

**DC
26**

dyson



service manual

Issued September 09

This manual is written specifically for Dyson trained engineers and covers the full DC26 range. The service instructions assume the engineer has the approved tools and test equipment with them.

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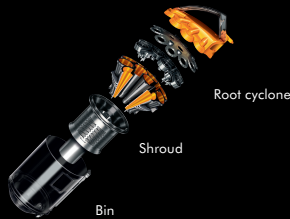
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Features and benefits

Root Cyclone™ technology

Patented Dyson Technology that doesn't lose suction power as you vacuum.

dyson root cyclone technology



Hygienic bin emptying

No need to touch the dirt just push the button.

Concentration is not shrinking. The patented Dyson technology is smaller, but each dimension and angle has been recalculated and engineered to make a smaller cyclone as efficient as a big cyclone.

Detachable handle

Click fit tools directly to it for cleaning awkward places.

Small and compact

Fits on an A4 sheet of paper. Easy to carry and store.

Centralised motor

Positioned to reduced drag weight. Makes the machine easier to pull along.

Lightweight - only 3.5kg

Dual cavity floor tool

Two separate airflow channels direct suction power evenly for improved pick-up across every floor type.

Miniaturised cable rewind

Smaller and lighter without compromising cable length of 5m.

Cleaner exhaust air

Releases air containing 150 times less mould and bacteria than the air you breathe.



Electrical safety testing



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

Insulation test

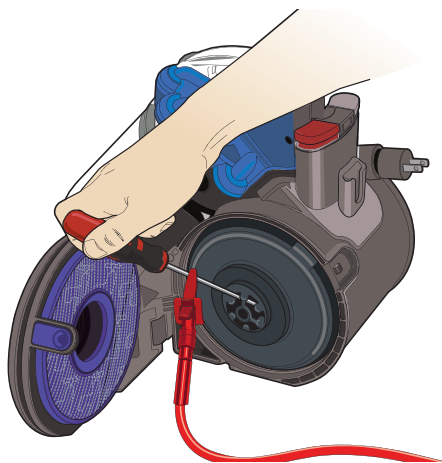
The following tests must be performed prior to and upon completion of all repairs to Dyson floorcare products and before any functional checks.

You must ensure that a full visual inspection of the product is completed prior to repair.

These tests are vital to avoid any possibility of personal injury to the end user.

The Seaward Primetest 200 (or equivalent) should be used to test the electrical insulation of a Class 11 appliance; it indicates any electrical leakage.

Insulation test point:



Test results

An insulation test reading of $>2\text{ M}\Omega$ is acceptable.

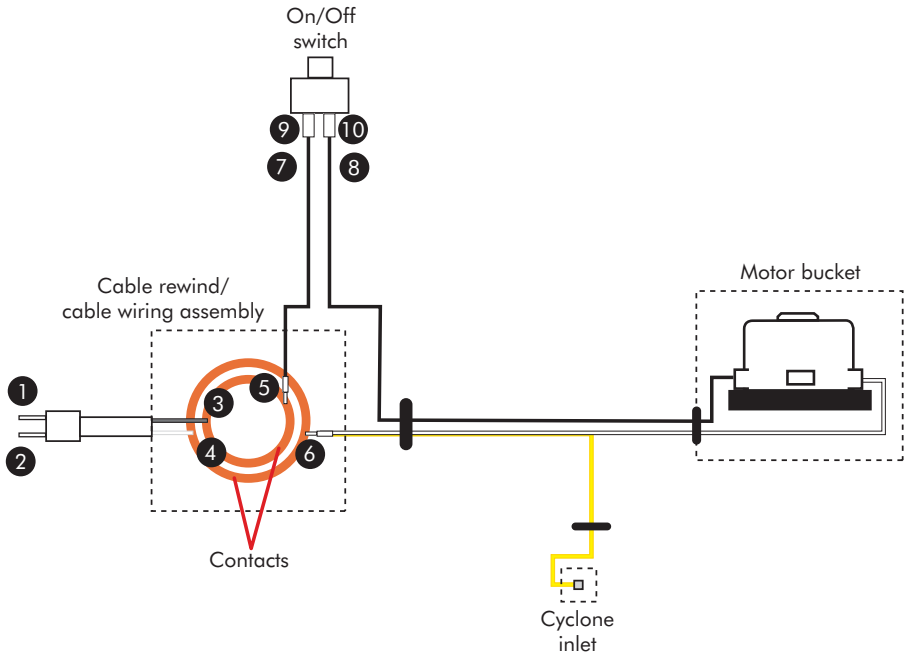
A reading of below $2\text{ M}\Omega$ is not considered safe and will require replacement of the chassis and motor assembly.

If you cannot repair a product with an insulation test reading of below $2\text{ M}\Omega$ you must inform the customer that the product 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 please indicate on your paperwork/hand held device that the product is electrically unsafe and attach a 'WARNING: product electrically unsafe' sticker in a visible location on the product.

Wiring schematic



Technical info.

Resistance values

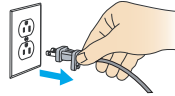
COMPONENT	TEST BETWEEN POINTS			OHMS
POWERCORD ASSY	1	TO	3	1 Ω MAX
POWERCORD ASSY	2	TO	4	1 Ω MAX
POWERCORD TO MAIN ON/OFF SWITCH	5	TO	7	1 Ω MAX
MAIN CHASSIS AND MOTOR ASSY (WITH CABLE REWIND ATTACHED) (WITH CABLE REWIND REMOVED)	1	TO	2	6 Ω APPROX
	7	TO	8	
MAIN ON/OFF SWITCH	9	TO	10	1 Ω MAX

Electrical fault diagnosis

No power to motor

1. Carry out a resistance test around the entire product (points 1-2) to determine there is a genuine fault.
2. If there is a fault check the plug, pins and entire length of the powercord for any signs of wear or damage.
3. Remove the cable rewind assembly from the product (following all safety precautions shown on pages 08-09), and check for any damage on the outer contacts of the cable wiring retainer assembly that would result in an open circuit between the wiring retainer and cable rewind assembly.
4. Carry out a resistance test along the length of the powercord (points 1-3 and 2-4).
5. Remove the actuator housing and check that the wires are attached to the On/Off switch (points 7 and 8).
6. Check the mechanical actuation of the On/Off switch.
7. Carry out a resistance test across the switch (points 9-10) ensuring the switch is in the On position.
8. Remove the cable wiring retainer assembly from the product (see pages 37 and 38 for instructions) and check that the Live (point 5) wire from the On/Off switch and Neutral (point 6) wire from the main body loom are attached to the assembly.
9. Check the cable wiring retainer assembly for any signs of damage that would result in an open circuit.
10. Carry out a resistance test along the length of the live wire that connects the cable wiring assembly to the On/Off switch (points 5-7).
11. If all of the above checks do not rectify the fault, replace the Main chassis and motor assembly.

General notes



Disconnect the machine from the electrical outlet at all times during repair and test. Failure to do so could result in electric shock or personal injury.

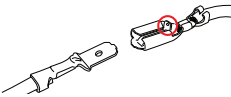
Wire colours may vary between territories.



Ensure that safety goggles are worn where this symbol is shown.



Ensure that protective gloves are worn where this symbol is shown.

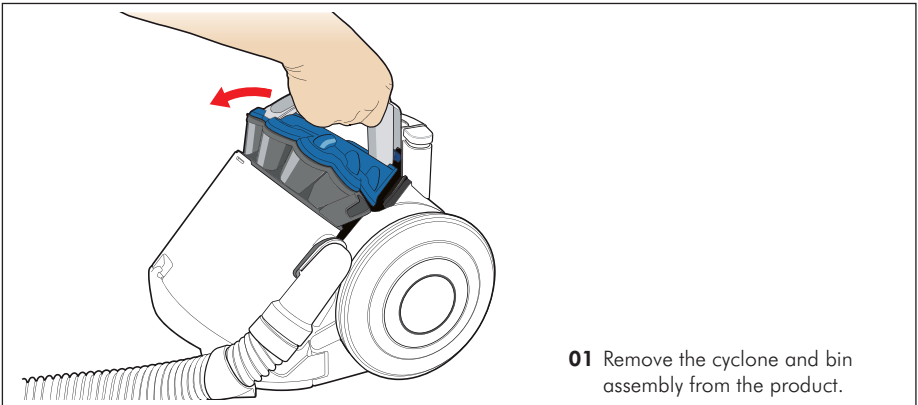


Some female terminal clips used in DC26 contain a locking mechanism. The release pip will need to be activated before separation from the male terminal can occur.

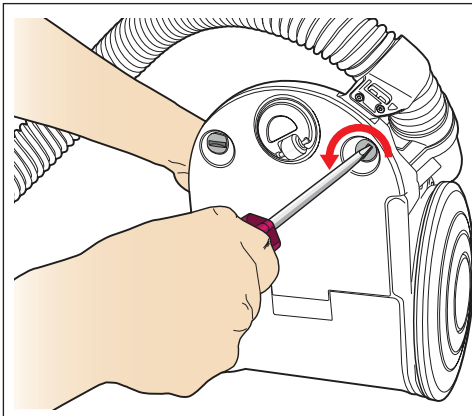
Recommended tools to repair DC26:

Torx T-8, T-10, T-15 screwdrivers
Large flat bladed screwdriver
Thin flat bladed screwdriver
Long/needle nosed pliers

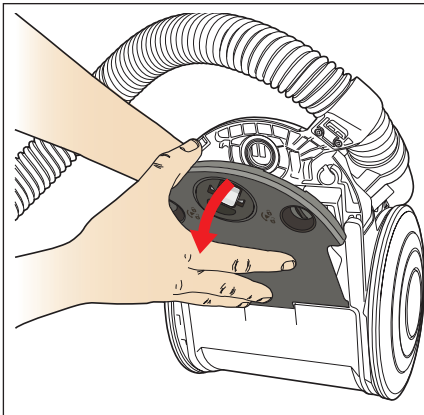
Cable rewind - removal



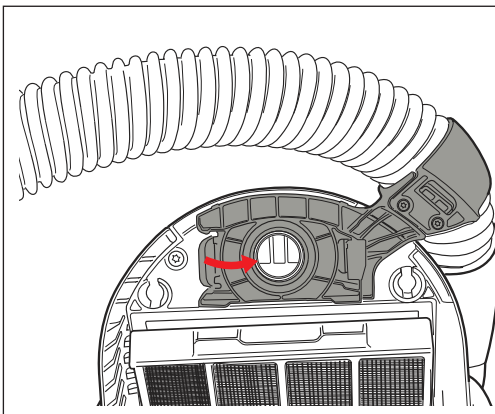
01 Remove the cyclone and bin assembly from the product.



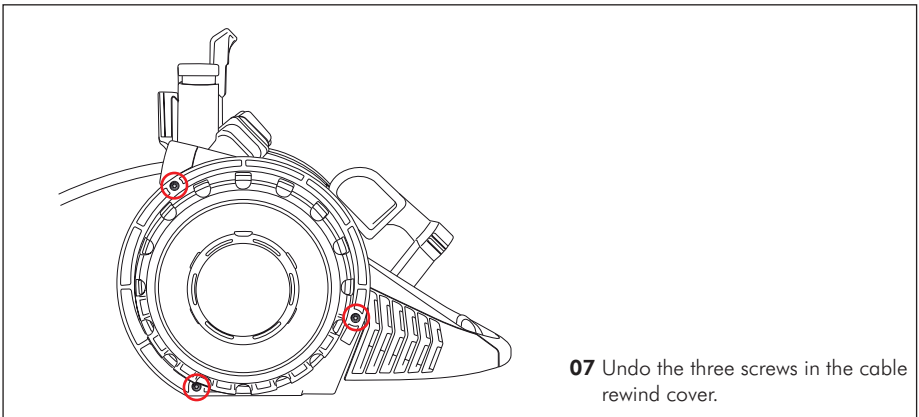
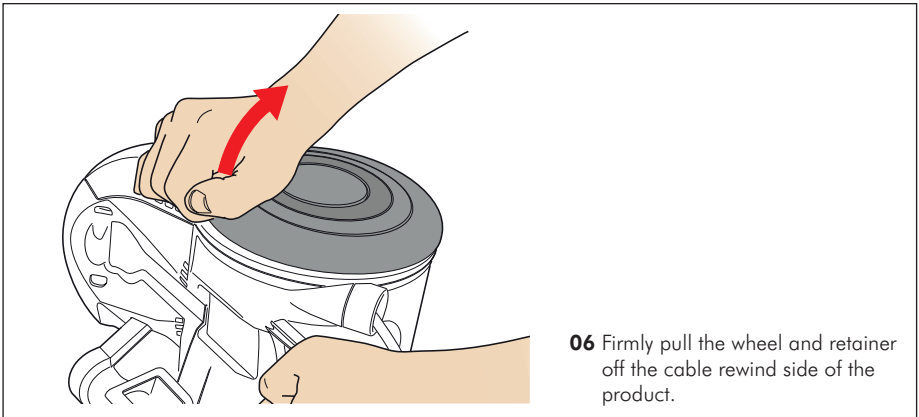
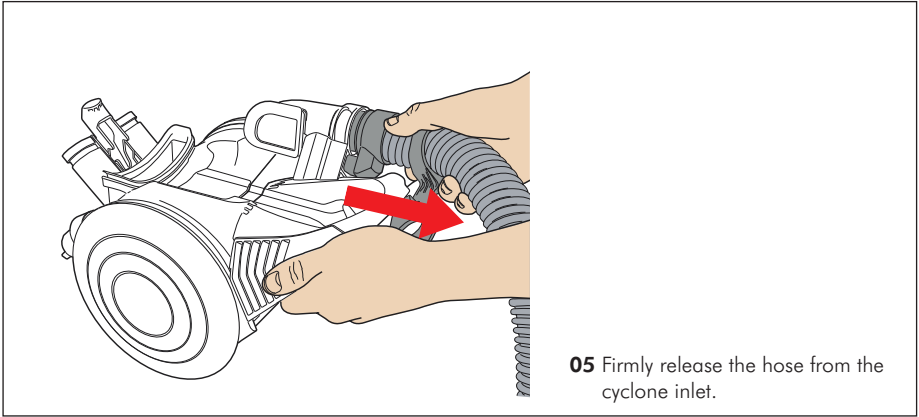
02 Undo the two fasteners in the post filter cover assembly.

