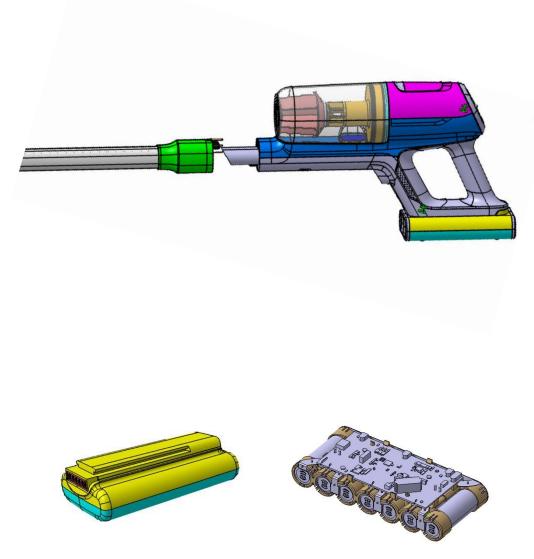
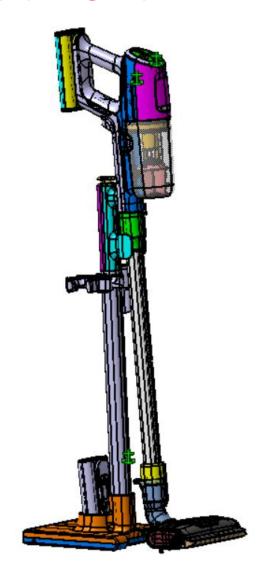
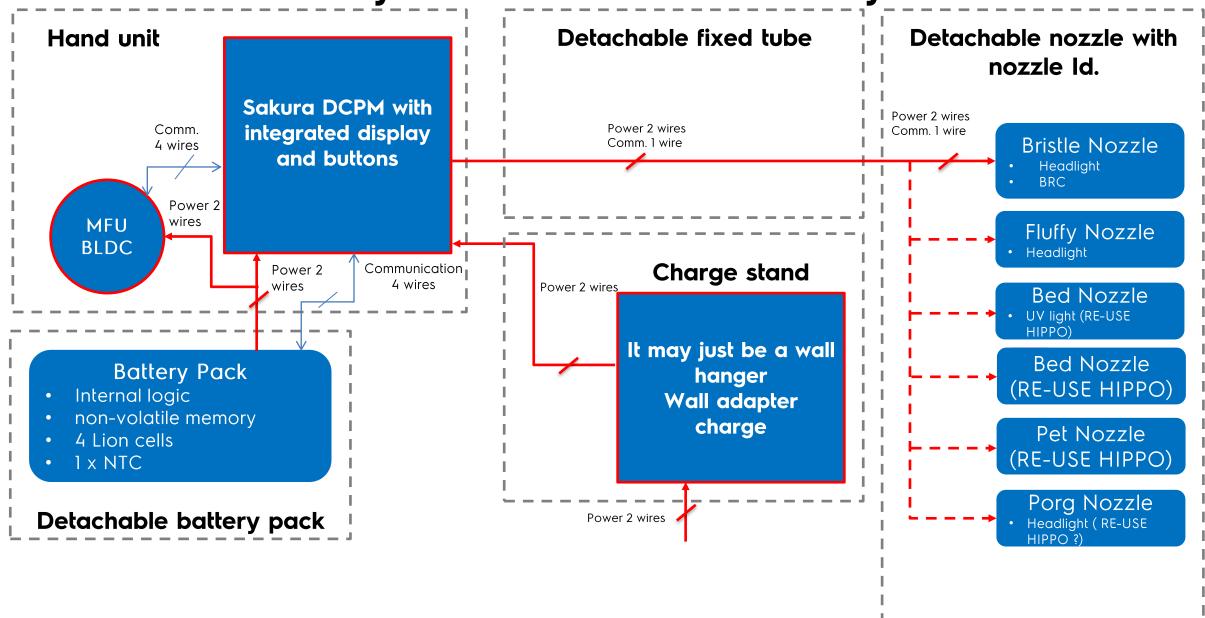
# System Architecture Description (SAD) Sakura



