



GE APPLIANCES
a Haier company

ICM Soft Start Removal Instruction

ARC – ARH models

October 2024

Rev 1



For use by qualified service technicians only
Follow all applicable safety procedures while performing the ICM soft start removal

ROOFTOP RV AC MODEL NUMBERS

This procedure applies to the following model numbers with ICM Controls ICM870-16A-BH5400 “soft start” modules installed:

ARC13MACB	ARC13MACW
ARC13MHCB	ARC13MHCW
ARC15MACB	ARC15MACW
ARH13MHCB	ARH13MHCW
ARH15MACB	ARH15MACW

Safety Warning/Hazard

This procedure is intended to be performed by a qualified servicer!

The equipment involved in this procedure retains and/or conducts electrical current and poses a risk of electric shock. All applicable safety procedures should be followed, including (but not necessarily limited to) taking all steps to disconnect all power (115V AC and 12VDC to the air conditioner:

- Set the RV's 12V main electrical disconnect to "Off."
- Set the generator and the inverter to "Off."
- Unplug and stow away the shore connection.
- Set the RV's main breaker set to "Off."
- Use a multimeter to verify that all power to the unit is off and that it is safe to proceed.
- Wear proper protective equipment to protect from cut hazards and eye injury.
- Wear/utilize proper fall protection when on the roof of the RV.



**Cut Resistant
Gloves**



**Composite
Boots**



**Safety
Glasses**



Applicable Safety Equipment



**Cut – Resistant
Sleeve**



**Electrically
Rated Gloves**



Fall Protection

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Tools Needed

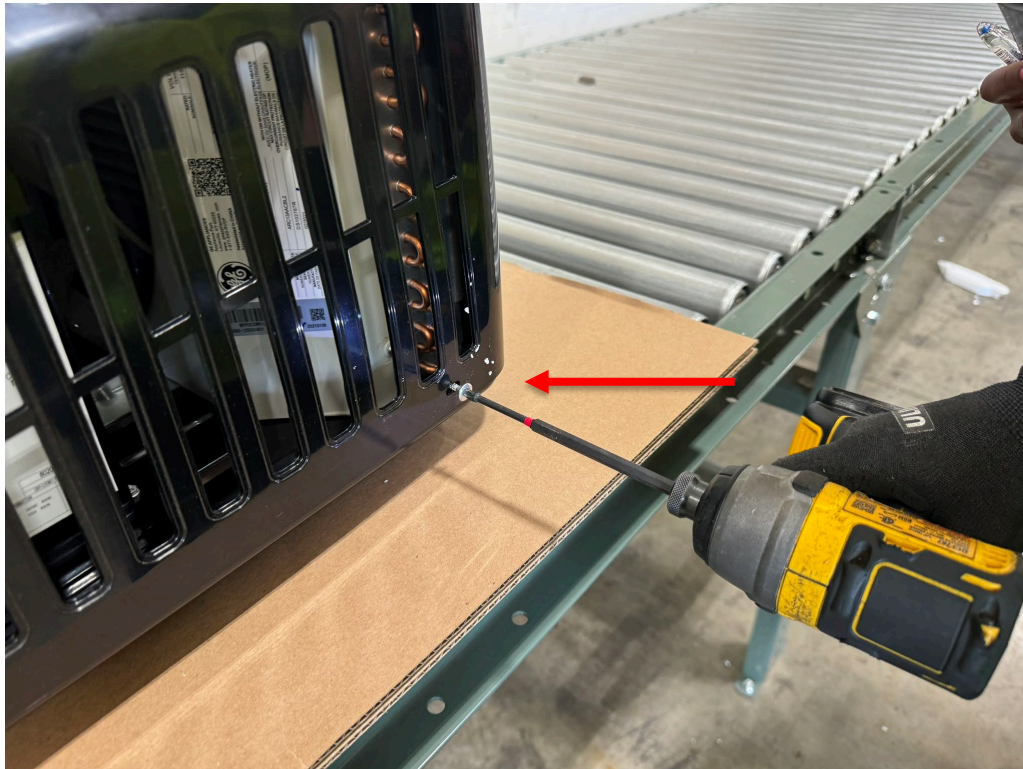
- #2 Phillips Head Screwdriver/bit
- 1/4" Nut Driver/Bit
- Needle Nose Pliers