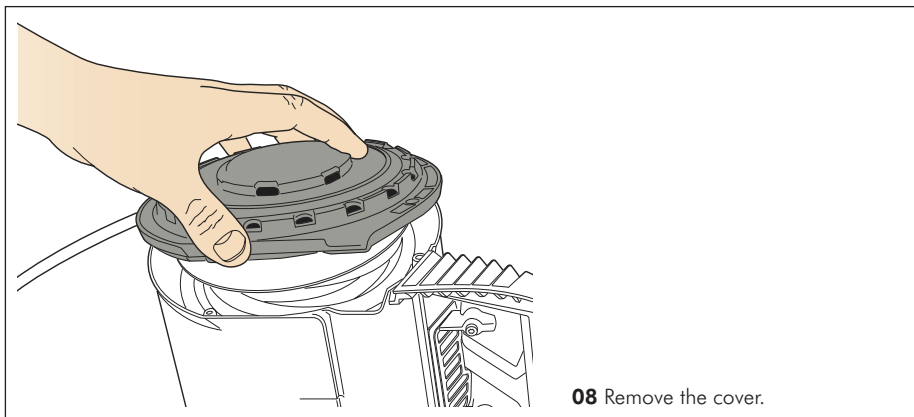


03 Remove the cover.

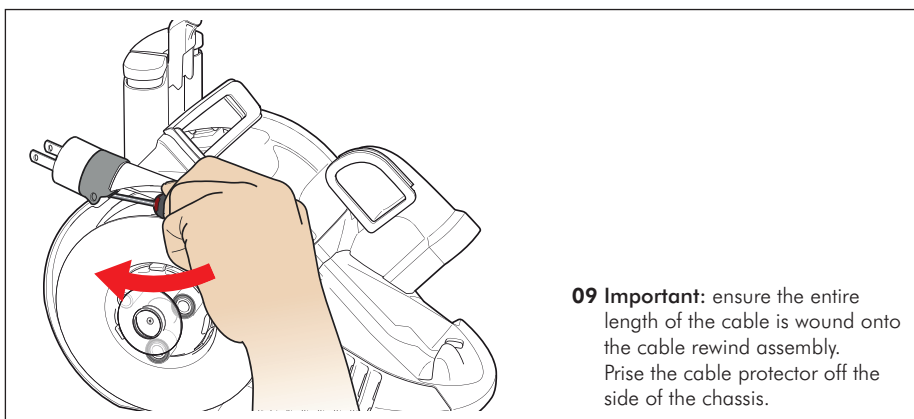


04 Pull the hose retainer catch to release the hose from the base of the product.

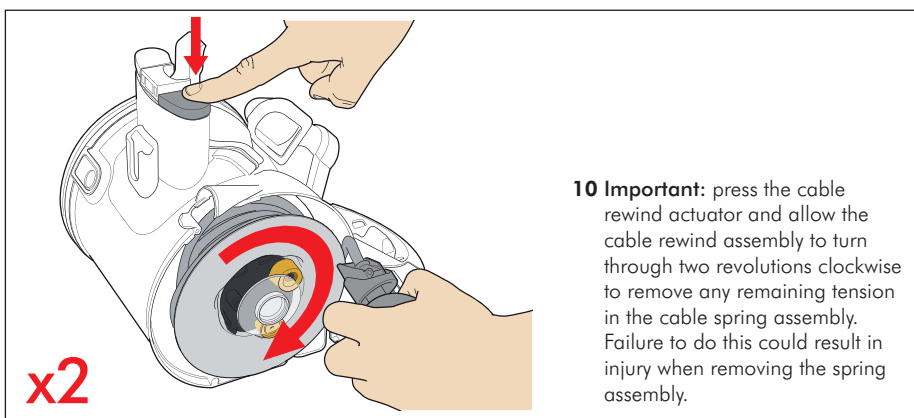




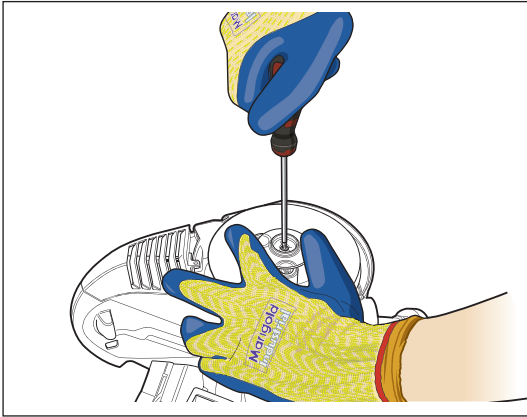
08 Remove the cover.



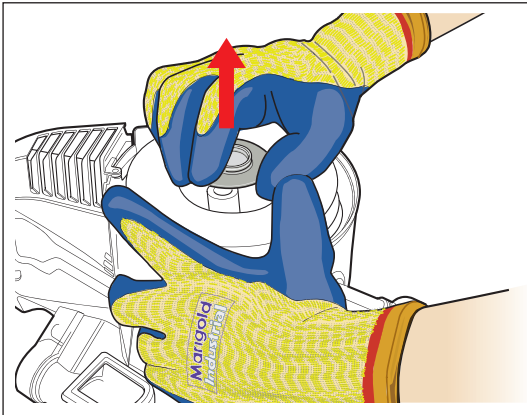
09 Important: ensure the entire length of the cable is wound onto the cable rewind assembly. Prise the cable protector off the side of the chassis.



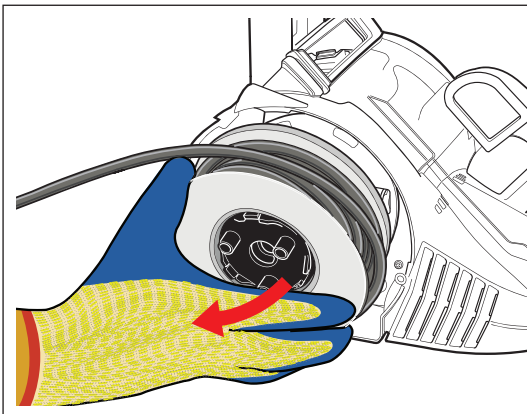
10 Important: press the cable rewind actuator and allow the cable rewind assembly to turn through two revolutions clockwise to remove any remaining tension in the cable spring assembly. Failure to do this could result in injury when removing the spring assembly.



- 11** Undo the T-15 screw in the middle of the cable rewind spring assembly.

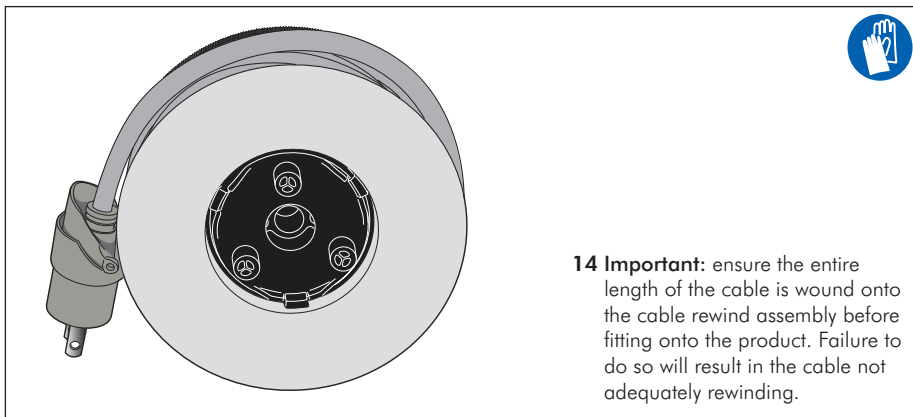


- 12** Carefully remove the spring assembly from the cable rewind assembly.

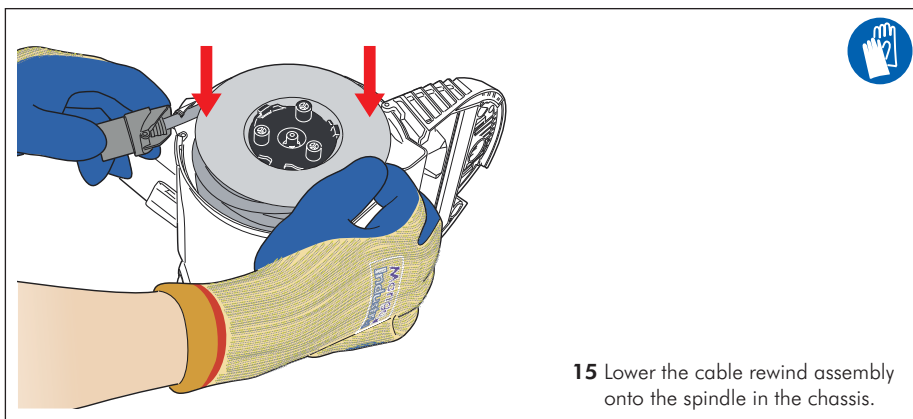


- 13** Remove the cable rewind assembly from the side of the product.

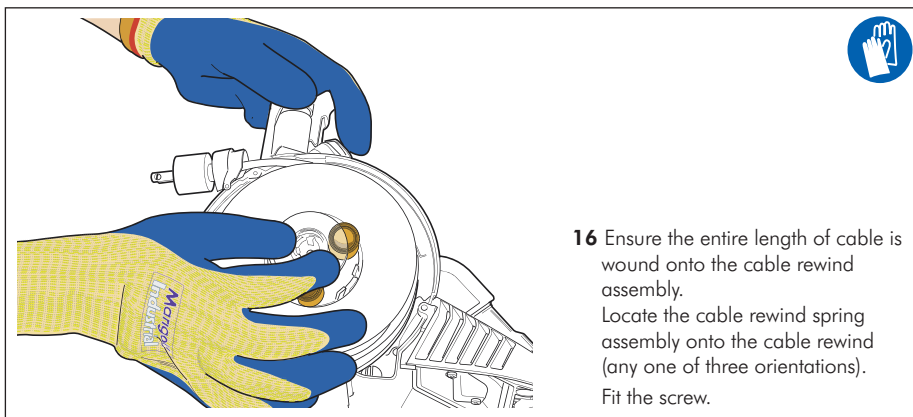
Cable rewind - fitting



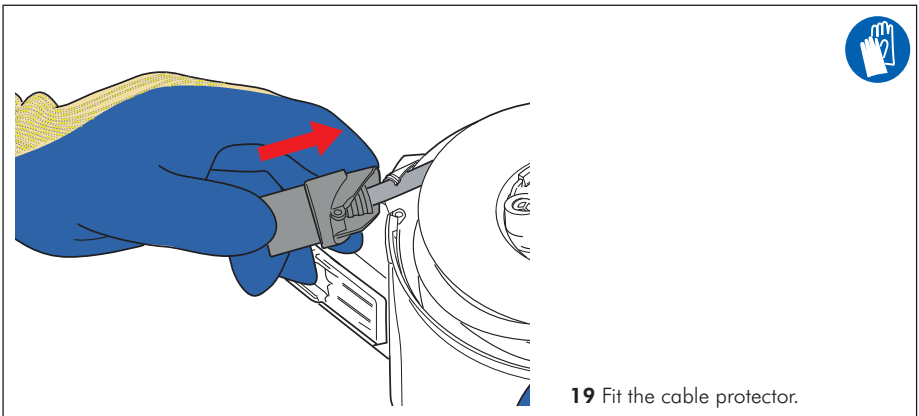
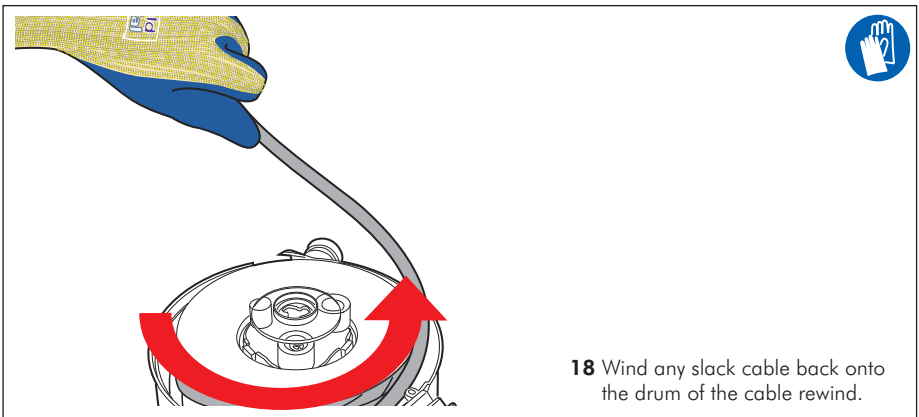
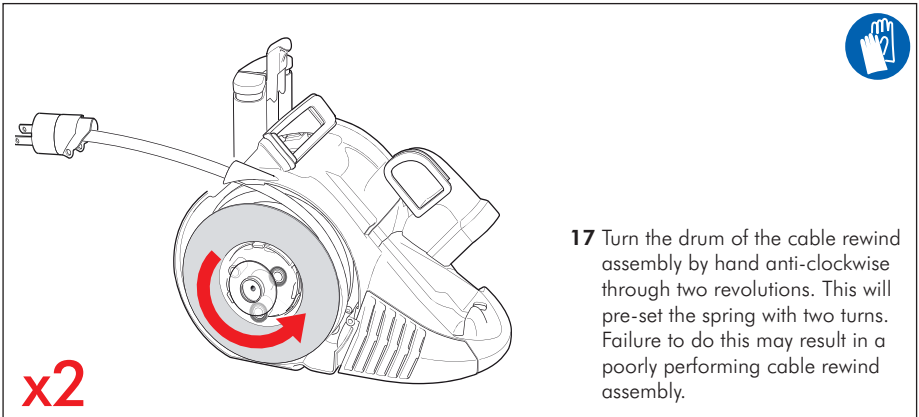
14 Important: ensure the entire length of the cable is wound onto the cable rewind assembly before fitting onto the product. Failure to do so will result in the cable not adequately rewinding.

