

This publication contains supplemental instructions for replacing a shaded-pole motor with a Permanent Split Capacitor Motor (PSC). Carefully read this publication prior to any installation or maintenance procedure.

Recent federal mandate to increase the efficiency of all fractional horsepower motors, forced Loren Cook Co. to discontinue two specific motor models. This mandate is known in the motor industry as the “Small Motor Rule.” For additional information see www.energy.gov.

This new rule or mandate requires that fractional horsepower motors sold in the United States meet new minimum efficiency requirements. To meet this mandate, Cook was forced to discontinue the “shaded-pole” motor design on our 1/25 hp 1050 rpm and 1/20 hp 1550 rpm motors used in a wide variety of our products. These motors are being **replaced** with a PSC (Permanent Split Capacitor) motor design. These PSC motors will have half the amp draw of the original “shaded-pole” motors.

A drawback of these new PSC motors is that they are physically larger than the original motor. For all new fans ordered from the factory you and your customer will not notice any differences.

Due to the physically larger size of the new PSC motors, a replacement motor may require additional holes to be added to the motor plate of some units. Cook will provide a template to assist with adding these holes.

Installation

Tools Required:

- Paper Template (Below)
- Ball Point Pen
- Fine Point Marker (Sharpie or equivalent marker)
- Drill with 1/4” Metal Cutting Drill Bit

Old Part Number	New Part Number
100111	100122
100112	100123
100320	100124
103083	100125

Using the template at the bottom of the page, take your ball point pen and punch thru the paper at the indicated hole. Next, take the template and center the paper template over the motor plate. The template **MUST** be centered over the shaft clearance hole in the center of the motor plate. **DO NOT** re-use any of the existing holes. Failure to follow this step will result in the motor and wheel assemble to be incorrectly located and will cause the wheel to strike other parts of the unit. This will cause damage to the wheel and motor.

Once the template is centered, use the fine point marker and mark the new holes. Then using the drill with the 1/4 inch drill bit, drill the four new holes at the location just marked. Using the existing hardware install the new PSC motor.

