dyson pure hot+cool cryptomic



Service manual

SMPR-EN-HP07-7A-09-10-11-12-03/25-V1

Dyson Service Manual - Version Control

Version History Table

Original launch document version number: SMPR-EN-HP07-07A-09-10-11-12-03/25-V1 Publication Date: 03/2025

Revised version number	Detailed content of change	Change Author	Publication Date
ĺ	1	1	l

These repair instructions are intended for professional repairers of local space heaters only. Dyson accepts no liability for any incorrect use of these instructions.

This manual covers the full disassembly and reassembly of the following models:

HP07, HP7A, HP09, HP10, HP11, HP12



Contents

Technical information

Electrical safety testing	0
Wiring diagrams	
AQ displays during calibration	0
Accessing the diagnostic menu	0
Diagnostic table	0
3	
D. I. I.	
Repair notes	
General notes	08
Powercord - removal	09
Powercord - fitting	10
Full dismantle	
Full rebuild	
Parts diagram	
Main body assembly	4
Amp and Filter assemblies	4
Software undates	

How to update the product software......47

Technical information

Electrical safety testing

All repairs should be tested in accordance with applicable safety standards and regulations.

Dyson authorised repairers should also follow TSI 0432.



Ensure at all times during the repair and testing of products that owners, children, animals and yourself are not exposed to any Live electrical supply.

The following MANDATORY tests must be adhered to when carrying out a service activity to a Class 2 product:

1. Visual inspection

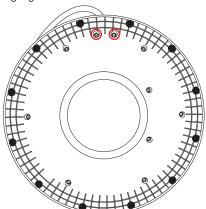
You must ensure that a full visual inspection of the entire product is completed prior to the service activity.

2. Insulation test

An insulation test/s must be performed upon completion of an 'invasive' service activity.

Insulation test points:

Test directly onto the area/s highlighted.



Test results:

A minimum reading of $2M\Omega$ must be achieved.

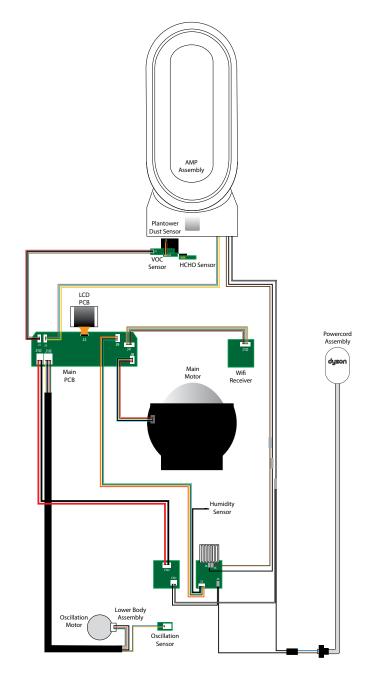
A reading below $2M\Omega$ is not considered safe and further investigation, rectification and testing must be completed before the product is used.

If you are unable to complete the service activity on a product with an insulation test reading below the minimum requirement, you must inform the owner that it is unsafe to use. Inform the owner of the required actions to resolve the issue.

If the product is left unresolved please indicate on the relevant CRM system that the product is electrically unsafe and attach a 'Warning: product electrical unsafe' sticker in a visible location on the product. If the product plug contains a fuse, then the fuse should also be removed before returning to the owner.

Technical infomation

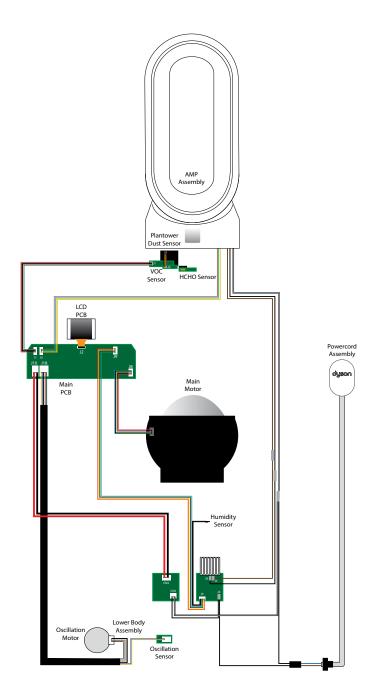
Wiring diagram (models with separate Main Control and Wifi PCBs)

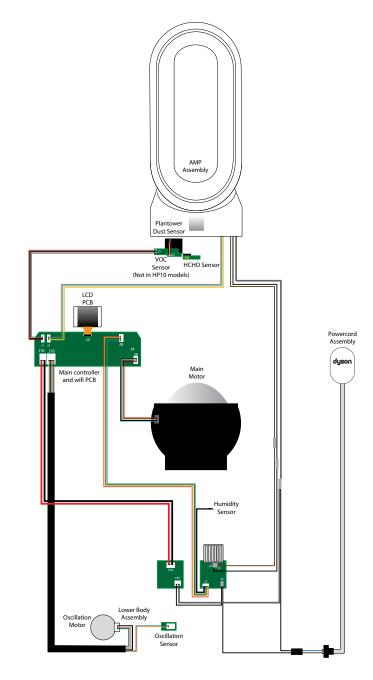


Wiring diagram (models with no Wifi PCB)

Technical infomation

Wiring diagram (models with an integrated Main Control and Wifi PCB)



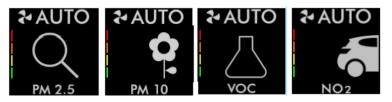


Technical infomation

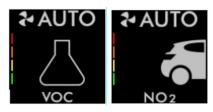
AQ displays during calibration

Prior to carrying out any repairs that are associated to fauly air quality readings, it is important to determine whether the product has a genuine fault or is simply calibrating.

When the product is new, the AQ sensors begin calibrating. This 1 hour process will affect the VOC & NO₂ readings for the entire 1 hour duration.* During this period the product will show PM2.5/PM10 data after a few seconds of turning on. The following screens will be displayed:



After the initial one hour calibration, it will take up to 20 minutes to calibrate the VOC and NO₂ sensors each time a product has been switched off at the wall or unplugged. During this period the following screens will be displayed:*



After each calibration period the screens will now show readings as below:*



05

*Does not apply to HP10

Immediately press the oscillation

button once.

