BATH FAN

ADDITIONAL WIRING DIAGRAMS

Model No.

ABF110DHG5 Series	ABF110DHL1 Series	ABF110DCMH-S G5
ABF110DHG6 Series	ABF110DHL5 Series	ABF110DCMH-S G6
	ABF110DHL6 Series	

FAN WITH HUMIDITY SENSOR ONLY

ABF110DH G5, ABF110DH G6, ABF110DCMH-S G5, ABF110DCMH-S G6 **(2 Switches required)**

- Be sure to turn **OFF** the power at the breaker before installing to avoid electrical shock or injury.

- The primary switch is what is bringing power into the unit. See **DIAGRAM A** for switch requirement.

-The secondary switch is the On/Off switch that is connected to the wires marked Red/Signal on **DIAGRAM A.**

- Be sure that the secondary switch is a traditional On/Off switch and does not contain a Neutral hookup. A Ground (Green wire) is fine. Typically, there will be two brass screws on one side and a green screw on the other side of the switch. See **DIAGRAM A** for more information.

- Make sure both the primary switch (the switch that feeds power into the unit directly) and the secondary switch (Red/Signal wires) are in the **OFF** position while you are wiring the unit.

- Once the unit, and both switches are properly wired, per the instructions and diagrams provided, turn the power **ON** at the breaker, then turn **ON** the primary switch (the switch feeding power into the fan) and leave the secondary switch **OFF** (the switch connected to the red wires coming out of the unit). Be sure to turn the Low Airflow knob located at the back of the unit to "0 before turning on the primary switch".

- With the grille cover removed from the fan, place a small cup of hot steaming water underneath the fan humidity sensor that is located to the left of the motor. The humidity sensor has a USB plug attached to it. Be sure the USB is plugged in.

- With the primary switch on, and the secondary switch off, the hot steaming water underneath the humidity sensor will turn the fan on.

- If the fan does not turn on, rotate the Low Airflow knob from 0 to 100 and back again to 0 to reset the unit. Also, rotate the humidity knob, located on the sensor to 60 or in the middle of the 30 and 80 markers

FAN WITH HUMIDITY SENSOR ONLY CONTINUED

.- Place steaming hot water back under humidity sensor and wait for the fan to turn on. If the fan does not start, double check that the secondary switch is in the **OFF** position and the USB is plugged in and repeat previous step.

- Once the fan starts with the humidity of the water, remove water and allow fan to turn off on its own, which will ensure the sensor is working properly. You can adjust the time for the fan operates by using the Time knob located at the back of the unit. If you choose to leave the knob at "0" on the timer, the sensor will shut off when it no longer detects humidity.

- The secondary switch (wired to the Red/Signal wires) is an override. If you wish to turn the fan on without waiting for humidity to trip the sensor, turn the secondary switch to on. This will turn the fan on manually. Use the CFM switch located in the back of the fan to set airflow speed for manual operation.

- To return the fan back to humidity sensor mode, turn off the secondary switch (Red/Signal wire input). This will automatically turn the fan off and set it back into humidity mode.

- *Please note, if you turn the primary switch off, the fan will not operate. The primary switch must always be in the ON position for the fan to operate.*

FAN WITH LED LIGHT, NIGHT LIGHT & HUMIDITY SENSOR ONLY

ABF110DH L1, ABF110DH L5, ABF110DH L6 **(2 Switches required)**

1 Switch w/3 Functions (Fan, Light, Night Light)
1 Secondary switch (See wiring DIAGRAM B for more information.)

Be sure the secondary switch is a traditional ON/OFF switch and does not contain a Neutral hookup. A Ground (Green wire) is fine. Typically, there will be two brass screws on one side and a green screw on the switch. See DIAGRAM B for more information.

- For ABF110DH L1, ABF110DH L5, and ABF110DH L6 (Light kit brown wire and Night Light blue wire): if you do not want the night light feature cap off the blue wire and use a 2-function switch as the primary switch- one for the fan and one for the light only.

 -The fan switch is the primary switch and must always be **ON** to keep the humidity control sensor in the unit powered.

- The secondary switch (Red/Signal wire hook up) is an override and is **ONLY** to be an On/Off switch with no Neutral. The Light kit is wired separate of the DC motor. If you follow the **DIAGRAM B**, the night light and light switch will function properly.

- Once the fan is wired correctly, follow the previous steps that are outlined for the ABF110DH G Series (Fan only).