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Shroud Removal

Remove 4-5 outer screws



Lift Shroud



Note: Retain shroud screws for reinstallation

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EPP Foam Cover Removal

Lift EPP top foam from the bottom to separate



Note: Retain EPP foam for reinstallation

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Soft Start Detachment

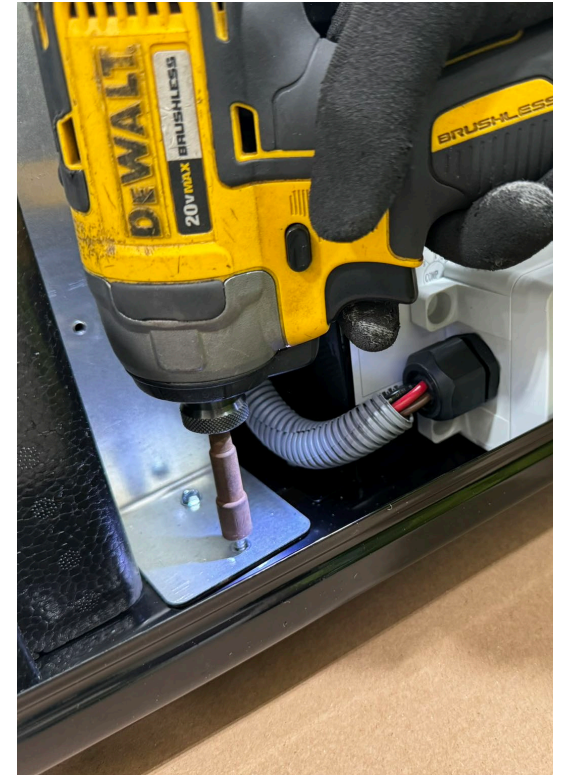
Step 1: Remove 2-4 screws retaining soft start using 1/4" nut driver



Step 2: Lay soft start side down



Step 3: Remove soft start bracket



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Electrical Box Cover Removal

Step 1: Remove 4 Phillips-head screws



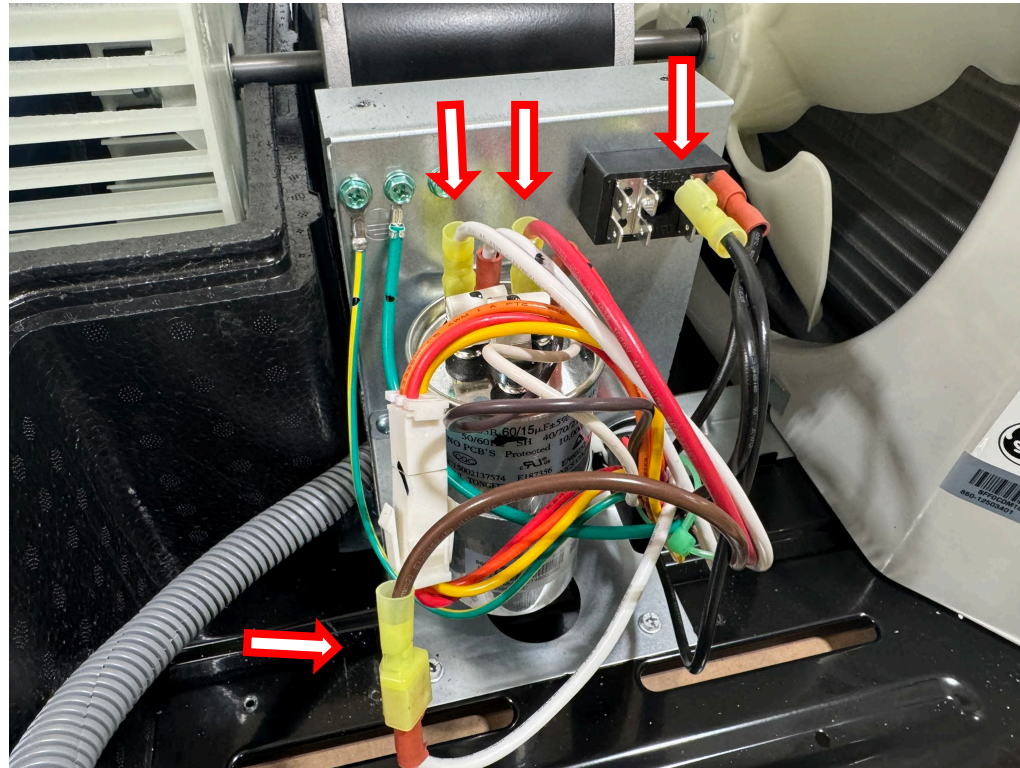
Step 2: Lift the cover up away from electrical box



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Wire Disconnect to Remove Soft Start

There are 4 wires connected to the soft start (white, red, black and brown) that must all be removed



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Wire Disconnect to Remove Soft Start

