push both parts down firmly, until the top ring clips over the locator on the side of the duct.

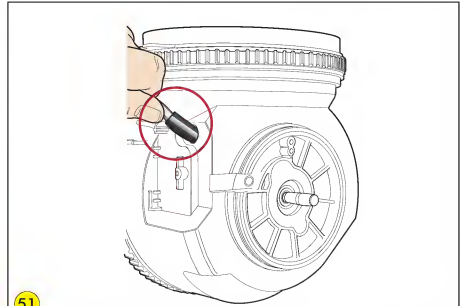




fitting notes



49 Reconnect the internal power cord to the motor (live to live, neutral to neutral). Refit the motor bearing mount. Refit the belt guard (clutchless model only).



51 **Important:** ensure the internal cord grommet is protruding fully from the rear of the motor housing.

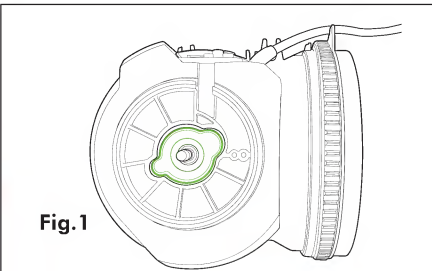
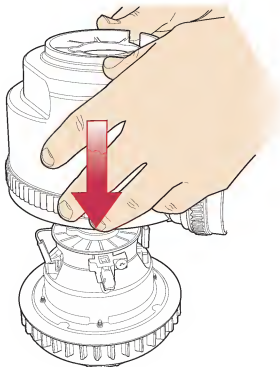
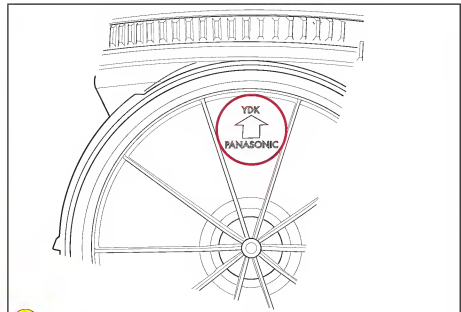


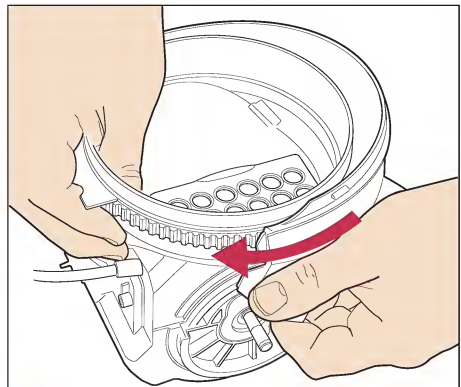
Fig.1



50 Feed the end of the internal power cord through the hole on the inside of the motor housing. Position the motor housing over the motor (Fig.1) ensuring it is aligned with the motor mount and the internal wires are positioned under the motor brushes. Lower the motor housing onto the motor.

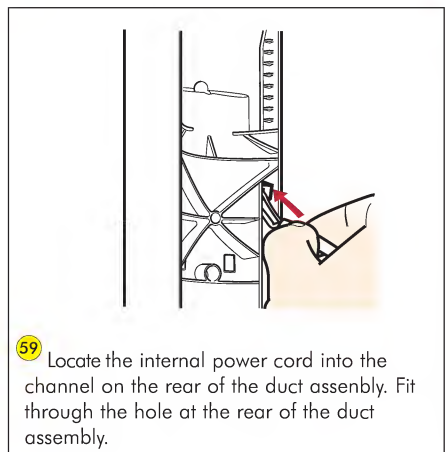
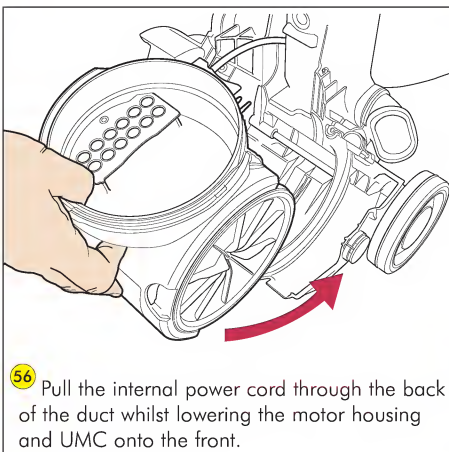
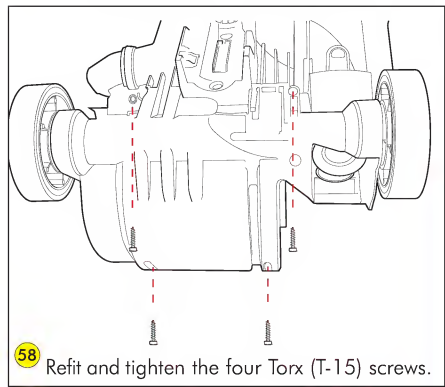
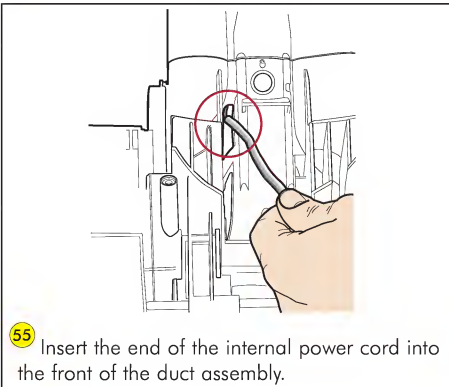
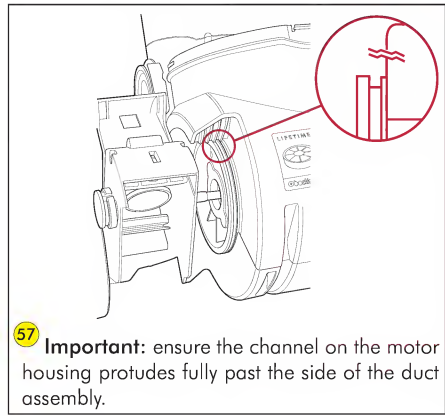
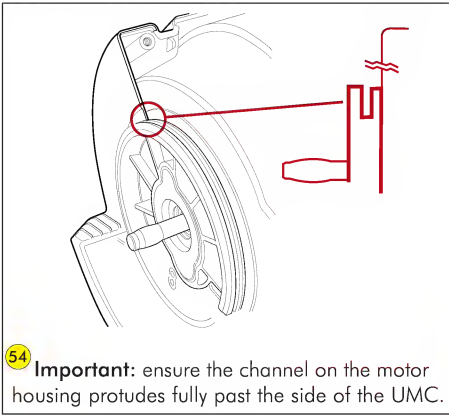


