

TECHNICAL INFORMATION COMMUNICATION



Quality and Continuous Improvement

Number: TIC2013-0001

Date: 7/1/2013

Title: New Condensing Furnace Trap Attachment Screw

Product Category: Gas Furnaces

Products Affected

New condensing gas furnaces

Situation

Installers are breaking the condensate trap attachment screw or mounting post when re-orienting the condensate trap. This results in a condensate leak where the trap seals to the collector box.

Technical Information

To avoid breaking the condensate trap mounting post or creating a leak between the condensate trap and the collector box, only use hand tools to tighten the trap attachment screw. Do not use a power tool to tighten the trap attachment screw. The maximum torque that can be applied to the trap attachment screw is 20-inch pounds, which is exceeded by most power tools.

The trap attachment screw is designed to bottom out in the brass insert to prevent over-compression of the seal (figure 1 & 2). The brass insert is located in the plastic mounting post on the collector box (figure 3). Over compressing the closed cell foam gasket (figure 1) could rupture the cells and allow condensate to seep through the gasket. By using hand tools to remove and install the attachment screw for the trap, you avoid breaking the screw or trap mounting post.

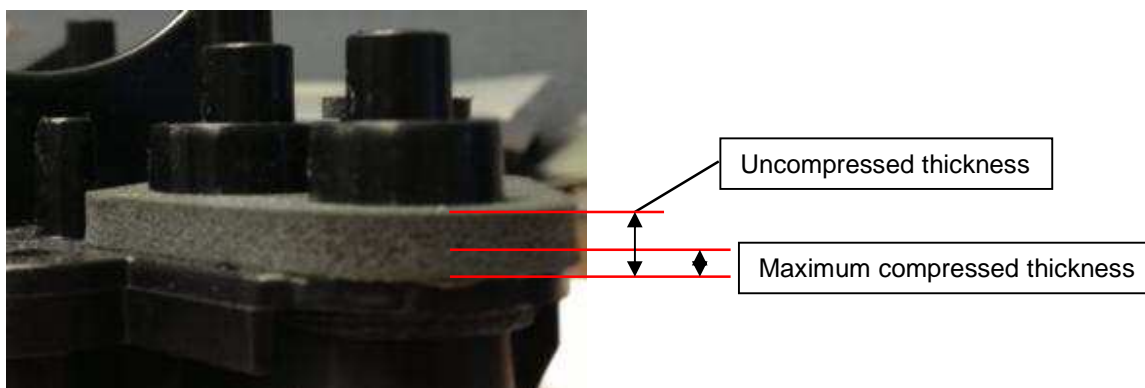


Figure 1

Only trained and qualified personnel should design, install, repair and service HVAC systems and equipment. All national standards and safety codes must be followed when designing, installing, repairing and servicing HVAC systems and equipment. It is the responsibility of the Dealer to ensure local codes, standards, and ordinances are met.

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Figure 2: Bottom of brass insert in plastic mounting post



Figure 3: Plastic mounting posts

References

None

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