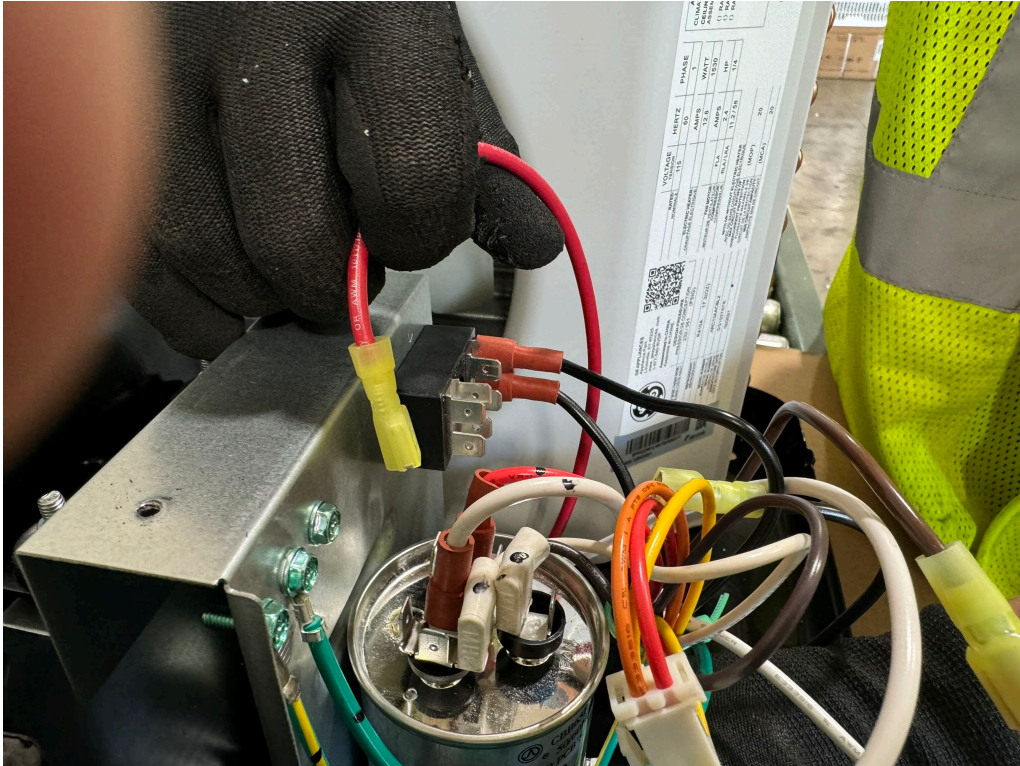
Step 1: Remove soft start's BLACK wire at the terminal



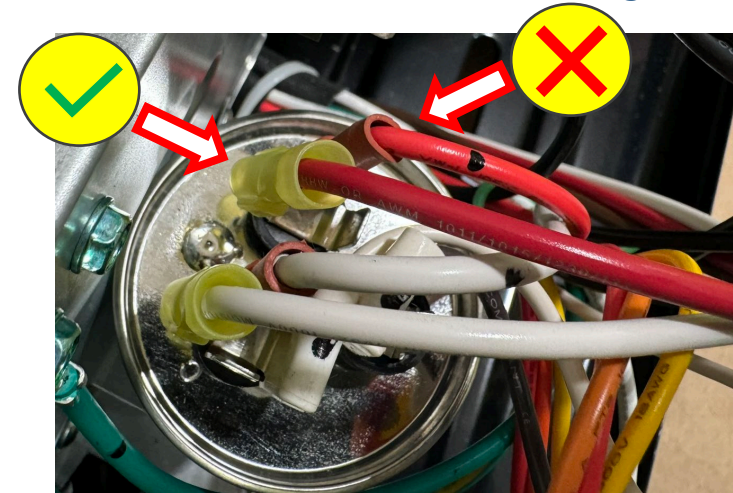
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Wire Disconnect to Remove Soft Start