52 Position the motor retainer onto the side of the motor housing (arrow pointing to the top). Firmly press into place.

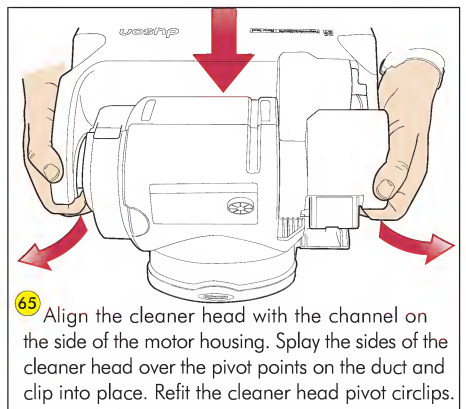
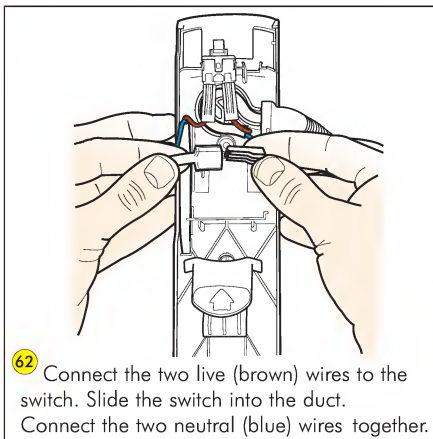
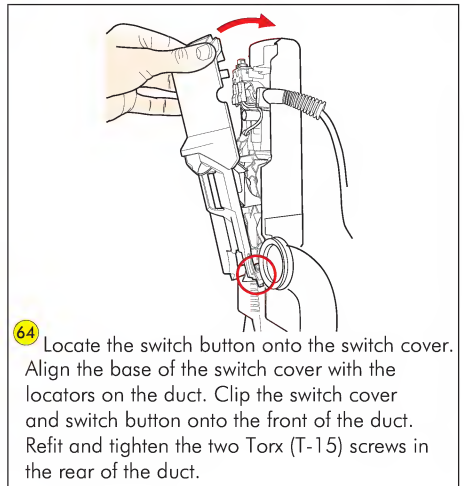
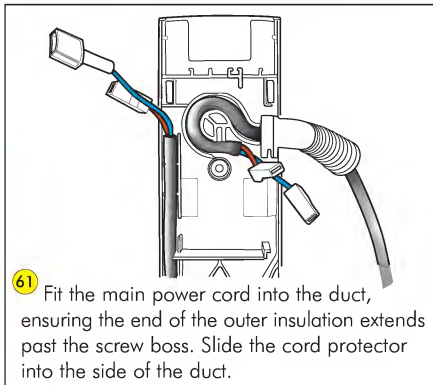
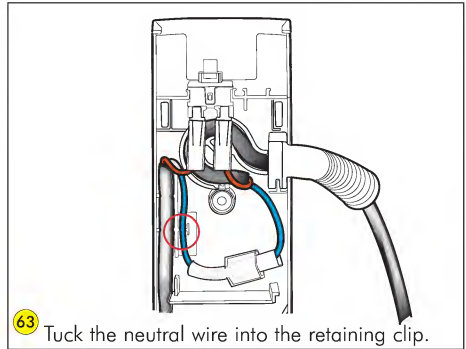
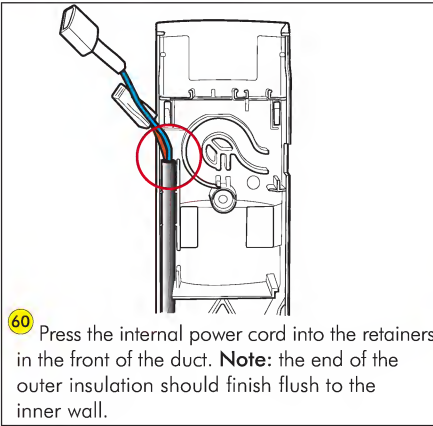


53 Refit the UMC onto the front of the motor housing.

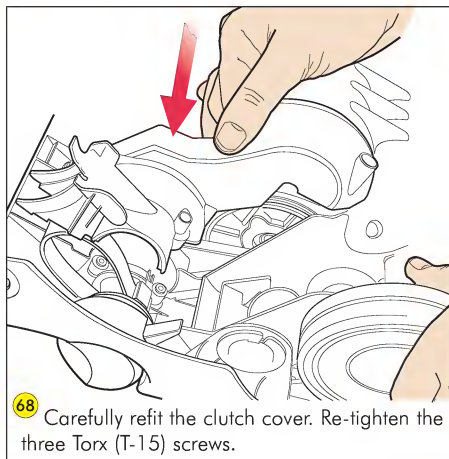
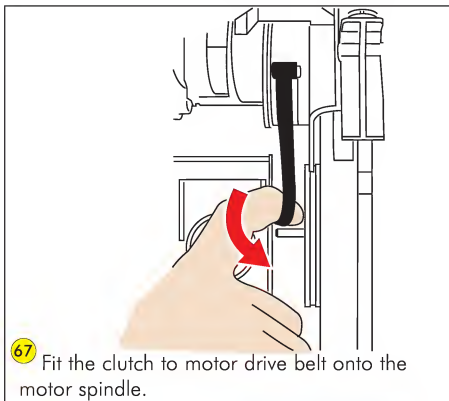
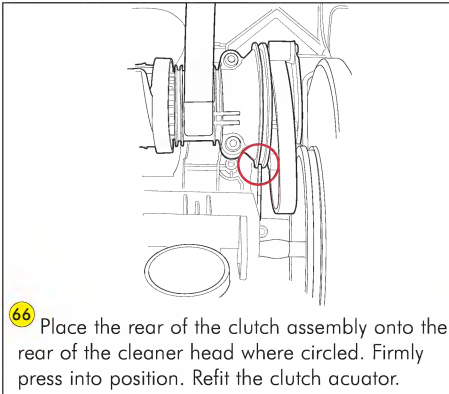