Accessing the diagnostic menu

Diagnostic menu

Built into the products software there is an engineers diagnostic menu designed to enable the repair agent a quick diagnosis of the machines failure.

The menu is accessed by pressing a sequence of buttons via a standard remote control.







Hold down auto button for 11 to 13 seconds.



Press i button to show fault code screen
(the screen above is an example).

Once you have finished accessing the engineering menu, press any button on the remote except the 'i' button to exit the diagnostic menu.

If the engineering screen does not appear press any button to reset and start again. Repeat all steps ensuring the flow mode direction button or auto button (HP10 only) is pressed between 11 and 13 seconds as detailed in steps 3a and 3b.

Technical infomation

Diagnostic table

Faults codes will be displayed as per the following format: 00X-0X-0X-X. In most cases it is only necessary to recognise the first three digits to determine the fault.

Fault code	Affected Part/s
Any codes starting with 002 except 002-02-01-2	Motor and Bucket assembly
002-02-01-2	Lower body service assy or Oscillation motor control harness
Any codes starting with 003	Main PCB assembly
Any codes starting with 004	LCD display service assembly or Main PCB assembly
Any codes starting with 005	Main PCB assembly
Any codes starting with 006	Main PCB assembly
Any codes starting with 007	Power supply unit or Main PCB assembly
Any codes starting with 008 except 008-07-01-2	Sensor PCB service assembly
008-07-01-2	HCHO sensorboard (SCO models only)
Any codes starting with 009 except 009-01-01-1	Wifi harness assembly (not in HP10 models)
009-01-01-1	Motor and Bucket assembly

Further information to the above table, the LCD display may show the screens below to help you diagnose the products fault.

These screens are displayed without having to go into the engineering screen.















- 1. Air Quality (AQ) Sensor fault
- 2. Temp Sensor fault
- 3. Humidity Sensor fault
- 4. AQ Sensor fault
- 5. Wrong Power Supply Unit (PSU) inserted/PSU fault, advise to use the Dyson PSU that came with the machine.

3.

- 6. Fault. Shown permanently if fatal fault. Shown temporarily if limited functionality fault. Will be necessary to access diagnostic menu to determine fault.
- 7. Formaldehyde Sensor fault*

Repair notes

General information

Important: it is not currently possible to rectify a fault associated with the Wifi PCB.*

If the reason for the repair is due to a failure associated with the Wifi PCB, the machine will need to be exchanged.

If this situation changes, a further issue of this manual will be released providing full instructions.

WARNING:

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.





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



Where this symbol is shown, ensure ESD (Electro Static Discharge) protection is used.

80



It is a mandatory requirement that when handling any product during any repair or refurbishment process that the following equipment is worn:

- FPP3 particle filter Face mask
- Safety gloves
- Safety glasses
- Safety shoes







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



All screws used are Torx unless otherwise stated.

Wire colours may vary between territories.

Recommended tools to repair:

Torx T-15 screwdriver (magnetic if possible)

Torx T-10 screwdriver (magnetic if possible)

Torx T-8 screwdriver (magnetic if possible)

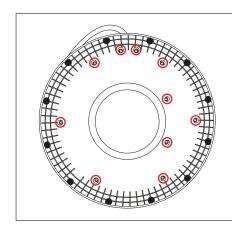
Thin flat bladed screwdriver

Long nosed pliers

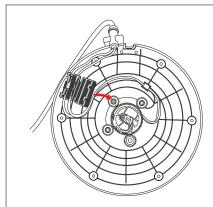
07 *Does not apply to HP10 models *Does not apply to HP10 models

Repair notes Powercord - removal

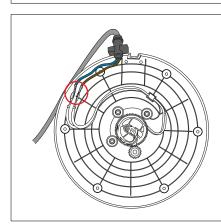
Repair notes Powercord - fitting



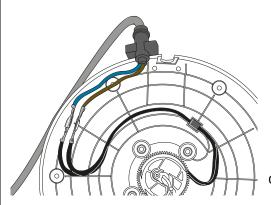
01 Remove the 10 T-10 screws in the base of the product and remove the Baseplate.



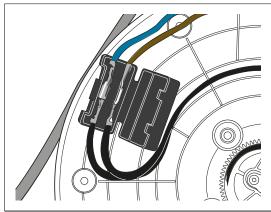
02 Open the Connector insulation block.



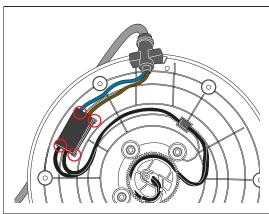
03 Disconnect the Powercord Live and Neutral termminals. Remove the Powercord.



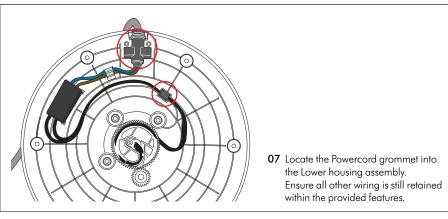
04 Connect the Live and Neutral wires on the new Powercord.

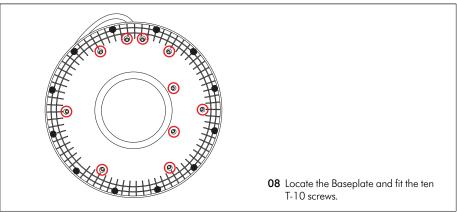


05 Ensure the wires are located correctly within the Connection insulation box.



06 Close the Connection insulation box and locate into the retaining details on the Lower housing assembly.

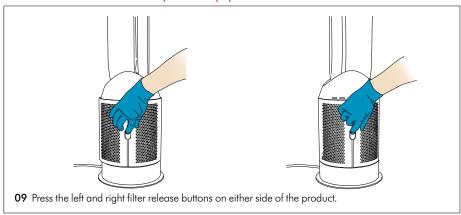


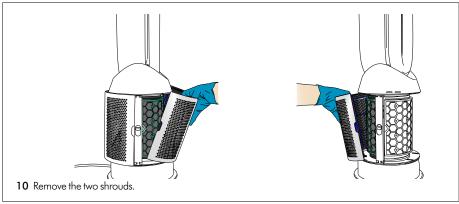


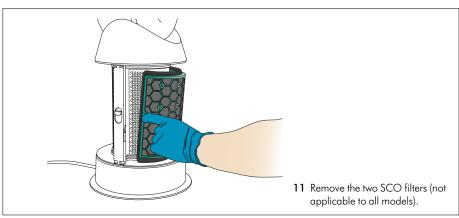
Repair notes Full dismantle

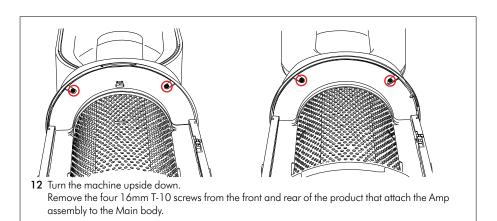
WARNING:

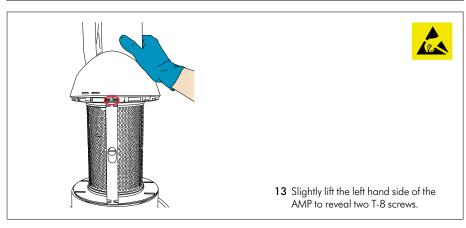
Disconnect the machine from the electrical outlet at all times during repair and test. Failure to do so could result in electric shock or personal injury.

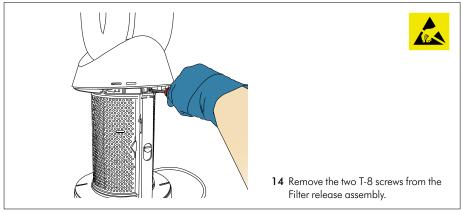


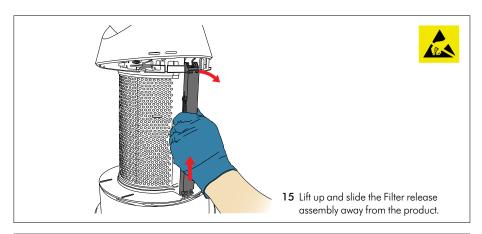


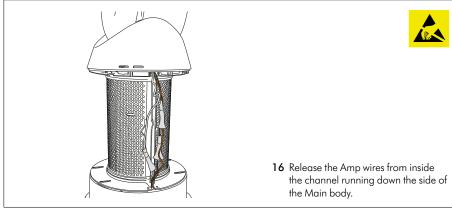


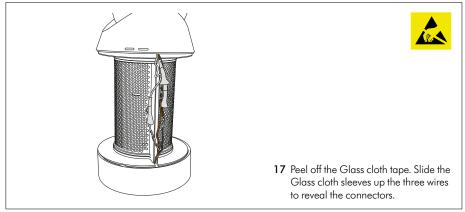


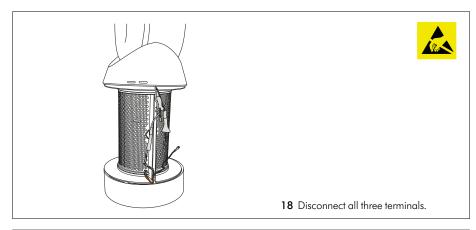


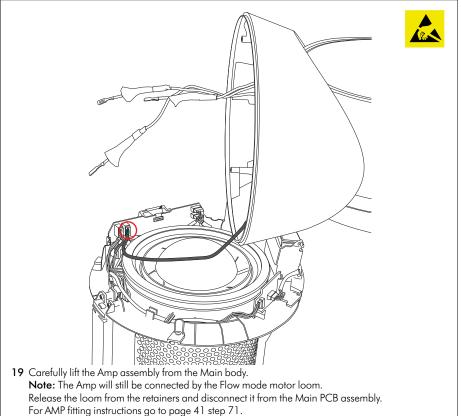


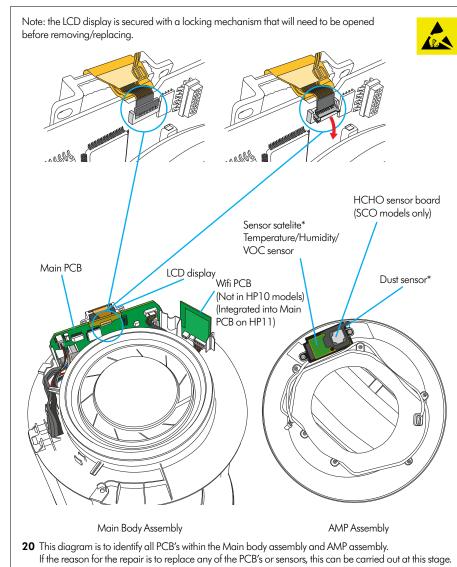










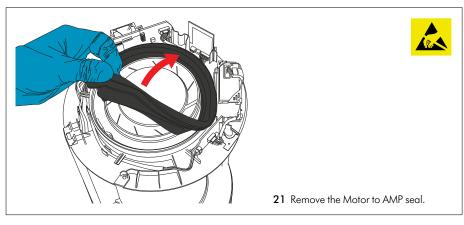


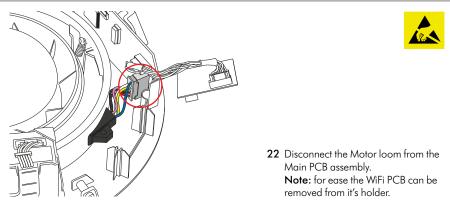
Disconnect the affected PCB or sensor. Fit a new PCB or sensor ensuring the looms are retained as shown in diagram above.

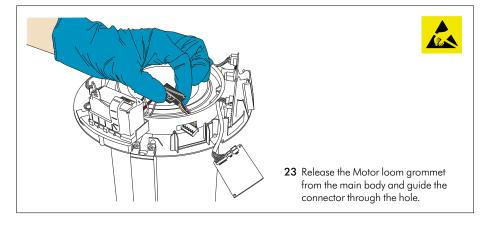
Note: any machines requiring a WiFi PCB replacement cannot be repaired until further notice. The machine will have to be exchanged.

