



Electrolux

SERVICE MANUAL

Wellbeing

Document Revisions

Rev.	Date	Description	Author
00	09/2020	Document creation	WAREERAT LERCHAKITTI KUL

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Ownership Solutions, BA APAC & MEA
Technical Document

AIR PURIFIER WITHOUT WIFI

AIR PURIFIER (KORBU)



EN

Publication number
599 84 1021 Rev. 00
Edition: 10/2020 - Rev. 00

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1 PURPOSE OF THIS MANUAL

The purpose of this Service Manual is to provide Service Engineers who are already familiar with the repair procedures with information regarding: **Appliances**

fitted with **Air Purifier**.

The manual deals with the following topics:

- Specification
- Dismantal Product Guideline
- User Interface
- Guide to diagnostics/Troubleshooting
- Wiring Diagram
- Definition of Terms, Acronyms and abbreviations

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2 SAFETY



- All the work to be performed inside the appliance requires specific skills and knowledge and may only be carried out by qualified and authorised Service Engineers
- Before you access internal components, take the plug out of the socket to disconnect the power supply.
- Some of the components in the mechanical part could cause injuries, so wear suitable protection and proceed with caution.

3 SPECIFICATION

3.1 Specification

Model denomination	FA31-202GY	FA41-402GY	FA31-202GY	FA41-402GY	FA31-202GY	FA41-402GY	FA31-202GY
Family name	Flow A3	Flow A4	Flow A3	Flow A4	Flow A3	Flow A4	Flow A3
Platform name (internal)	Korbu	Korbu	Korbu	Korbu	Korbu	Korbu	Korbu
PNC	956,004,820	956,004,821	956,004,835	956,004,836	956,004,849	956,004,850	956,004,860
EAN code	7332543744206	7332543744213	9316561065398	9316561065404	7332543753802	7332543753819	TBC
Brand	Electrolux	Electrolux	Electrolux	Electrolux	Electrolux	Electrolux	Electrolux
Commercial Launch countries	TH,Indonesia	TH,Indonesia	TW	TW	MY/SG/HK/UAE/Kuwait/Bahrain/Qatar	MY/SG/HK/UAE/Kuwait/Bahrain/Qatar	JP
Product image							
Voltage (V)	220	220	110	110	220	220	110
Frequency (Hz)	50/60	50/60	60	60	50/60	50/60	60
Rated Power Consumption at max level (W)	20	45	-	-	20	45	-
Power Consumption Range (W)	3.5 - 20	4 - 45	-	-	3.5 - 20	4 - 45	-
Power consumption (W) - Speed 1	-	-	-	-	-	-	-
Power consumption (W) - Speed 2	-	-	-	-	-	-	-
Power consumption (W) - Speed 3	-	-	-	-	-	-	-
Power consumption (W) - Speed 4	-	-	-	-	-	-	-
Power cord length, m	2	2	2	2	2	2	2
Plug type	-	-	-	-	-	-	-
Net weight, kg	2.7 kg	6.4 kg	2.7 kg	6.4 kg	2.7 kg	6.4 kg	2.7 kg
PERFORMANCE							
Max Area Served, m2 (AHAM, US)	-	-	-	-	-	-	-
Max Area Served, m2 (GBT, CN)	23	48	23	48	23	48	23
Max Area Served, m2 (CA, KR)	-	-	-	-	-	-	-
Max Area Served, m2 (Boverket, SE)	-	-	-	-	-	-	-
Max Area Served, m2 (JEM1467, JP)	26	53	26	53	26	53	26
CADR, Smoke Max (AHAM), m3/h	-	-	-	-	-	-	-
CADR, Particle (Dust) Max (AHAM), m3/h	-	-	-	-	-	-	-
CADR, Pollen Max (AHAM), m3/h	-	-	-	-	-	-	-
CADR, Smoke Max (GBT), m3/h	192	404	192	404	192	404	192
CADR, Smoke (Odour) Max (JEM1467), m3/h	203	415	203	415	203	415	203
CCM Particulate	P1	P4	P1	P4	P1	P4	P1
TVOC removal Efficiency - Filter Standalone	94%	96%	94%	96%	94%	96%	94%
Anti-bacterial Efficiency - Filter RAW Material	99.99%	99.99%	99.99%	99.99%	99.99%	99.99%	99.99%
Particle Removal Efficiency (0.3um) - Filter Raw Material	99.98%	99.98%	99.98%	99.98%	99.98%	99.98%	99.98%
Particle Removal Efficiency (2.5um) - Filter Raw Material	99.99%	99.99%	99.99%	99.99%	99.99%	99.99%	99.99%
Endorsements (e.g. NAA, ECARF, BAF)							
Fan speeds	3	9	3	9	3	9	3
