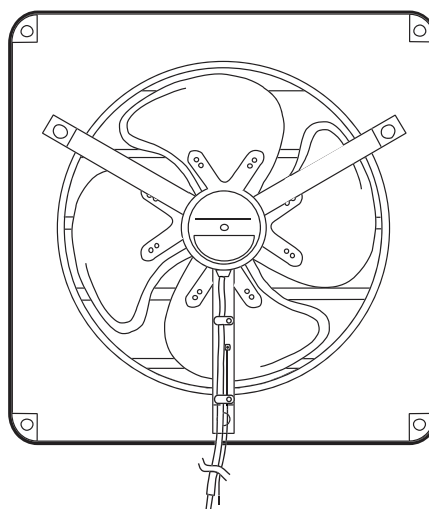


Service Manual

Ventilating Fan 40KAQA

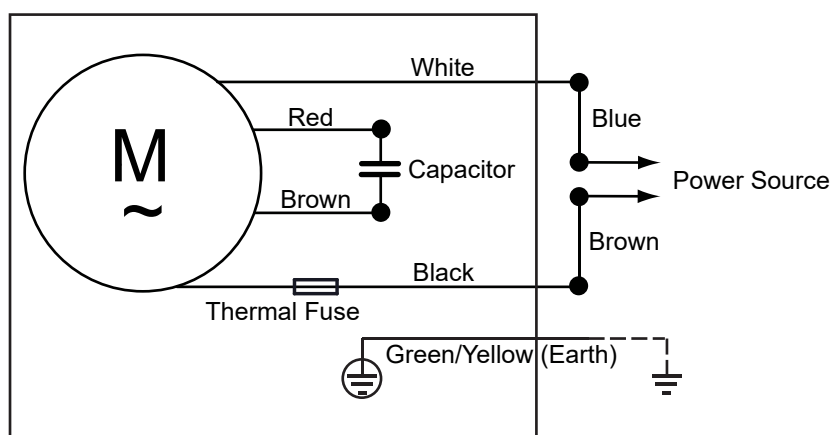


SPECIFICATION

Model		40KAQA			
Voltage	Volt/Hz	220 V 50 Hz	230 V 50 Hz	240 V 50 Hz	230 V 60 Hz
Power Consumption	Watt	47.0	52.0	59.0	67.0
Current	Ampere	0.260	0.270	0.290	0.310
Air Volume	m ³ /h	1880	1920	1960	2130
Net Weight	kg	6.4	6.4	6.4	6.4

*) Product specifications can be change without any notice.

WIRING DIAGRAM



Notes :

This Service Manual book was printed according to the latest data from manufacturing section.

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I. SAFETY INSTRUCTIONS

- Disconnect the power supply until blade is stationary before cleaning and maintenance.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.
- If the supply cord is damaged, it must be replaced by the manufacturer or its service agent or a similarly qualified person in order to avoid a hazard.
- The product must be mounted on to the wall which is enough strong, If the wall is not enough strong it must be reinforced for it to be strong enough.

The type of instruction has been distinguished and explained using the following pictorial symbol.

Possible harm or damage will occur if the user ignores the instructions and if the product is installed without following the correct instructions.



The following symbols signify things that are not allowed



Warning

The following symbols signify things that may cause death or serious injury.










The following symbols signify things that must be conducted without any errors.








Caution

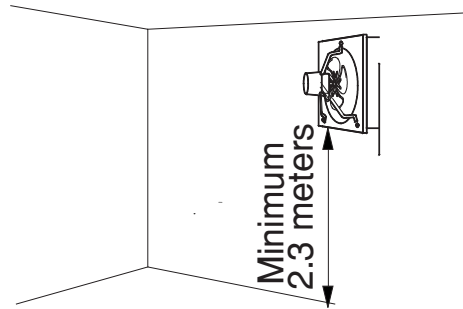
The following symbols signify things that may injury or material loss.