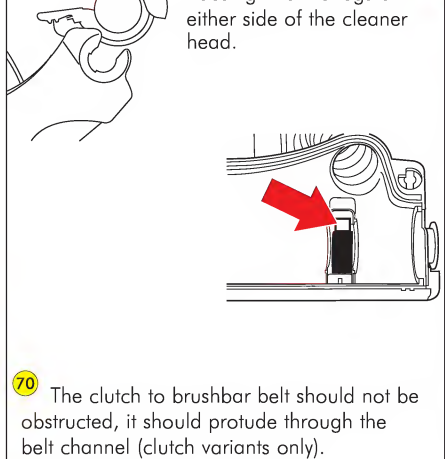
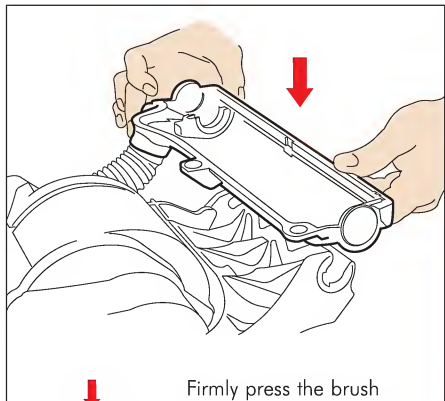
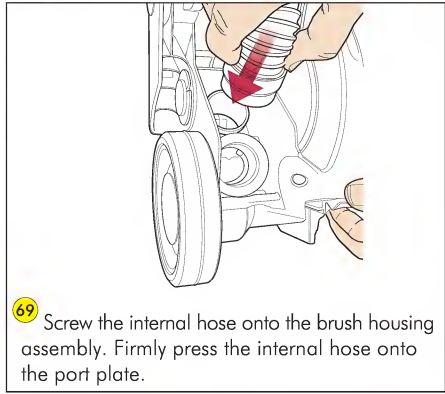
fitting notes



**Clutch variants only**

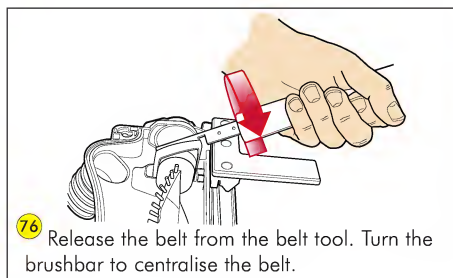
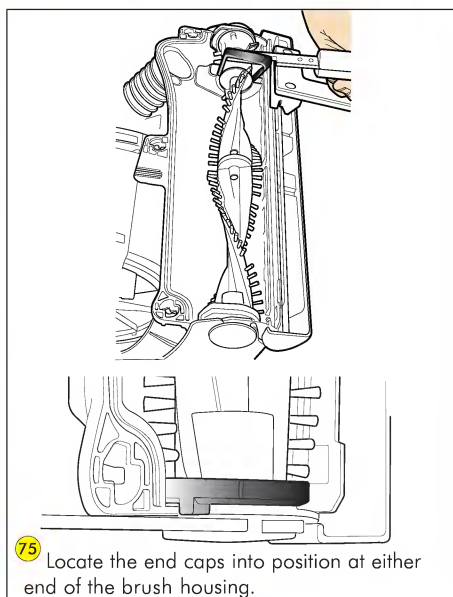
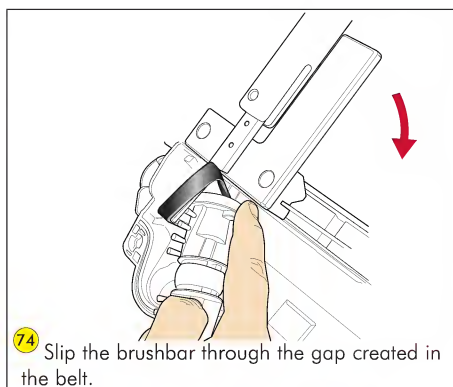
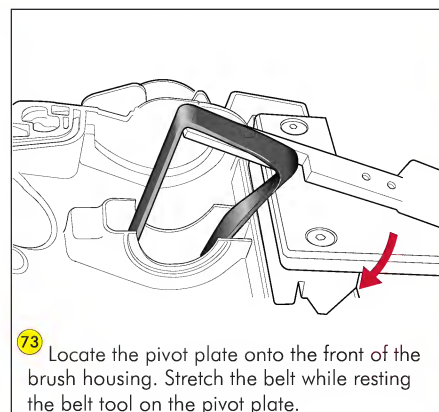
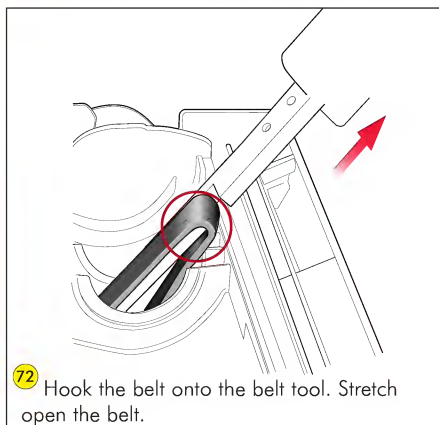
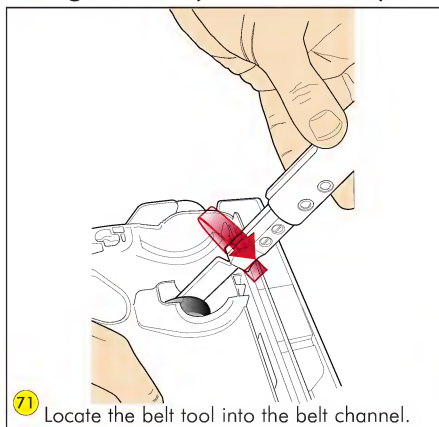