Max. Noise Pressure, dB(A) [1m top] - Speed Lowest	-	-	-	-	-	-	-
Max. Noise Pressure, dB(A) [1m top] - Speed Highest	-	-	-	-	-	-	-
Max. Noise Pressure, dB(A) [1m top] - Sleep Mode	-	-	-	-	-	-	-
Max. Noise Pressure, dB(A) [1m front] - Speed Lowest	32	19	32	19	32	19	32
Max. Noise Pressure, dB(A) [1m front] - Speed Highest	48	52	48	52	48	52	48
Max. Noise Pressure, dB(A) [1m front] - Sleep Mode	26	19	26	19	26	19	26
Max. Noise Pressure, dB(A) [2m front] - Speed Lowest	-	-	-	-	-	-	-
Max. Noise Pressure, dB(A) [2m front] - Speed Highest	-	-	-	-	-	-	-
Max. Noise Pressure, dB(A) [2m front] - Sleep Mode	-	-	-	-	-	-	-
Max Noise Power, dB(A) - Speed Lowest	43	30	43	30	43	30	43
Max Noise Power, dB(A) - Speed Highest	59	63	59	63	59	63	59
Max Noise Power, dB(A) - Sleep Mode	37	30	37	30	37	30	37
Max Air Flow, m3/h - Speed Lowest	-	-	-	-	-	-	-
Max Air Flow, m3/h - Speed Highest	-	-	-	-	-	-	-
Max Air Flow, m3/h - Sleep Mode	-	-	-	-	-	-	-
Fan RPM - Speed Lowest	1200	500	TBC	500	1200	500	TBC
Fan RPM - Speed Highest	2300	1900	2300	1900	2300	1900	2300
Fan RPM - Sleep Mode	800	500	800	500	800	500	800
Motor Type	BLDC	BLDC	BLDC	BLDC	BLDC	BLDC	BLDC
MODES & FEATURES							
Real-time IAQ Indicator	Yes, Light Ring	Yes, Light Ring	Yes, Light Ring	Yes, Light Ring	Yes, Light Ring	Yes, Light Ring	Yes, Light Ring
IAQ Indicator Colors	4 - Blue, Green, Orange, Red	4 - Blue, Green, Orange, Red	4 - Blue, Green, Orange, Red	4 - Blue, Green, Orange, Red	4 - Blue, Green, Orange, Red	4 - Blue, Green, Orange, Red	4 - Blue, Green, Orange, Red
SMART/AUTO Mode	Yes, AUTO	Yes, AUTO	Yes, AUTO	Yes, AUTO	Yes, AUTO	Yes, AUTO	Yes, AUTO
SLEEP Mode	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Timer OR Scheduler LED & Button	No	No	No	No	No	No	No
Filter Indicator LED & Button	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Child Lock LED & Button	No	Yes	No	Yes	No	Yes	No
"Real-time" IAQ Measurement (Quantified)	No	Yes	No	Yes	No	Yes	No
"Real-time" OAQ Measurement (Quantified)	No	No	No	No	No	No	No
IAQ Historical Measurement (Quantified)	No	No	No	No	No	No	No
SENSORS & CONTROL							
Remote Control	No	No	No	No	No	No	No
WiFi Connectivity	No	No	No	No	No	No	No
Light Sensor	No	No	No	No	No	No	No
PM Sensor (Laser - PM 1, 2.5 and 10)	Yes	Yes	Yes	Yes	Yes	Yes	Yes
PM Sensor (IR)	No	No	No	No	No	No	No
TVOC Sensor	No	No	No	No	No	No	No
RFID Tag & Sensor (For Filter)	No	No	No	No	No	No	No
Temperature Sensor	No	No	No	No	No	No	No
Humidity Sensor	No	No	No	No	No	No	No
FILTRATION							
Stages of filtration - Out of box	3 (Pre, Anti-bacterial HEPA, Activated Carbon)	3 (Pre, Anti-bacterial HEPA, Activated Carbon)	3 (Pre, Anti-bacterial HEPA, Activated Carbon)	3 (Pre, Anti-bacterial HEPA, Activated Carbon)	3 (Pre, Anti-bacterial HEPA, Activated Carbon)	3 (Pre, Anti-bacterial HEPA, Activated Carbon)	3 (Pre, Anti-bacterial HEPA, Activated Carbon)
Included filter, description	H13, Low Cost Activated Carbon	H13, Low Cost Activated Carbon	H13, Low Cost Activated Carbon	H13, Low Cost Activated Carbon	H13, Low Cost Activated Carbon	H13, Low Cost Activated Carbon	H13, Low Cost Activated Carbon
Included filter, dimension, (HxWxD), mm	180 X 185 X 185	257 X 237 X 237	180 X 185 X 185	257 X 237 X 237	180 X 185 X 185	257 X 237 X 237	180 X 185 X 185
Filter Access	From bottom of the unit	From bottom of the unit	From bottom of the unit	From bottom of the unit	From bottom of the unit	From bottom of the unit	From bottom of the unit
Ionizer	No	No	No	No	No	No	No
C&A							
Filter accessories, model denominations	-	-	-	-	-	-	-
Feet accessories	No	No	No	No	No	No	No