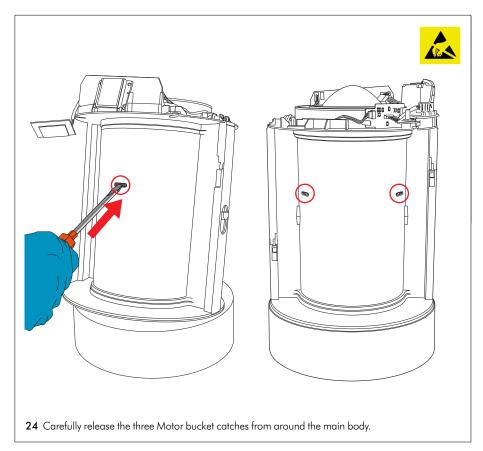
For Amp fitting instructions go page 41 step 71.

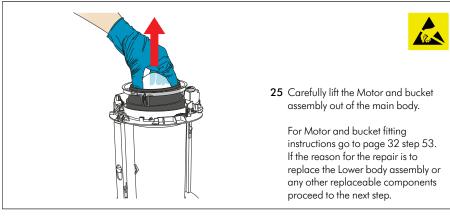
* Offered together as one assembly 'Sensor PCB service assembly'.

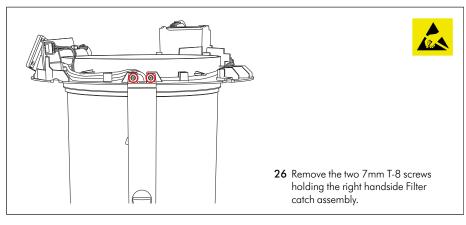


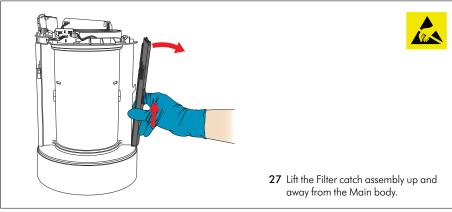


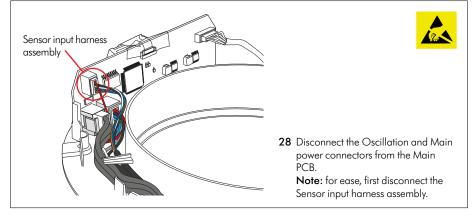


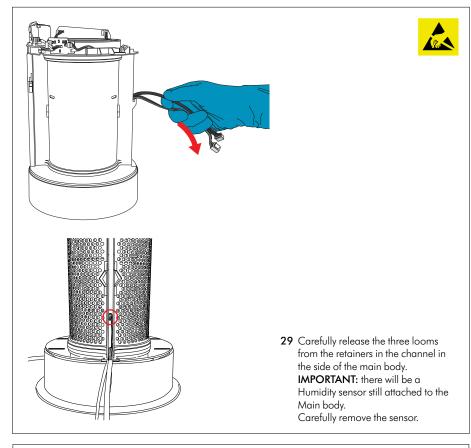


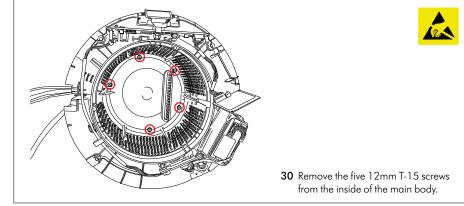


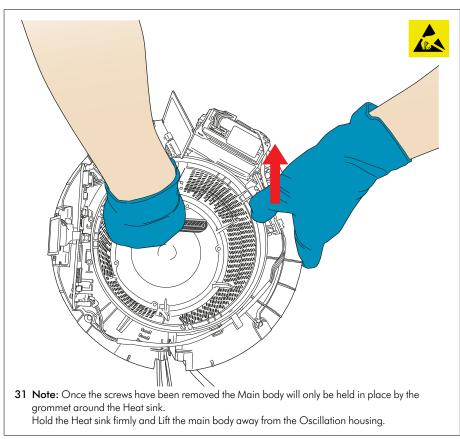


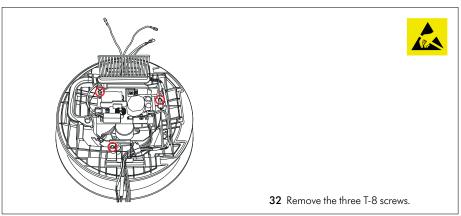


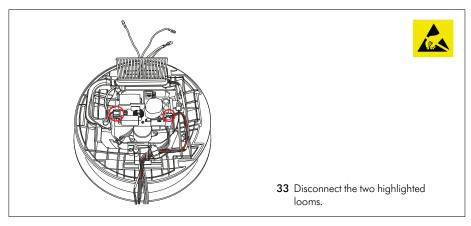


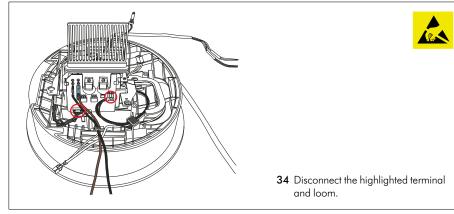


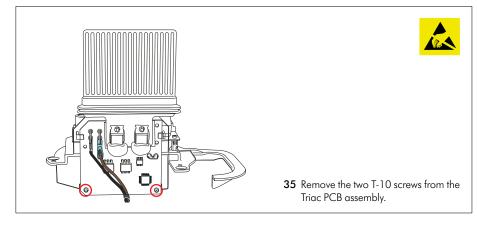