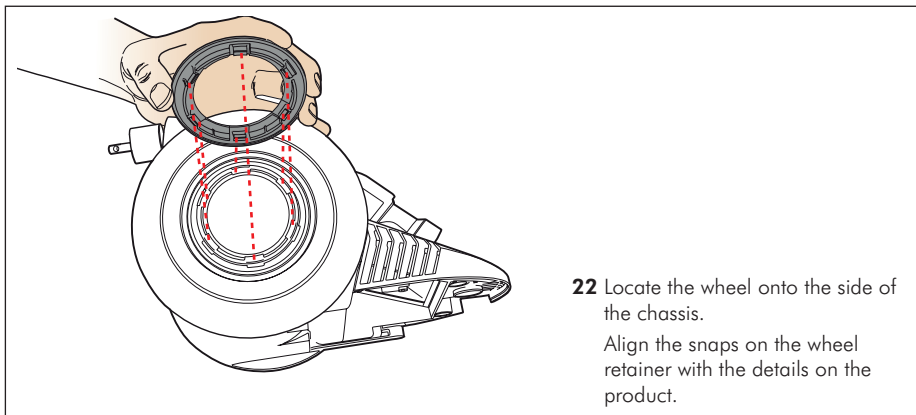
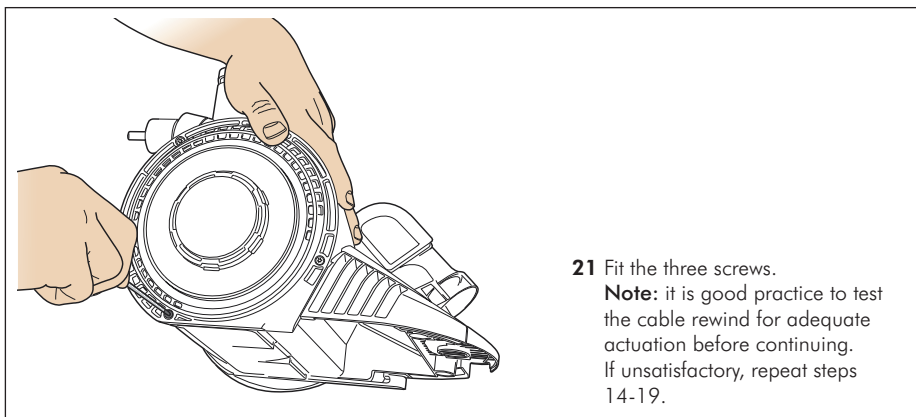
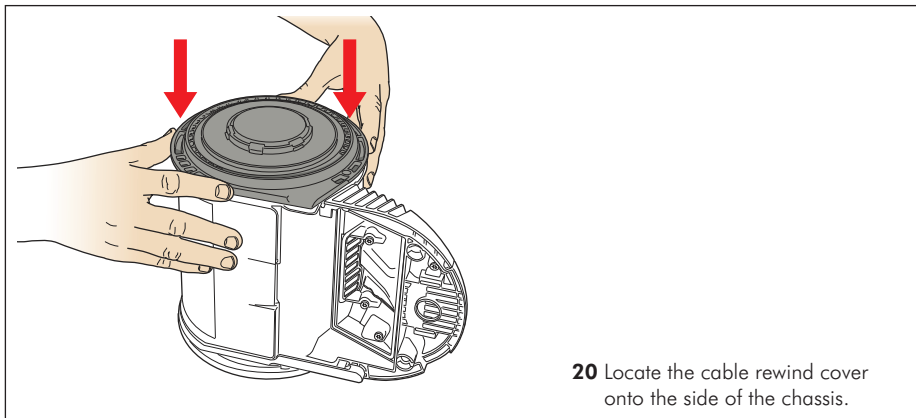


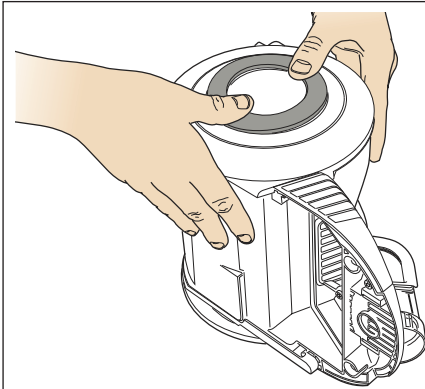
15 Lower the cable rewind assembly onto the spindle in the chassis.



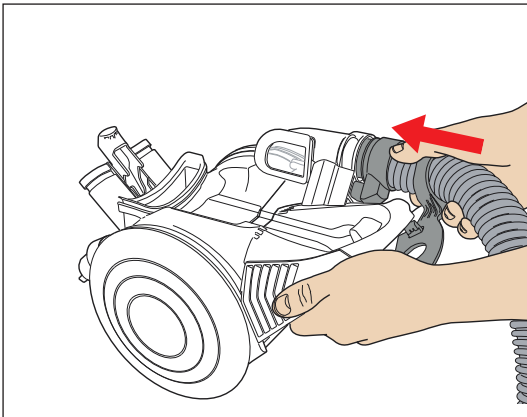
16 Ensure the entire length of cable is wound onto the cable rewind assembly. Locate the cable rewind spring assembly onto the cable rewind (any one of three orientations). Fit the screw.



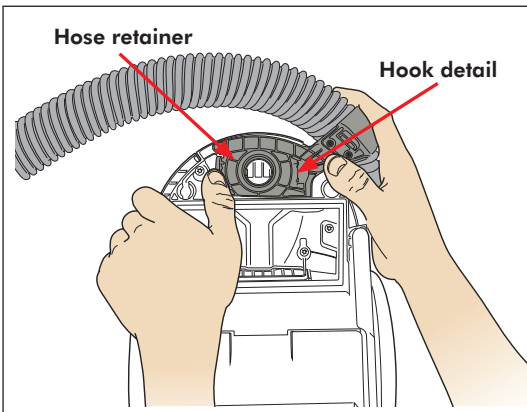




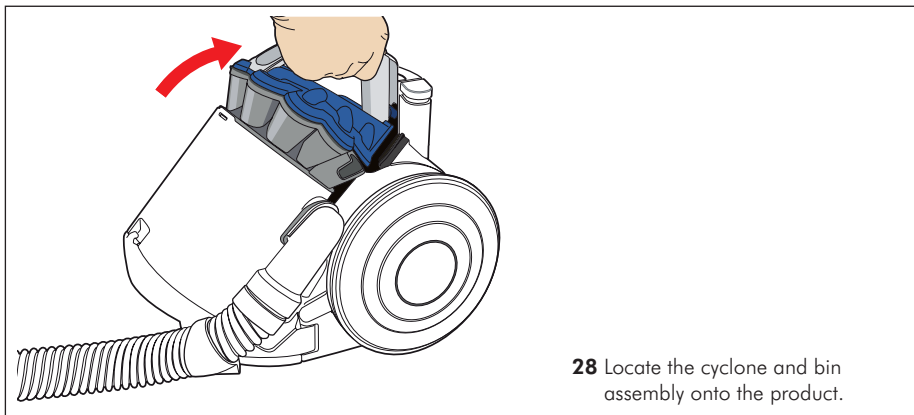
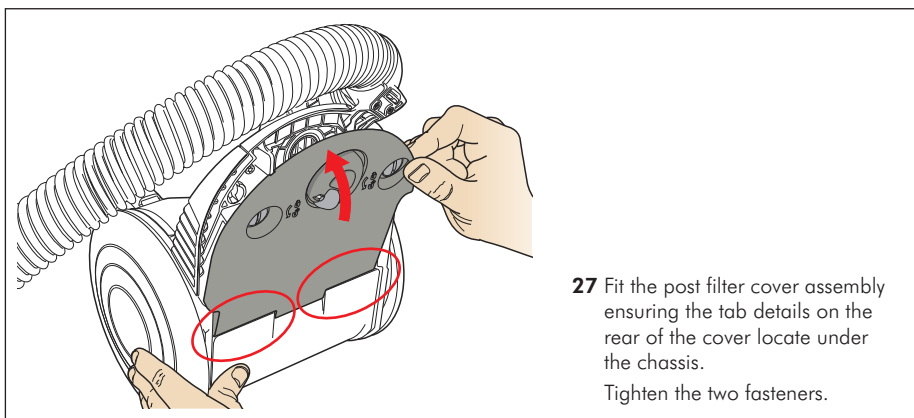
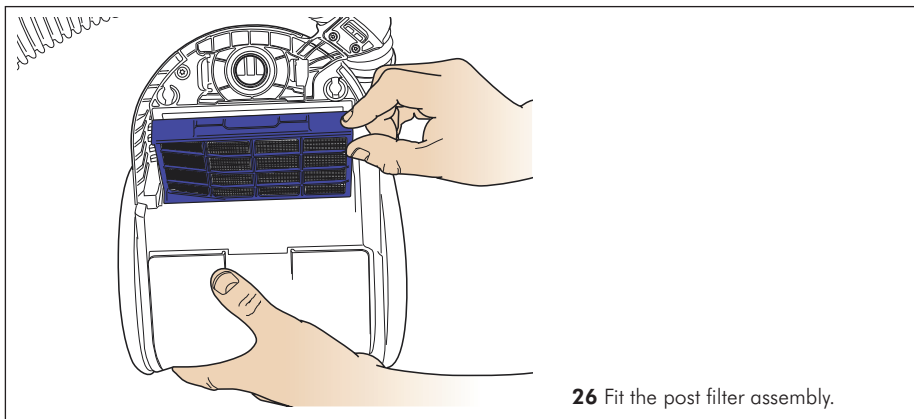
- 23** Firmly press the retainer into position ensuring each of the snaps locate.



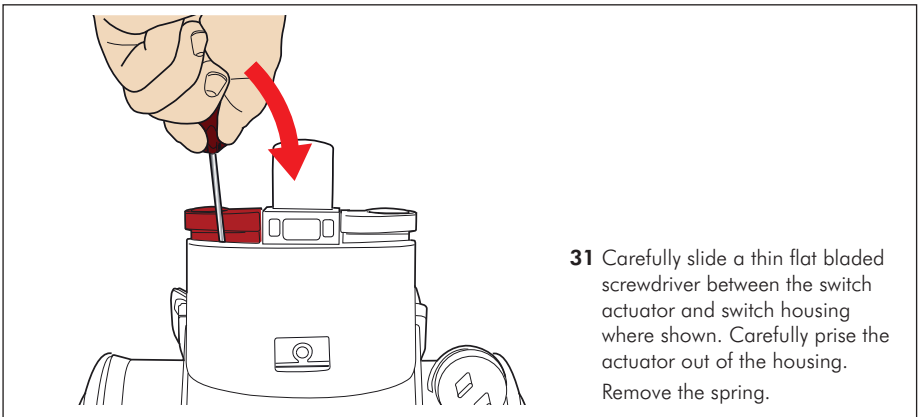
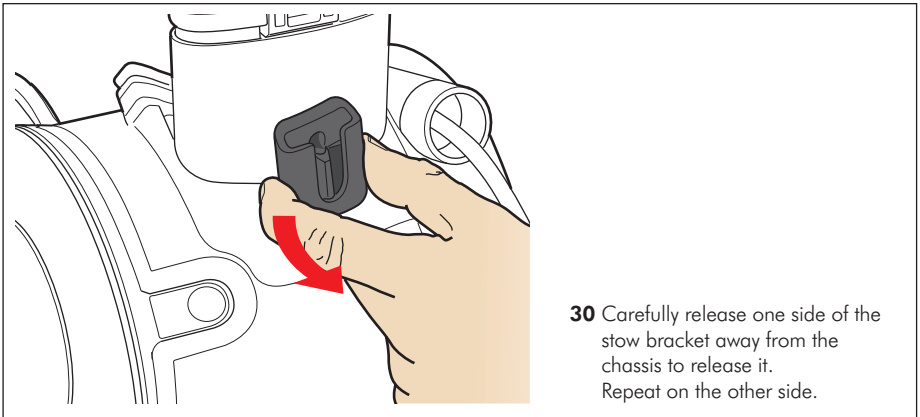
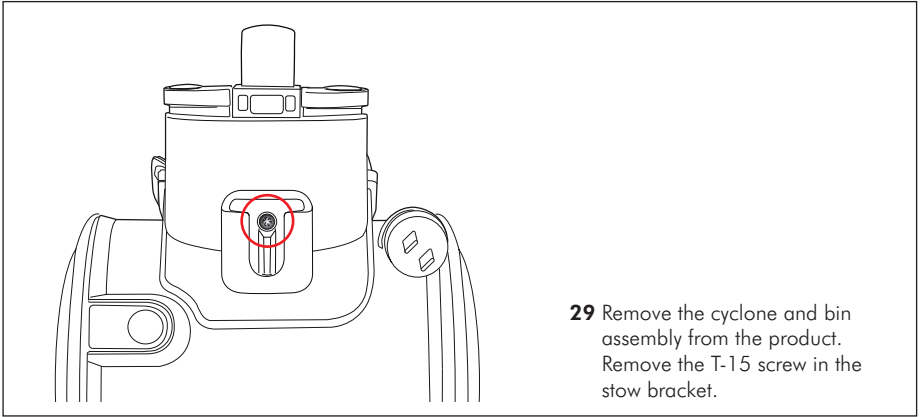
- 24** Slide the hose into the cyclone inlet. Ensure it is pushed in as far as possible.