4 DISMANTAL PRODUCT AND REPLACEMENT GUIDELINE

4.1 Replacement Lampstand & Replace Foot Pads

Family: FlowA3



Invert the machine;
rotate the lampstand
counter clockwise, take off

Remove foot pad with tools

Install the new foot pad to
lampstand



Otherwise, install the new
lampstand

Replace with a new
lampstand with foot pads

Family: Flow A4



Invert the machine;
rotate the lampstand
counter clockwise and
take off

Remove 3 screws with
tools

Remove the
lampstand



Remove 3 screws with
tools



Invert the machine
rotate the lampstand
counter clockwise

Remove the rotating base

Remove the foot bad

4.2 Repair and Replace PCB

FLOWA3



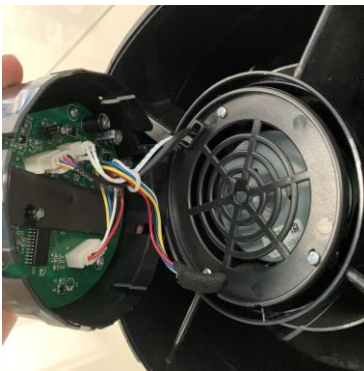
Invert the machine
rotate the lampstand
counter clockwise;
take off



Remove 4 screws with tools



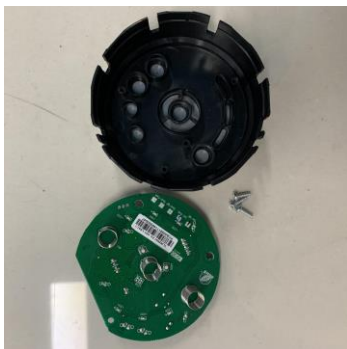
Take out air duct
components



Remove the PCB bracket
and pull out the power
strip



Use a tool to remove 3
screws and remove the
black EVA foam



Remove the PCB control
board and replace it

Otherwise, assemble the
PCB to the whole
machine

FLOWA4



Invert the machine
rotate the lampstand
counter clockwise



Remove 3 screws with
tools



Take off the lampstand
and remove 3 screws
with tools



Press the buckles on
both sides and lift the
sensor box up



Pull out the top touch
module to one side and
upwards



Disconnect the main control
board cable and remove the
touch panel module



Remove the main control
board and replace

Otherwise, install the main
control board back to the
whole machine

4.3 UI Panel replacement

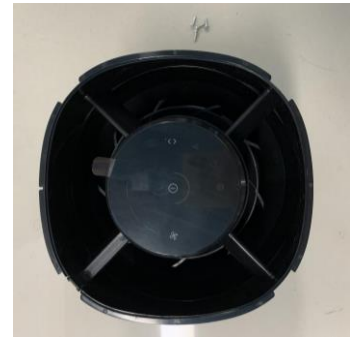
FlowA3



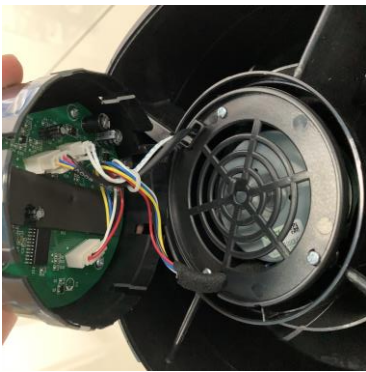
Invert the machine;
rotate the lampstand
counter clockwise, take off



Remove 4 screws with tools



Take out air duct
components



Remove the PCB bracket
and pull out the power
strip



Remove the old UI panel
with tools



Remove the
adhesive sticker



Otherwise, put the PCB bracket back into the air duct components
into the body, and paste the new UI panel

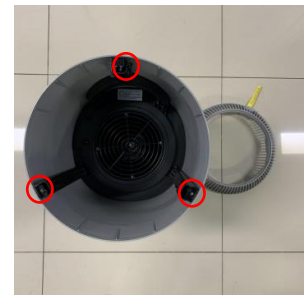
FlowA4



Invert the machine
rotate the lampstand
counter clockwise



Remove 3 screws with
tools



Take off the lampstand
and remove 3 screws
with tools



Press the buckles on
both sides and lift the
sensor box up



Pull out the top touch
module to one side and
upwards



Disconnect the main control
board cable and remove the
touch panel module



Remove the main control
board and replace



Remove the old UI
panel with tools



Tear off the adhesive
sticker of a new panel





Align the notch of the new UI panel with the bumps of the PCB bracket, press and paste it



Otherwise, install the UI panel back to the whole machine

4.4 Sensor replacement & Sensor PCB

FlowA3



Invert the machine;
rotate the lampstand
counter clockwise, take off



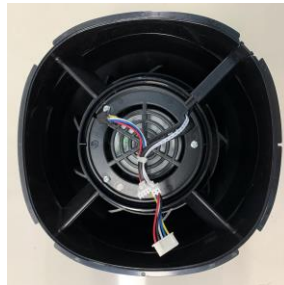
Remove 4 screws with
tools



Take out air duct
components



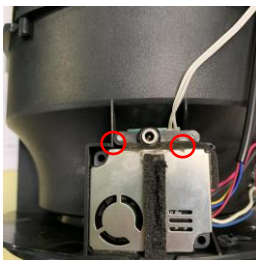
Remove the PCB bracket
and pull out the power
strip



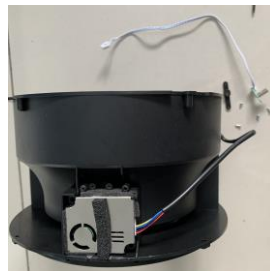
Remove 3 screws and
remove the wire cover
with tools



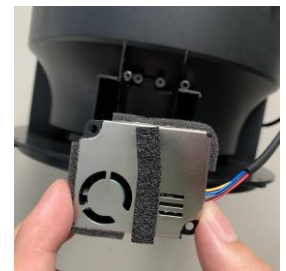
Remove the striped tape



Remove 2 screws with tools



Remove the DC socket



Remove the sensor
assembly



Replace with a new sensor, stick on foam

Otherwise, install the
sensor on the whole
machine

FlowA4



Invert the machine
rotate the lampstand
counter clockwise



Remove 3 screws with
tools



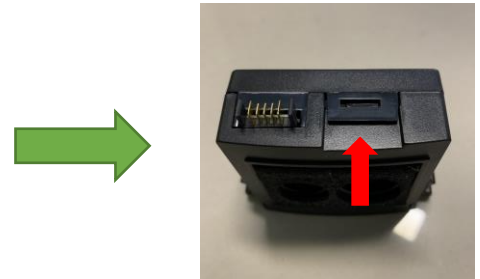
Take off the lampstand
and remove 3 screws
with tools



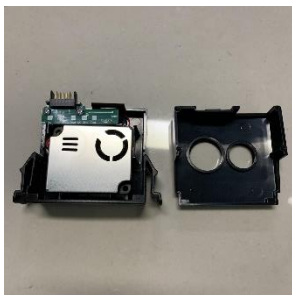
Press the buckles on
both sides and lift the
sensor box up