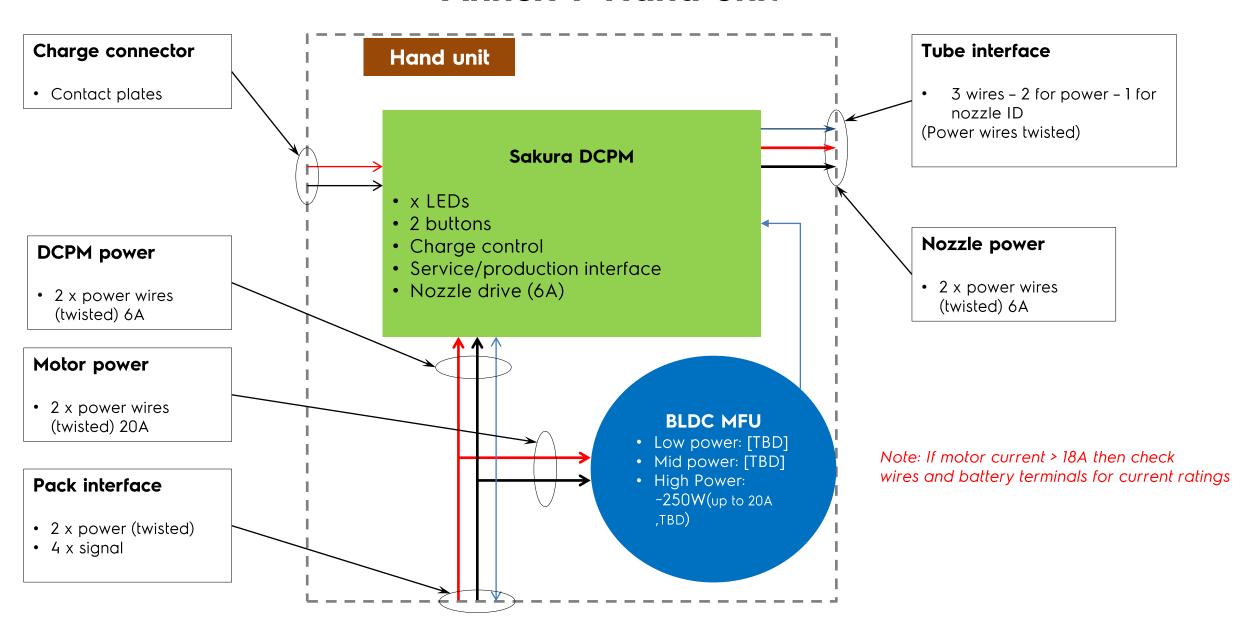




**System Architecture summary** 



## **Annex 1: Hand unit**

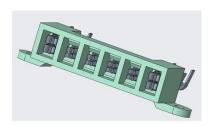


## **Annex 2: Battery pack**

#### **Battery pack connector**

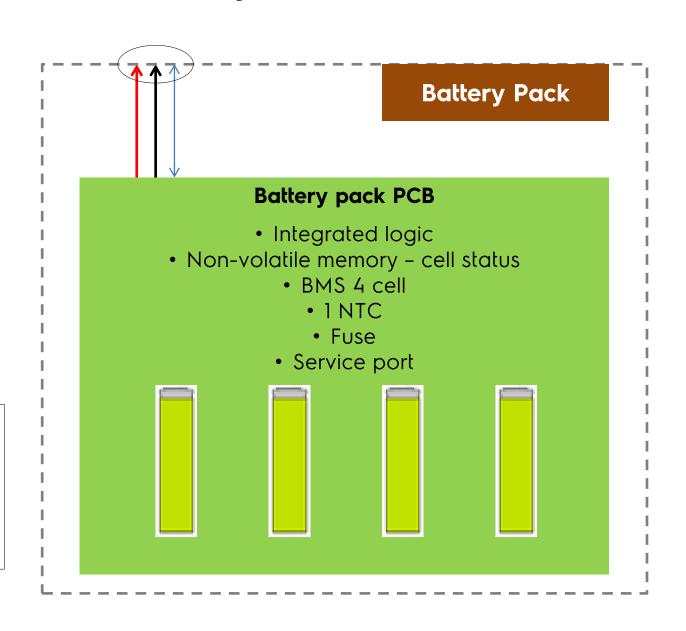
• 2 x power: <25A

• 4 x signal:

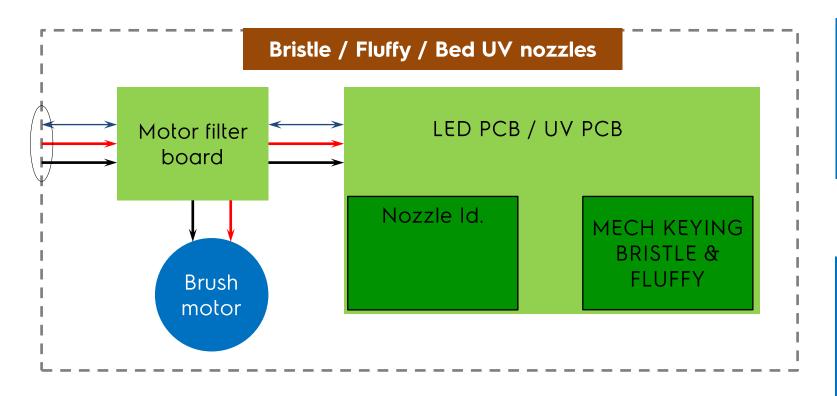


### Battery cell setup (All Li-Ion 3.6V)

Cell type	Capacity	Size
Murata VTC5A	2.5 Ah	18650
Murata VTC6AM	4 Ah	21700



## **Annex 3a: Nozzles**



No LED PCB on Bed.

#### Bed UV

The nozzle ID will be integrated to the UV PCB in Bed nozzle

Pet nozzle without UV will have a separate ID board (see next page)

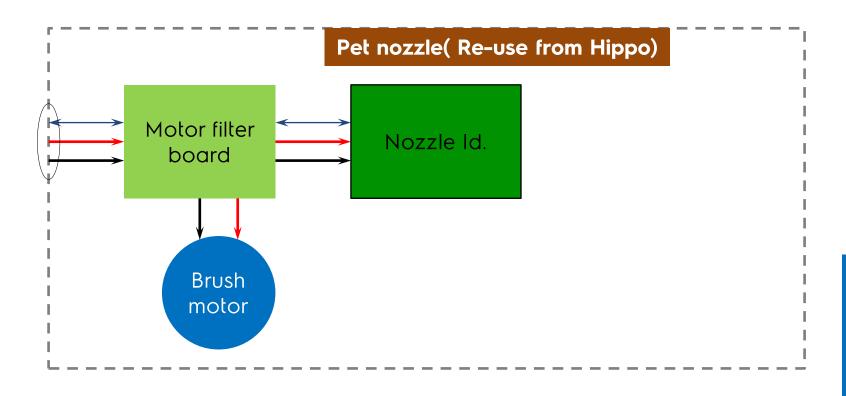
#### Nozzle Id

#### Current generator

Bristle 8 mA (to be finetuned)
Fluffy 6 mA (to be finetuned)
Bed 4 mA (to be finetuned)
Pet 4 mA (to be finetuned)
Porg 2 mA (to be finetuned)

Reserved 1 mA

## **Annex 3b: Pet nozzle**



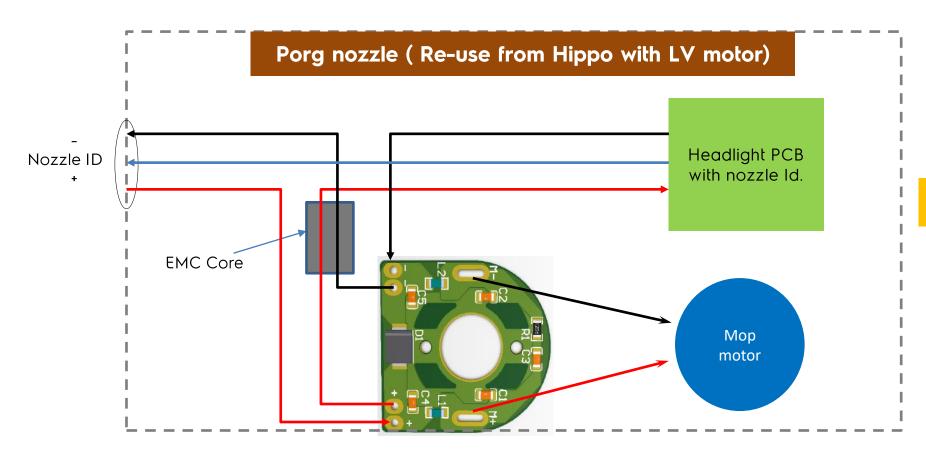
#### Nozzle Id

## Current generator

Bristle 8 mA (to be finetuned)
Fluffy 6 mA (to be finetuned)
Bed 4 mA (to be finetuned)
Pet 4 mA (to be finetuned)
Porg 2 mA (to be finetuned)