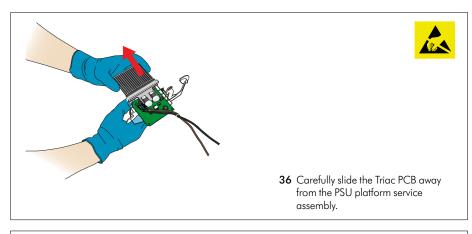


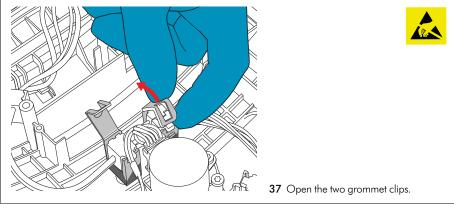


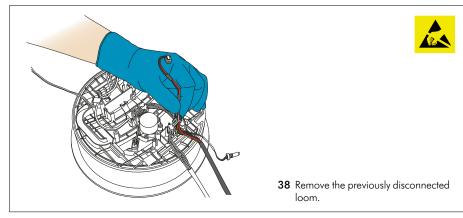


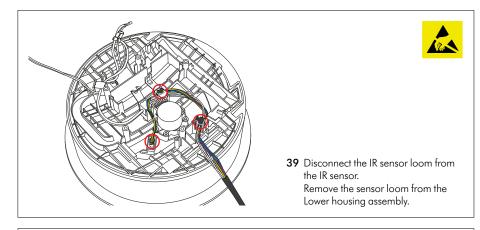


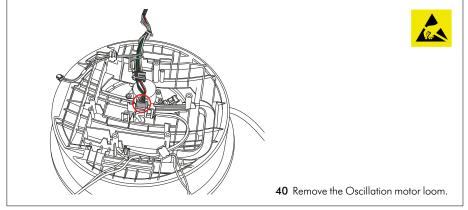








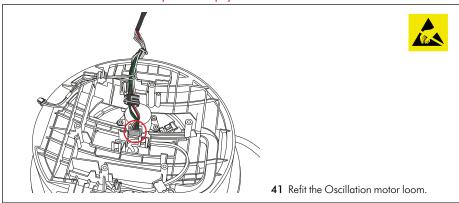


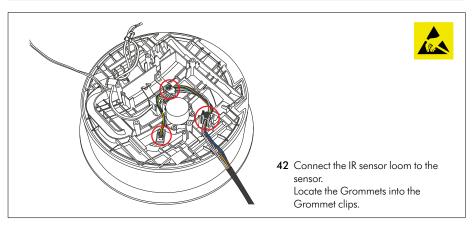


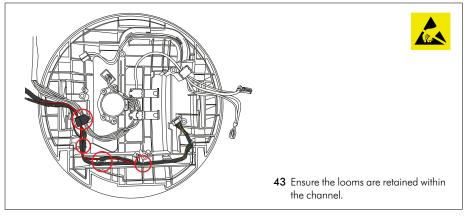
Repair notes Full rebuild

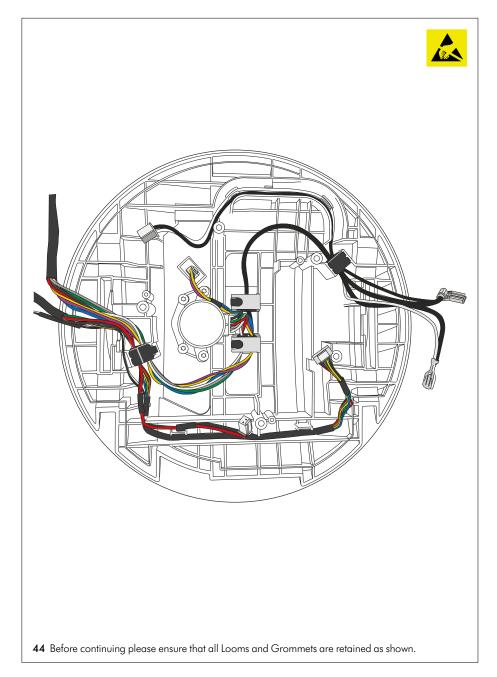
WARNING:

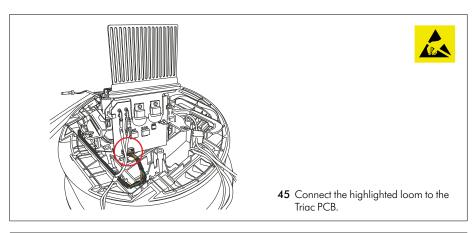
Disconnect the machine from the electrical outlet at all times during repair and test. Failure to do so could result in electric shock or personal injury.