Remove the sensor box



Use a tool to open the
buckle



Open the sensor box



Disconnect the
sensor cable



Tear off the adhesive
sticker of a new panel

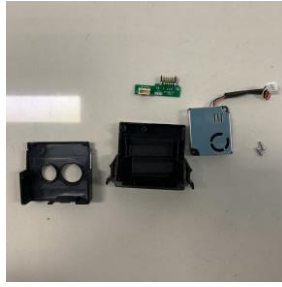


Otherwise, install the sensor
back to the machine

Only Applicable for FlowA4 to replace sensor PCB by addition to process above



Remove 2 screws
with tools



Disconnect the sensor
cable and remove the
sensor PCB



Otherwise, install the
sensor PCB back to the
whole machine

4.5 Power Supply Board Replacement (FlowA4)



Invert the machine
rotate the lampstand
counter clockwise



Remove 3 screws with
tools



Take off the lampstand
and remove 3 screws
with tools



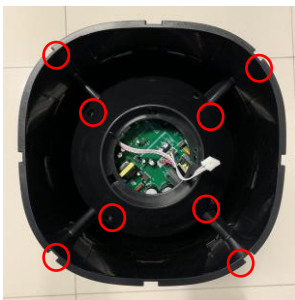
Press the buckles on
both sides and lift the
sensor box up



Pull out the top touch
module to one side and
upwards



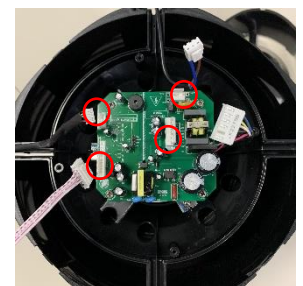
Disconnect the main
control board cable and
remove the touch panel
module



Open the sensor box

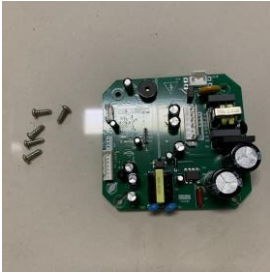


Take down the
air duct



Disconnect the wiring
on the power board





Remove the power board and replace



Otherwise, install the sensor back to the machine

4.6 Motor Replacement

FlowA3



Invert the machine;
rotate the lampstand
counter clockwise, take off



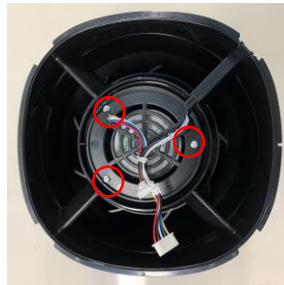
Remove 4 screws with
tools



Take out air duct
components



Remove the PCB bracket
and pull out the power
strip



Remove 3 screws and
remove the wire cover
with tools



Remove the upper air
duct and wind wheel
assembly



Remove the counter nut
and the wind wheel stop
washer with tools

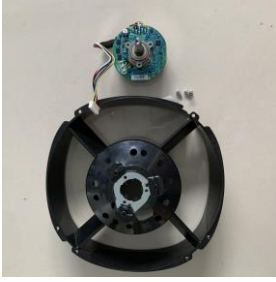


Remove the wind wheel
and fan blade gasket from
the motor shaft



Remove 3 screws with
tools





Otherwise, the motor can be installed on the whole machine

Remove the motor and replace

FlowA4



Invert the machine
rotate the lampstand
counter clockwise

Remove 3 screws with
tools

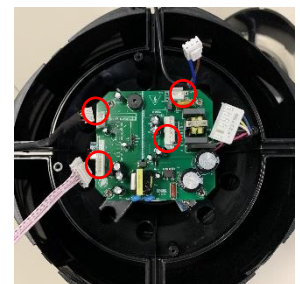
Take off the lampstand
and remove 3 screws
with tools



Press the buckles on
both sides and lift the
sensor box up

Pull out the top touch
module to one side and
upwards

Disconnect the main
control board cable and
remove the touch panel
module



Open the sensor box

Take down the
air duct

Disconnect the wiring
on the power board and
remove 4 screws,
then remove PCB
with tools





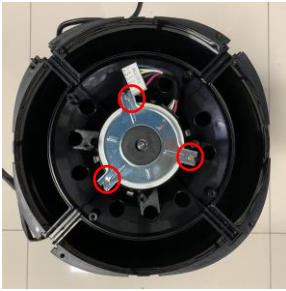
Remove the motor bracket



Remove the nut and wind wheel stop washer with tools



Remove the wind wheel and wind wheel gasket



Remove 3 screws and remove the motor bracket with tools



Remove the motor and replace



Otherwise, install the motor back to the whole machine

4.7 Grid and Body Replacement

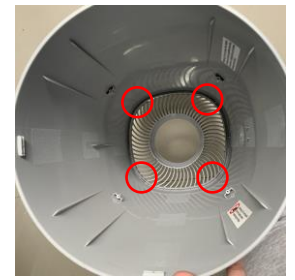
FlowA3



Invert the machine;
rotate the lampstand
counter clockwise
take off



Remove 4 screws with
tools and take out air
duct components



Remove 4 buckles with
tools



Remove the style grid
and replace it with a
new one

Otherwise, install the
style grid

FlowA4



Invert the machine
rotate the lampstand
counter clockwise

Remove 3 screws with
tools

Take off the lampstand
and remove 3 screws
with tools



Press the buckles on
both sides and lift the
sensor box up

Separate the body from
the whole

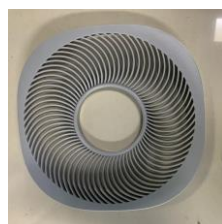
Pry open 8 buckles with
tools



Remove the style grid and
discard the style grid

Replace with a new body

Install the new style grid
back to the new body
according to the buckle
and foolproof