- The humidity control sensor is preset to operate while the primary switch is **ON** and secondary switch is **OFF**. Turning the primary switch off will shut off power to the fan and render the secondary switch useless. On the other hand, while the primary switch is on, if you turn on the secondary switch in conjunction, the fan will turn on continuously until the secondary switch is turned off. Once the secondary switch is turned off, the fan will return to humidity sensor mode. Leave the primary switch in the **ON** position**.**

For further questions, please call 843-377-8642.
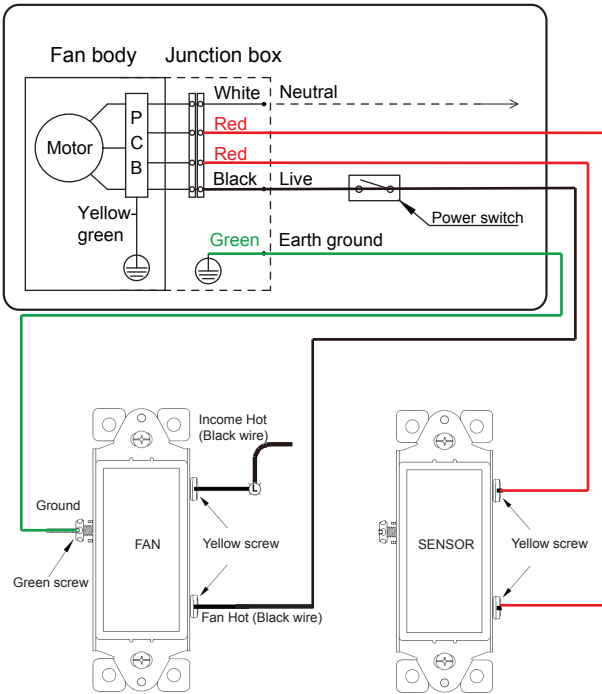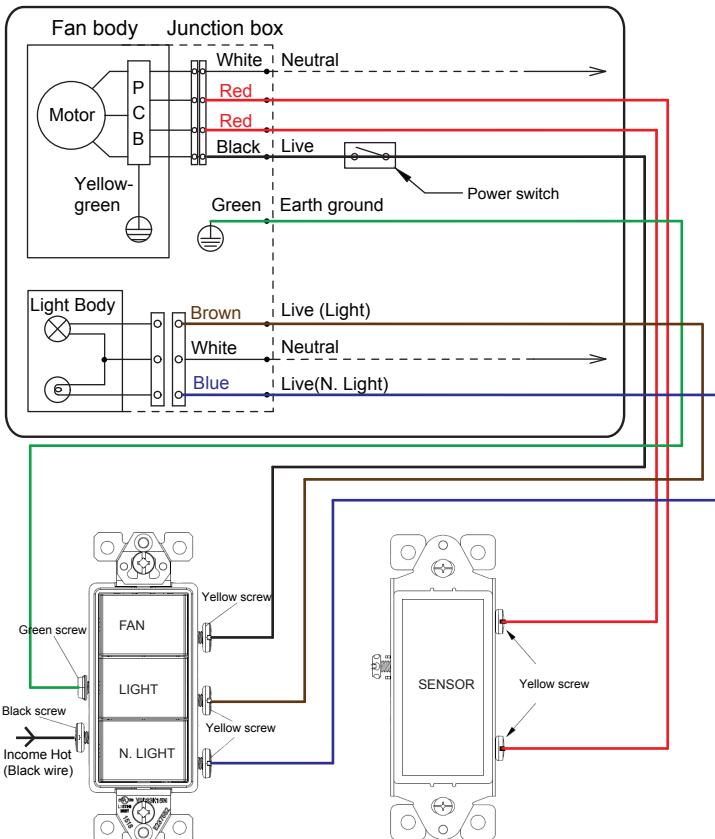
WIRING DIAGRAM

Fan only model:

Fan body **Junction box**

Motor — P C B

White — Neutral
Red
Red
Black — Live — Power switch
Yellow-green
Green — Earth ground

DIAGRAM A

Ground
Green screw
FAN
Income Hot (Black wire)
Yellow screw
Fan Hot (Black wire)

SENSOR
Yellow screw

OFF — ON
Fan — Sensor
ON — OFF

With light model:

Fan body **Junction box**

Motor — P C B

White — Neutral
Red
Red
Black — Live — Power switch
Yellow-green
Green — Earth ground

Light Body
Brown — Live (Light)
White — Neutral
Blue — Live(N. Light)

DIAGRAM B

Green screw
FAN
LIGHT
N. LIGHT
Black screw
Income Hot (Black wire)
Yellow screw
Yellow screw

SENSOR
Yellow screw

Fan — ON
ON — OFF
ON — OFF
ON — OFF
Sensor
OFF