II. WARNING

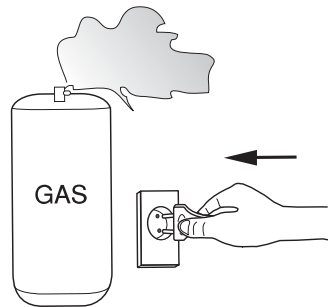
-  Do not install the fan out of the window and wall. Otherwise, the product may get wet in the rain and cause short circuit.
-  Do not install the power switch in bathroom. Otherwise, it may cause a short circuit, thus resulting a fire.
-  Do not install the product as the method which is not approved in the instruction. Otherwise, the product may fall down and it may cause injury.
-  Do not operate the product other than the voltage in name plate. Otherwise, it may damage the product or cause fire.
-  Wiring is required to follow the local wiring regulations. Otherwise, it may cause fire.
-  Installation should be done by authorized person. The product should be installed firmly. Otherwise, the product may fall down and it may cause injury.
-  The product must be grounded. Otherwise, it may cause electric shock when there is any trouble or electric leakage.


III. CAUTION

-  Do not reconstruct this product. Otherwise, it may cause damage to the product or injury.
-  The special-purpose or dedicated parts, such as mounting fixtures, must be used if such parts are provided. Otherwise, the product may fall down and it may cause injury.
-  Components must be installed tightly. Otherwise, it may injure person caused by product's falling off.
-  The product must be installed tightly. Otherwise, it may injure person caused by product's falling off.
-  The lowest surface of this product should be installed above 2.3 m from the floor after installation. Avoiding any accident.



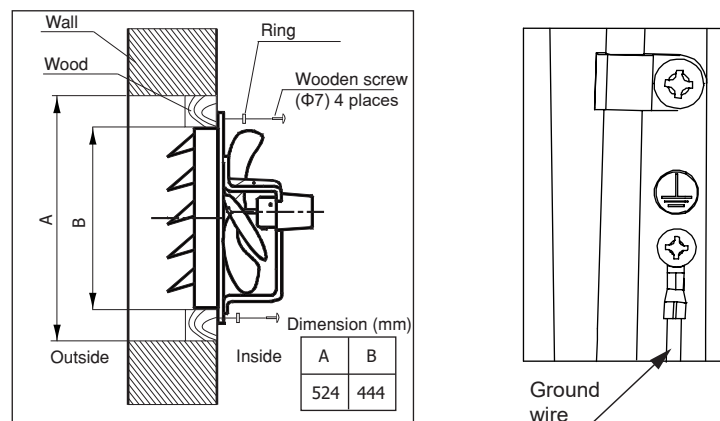
-  Do avoid the back-flow of gas into the room from the open flue of flammable gas or other open-fire appliances. Otherwise, it may cause fire.



-  During installation, make sure the metal parts of the unit and screw for installation of the Fan do not come into contact with objects made of metal that are likely to be on the wall. Otherwise, it may cause fire.

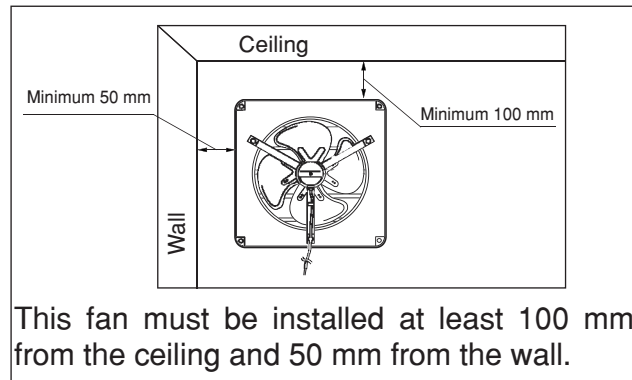
IV. INSTALLATION AND USE INSTRUCTION

1. Install a Wooden Frame on the wall , Where the Fan will be installed.
2. Install the Fan Body into the wooden frame, use and tighten the Wood Screw and Ring firmly to avoid the Fan from shaking.



Notice

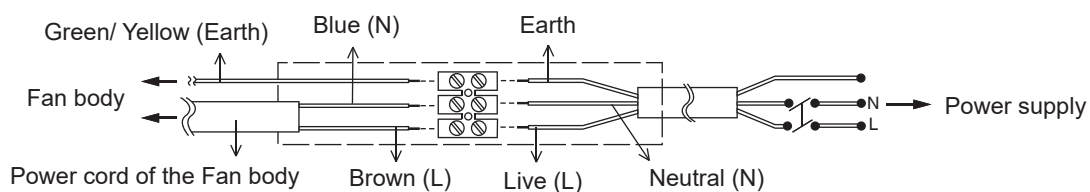
- If all of three Motor Arm had to be unmounted from the Frame during the installation, the Motor Arm must be re-installed firmly to Frame and using the provided Rings.
- Do not kink or pinch the supply wiring. Otherwise, it may cause electric leakage, Electric shock or fire.