**All models**

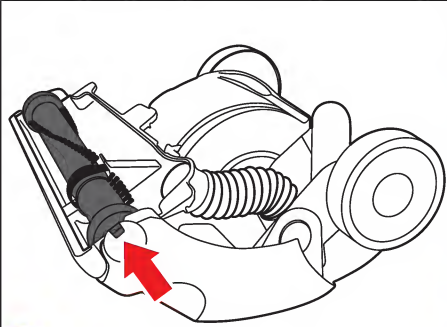


fitting notes

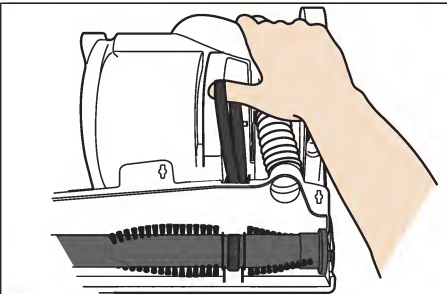
### Fitting the belt (clutch variants)



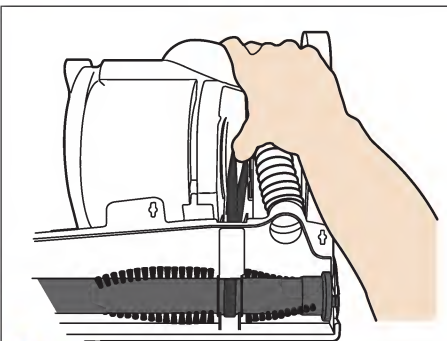
**Fitting the belt (clutchless variants only)**



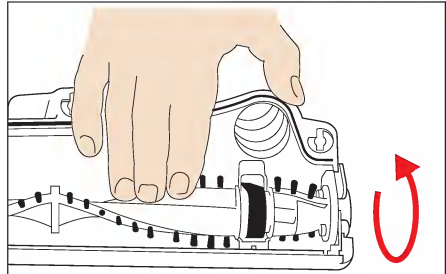
**77** Loop the belt around the brushbar assembly and feed through the belt channel in the brush housing assembly. Locate the brushbar assembly into the brush housing assembly. Ensure the end caps are located correctly into the brush housing.