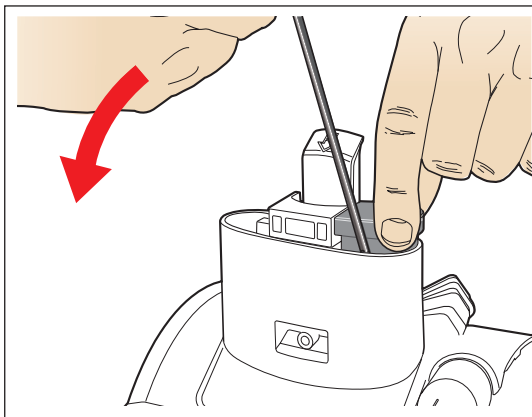


- 25** Locate the hook detail into the front of the chassis. Press the hose retainer onto the chassis until the release catch 'clicks' into position.

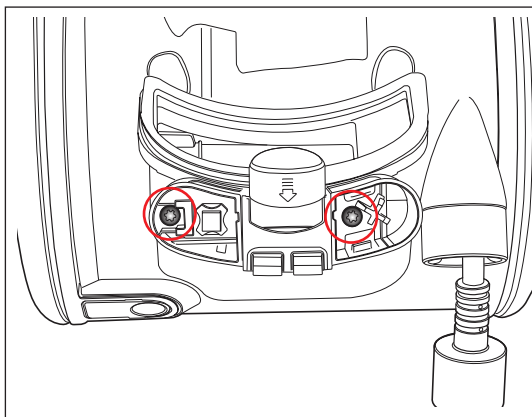


Switch - removal

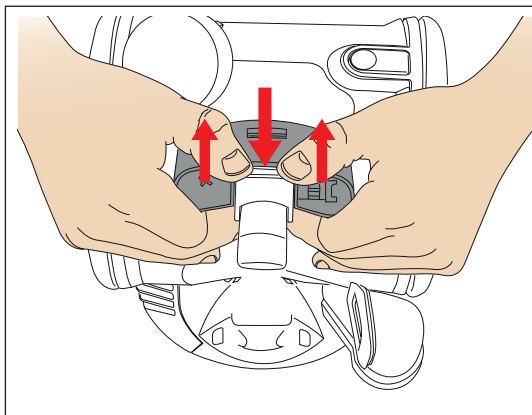




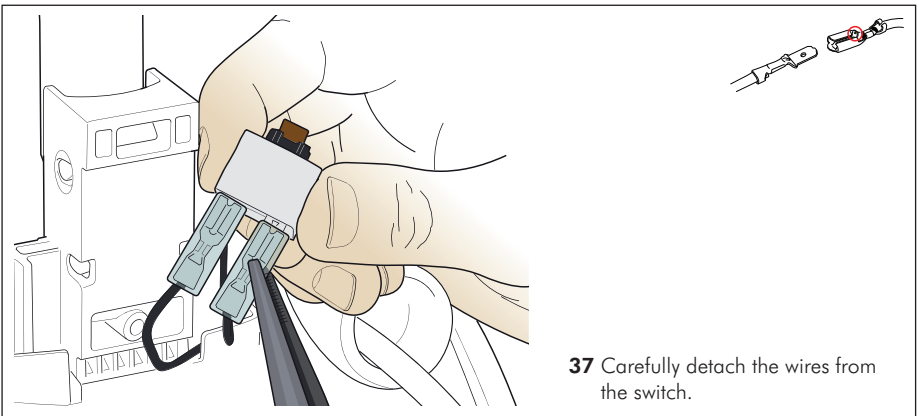
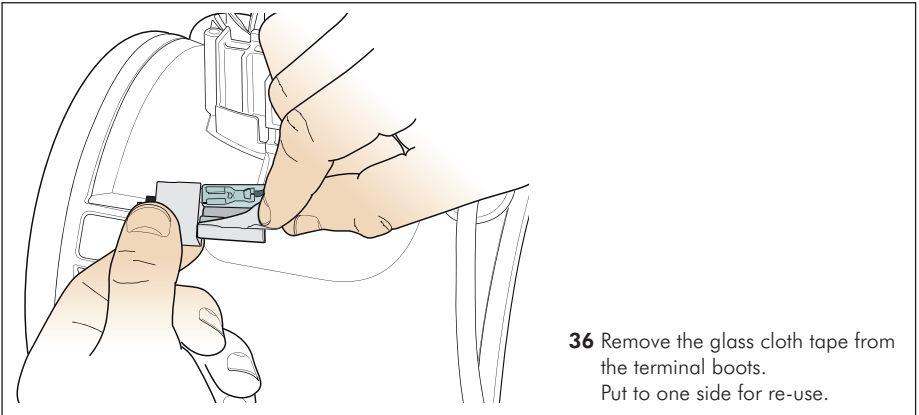
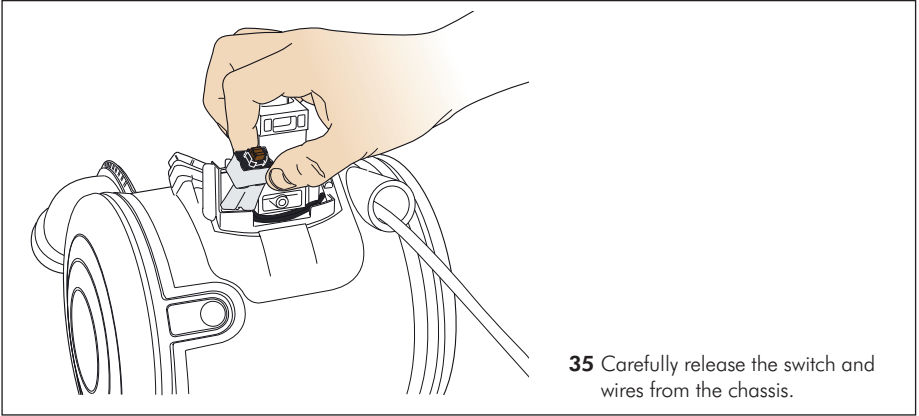
32 Repeat for the other actuator ensuring the screwdriver is inserted exactly where shown. Failure to insert it where shown may result in damage to the actuator housing.



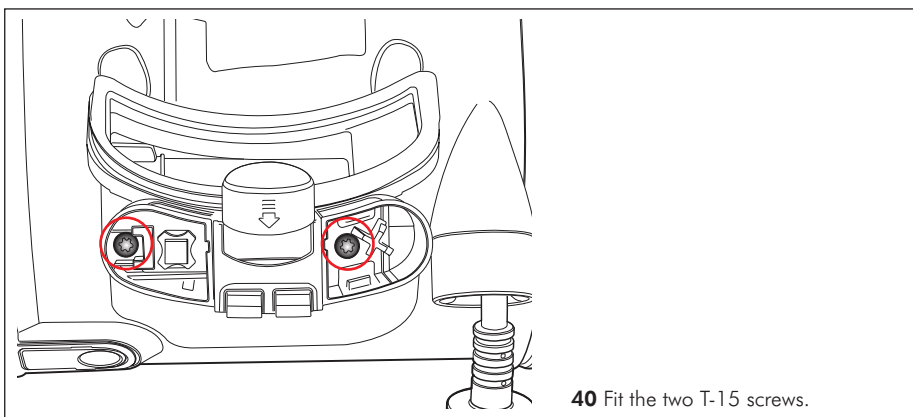
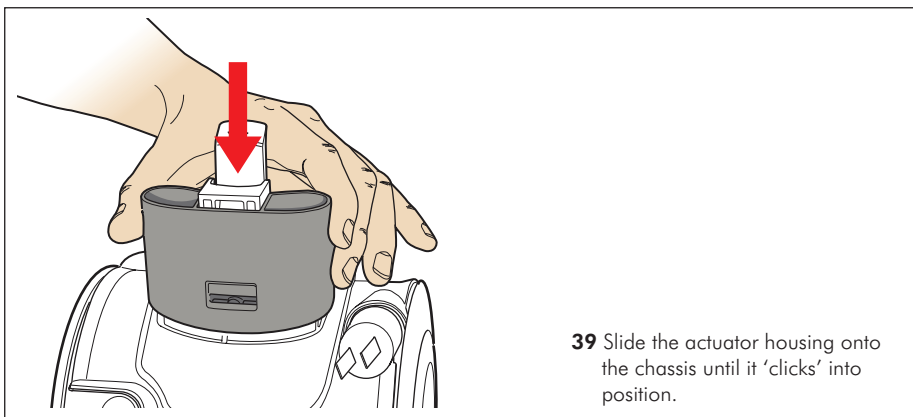
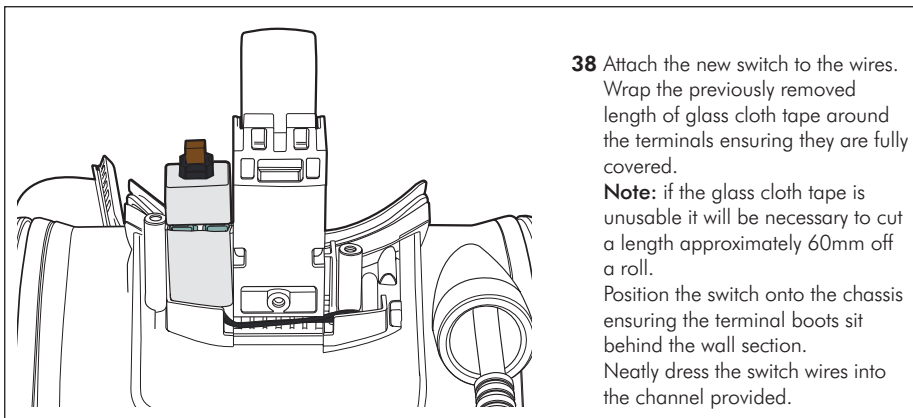
33 Undo the two T-15 screws.