3. To turn on the Fan, connect the supply cord to power source with the indicated voltage and frequency in the Name Plate.

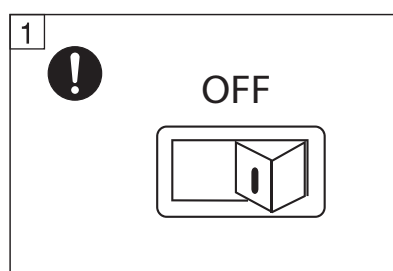
Notice

- Connect the power cord to the supply line according to the wiring diagram and the local electrical wiring rules of fixed wiring.
- Make sure all connections are fastened firmly after wiring is finished.
- It is required to use terminal (not included) that complies IEC 60998.
- The all connections should be accommodated in a suitable compartment.



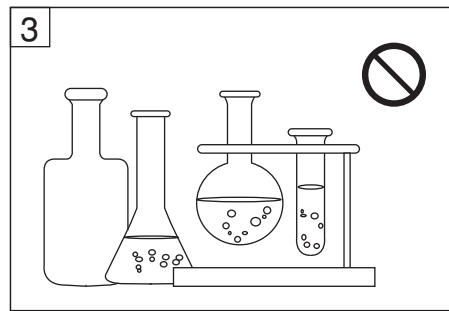
V. MAINTENANCE

1. Make sure the electricity supply has been disconnected and the Propeller stops rotating before cleaning and maintenance.

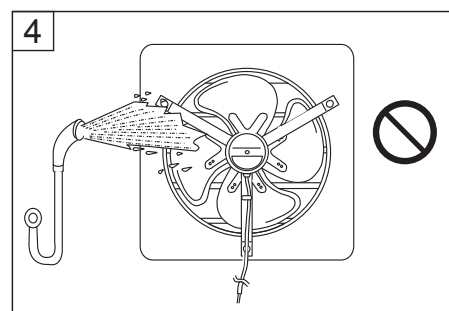


2. Clean the blades and other outer parts using warm water mixed with detergent, then wipe again with a dry cloth.

⊘ 3. Avoid using THINNER, GASOLINE, ALCOHOL, or materials that can cause rust or fade color.



⊘ 4. Don't let water reaches electrical parts like motor or switch.



! 5. Use gloves during cleaning, to avoid accidents or injuries.

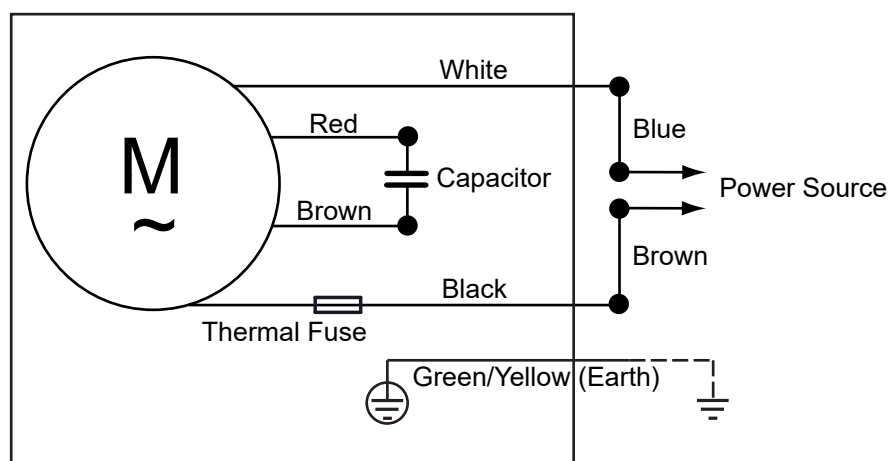
! 6. After cleaning, apply grease to Motor Shaft to prevent from rust.

! 7. After the Fan dries, re-assembly the Fan according to the installation instruction.