**78** Using the back of the cleaner as a lever, loop the belt around your thumb.

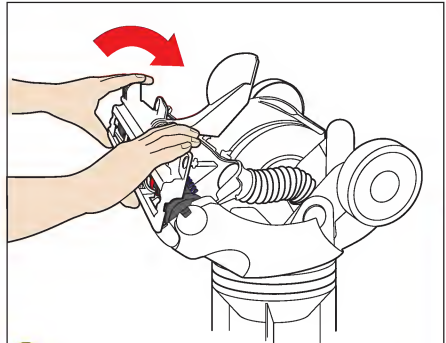


**79** Turn the belt through 90°, stretch and release over the motor spindle.

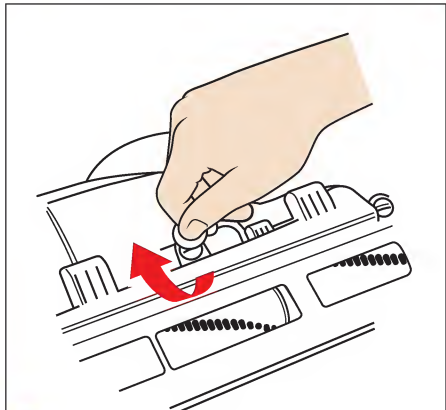


**80** Centralise the belt by rotating the brushbar assembly by hand.

**All models**

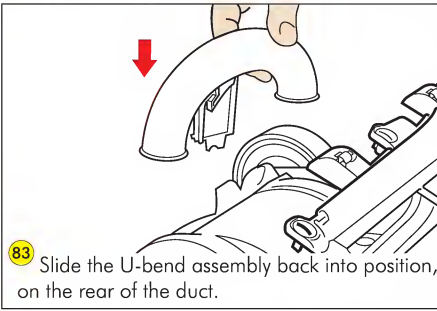


**81** Align the soleplate assembly with the brush housing assembly and lower into position.

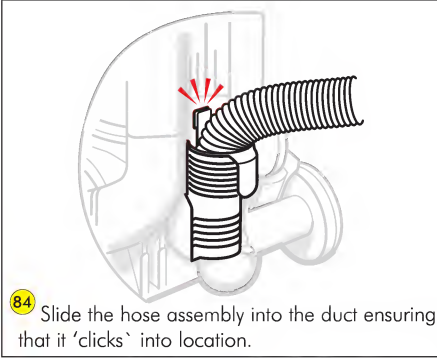


**82** Fasten the three soleplate fasteners as shown.

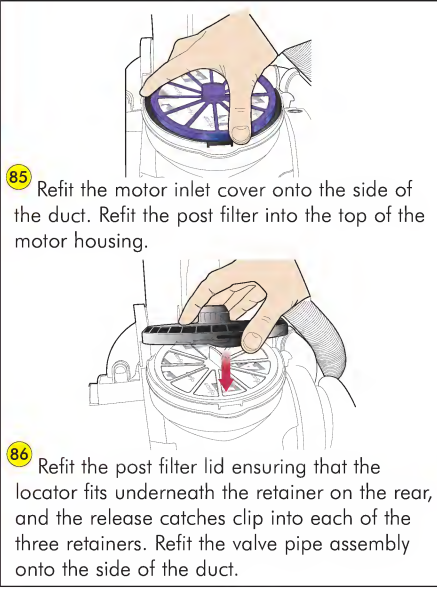




**83** Slide the U-bend assembly back into position, on the rear of the duct.

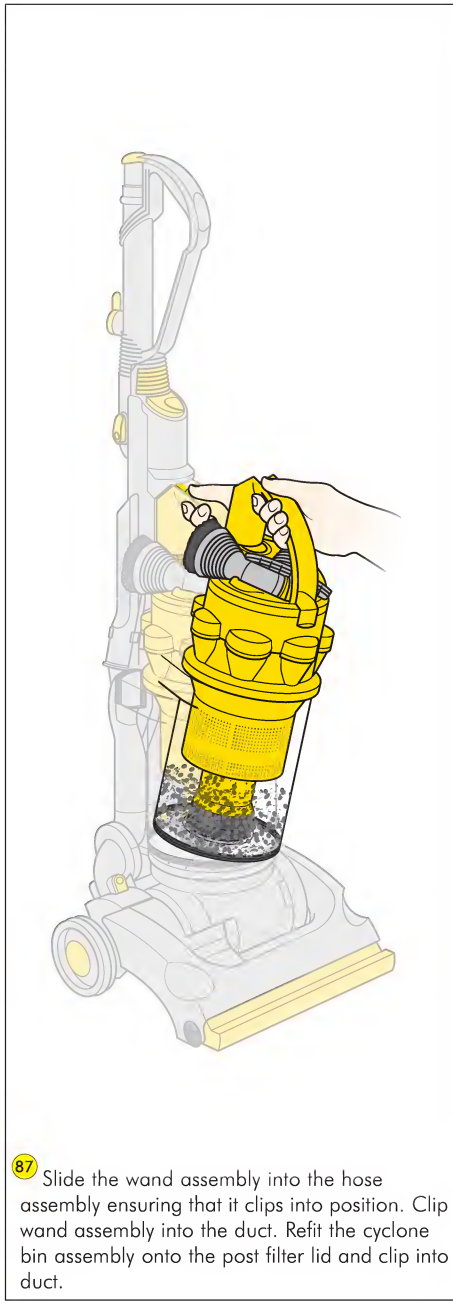


**84** Slide the hose assembly into the duct ensuring that it 'clicks' into location.



**85** Refit the motor inlet cover onto the side of the duct. Refit the post filter into the top of the motor housing.

**86** Refit the post filter lid ensuring that the locator fits underneath the retainer on the rear, and the release catches clip into each of the three retainers. Refit the valve pipe assembly onto the side of the duct.

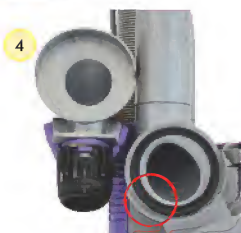
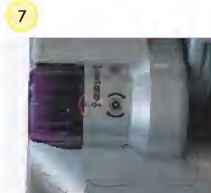
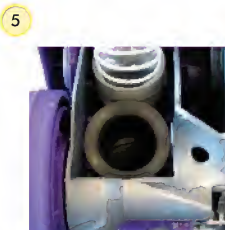


**87** Slide the wand assembly into the hose assembly ensuring that it clips into position. Clip wand assembly into the duct. Refit the cyclone bin assembly onto the post filter lid and clip into duct.

### 4.1 Fault diagnosis

#### Symptom: Loss of suction/pick up

Possible cause	Image No.	Action
Blocked pre-filter	1	Inspect pre-filter for blockages. If the filter is blocked with large debris, check Fine Dust Collector (FDC) seal.
Displaced/missing seals	2	Check pre-filter seal is fitted correctly. Check bleed valve assembly for blockages. Remove bin assembly and check bin base seal and bin seal are fitted correctly
	3	Check exhaust and entry seals are fitted correctly
	4	Check motor inlet cover and exhaust pre-filter seal are fitted correctly
	5	Check valve pipe and duct for blockages. Check valve carriage seal is fitted correctly
Airway blockage	6	Check U-bend, hose and wand handle for blockages. Check port plate seal is fitted correctly
	7	Check internal hose and brush housing for blockages
Displaced/missing seals	8	Check filter seal and motor retaining ring are fitted correctly
Brushbar not rotating	9	Check if customer is using clutch assembly in the 'On' position (clutch variants only)
Motor failure	10	Check clutch and belt
	11	Check motor



diagnostic



### 4.1 Fault diagnosis

#### Symptom: No power

Possible cause	Image No.	Action
Socket wiring fault	0	Check customer's plug socket (refer to technical section)
Faulty fuse	1	Check fuse for correct rating (13amp). Test resistance, (1Ω max.)
Open circuit across mains power cord	0	Visual check of mains cord and plug. Test resistance, (1Ω max.)
Switch failure	2	Check connections on switch. Test actuation and resistance, (1Ω max.)
Open circuit across internal power cord	0	Visual check of internal cord. Test resistance, (1Ω max.)
Poor connection to motor	3	Check connections to motor. Test resistance, (1Ω max.)
Open circuit across motor	4	Check motor (terminal clips, soldered connections, brushes, windings, thermal cut-out). Test resistance, (7Ω approx.)



diagnostic

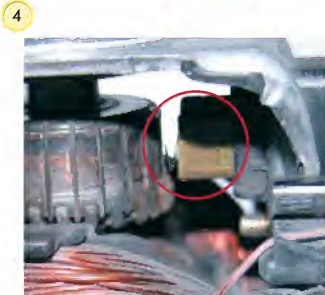
### 4.1 Fault diagnosis

#### Symptom: Continual Ratchet Noise

Possible cause	Image No.	Action
Debris build-up	1	Check for any debris build-up around brushbar
	2	Check for debris build-up in brushbar endcaps
Clutch failure	3	Change clutch
Jammed brushbar		Check fit of brushbar (end-caps seated correctly, belt trapped under soleplate)
		Check for bearing failure-does brushbar turn?

#### Symptom: Noisy

Possible cause	Image No.	Action
Air leakage		Check all seals and airways-see Loss of suction/pick up section
Brushbar noise	1	Check brushbar; warped, wrapped in threads
Continual ratcheting		See section above
Motor failure	4	Check motor; loose impeller/nut/case, foreign objects in impeller, motor failure etc
Large object in bin		Empty bin



diagnostic

### 4.1 Fault diagnosis

#### Symptom: Burning smell

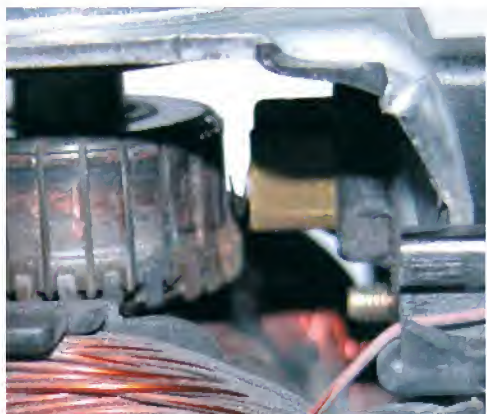
Possible cause	Image No.	Action
Broken/worn belt	1	Check belt (worn, snapped, trapped under soleplate, faulty clutch)
Worn brushbar	2	Check brushbar for obstructions, wear, seized end-caps, incorrect fit
Motor failure	3	Check post filter for carbon build up. Check motor (commutator, windings, brushes, carbon build-up)