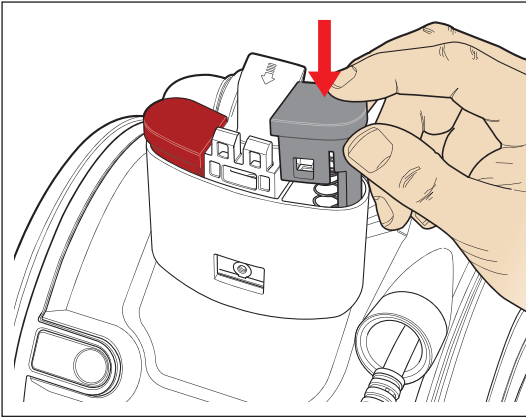


34 Firmly remove the actuator housing.

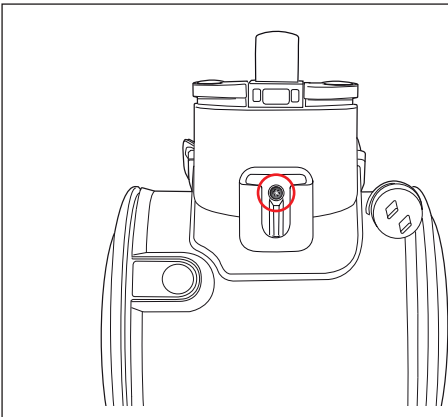


Switch - fitting



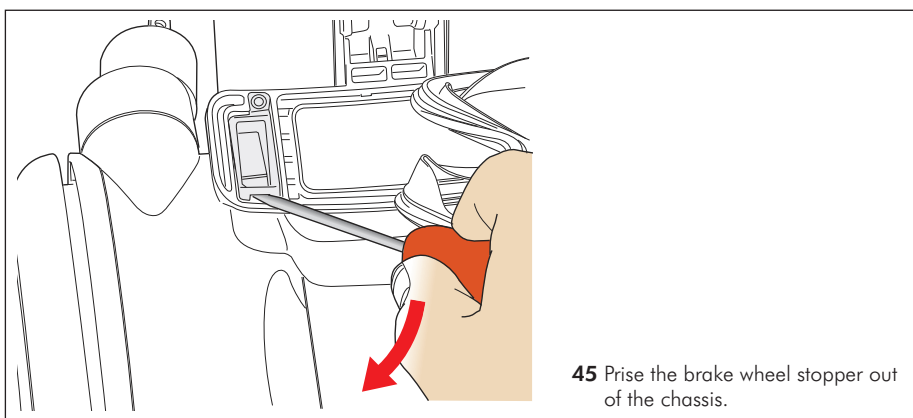
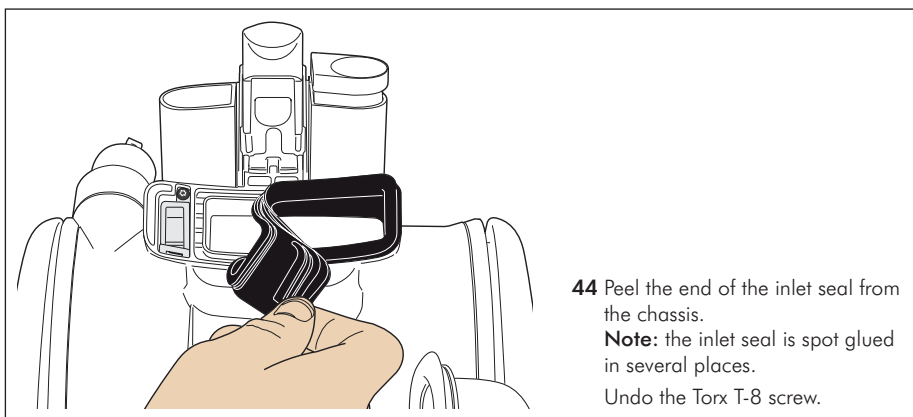
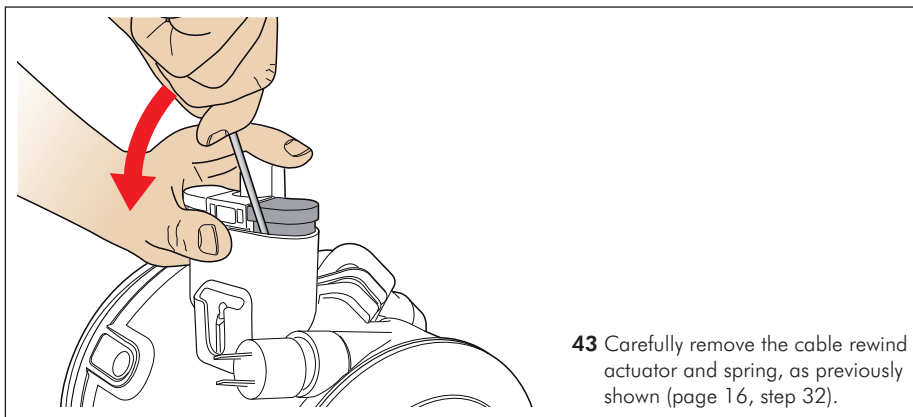


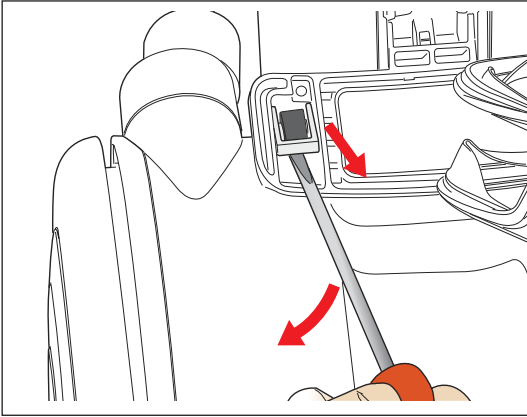
41 Fit each actuator ensuring the springs are positioned under the cruciform details.



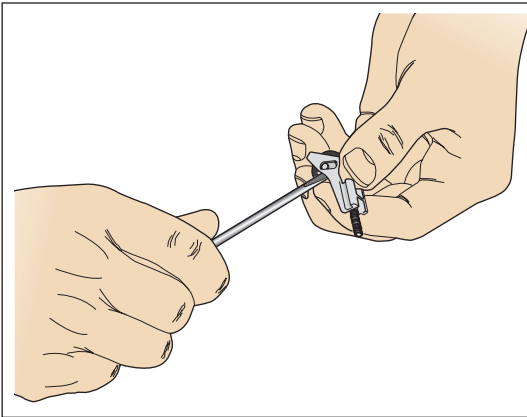
42 Twist the stow bracket onto the chassis.
Fit the T-15 screw.

Brake wheel assy - removal



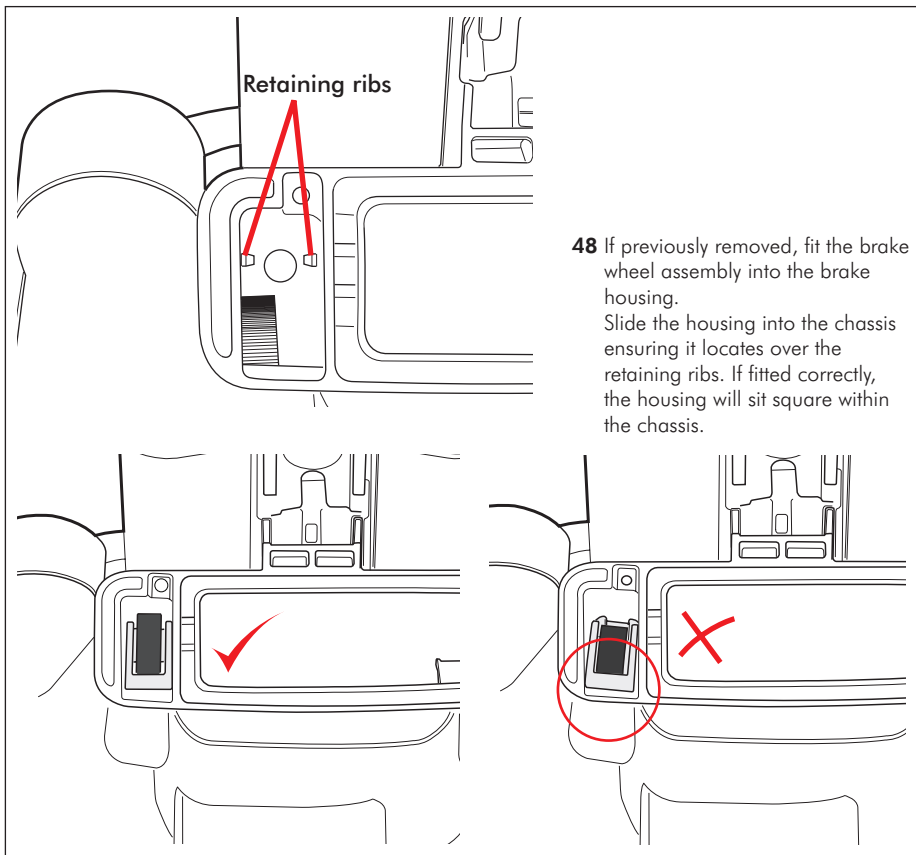


46 Prise the brake wheel housing and brake wheel assembly out of the chassis.

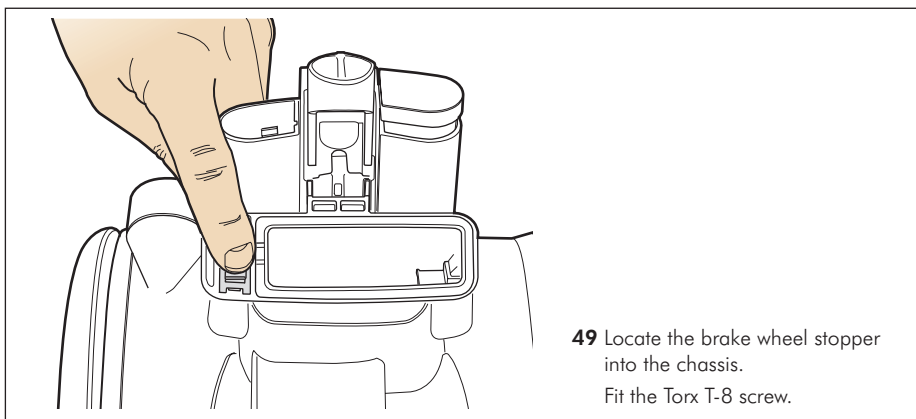


47 Separate the brake wheel assembly from the housing if necessary.

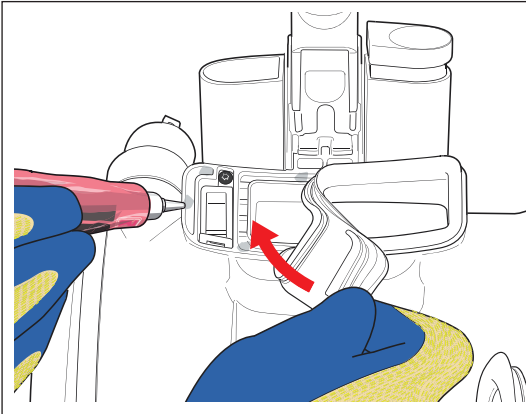
Brake wheel assy - fitting



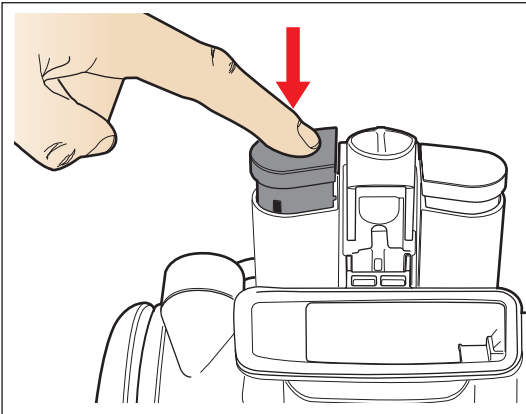
48 If previously removed, fit the brake wheel assembly into the brake housing. Slide the housing into the chassis ensuring it locates over the retaining ribs. If fitted correctly, the housing will sit square within the chassis.



49 Locate the brake wheel stopper into the chassis. Fit the Torx T-8 screw.



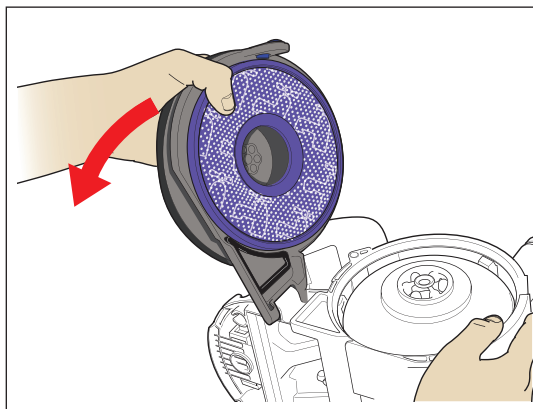
- 50** Apply several spots of glue around the edges of the inlet. Refit the inlet seal ensuring it is adequately seated in all channels.



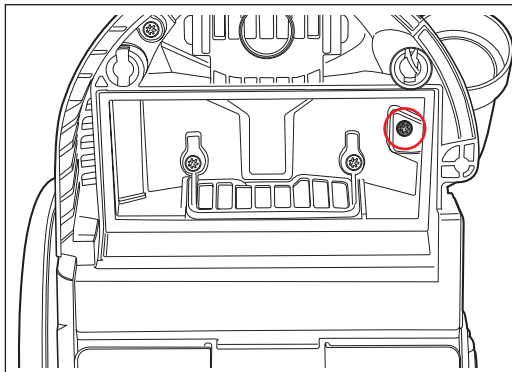
- 51** Refit the cable rewind actuator.
Note: it is good practice to test the cable rewind for adequate actuation.

Cyclone inlet, chassis and motor assembly replacement - dismantle

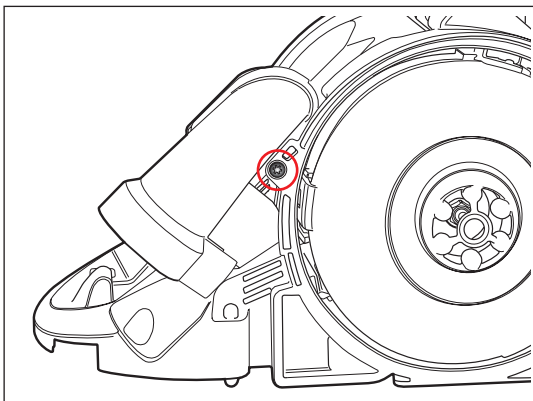
Before continuing the following parts should be removed as previously shown:
Cyclone and bin assembly, Wand and hose, Cable rewind assembly (pages 5-9)



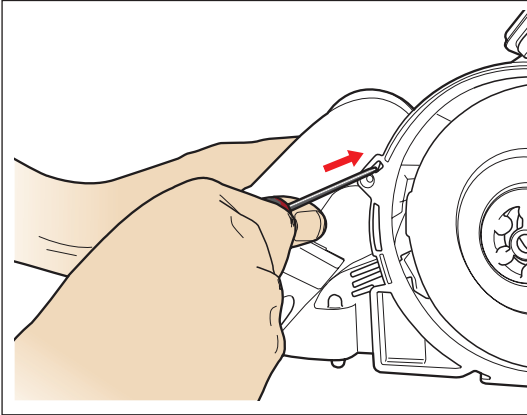
52 Press the release catch and open the pre-filter door assembly. Remove the assembly by prising it away from the chassis.



