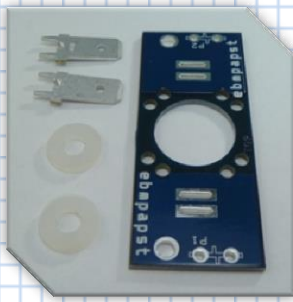


Motor Wiring Adapter

ebmpapst

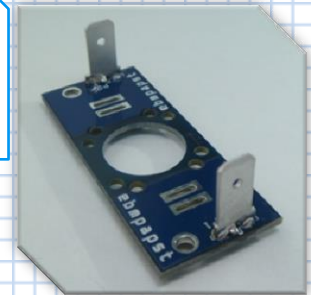


Included in each kit:

- (1) ebm-papst motor adapter circuit board
- (2) ¼" wide. 0.2 pitch Quick Disconnect terminals
- (2) Nylon washers: .26" ID, .44" OD, .062" Thick

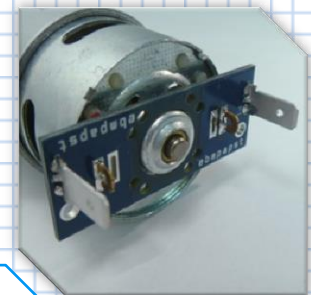
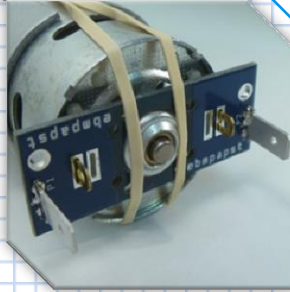
Step 1: Connect Terminals

- Set the PCB down on a surface that allows the terminals to fully seat into the board, according to the mounting configuration you are using (see step 2)
- Place one quick disconnect terminal into the small contact holes on either end of the board (as shown).
- Solder terminals to board. Don't be afraid to use a lot of heat.



Step 2: Mount Board

- Place a washer on each of the motor terminals.
- Press firmly down to the motor housing.
- Place board, ebm-papst name facing out, over the existing motor terminals.
- Terminals may face either way, but board top should always face out.
- Wrap a rubber band around the board/motor as shown, making sure to keep it away from the points you are about to solder.



Step 3: Solder Board

- Solder the circuit board to the motor.
- To avoid damaging either the board or the motor, have team members who are more experienced with soldering perform this step to avoid a cold solder joint.
Remember to insulate exposed electrical tabs. Ex: Liquid electrical tape.

Fan Wiring

- Red: Positive Lead
- Blue: Negative Lead
- White: Speed Sensor (Tach)
- You can cut the white lead, or use the signal it delivers to measure fan speed.

ebm-papst Inc.

100 Hyde Road

Farmington, CT 06034

Phone: +1 860 674-1515

Fax: +1 860 674-8536

www.ebmpapst.us



our commitment to eco-friendly production

"ICE" Cube

(Integrated Cooling Environment)

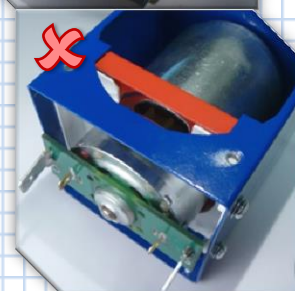
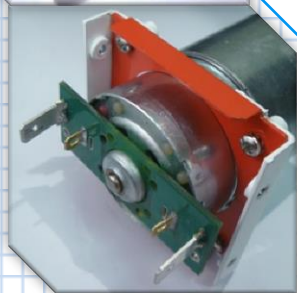
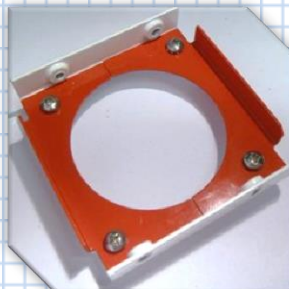
ebm

Step 1: Assembly Baffle

There are two pairs of baffles included in each kit. Choose the one that fits your motor diameter with the smallest possible gap.

- Fasten the baffle halves (red or green) to the baffle supports (silver)*.
- Red baffles should always be fastened as shown.
- Green baffles may be fastened onto the side you see the red baffles here, or, for shorter motors, to the standoffs on the opposite side of the baffle supports.
- Secure with four #4-40 x 1/4" screws

**White in picture, actually silver (bare aluminum)*



Step 2: Install Baffle/Motor

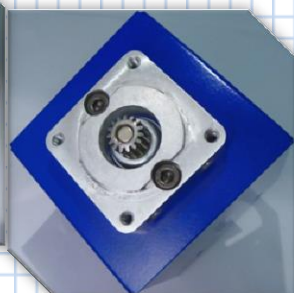
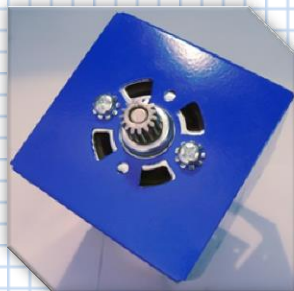
- Install the baffle, baffle support and motor into the housing (blue)
- The top picture shows the large (red) baffle installed **correctly** onto a 775 motor. Note how the motor's air vent is **inside** the baffle, and that the baffle flange fully covers the gap in the motor housing.
- The bottom picture shows an **incorrect** installation. Note the vent is **outside** the enclosed area, and there is a gap between the red baffle and the housing.
- Secure with the four #4-40 x 1/4" screws.

Only the small (green) baffle should be mounted to the white standoffs.

Step 3: Secure Motor/Accessories

- If **not using** a face-mount accessory, choose the appropriate pair of holes and mount the motor as you would normally. (top two pictures)
- If you **are using** a face-mount accessory (in this case a gearbox) mount the accessory **over** the housing as shown. (bottom right picture)
- The thickness of the housing material is approximately .034" (.9mm) adjust screw lengths accordingly.

Note that any object that obstructs the face holes of the motor/housing will impede airflow through the motor and reduce cooling efficiency.



Step 4: Mount Fan

- Mount the included ebm-papst high efficiency fan to the open face of the housing. (note that the label is on top)
- The airflow arrow on the side of the fan should point out of the housing.
- Rotational orientation is not critical; ensure you can reach the wire leads.
- Fasten with the four #4-40 x 1/4" screws and lock washers.

Do Not over tighten. This can warp or damage the fan housing leading to blade rubbing or a complete loss of functionality of the unit.



- The assembled unit, both with and without a gearbox.
- The fan should be running whenever the motor is running, or, if possible, for the entire match.
- Depending on whether or not you have installed Wiring Adapter Board, you may have to change the order in which you install the baffle components.