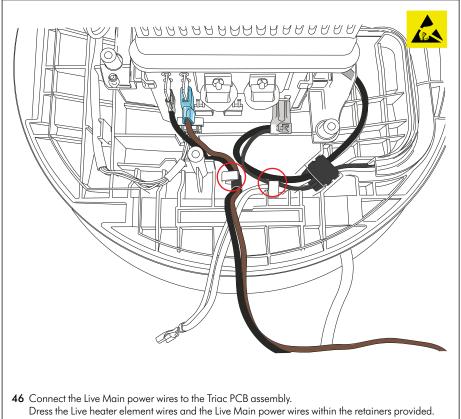


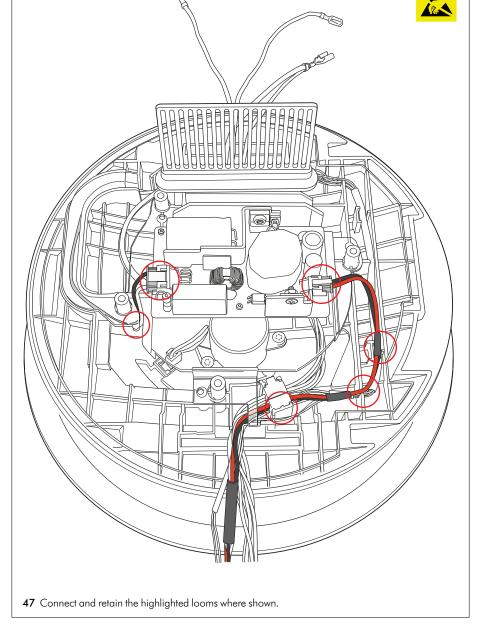


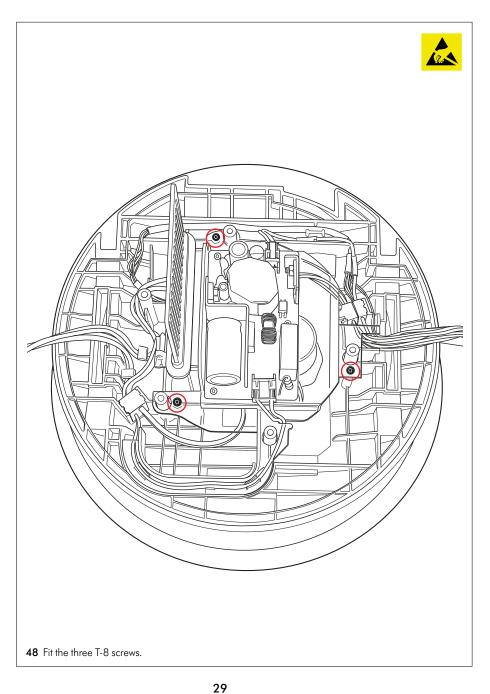


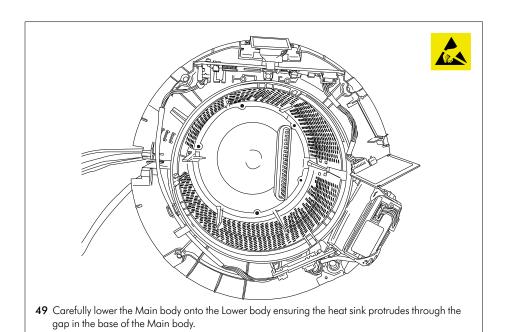


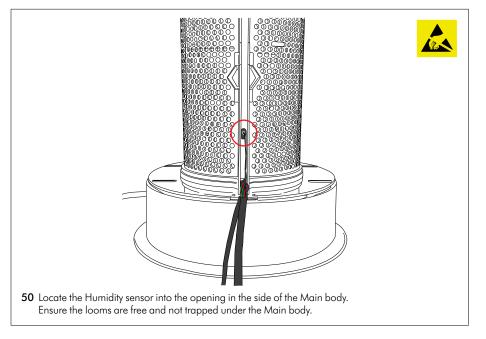


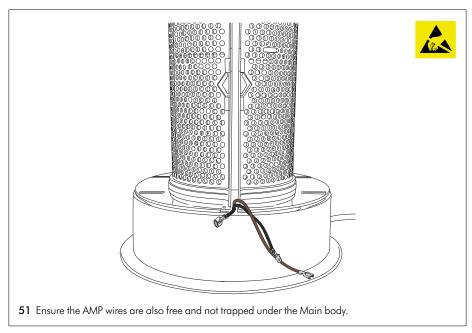


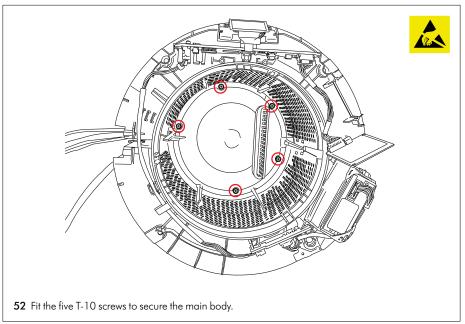


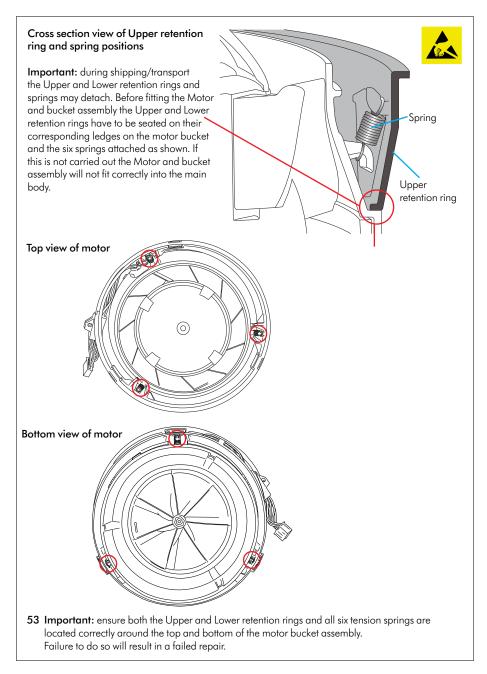


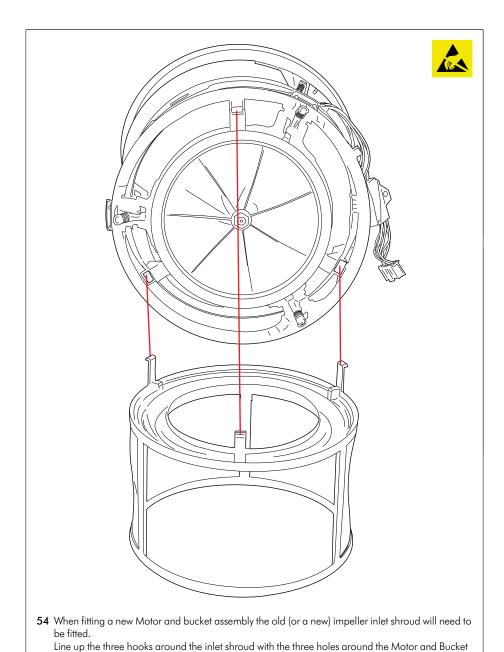




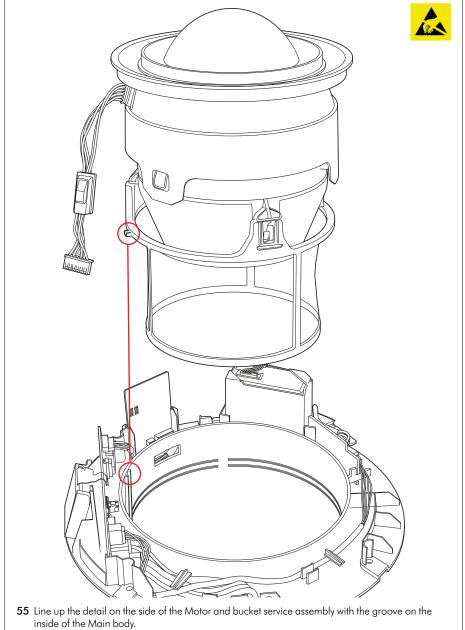


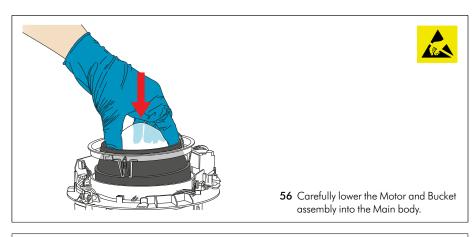


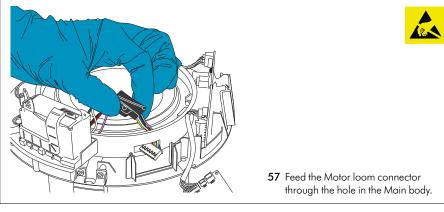


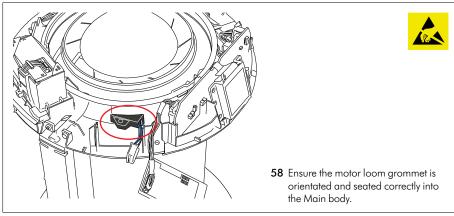


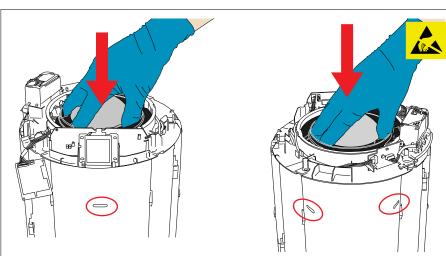
assembly.



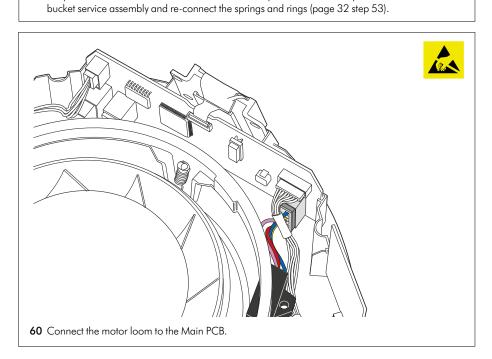


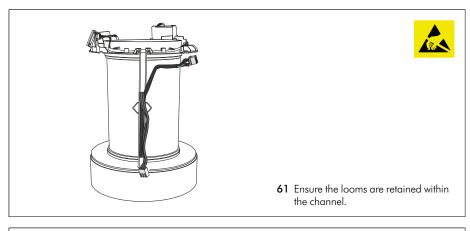


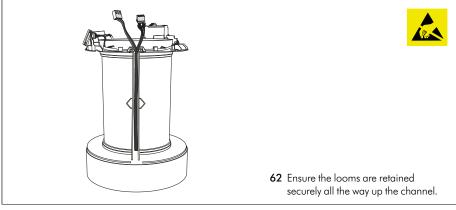


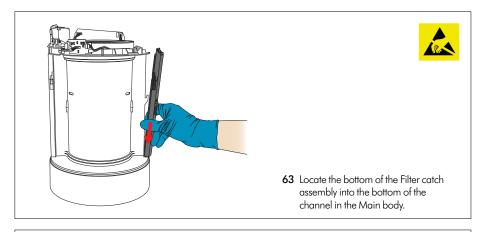


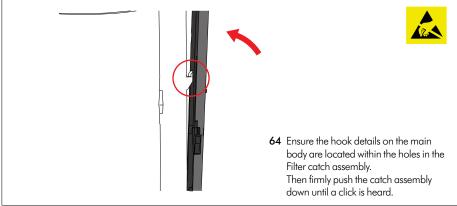
59 Push down firmly on the top of the Motor bucket service assembly until the three catches around the motor bucket have securely clipped into the Main body.