#### Symptom: Thermal cut-out activating

Possible cause	Image No.	Action
Restricted airflow	1	Check for blockages-see Loss of suction/pick up section
Motor failure	3	Check motor (commutator, windings, carbon build-up, excess heat)



3

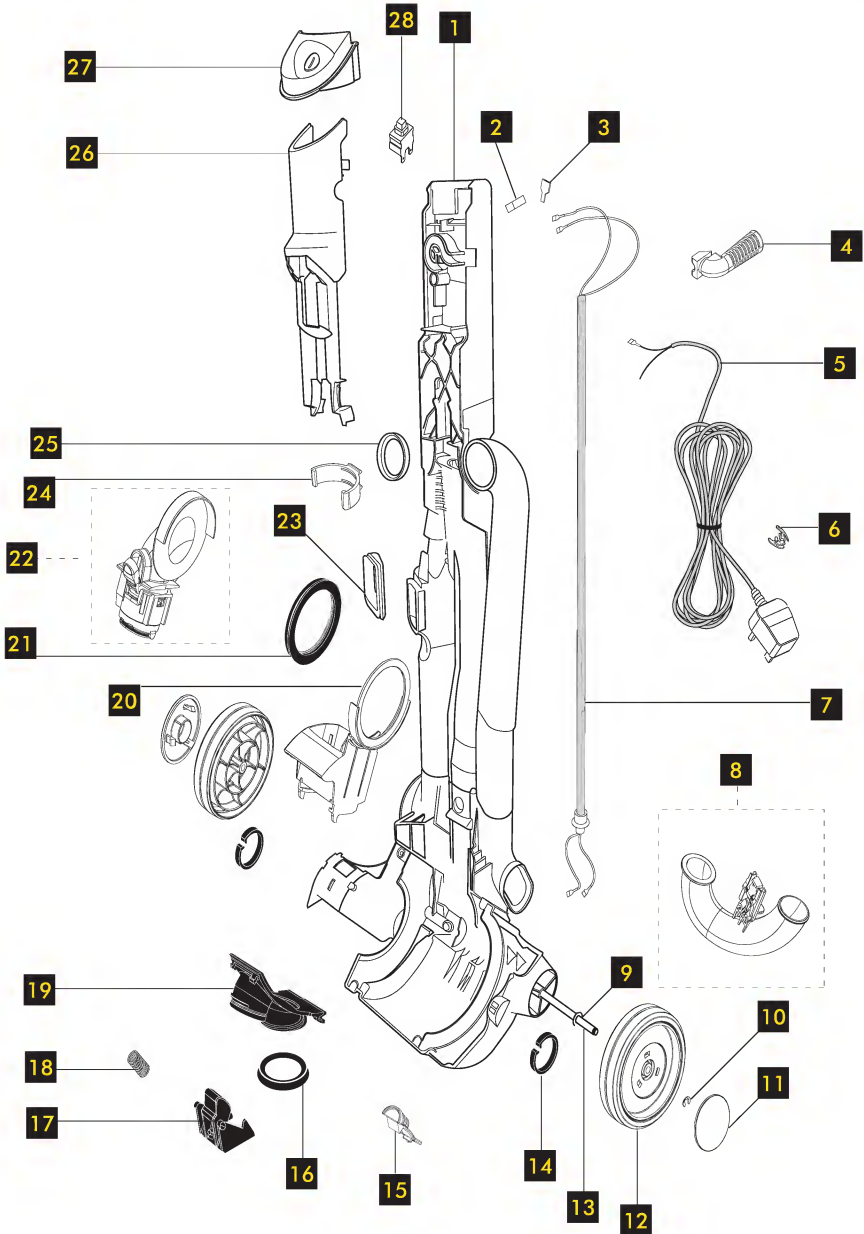


diagnostic

2 Brushbar colour may vary



5.1 Exploded view



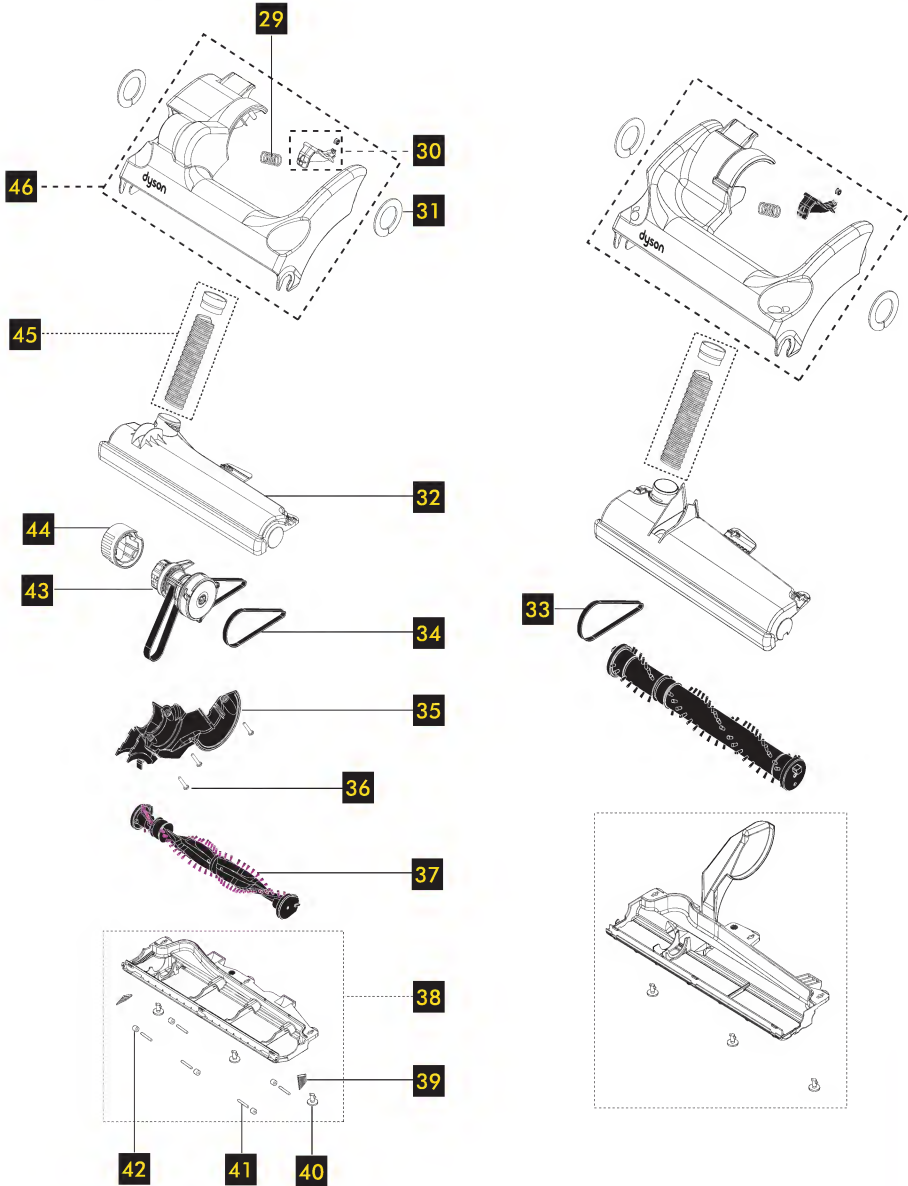
parts list

**5.2 Parts description**

Item No	Description
1	DUCT/LOWER MOTOR COVER
2	SPADE CONNECTOR BOOT
3	TERMINAL BOOT
4	CABLE PROTECTOR
5	POWER CORD ASSEMBLY
6	CABLE CLIP
7	INTERNAL POWER CORD
8	U BEND ASSEMBLY
9	WHEEL WASHER
10	WHEEL E-CLIP
11	GLAMOUR CAP
12	REAR WHEEL
13	WHEEL AXLE
14	BLACK BEARING CLIP
15	PRE-FILTER CATCH
16	PORT PLATE SEAL