Replace with a new style grid



5 USER INTERFACE

5.1 FlowA3

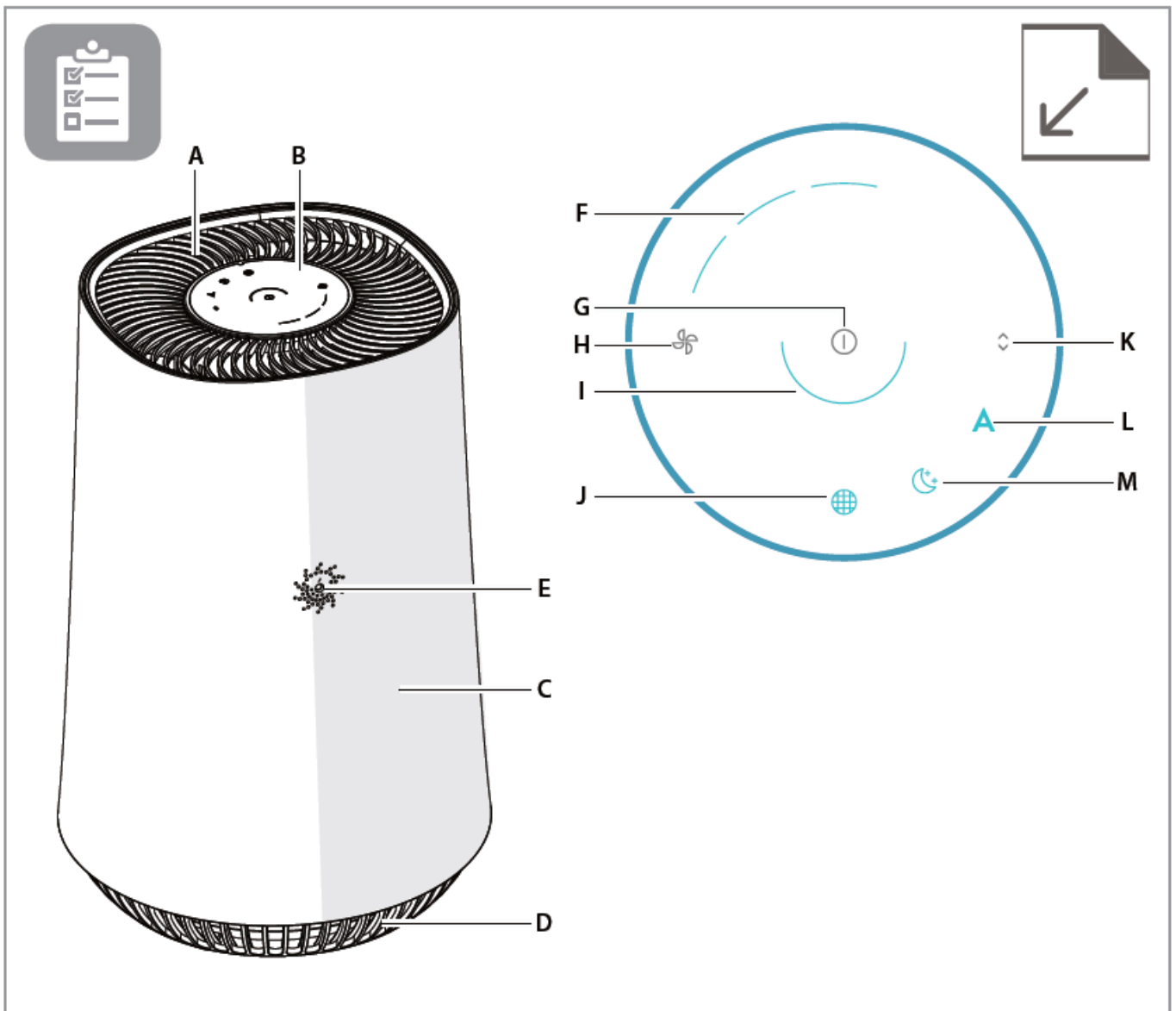
EN DESCRIPTION OF YOUR AIR PURIFIER FLOW A3

Appliance:

- A. Air outlet
- B. UI panel
- C. Main body
- D. Base
- E. Sensor window & Adapter jack

Control panel:

- F. Fan speed indicator
- G. Power on/off
- H. Fan speed control
- I. Air quality indicator
- J. Filter change indicator
- K. Toggle mode & Filter reset
- L. Auto mode indicator
- M. Sleep mode indicator