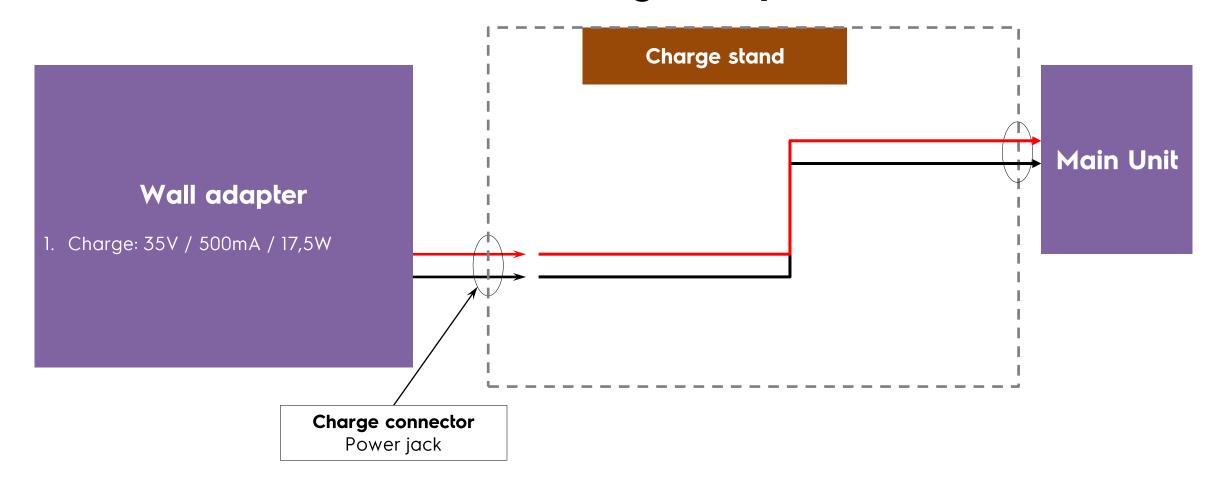
Reserved 1 mA

# **Annex 3c: Porg nozzle**



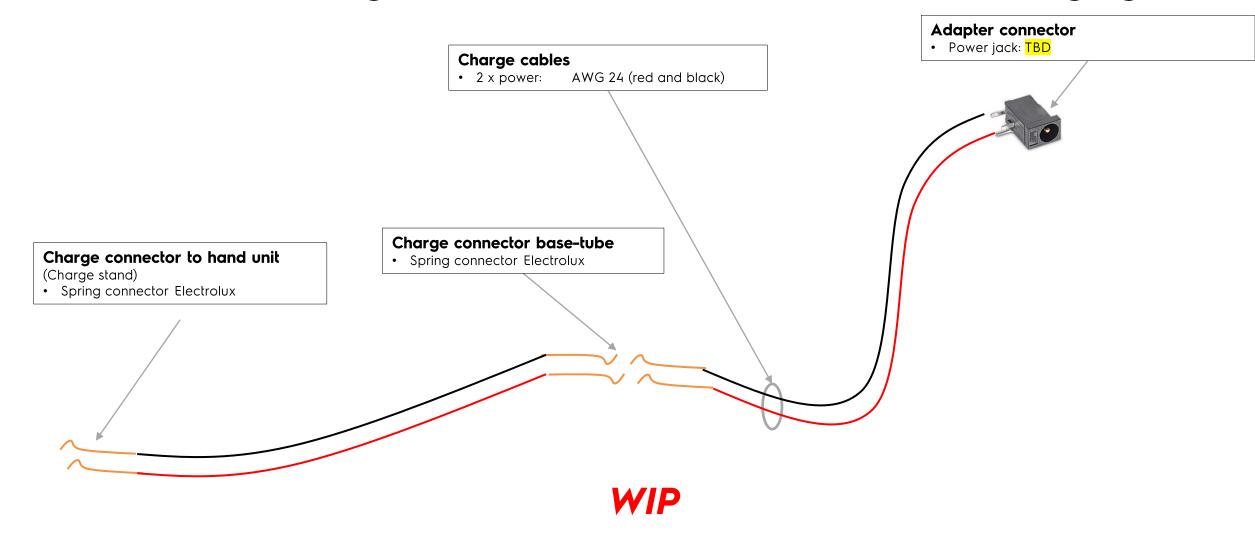
If main unit sense Porg nozzle it switch off the suction (fan motor)