Note: the Tension springs and Upper and Lower retention rings can come disconnected during this process. If this does occur the catches will not clip into the Main body. Remove the motor

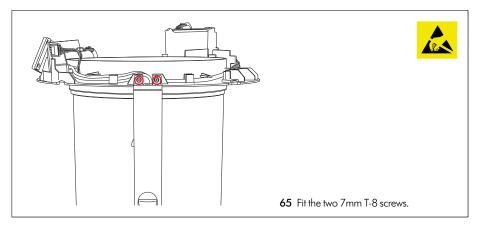


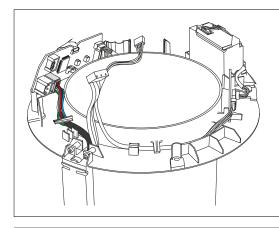






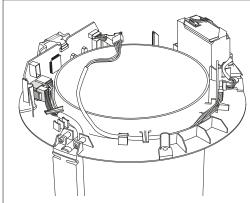






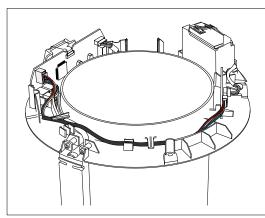


66 Connect and dress the Oscillation Motor control harness to the Main PCB as shown.



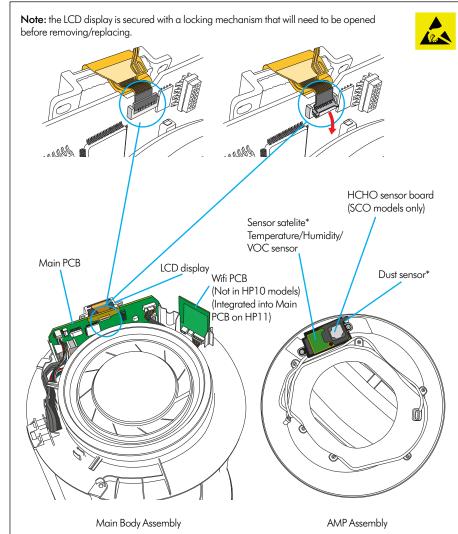


67 Connect and dress the Main power loom to the Main PCB as shown.





68 Connect and dress the VOC and Dust sensor loom to the Main PCB as shown.

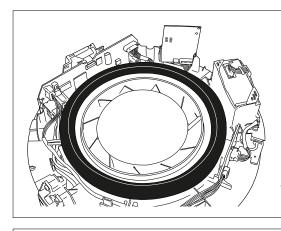


69 This diagram is to identify all PCB's within the Main body assembly and AMP assembly. If the reason for the repair is to replace any of the PCB's or sensors this can be carried out at this stage. Disconnect the affected PCB or sensor. Fit a new PCB or sensor ensuring the looms are retained as shown in diagram above.

