

Ducted Systems Technical Services: Service Tips Letter

Letter: ST-012-21

Date: October 12, 2021 Effective: October 12, 2021 Expires: October 12, 2022

To: S1 HVAC Branch and Distributor Principal, Sales Manager, Service Manager, Parts Manager, Warranty Manager, Training Manager, Delegated Administrator.
Ducted Systems Technical Services, DS Parts/S1, ES Americas, ADTI Channel, Account Representatives, Marketing, Sales, Warranty teams.

Subject: **Commercial- Condenser Fan Motor Mounting Ring Locations and Torque**

Product/s: Select 27.5-50T All Brands, YH/YV, UH/UV, TH/TV, JH/JV
Premier 25-80T All Brands, GZ, GV, GT

Summary: Testing has determined that condenser fan motor mounting on these products is critical not to damage the motor housing and cause premature motor failure.

Dear valued customer:

This letter is intended to provide information to be used when replacing a condenser fan motor in the field to ensure that damage isn't done to the new motor. After some research and testing the locations of the two motor mount rings have been determined to be critical not only for properly supporting the condenser fan motor but to do so without causing damage to the motor housing. The following data is provided to support these test results and should be followed to provide best possible life from a replacement motor.

The above-listed products use two condenser fan motor horsepower's (1hp and 2hp). Ring locations are determined in the same manner for both motors. The motor manufacturer uses stake points to retain the stator inside the motor housing. These stake points are easily identified on the outside of the motor and resemble dimples in the housing as shown in the inset of figure 1 on the following page. The lower mount ring is to be located between the first and second stake points as indicated in this same inset. The second ring is to be mounted 2" above the first ring. These locations will place the rings within the stator of the motor where the motor housing is most rigid. Tighten the nuts for each ring per the specification shown in figure 2 of 1.25" from the center of the eyelet to the tip of the stud, this will apply the proper torque to secure the motor without damage.

Warm regards,

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Use this diagram as reference when replacing a condenser fan motor on Select or Premier to correctly locate mount rings and torque the rings properly.

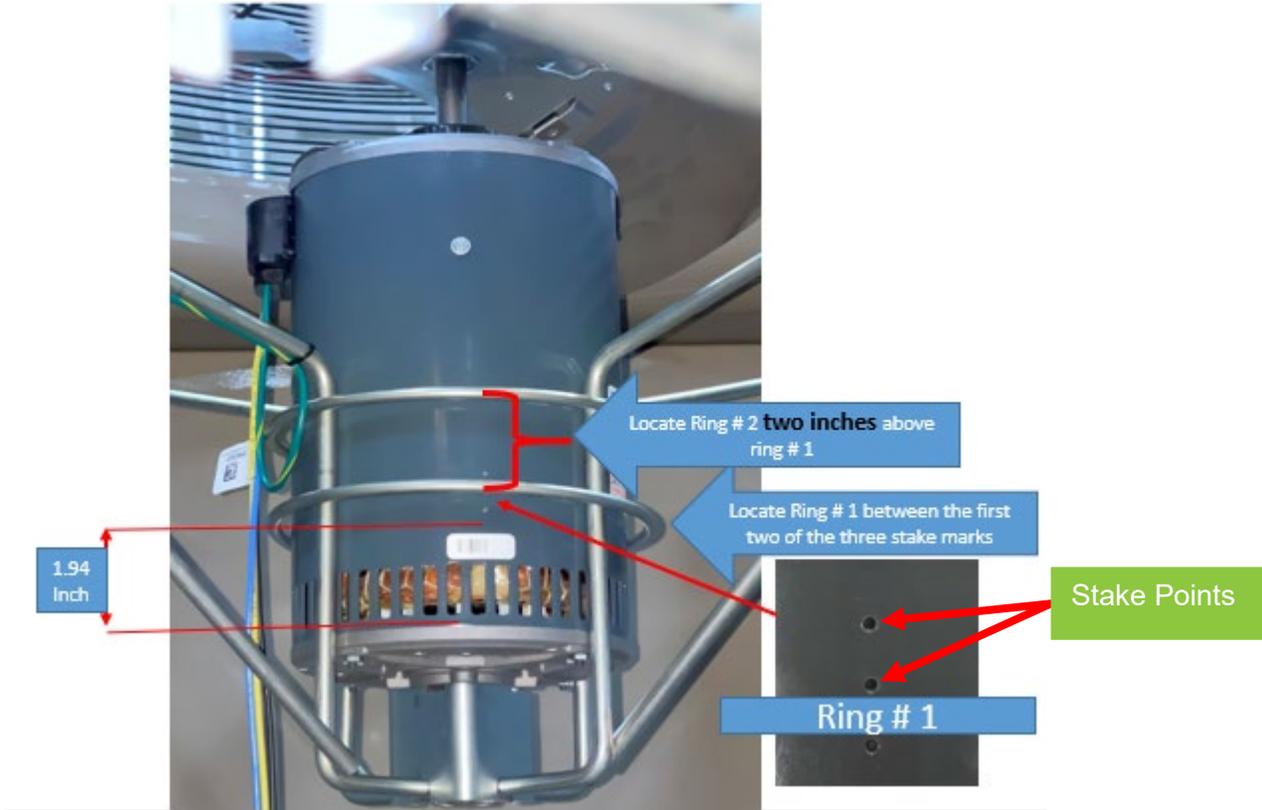


Figure 1

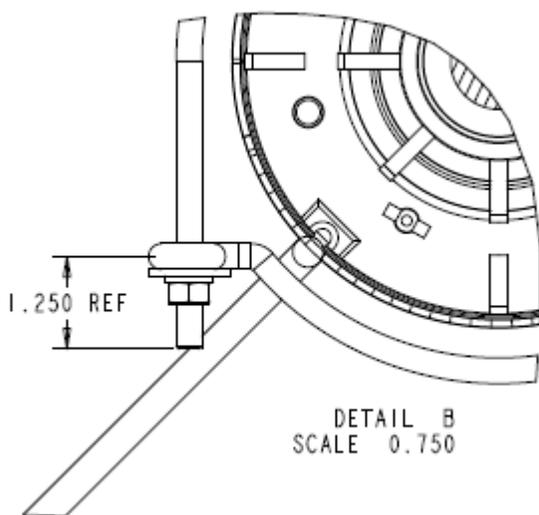


Figure 2