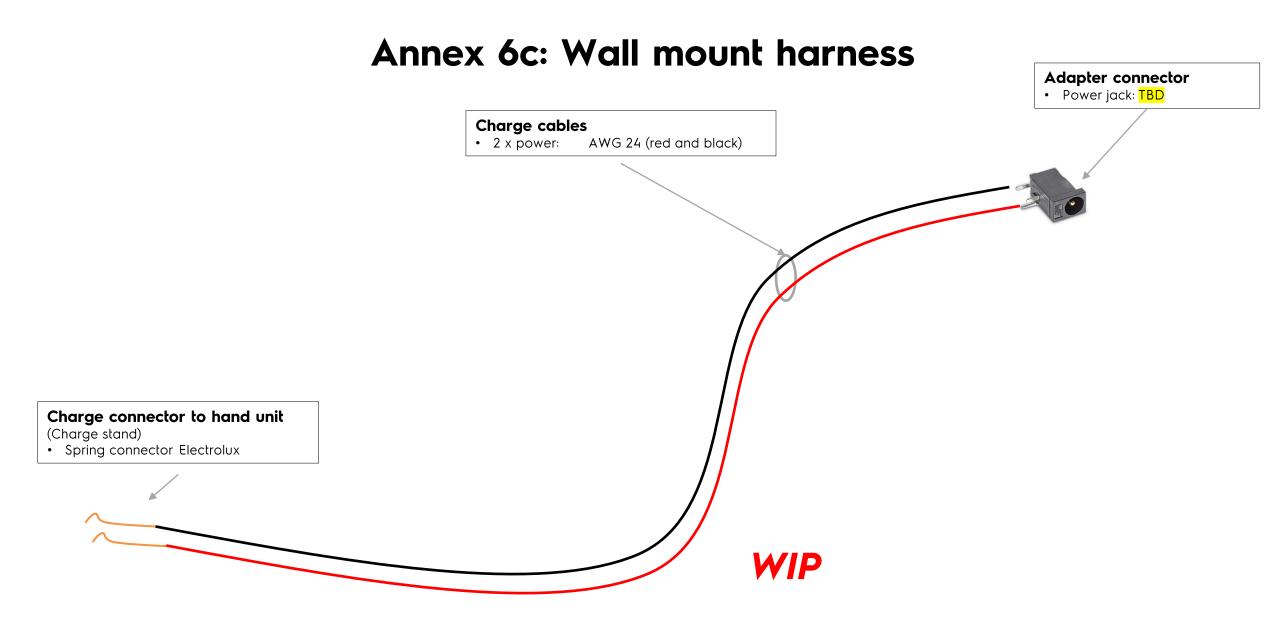
# **Annex 4: Charge adapter**



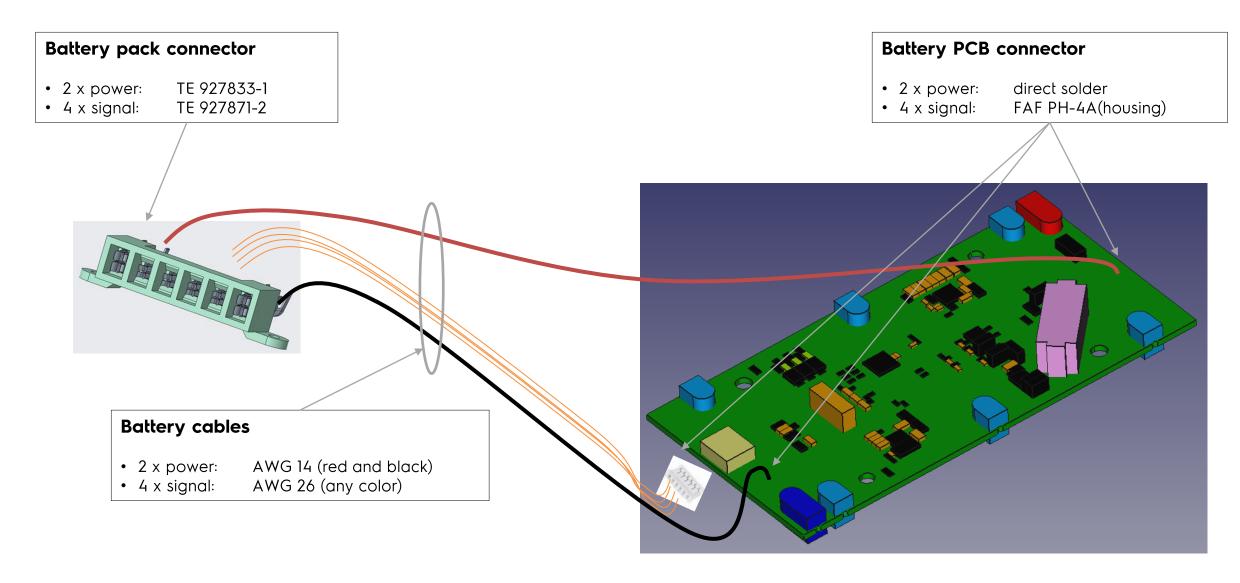
**Annex 5: Hand unit harness Battery/MFU/DCPM** connector DCPM to charge connector DCPM to BLDC motor connector Charge cables Nylon closed end wire (8 or 6mm) • 2 x power: *A1257WV-S-2P(housing)* • 2 x power: • 4 x signal: Hongyi A1254LF-04A(blue • 2 x power: AWG 26 (red and black) housing) Charge connector Motor cables • Spring connector Electrolux AWG 16 (red and black) • 2 x power: AWG 24 (any color) • 4 x signal: Motor connector • 2 x power: Soldered by CDS **Battery pack cables** • 4 x signal: GH1.25-4Y (housing) AWG 14 (red and black) • 2 x power: GH1.25-Te • 4 x signal: AWG 26 (any color) MFU **BLDC** DCPM to battery signal connector 4 x signal Hongyi A1254LF-04A(housing) **DCPM** power cables AWG 20 (red and black) • 2 x power: DCPM power/nozzle connector • 2 x power: • 2 x power + 1 x signal TE 2132781-5(housing) Nozzle connector (Same Nozzle cables **Battery pack connector** as Hippo) • 2 x power: AWG 20 (red and black) • 2 x power: TE 964306-1 2 x power: TBD TE 5-963860-1 AWG 22 (any color) • 4 x signal: • 1 x signal: 1 x signal: TBD Classified as Internal