Note: any machines requiring a WiFi PCB replacement cannot be repaired until further notice. The machine will have to be exchanged.

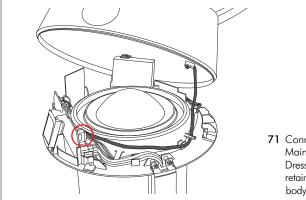
For Amp fitting instructions go page 41 step 71.

* Offered together as one assembly 'Sensor PCB service assembly'.



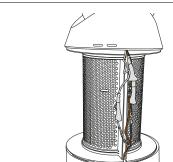


70 Fit the Motor to Amp seal, ensuring it is seated correctly around the Motor.





71 Connect the Flow motor loom to the Main PCB.
Dress the Flow motor loom into the retainer provided around the Main body.



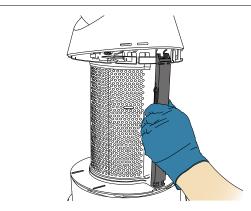




72 Connect the AMP element wires to the corresponding wires.

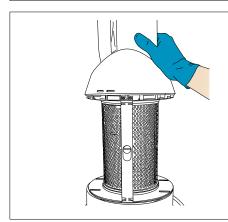
Cover the terminals with the glass cloth sleeve and fix with the glass cloth tape.

Dress the wires and terminals neatly into the channel.



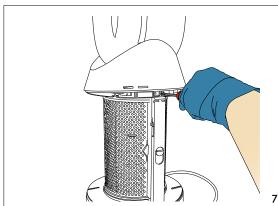


73 Locate the bottom of the Filter catch assembly into the bottom of the channel in the Main body.



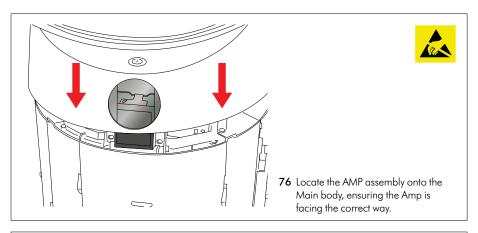


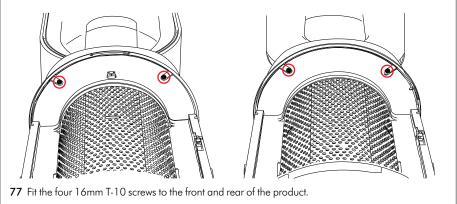
74 Slightly lift the AMP assembly to reveal the two screw bosses.

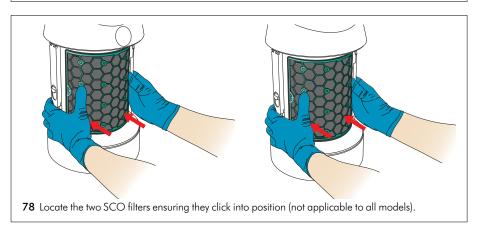


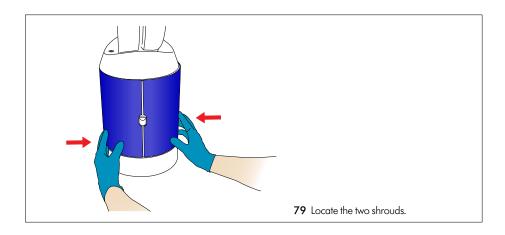


75 Fit the two 7mm T-8 screws.

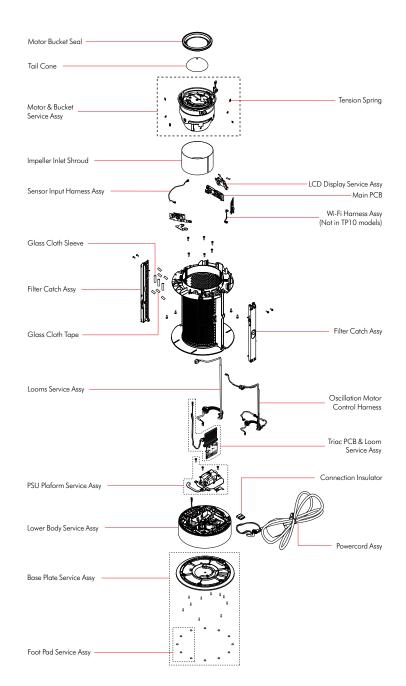


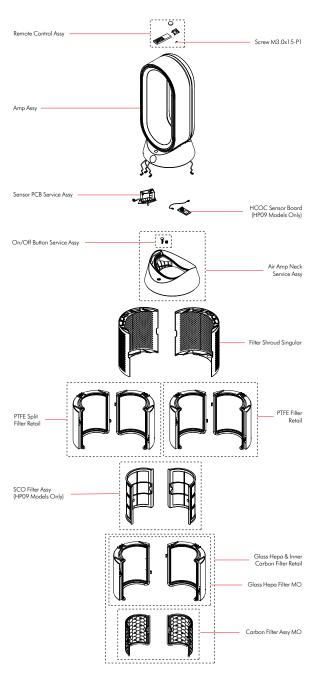






Parts diagram Amp and Filter assemblies





Software updates

How to update the product software

Any necessary product software updates should be facilitated via the MyDyson™ app. The app can be downloaded via the App store or Google Play.

Open the app and follow the on-screen instructions to create a new account, pair the machine and select your Wifi network.



IMPORTANT:

When asked 'Are you this machine's new owner', tap on 'No, I'm just using It'.

DO NOT tap on 'Yes, I own this machine', as this will remove the ownership from the customer, delete the customer's settings and return the product to it's Out-Of-Box (OOB) settings.

Tap on the Settings icon on the top right of the screen.

Tap on 'Your machine's settings'. Scroll down to the Software section. Turn on the 'Auto-update software' button.

If the current software version is outdated, the product will automatically download the latest software version from the cloud

Once any updates are completed, tap on 'Remove machine' to delink the product from your mobile device.