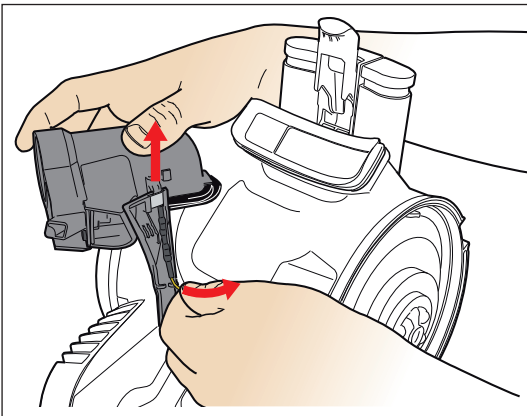
53 Remove the screw below the post filter assembly.



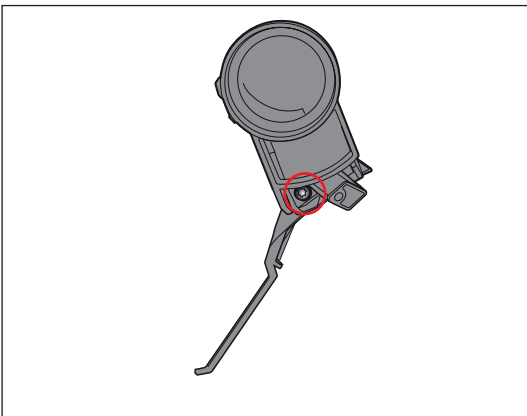
54 Remove the screw in the side of the chassis.



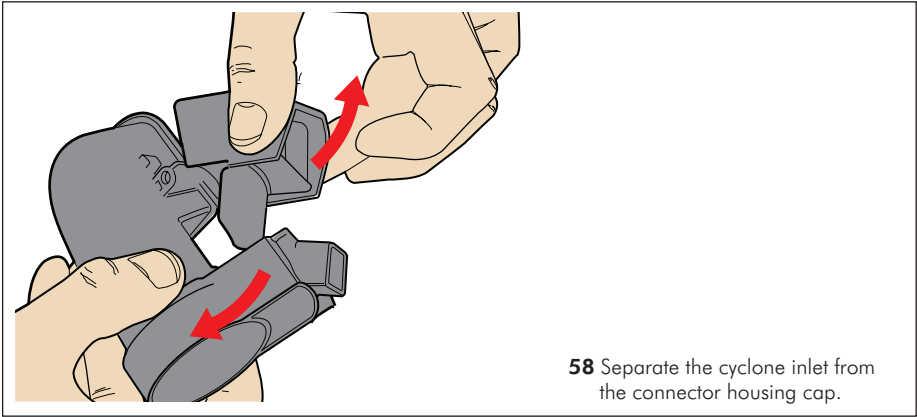
55 Carefully prise the cyclone inlet out of the catch detail on the side of the chassis.



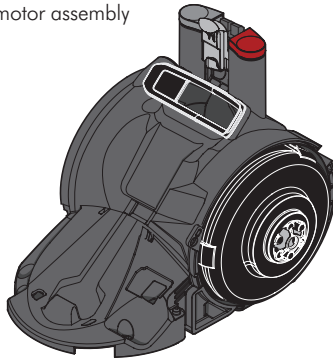
56 Carefully release the ESD wire and tab from the cyclone inlet.



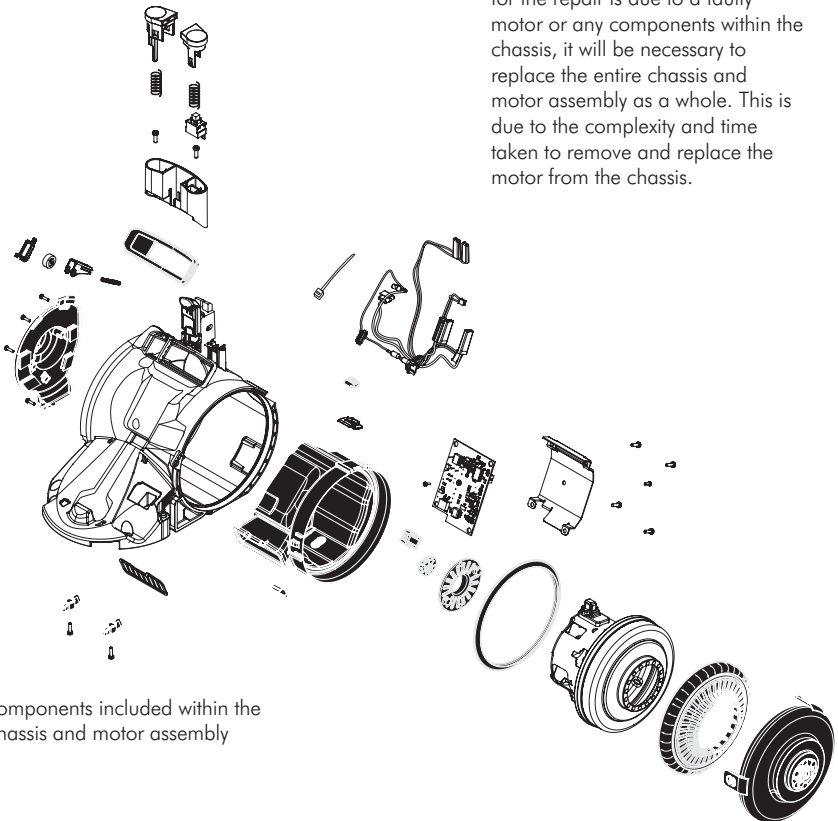
57 If replacing any of the parts attached to the cyclone inlet, remove the screw in the underside of the inlet.



Chassis and motor assembly

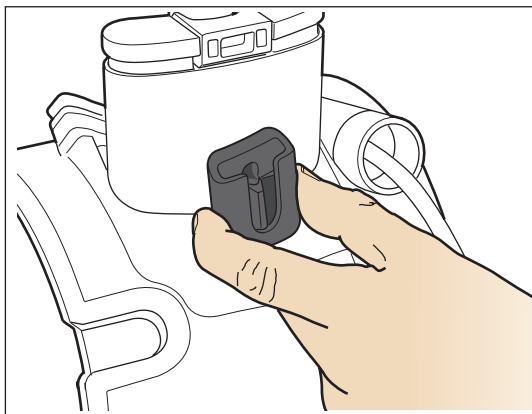


59 Please be aware that if the reason for the repair is due to a faulty motor or any components within the chassis, it will be necessary to replace the entire chassis and motor assembly as a whole. This is due to the complexity and time taken to remove and replace the motor from the chassis.

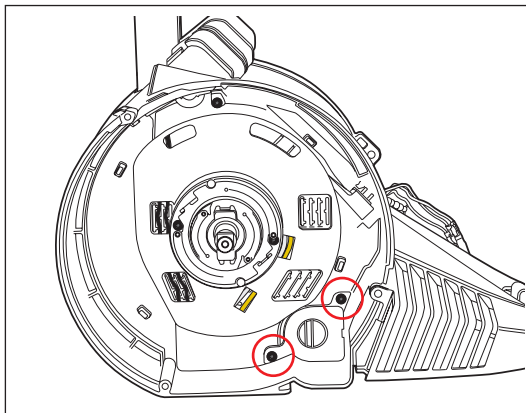


Components included within the Chassis and motor assembly

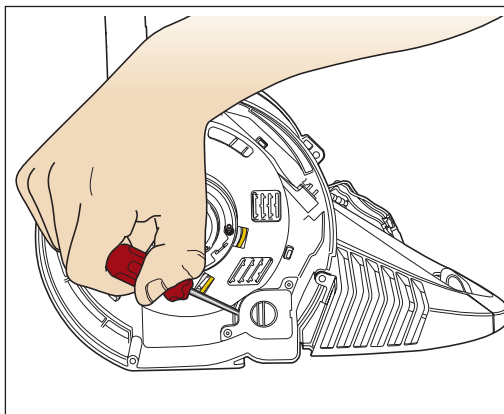
The following components are only offered separately and will require removing from the chassis and motor assembly, before fitting to the new assembly.



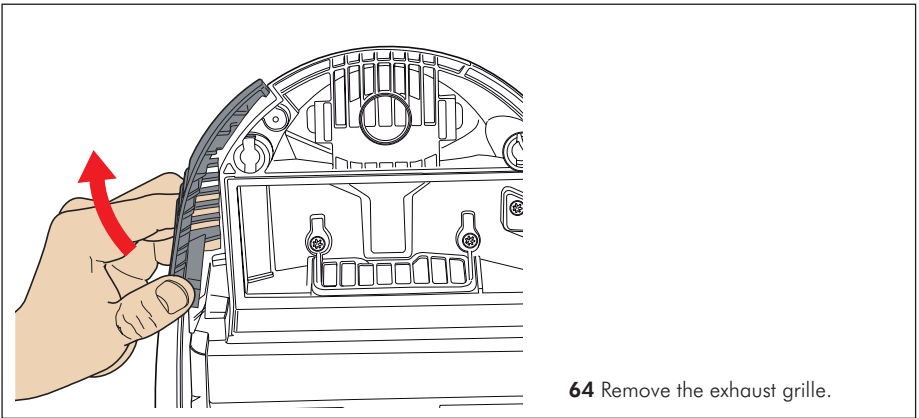
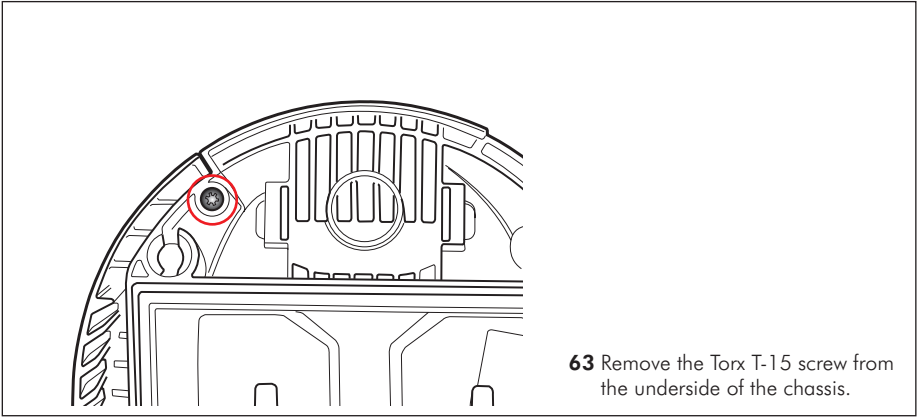
- 60** Remove the screw in the stow bracket.
Carefully prise one side of the stow bracket away from the chassis to release it. Repeat on the other side.



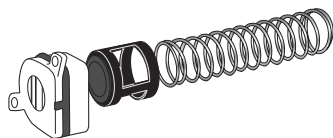
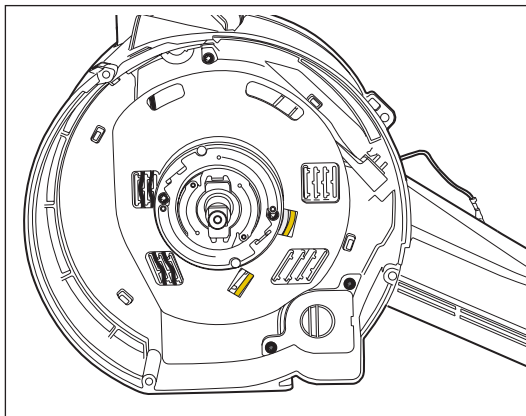
- 61** Remove the two Torx T-8 screws from the bleed valve housing.



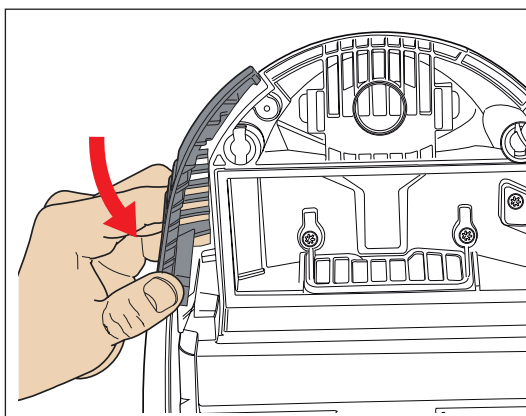
- 62** Carefully ease the bleed valve housing out of the chassis using a thin flat bladed screwdriver.