5.2 FlowA4

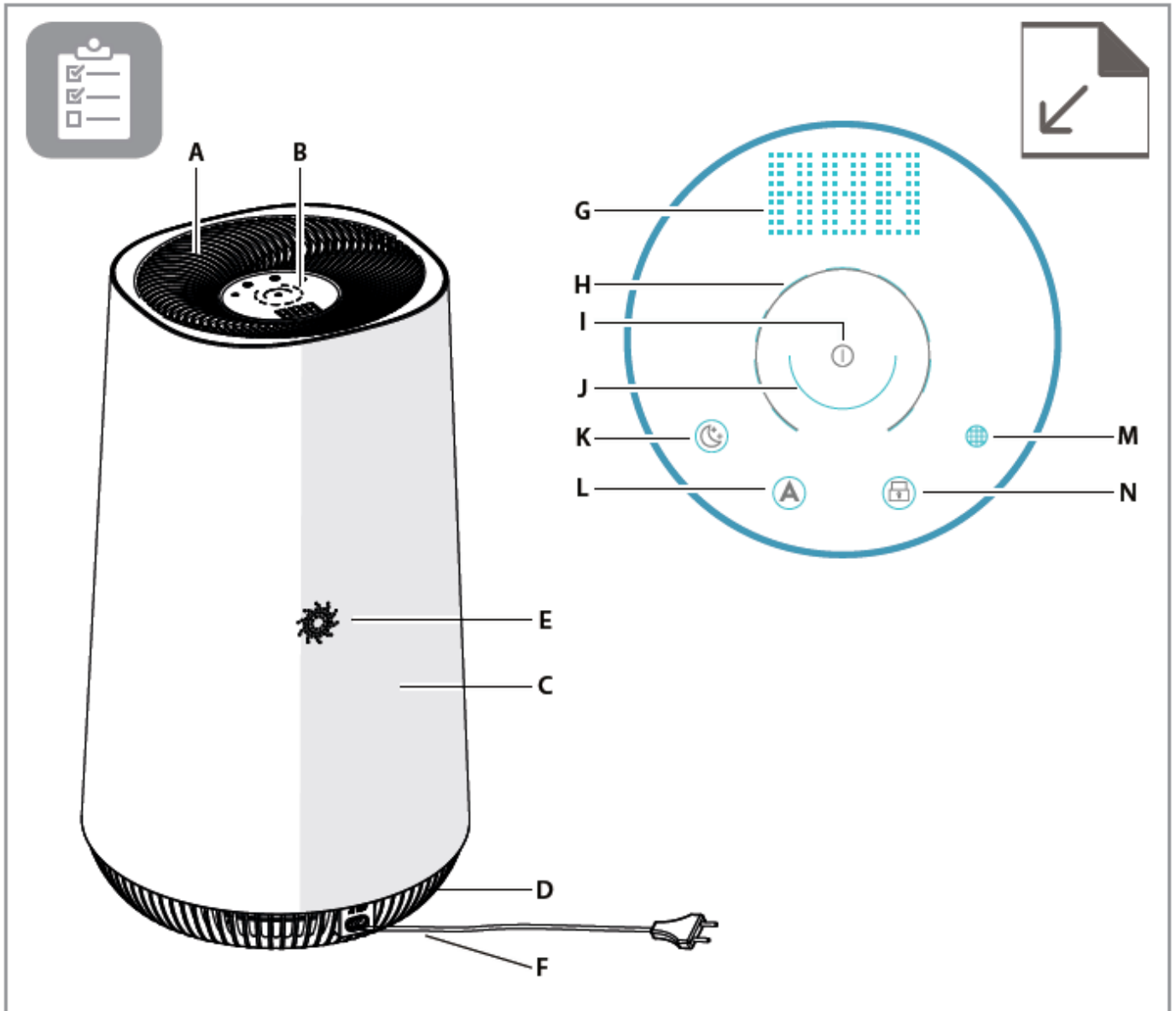
DESCRIPTION OF YOUR AIR PURIFIER FLOW A4

Appliance:

- A. Air outlet
- B. UI panel
- C. Main body
- D. Base
- E. Sensor window
- F. Power cord

Control panel:

- G. Air quality digital display
- H. Fan speed control
- I. Power on/off
- J. Air quality color indicator
- K. Sleep mode
- L. Auto mode
- M. Filter change reminder
- N. Child lock



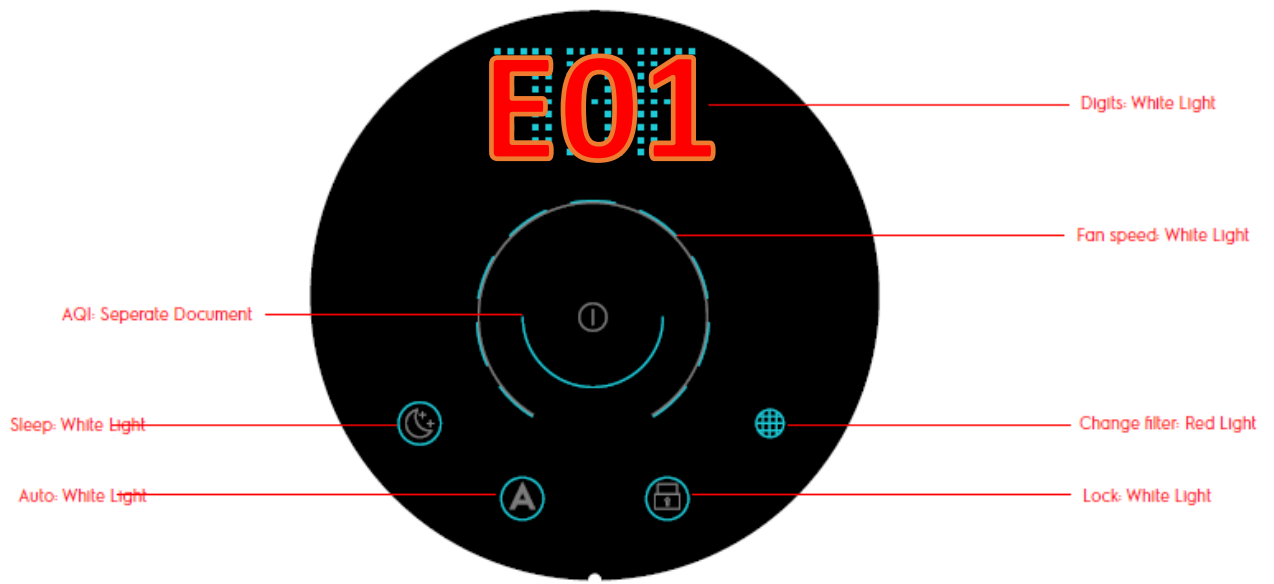
6 GUIDE TO DIAGNOSTICS / TROUBLESHOOTING