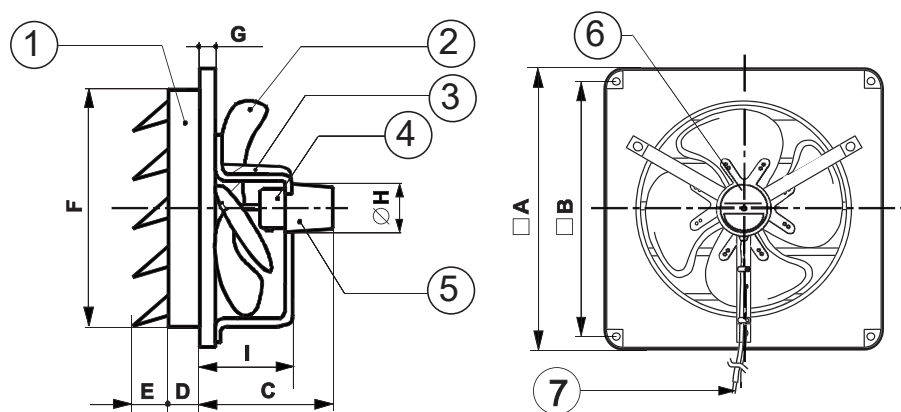
! 8. When the Fan is not to be used after cleaning, keep the Fan in the dry place.

! 9. If the Fan is not to be used for long term, remove the Fan from wooden frame to avoid the possibility of falling.

VI. WIRING DIAGRAM



VII. PARTS NAME



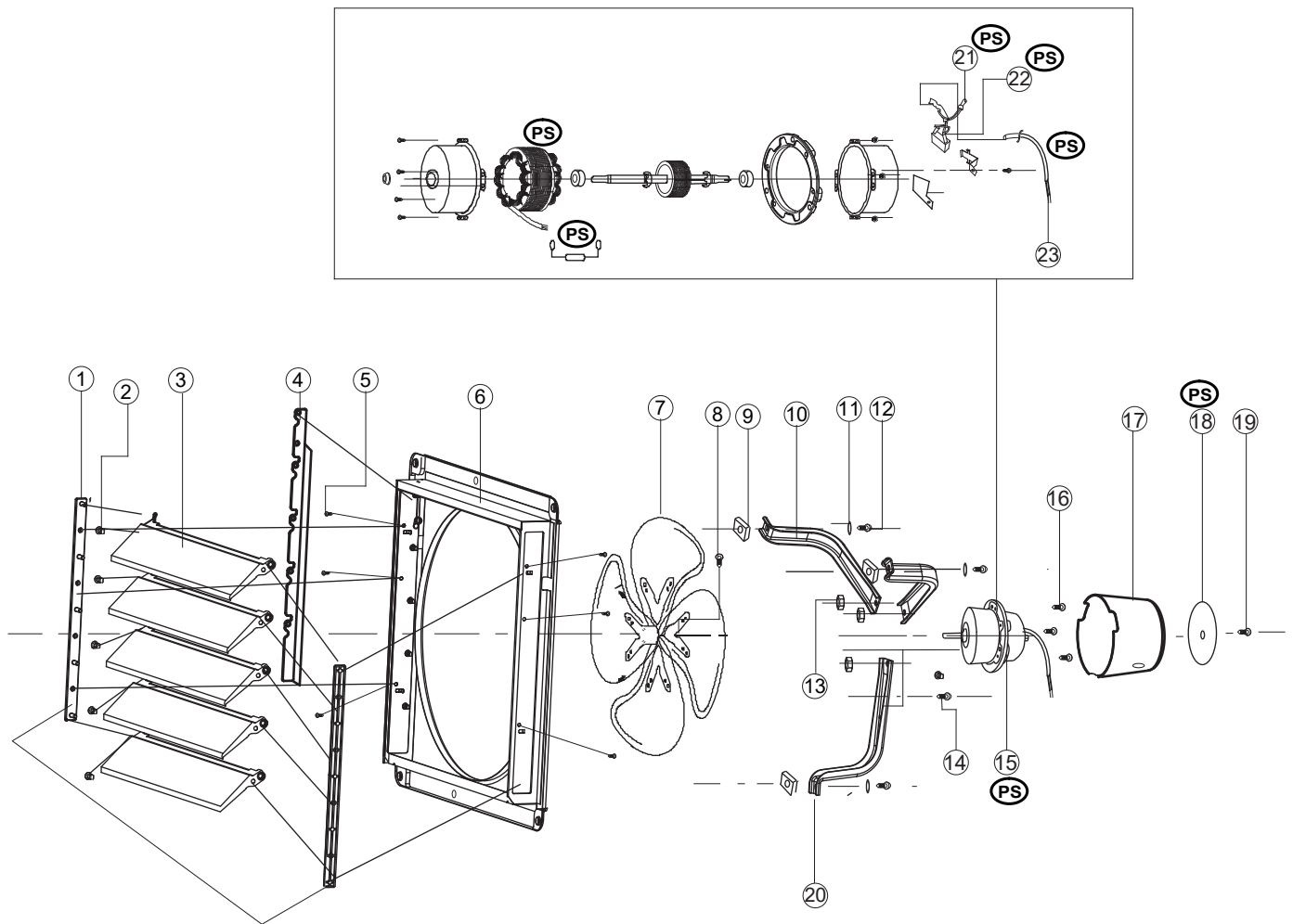
1. Main Frame
2. Blade
3. Arm
4. Motor
5. Motor Cover
6. Name Plate
7. Supply Cord