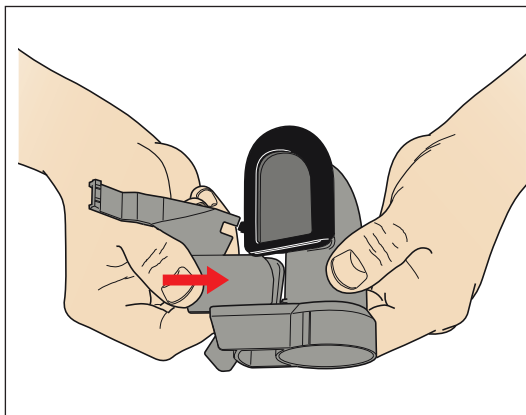
Cyclone inlet, chassis and motor assembly replacement - fitting



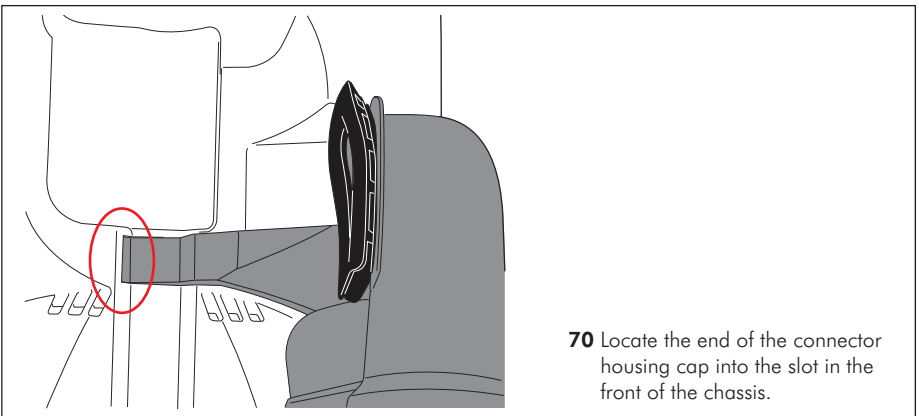
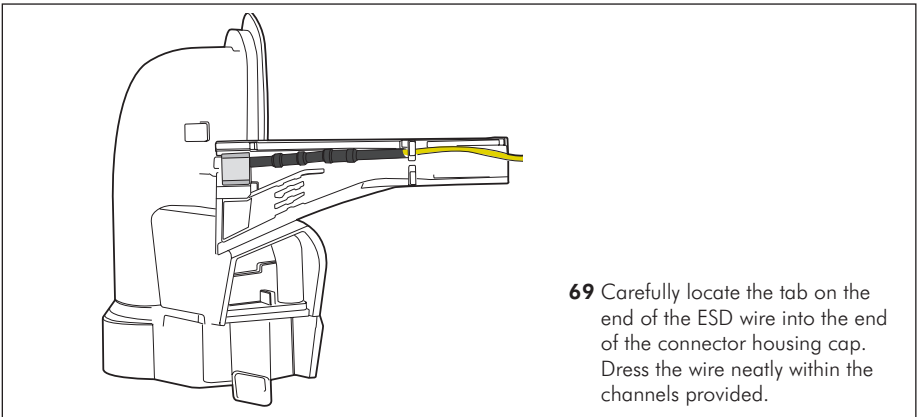
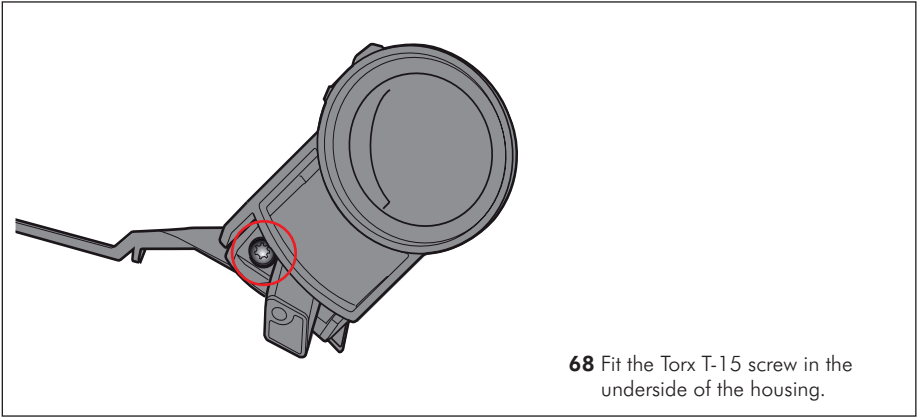
65 Locate the components that make up the bleed valve into the new chassis and motor assembly in the orientation shown. Fit the screws.

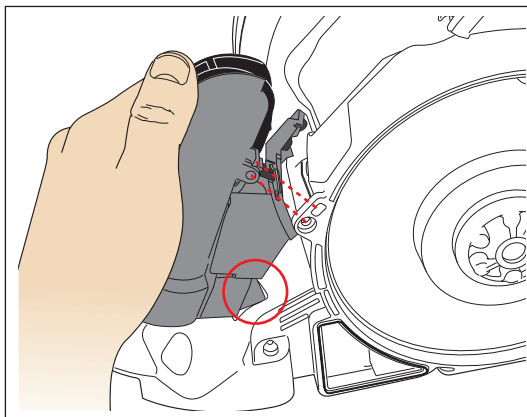


66 Locate the exhaust grille onto the side of the chassis. Fit the screw in the underside of the chassis.

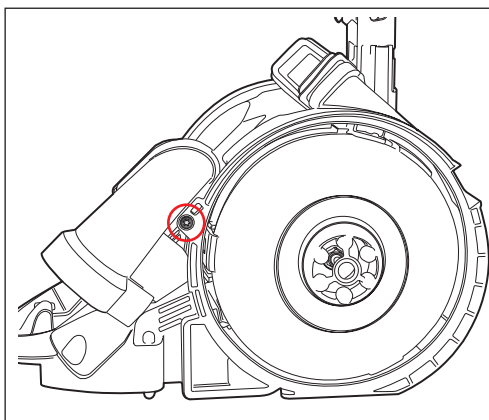


67 Slide the connector housing cap onto the cyclone inlet assembly.

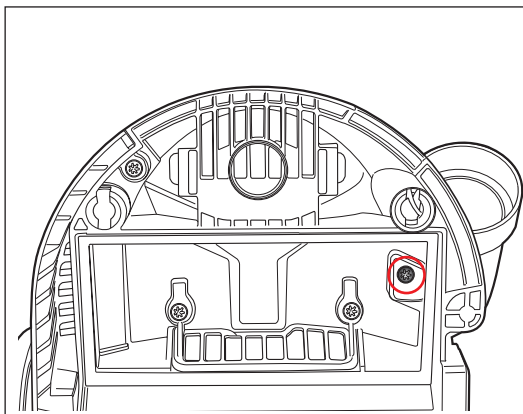




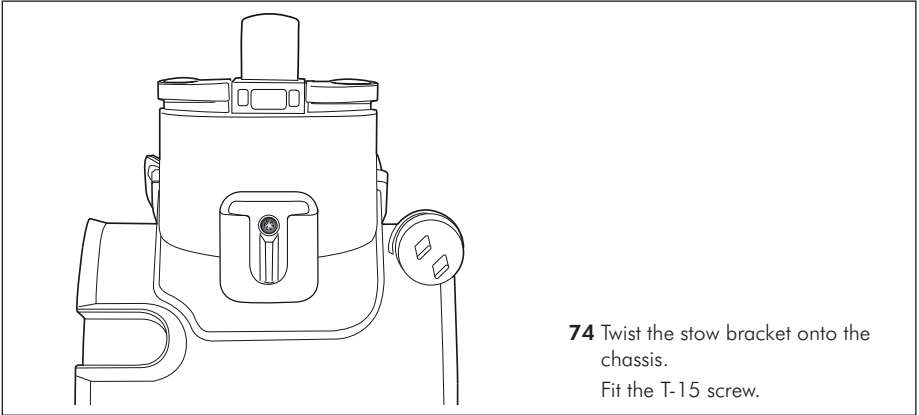
71 Locate the underside of the cyclone inlet assembly into the chassis.



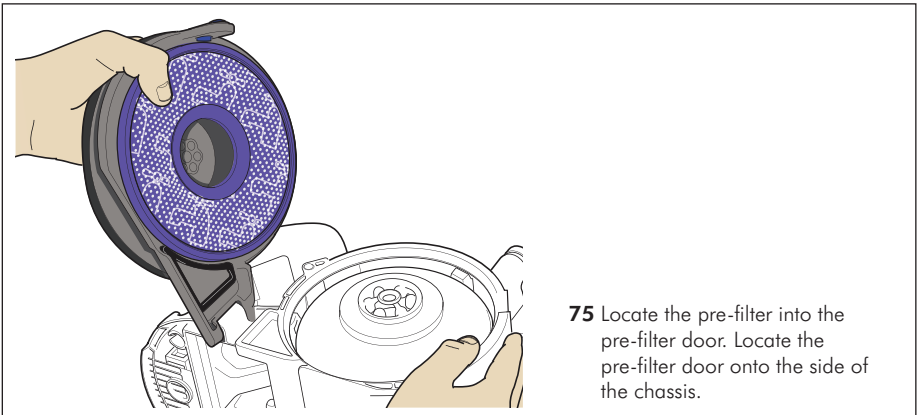
72 Fit the screw in the side of the chassis.



73 Fit the screw in the underside of the product.



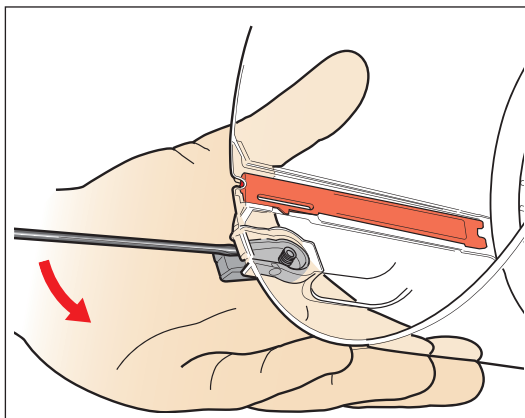
- 74** Twist the stow bracket onto the chassis.
Fit the T-15 screw.



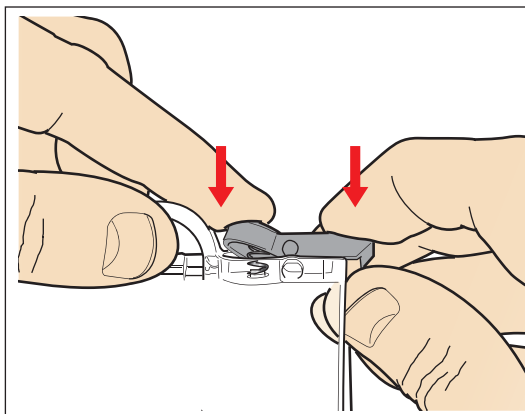
- 75** Locate the pre-filter into the pre-filter door. Locate the pre-filter door onto the side of the chassis.

After completing all the preceding steps the following parts should be fitted as previously shown:
Cable rewind assembly (pages 10-14).

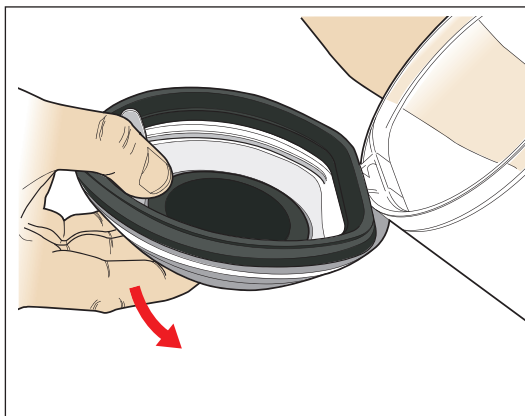
Sub assemblies - Bin assembly



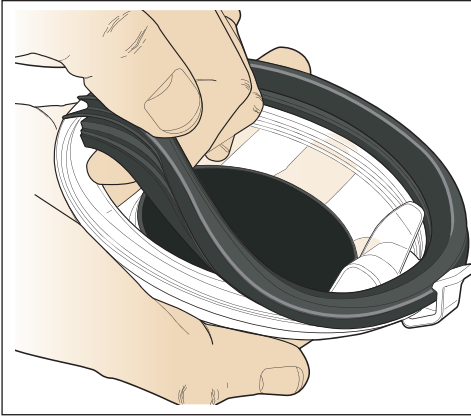
76 The front bin catch can be removed from the bin assembly by gently prising off with a thin flat bladed screwdriver.



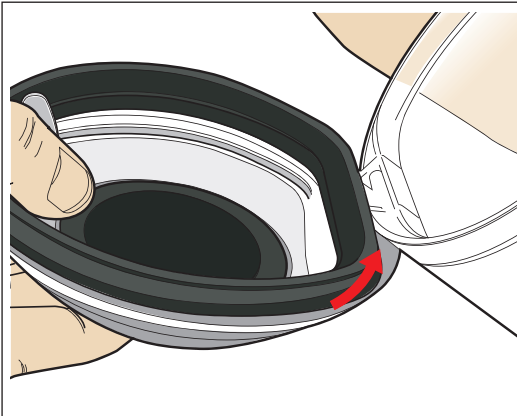
77 To fit, locate the spring onto the pip on the catch. Firmly press both parts onto the bin.



78 The bin base assembly can be removed by firmly prising off the bin assembly.

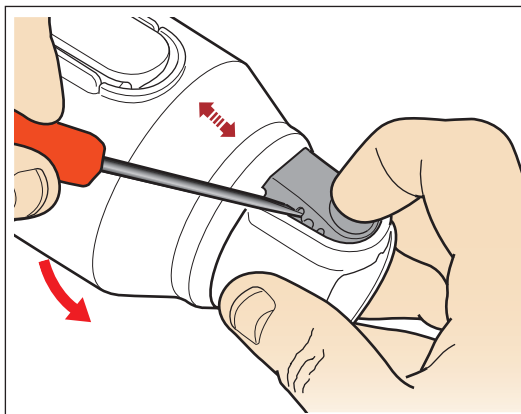


79 The bin base seal and FDC seal can be replaced by firmly pulling out of the bin base assembly. When fitting ensure all seals are adequately seated.