17	FORWARD LOCK
18	FORWARD LOCK SPRING
19	PORT PLATE
20	VALVE CARRIAGE
21	VALVE CARRIAGE SEAL
22	VALVE PIPE ASSEMBLY
23	ENTRY SEAL
24	CREVICE TOOL CLIP
25	EXHAUST SEAL
26	SWITCH COVER
27	SWITCH BUTTON
28	SWITCH



5.1 Exploded view

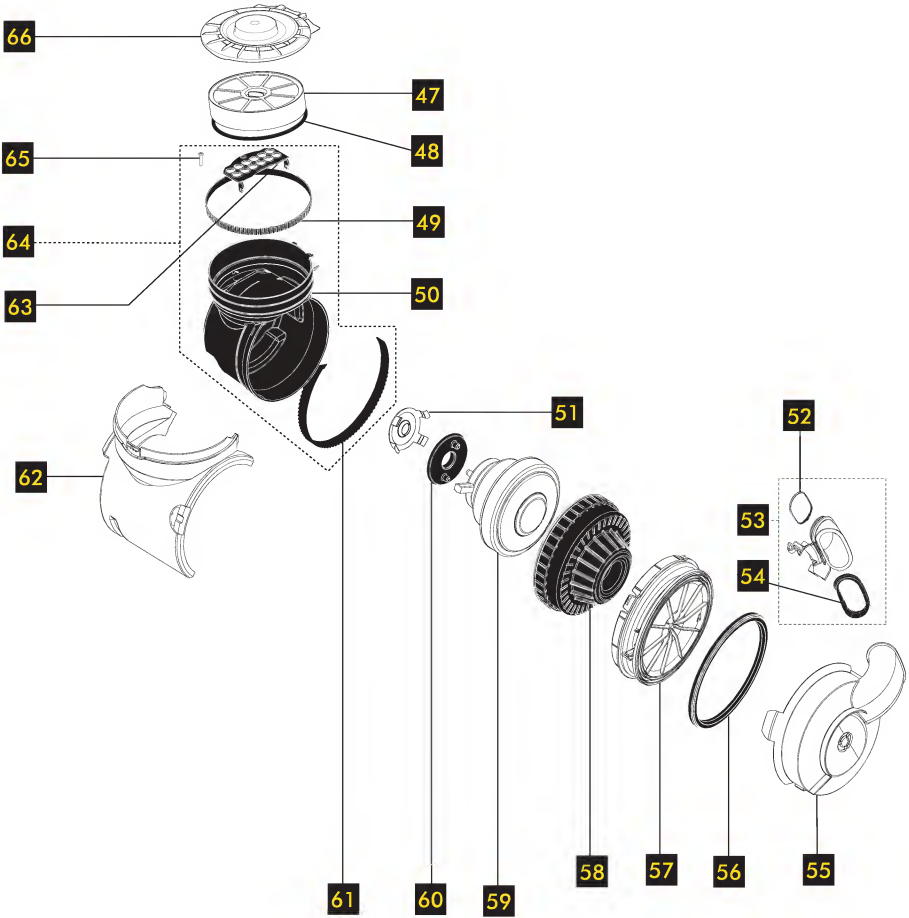


**5.2 Parts description**

Item No	Description
29	UPRIGHT LOCK SPRING
30	UPRIGHT LOCK ASSEMBLY
31	CLEANER HEAD PIVOT CIRCLIPS
32	BRUSH HOUSING ASSEMBLY
33	BELT
34	CLUTCH TO MOTOR BELT
35	CLUTCH COVER ASSEMBLY
36	TORX SCREW
37	BRUSHBAR ASSEMBLY
38	SOLEPLATE ASSEMBLY
39	SOLEPLATE BRISTLES
40	SOLEPLATE FASTENERS
41	SOLEPLATE AXLE
42	SOLEPLATE WHEEL
43	CLUTCH ASSEMBLY
44	OUTER CLUTCH ACTUATOR
45	INTERNAL HOSE ASSEMBLY
46	CLEANER HEAD ASSEMBLY