6.1 Diagnostics: Motor

FlowA3



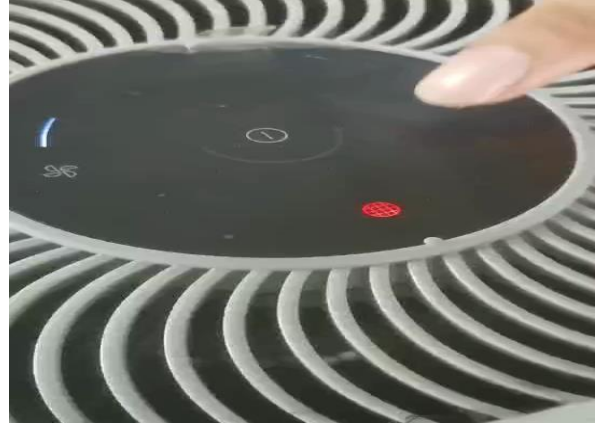
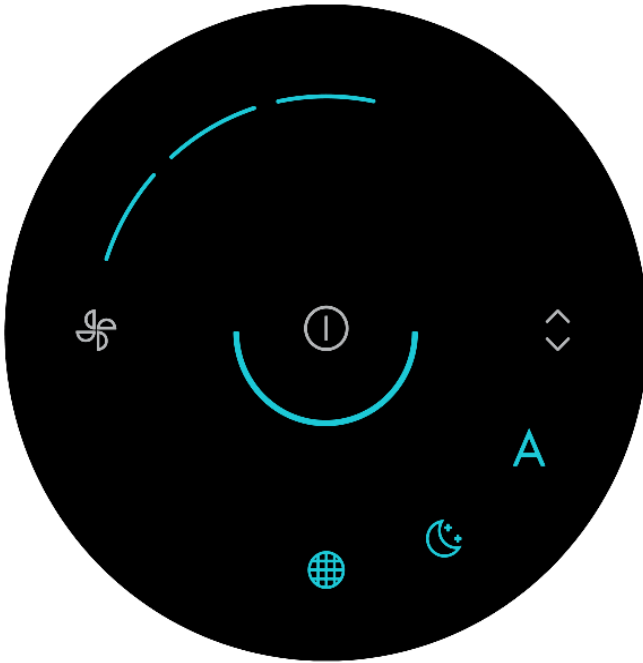
After 10 minutes of starting, the particle sensor has no output signal, the 888 area indicates E02, and the product runs as usual. If the sensor output signal is detected again within 10 minutes, the sensor error detection timer will be cleared, and the 888 area will display the detected PM2.5 again.



After controlling the motor signal output for 30 seconds, if the rotating speed feedback signal is not detected, the motor will stop running, the product will be locked in the shutdown state and the 888 area will display E01.

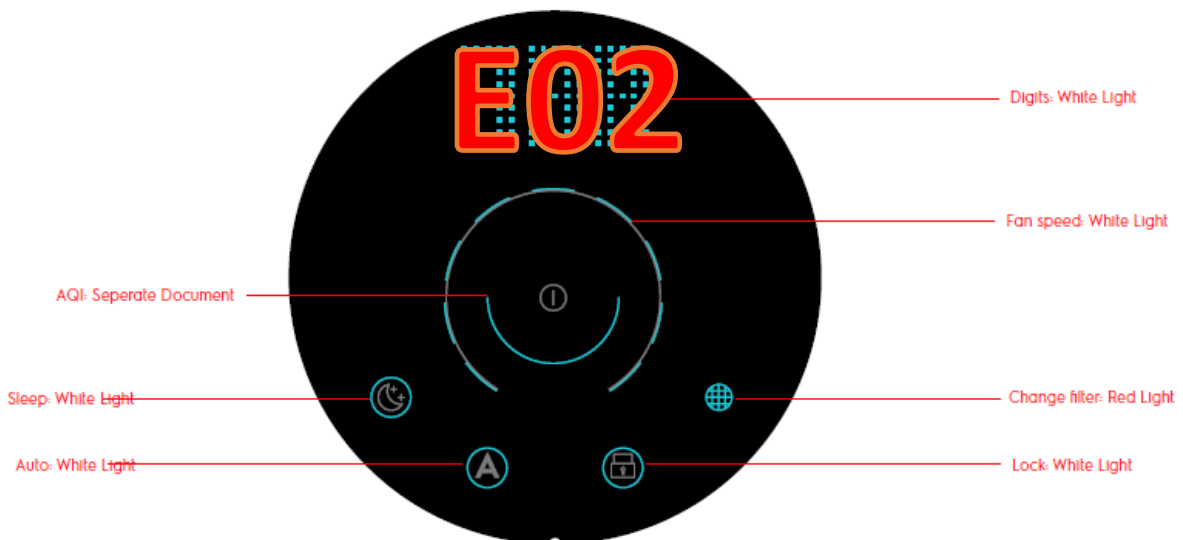
6.2 Diagonostics: Sensor

FlowA3



PM2.5 sensor: After the sensor signal is not detected within 10 minutes of starting up and running, the AQI aperture display goes out, and the device can only work in manual mode and sleep mode and cannot switch to Auto mode operation.