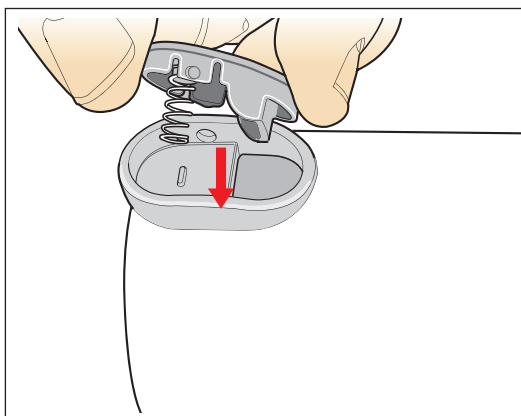


80 To locate the bin base assembly, locate one of the legs on the assembly onto the hinge point on the bin. Once located firmly press the other leg into place.

Sub assemblies - wand handle, hose and extension tube assemblies



81 The swivel catch can be removed from the end of the handle, hose or extension tube by prising off with a thin flat bladed screwdriver.

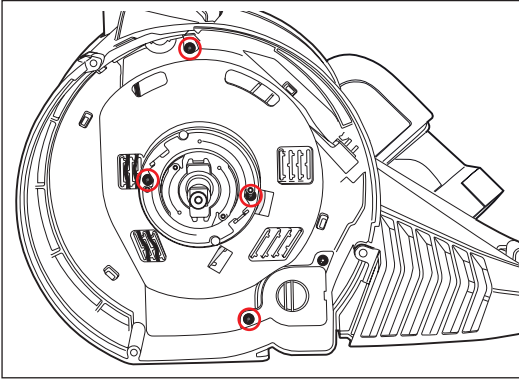


82 To fit, locate the spring onto the rear of the swivel catch. Firmly press the catch into the retainers on the handle, hose or extension tube.

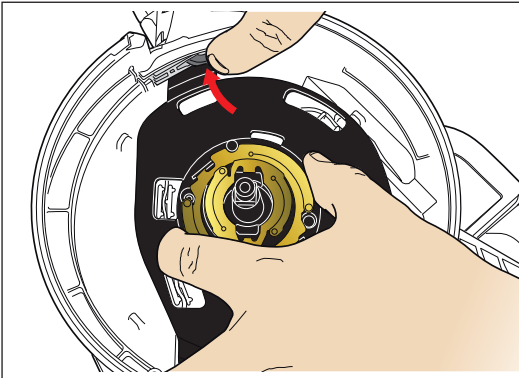
Cable wiring assembly inspection

The cable wiring retainer assembly is not offered as a separate customer service spare item. It can however be removed for diagnostic purposes (see page 4 for details).

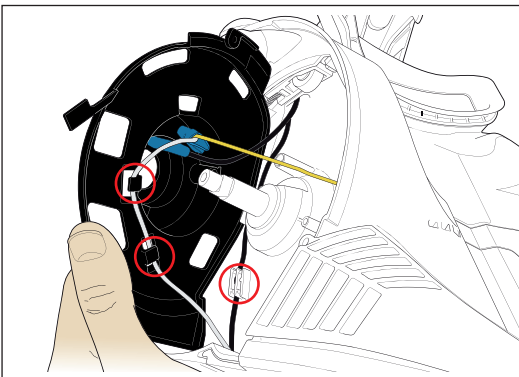
Remove the cable rewind assembly, ensuring all safety precautions are followed (see pages 5-9 for details).



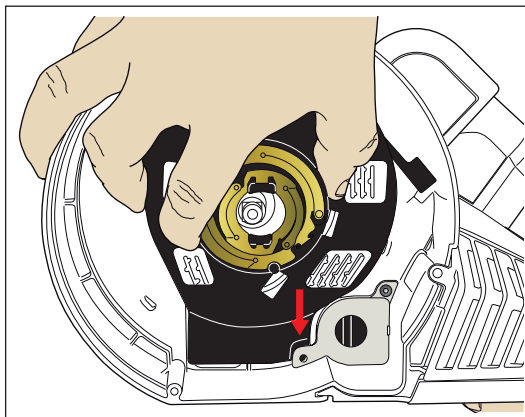
83 Remove the four Torx T-8 screws.



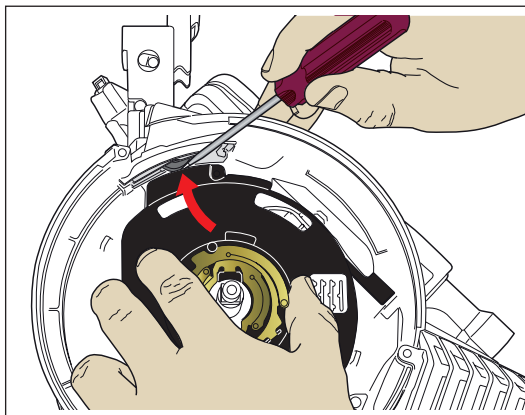
84 Press the brake wheel upwards. Carefully ease the cable wiring retainer assembly away from the brake wheel and bleed valve housing. With the cable wiring retainer assembly partially detached, any diagnostic checks can be carried out (see page 4 for details).



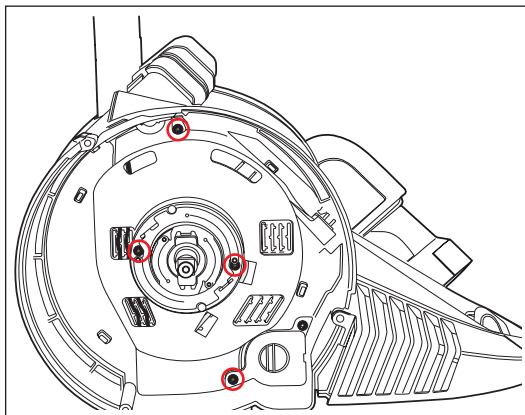
85 Before refitting, ensure wiring is neatly dressed within any retaining features.



86 Carefully ease the lower edge of the cable wiring retainer assembly behind the bleed valve housing.



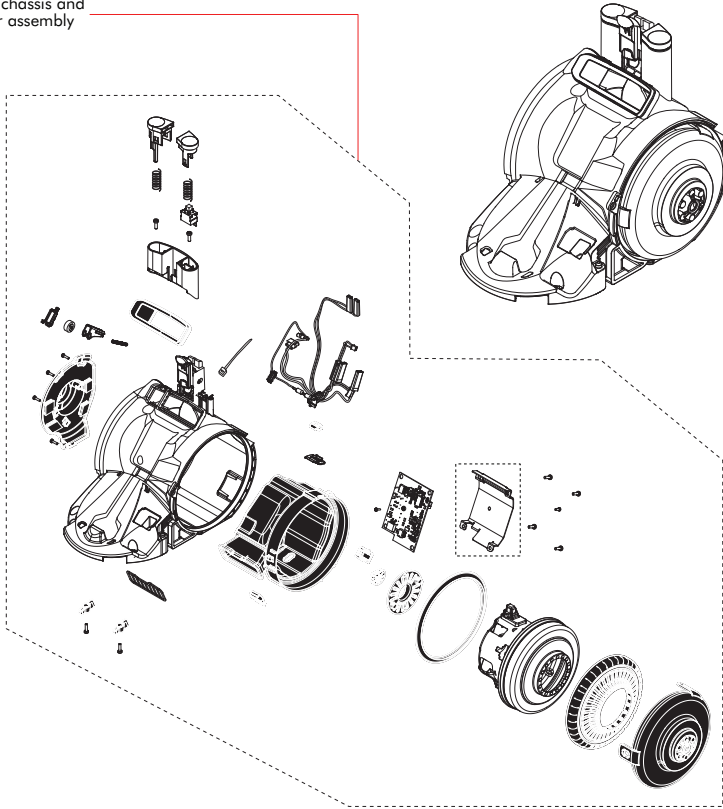
87 Lift the brake wheel assembly carefully upwards. Ease the top edge of the cable wiring retainer assembly behind the brake wheel.



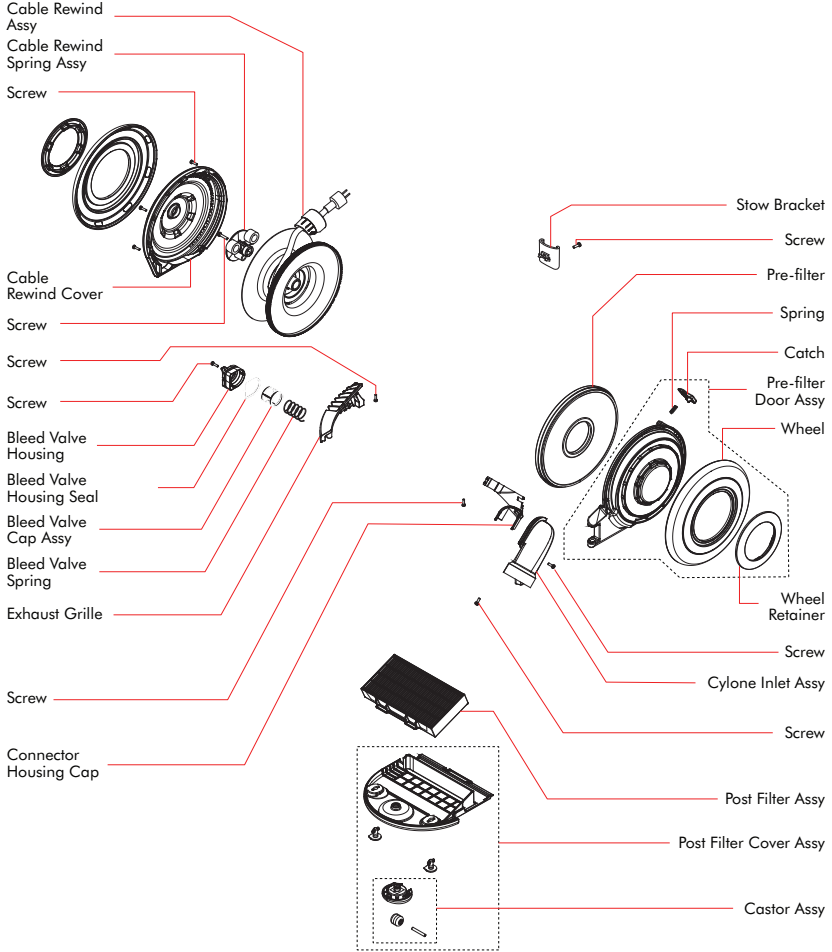
88 Fit the four screws. Refit the cable rewind assembly following all necessary precautions (see pages 10-14 for details).

Main chassis and motor assembly

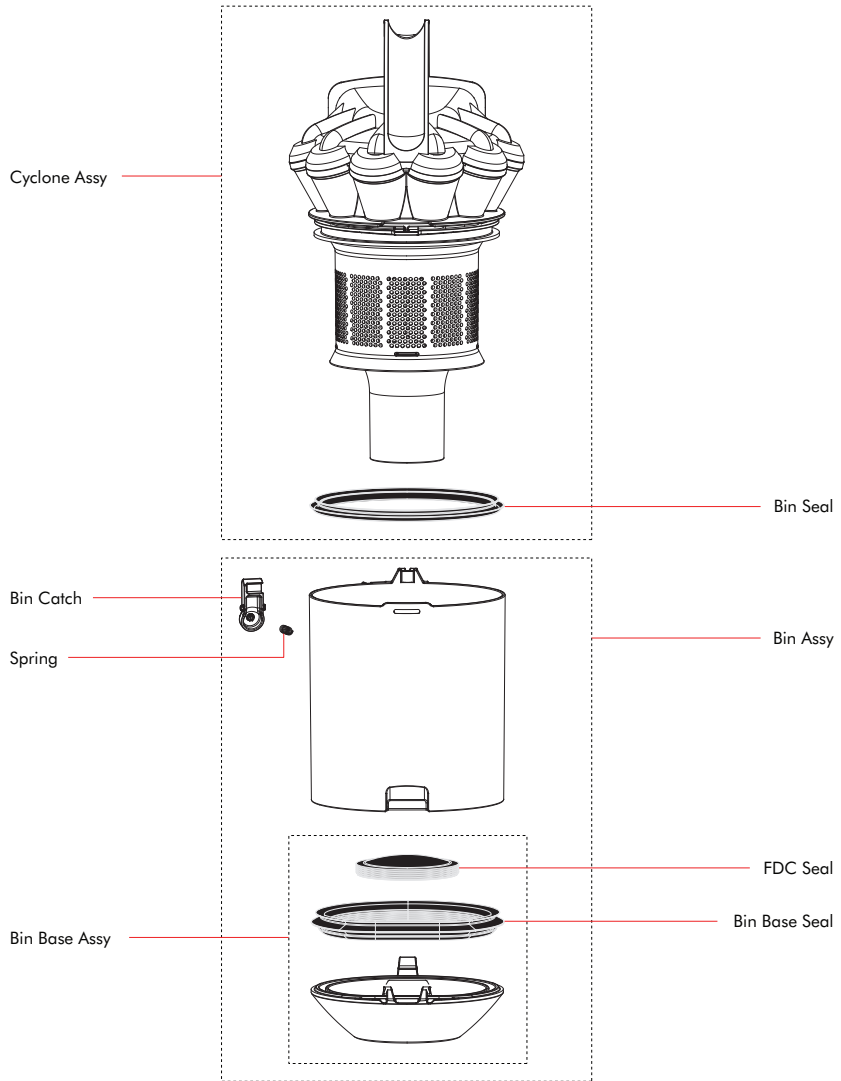
Main chassis and motor assembly



Main body parts



Cyclone and bin assemblies



Handle, hose and floor tool