# Annex 6b: Charge stand harness (w/o extra pack charging)

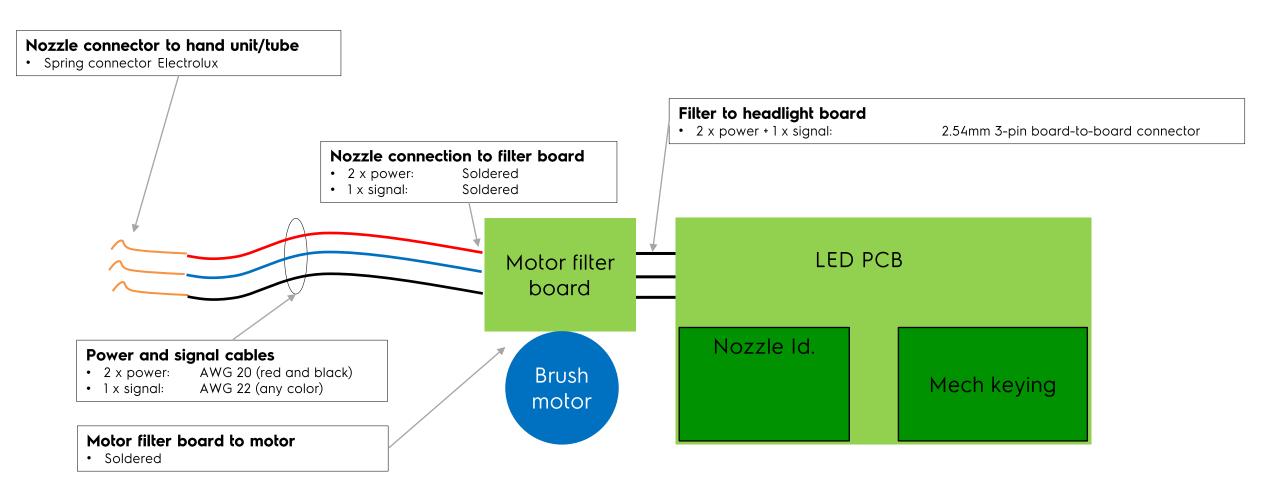




# **Annex 7: Battery pack cable harness**

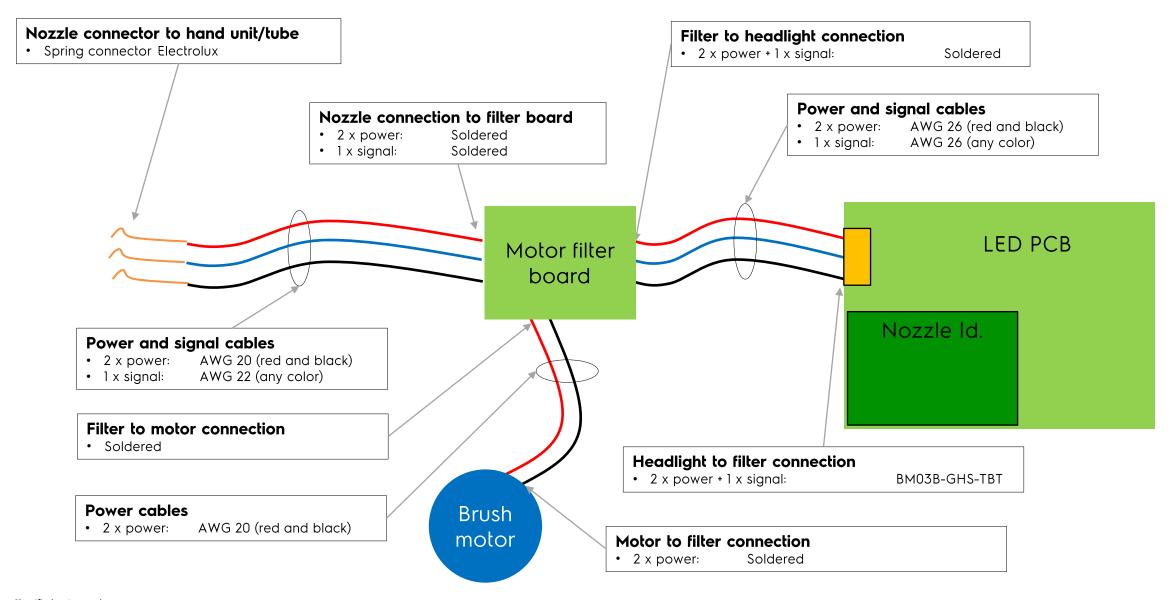


## **Annex 8: Bristle nozzle harness**

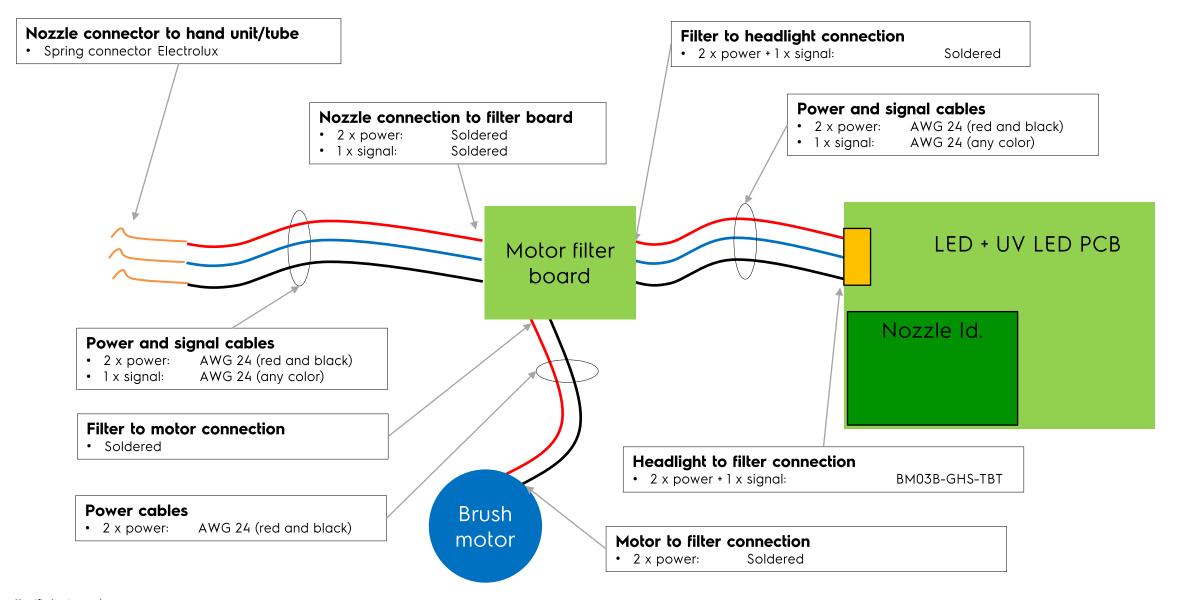


Note: Check if bristle connector can handle 6A.