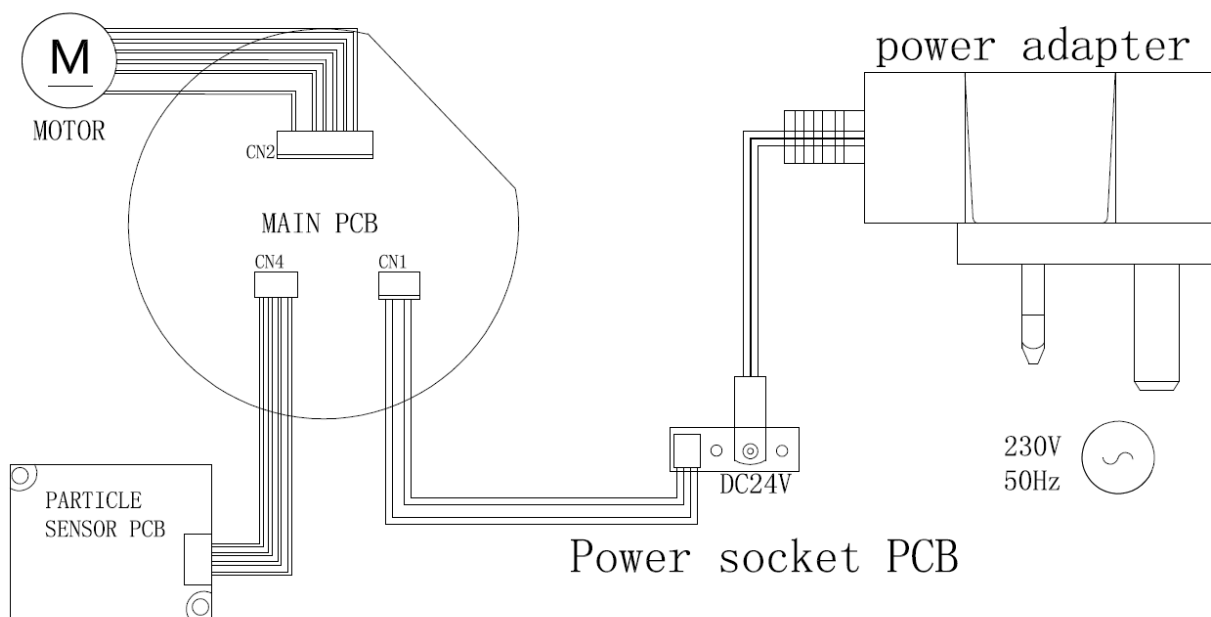
FlowA4



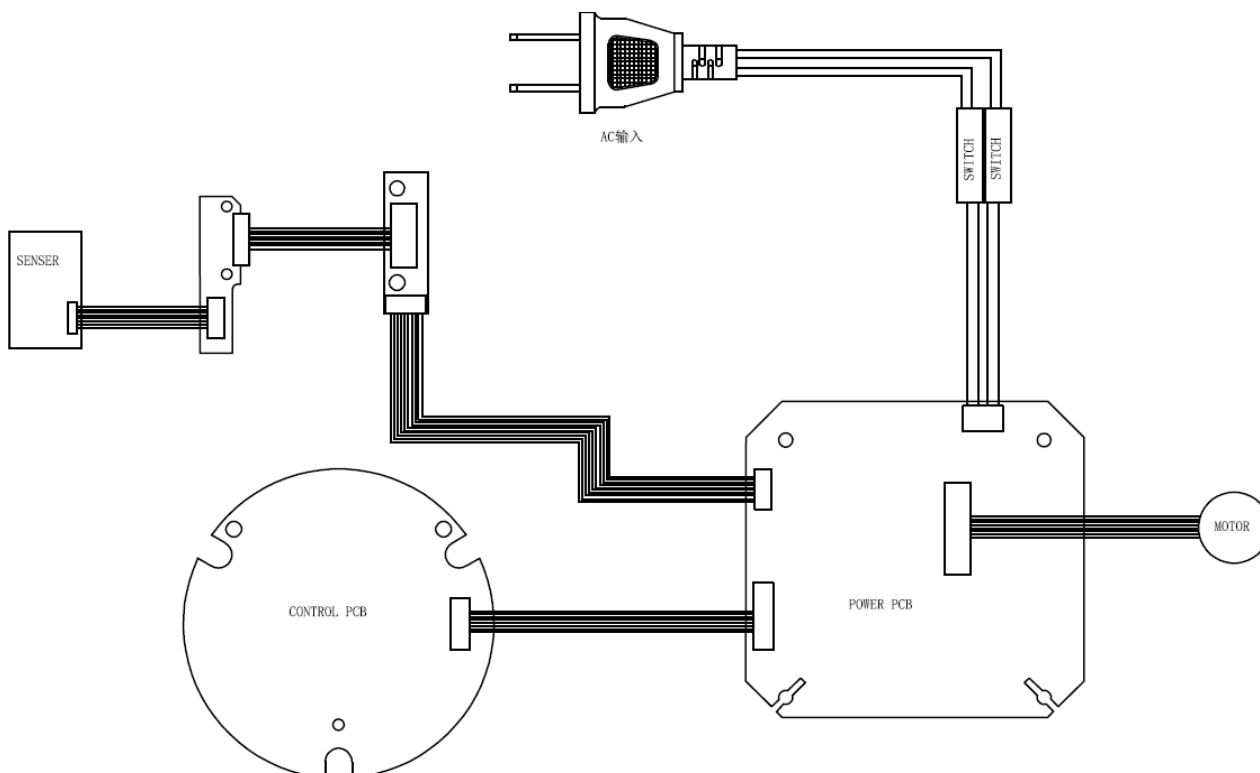
After 10 minutes of starting, the particle sensor has no output signal, the 888 area indicates E02, and the product runs as usual. If the sensor output signal is detected again within 10 minutes, the sensor error detection timer will be cleared, and the 888 area will display the detected PM2.5 again.

7 WIRING DIAGRAM

FlowA3



FlowA4



8 DEFINITION OF TERMS, ACRONYMS AND ABBREVIATIONS

Terms, Acronyms and abbreviations	Description
PM2.5	Particulate Matter less than 2.5 microns in diameter
UI	User Interface
PCB	Printed Circuit Board
MB	Main board, Motherboard
NTC	Negative Temperature Coefficient