Size (mm):	
NO	40KAQA
A	510
B	480
C	215
D	40
E	55
F	434
G	10
H	126
I	130

VIII. SERVICE STANDARD

Type of Problem	Possible Cause	Repair Action
The Motor not spinning	There is no electrical current	Check the connection and electrical voltage
	The connection to the Power Supply Terminal detached	Check the connection on the terminal
	The crimping joint between motor lead wire and capacitor detached	Re-crimping / Re-joint the connection
	The Motor lead wire is broken	Replace the Motor
	The Motor coil is broken	Replace the Motor
	The Thermal Fuse is broken	Replace the Motor
	The Capacitor is broken	Replace the Capacitor
The Motor rotation is slow	The Capacitor capacitance drops	Replace the Capacitor
Noise	The Bearing broken	Replace the Motor
	The Rotor dan Stator collides	Replace the Motor
	The Blade touching the Motor Arm	Replace the Blade / adjust the Blade profile
	The Blade vibrates	Replace the Blade
	The Blade not fasten firmly	Fasten the Blade screw

IX. ARRANGEMENT OF PARTS INSTALLATION



IMPORTANT NOTES FOR SAFETY :

- Components / Parts which marked with (PS) are having special characteristic for safety.
- Use original components / parts when replacing the product components / parts.

X. SERVICE PART LIST

Number	Part Name	Part Number	Quantity (pcs)
1	Shutter Set Plate	40AEAS961A	2
2	Shutter Lever	25VGU1905	5
3	Shutter	40AAU0903ACG-E	5
4	Balancer Plating	40AEA0951T	1
5	Truss Tapp Screw	TTS-D4X8LA	6
6	Frame Assy	40AEAP900DPCG-E	1
7	Blade Assembly	40AEAP800ACG-E	1
8	Blade Set Screw	00HTN0101D	1
9	Cushion	30AEA0290A	3
10	Arm A	40AEAP910ACG-E	2
11	Spring Washer	SW-D8A	3
12	Cross Slot Screw	CSS-M8X20LA	3
13	Hexagonal Nut	HN-M6AMOA	3
14	Cross Slot Screw	CSS-M5X8LA	1
15	Motor Assy 220V (PS)	40KAU1M20A	1
16	Cross Slot Screw	CSS-M6X15LA	3
17	Rear Outer Cover	30AEAP401GTCG-E	1
18	Name Plate (PS)	See Table X.1	1
19	Cross Slot Screw	CSS-M5X8LA	1
20	Arm	40KAU1910ACG	1
21	Connector (PS)	CE-230L	2
22	Capacitor 1.1μF 500VAC (PS)	40KAU1101	1
23	Cord Sub Assy (PS)	40KAU1131	1

Table X.1 Guide for ordering Name Plate

Model No.	Name Plate
40KAQANAHG	40KAQA050
40KAQA22	
40KAQANAHH	
40KAQA03	
40KAQA15	40KAQA050-15
40KAQANAZ	40KAQA050-NAZ

XI. PACKING INSTRUCTION

Top Pad
40KAU1407

Accessories
40KAU1413

Instruction Book
40KAQA461A

PS

Poly cover
00PPC0103

Bottom Pad B
40KAU1406

Bottom Pad A
40KAU1405

Packing Case
(see table)

PS

Pos Code Label
(see table)

Model No.	Packing Case	Pos Code Label
40KAQANAHG	40KAQA400	40KAQA410-NAHG
40KAQA22		40KAQA410-22
40KAQANAHA		40KAQA410-NAH
40KAQA03		40KAQA410-03
40KAQA15		40KAQA410-15
40KAQANAZ	40KAQA400-NAZ	-



Jakarta, June 2024