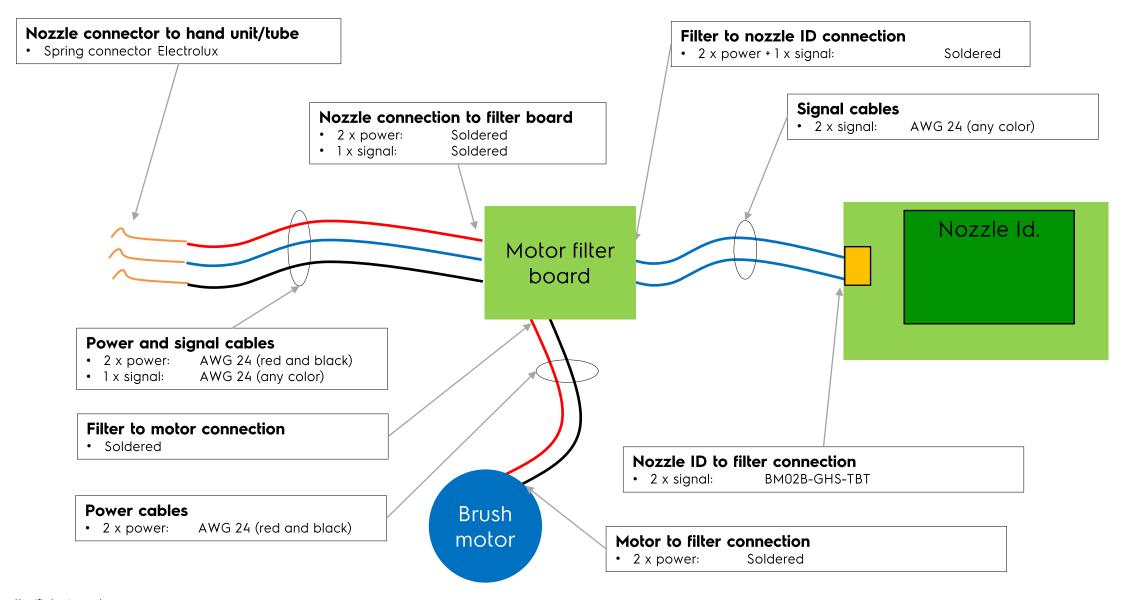
# **Annex 9: Fluffy nozzle harness**



## Annex 10: Bed w/ UV nozzle harness



# Annex 11: Bed w/o UV & Pet nozzle harness



## **Annex 12: Adapter**

Supplier: KTek

Model: KSC-18W-350050

Ratings:

• Input 100-240VAC @ 50/60Hz

• Output 35VDC

500mA

17.5W