

PSC MOTOR REPLACEMENT PROCEDURE

WARNING! **Lockout and Tag-out all power supplies to equipment and controls prior to servicing unit. Follow all safety codes.**

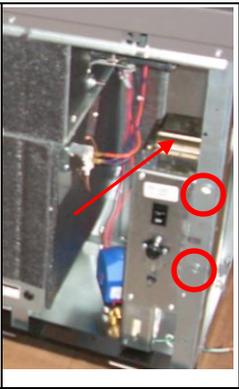
TOOLS REQUIRED:

- | | |
|-------------------------------------|---|
| 5/32" hex (Allen) tool, long handle | 7/16" deep socket w/ 12" extension and swivel |
| 1/4" nut driver | 7/16" combination wrench |
| 5/16" nut driver | safety glasses |
| 1/2" socket | work gloves |

Please review all steps before starting. Video demonstrating these steps is also available online at: <http://www.magicaire.com/products/unit-ventilators/>

STEP NO.	TOOLS REQUIRED	INSTRUCTIONS	REFERENCE DRAWING
1	5/32" hex (Allen) tool	Remove front center panel and front right side panel (40UVF) or open bottom (40UHF) panels. Remove end panels if accessible.	
2	1/4" nut driver	Remove 1/4" screws holding Coil Section front baffle to coil section	
3	-	Pull back insulation from blower section enough to access the motor & coupling setscrew through rectangular cut out	

4	-	Remove wiring from the motor	
5	5/32" hex (Allen) tool	Loosen the 3 setscrews on the shaft coupling between the motor shaft and the fan shaft.	
6	7/16" combination wrench 7/16" deep socket w/ 12" extension and swivel	Loosen the 7/16" nuts on both sides of the motor 'belly band' just enough to slide motor out to the right. It is unnecessary to remove the motor mounting bracket from the bulkhead. Do not pull the motor all the way out. There will be a ground wire attached to the motor and the back brace of the unit. It is helpful to have a box to sit the motor on so it is out of the way while removing the screw connecting the ground wire.	
7	1/4" nut driver	There will be a ground wire attached to the motor and the back brace of the unit. It is helpful to have a box to sit the motor on so it is out of the way while removing the screw connecting the ground wire. Once ground wire disconnected, remove old motor.	

7A		<p>If necessary due to a larger transformer, removal of the control box from the front frame may be necessary. This is not needed for all configurations.</p>	
8	1/4" nut driver	<p>Connect new motors ground wire to back brace and fasten.</p>	
9		<p>Place the new motor in the 'belly band.' Do not tighten yet.</p>	
10	5/32" hex (Allen) tool	<p>Ensure the blower wheels are centered within the fan housings (between the inlet rings) before securing the motor shaft coupling.</p>	
11	-	<p>Ensure the motor housing is all the way against the blower section end insulation.</p>	

12	5/32" hex (Allen) tool	Secure the 3 setscrews on the shaft coupling when the motor is properly positioned	
13	7/16" combination wrench 7/16" deep socket w/ 12" extension and swivel	Re-secure the motor 'belly band' around the motor.	
14		Reinstall the motor wiring	
15	1/4" nut driver and 5/32" hex (Allen) tool	Remove Coil Section front baffle to coil section and reinstall front panels (40UVF).	

Caution:

Ensure the unit is completely assembled when checking the fan speed. Replace all panels, including the filters, before checking the fan for operation. When the internal pressure drops at a normal condition, the loading on the motor will be such that the fan can come up to selected speed. Failure to ensure unit is completely assembled may result in reduced life of unit and/or personal injury.