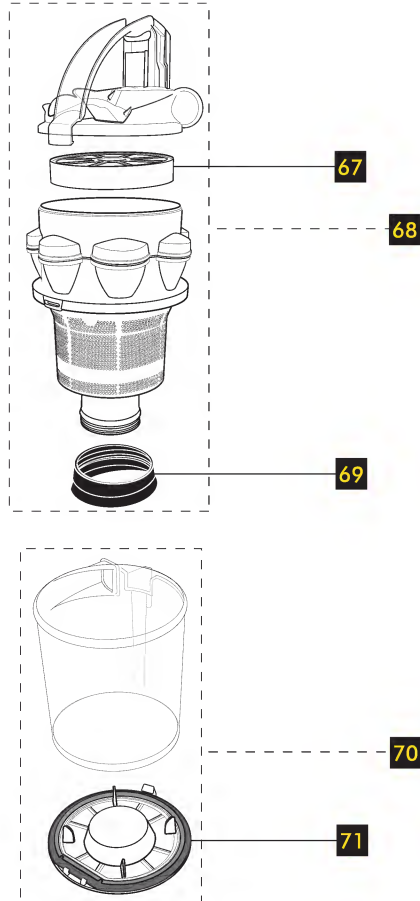
5.1 Exploded view



**5.2 Parts description**

Item No	Description
47	POST FILTER
48	HEPA FILTER SEAL
49	TOP HOUSING MOUNT
50	MOTOR HOUSING
51	BELT GUARD
52	EXHAUST PIPE SEAL
53	EXHAUST PIPE ASSEMBLY
54	EXHAUST PRE-FILTER SEAL
55	MOTOR INLET COVER
56	FILTER SEAL
57	MOTOR RETAINER
58	FANCASE SEAL
59	MOTOR
60	MOTOR BEARING MOUNT
61	MOTOR HOUSING MOUNT
62	UPPER MOTOR COVER
63	DIFFUSER
64	MOTOR HOUSING ASSEMBLY
65	DIFFUSER SCREW
66	POST FILTER LID

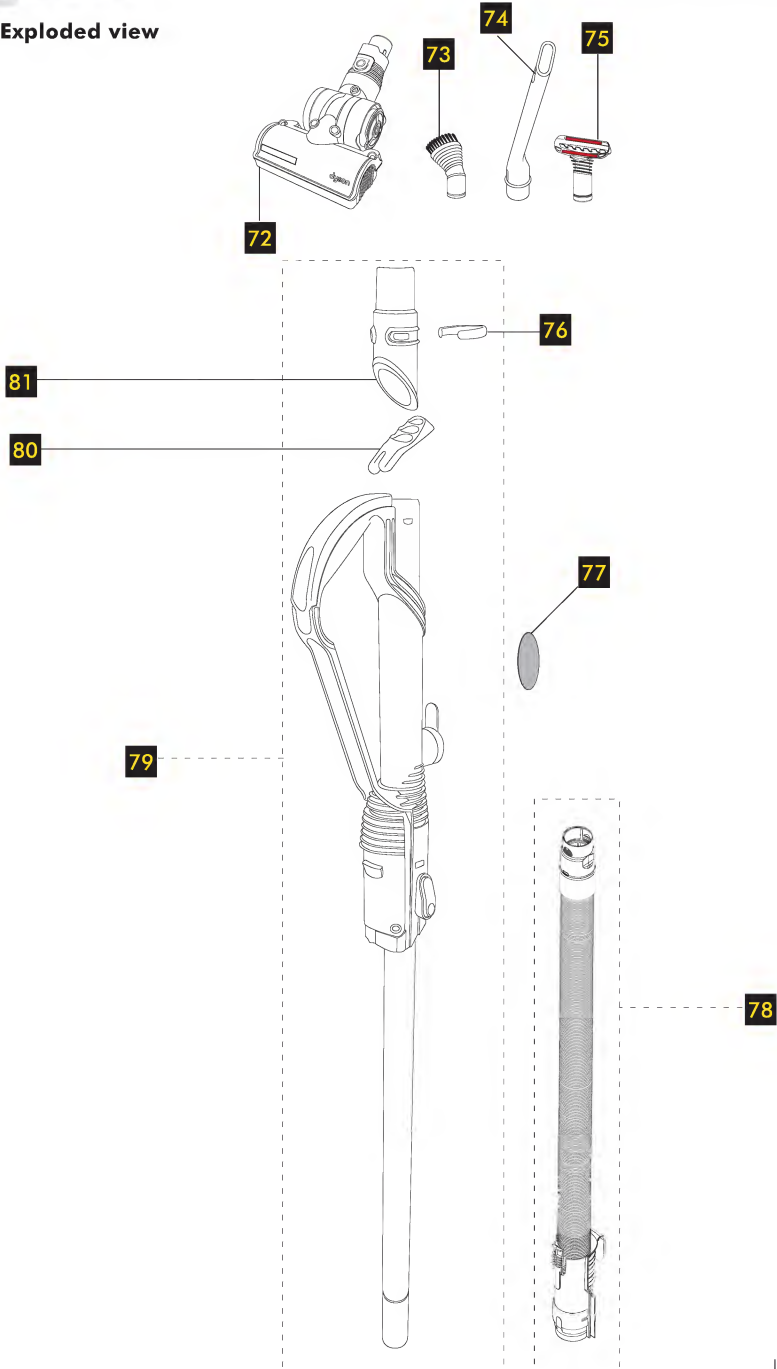
5.1 Exploded view



## 5.2 Parts description

Item No	Description
67	PRE-FILTER ASSEMBLY
68	CYCLONE ASSEMBLY
69	FINE DUST COLLECTOR SEAL (FDC SEAL)
70	BIN ASSEMBLY
71	BIN BASE ASSEMBLY

5.1 Exploded view



## 5.2 Parts description

Item No	Description
72	MINI TURBINE HEAD
73	LARGE BRUSH TOOL
74	CREVICE TOOL
75	STAIR TOOL ASSEMBLY
76	TUBE GRIP CLIP
77	HELPLINE STICKER
78	HOSE ASSEMBLY
79	WAND ASSEMBLY
80	WAND CAP
81	TUBE GRIP