Step 2: Remove soft start's RED wire at capacitor



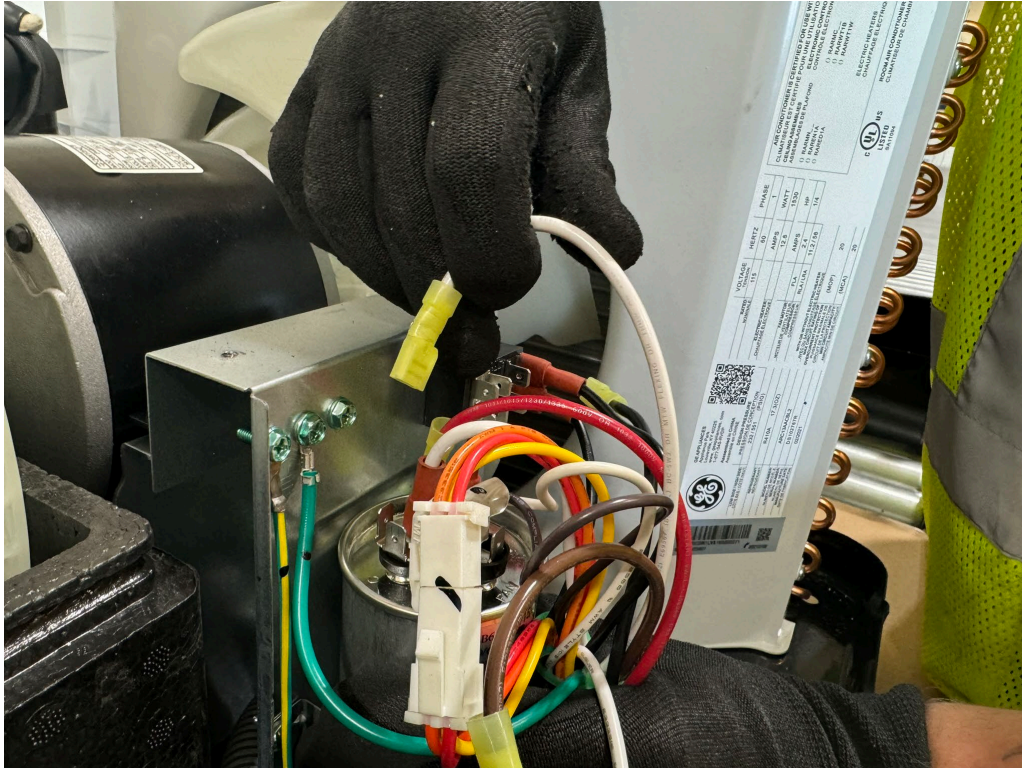
Do NOT remove the other RED wire connected to the AC



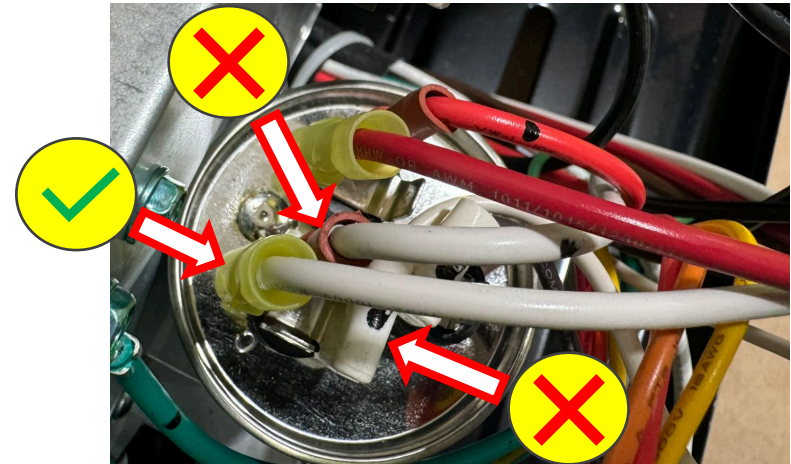
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Wire Disconnect to Remove Soft Start

Step 3: Remove soft start's WHITE wire at Capacitor



Do NOT remove the other 2 WHITE wires connected to the AC

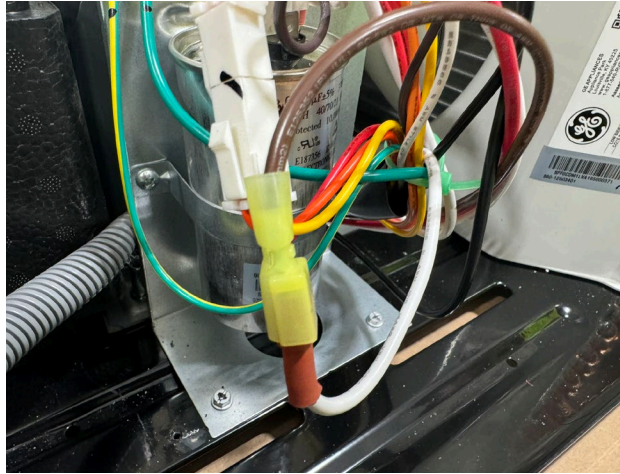


Wire Disconnect to Remove Soft Start

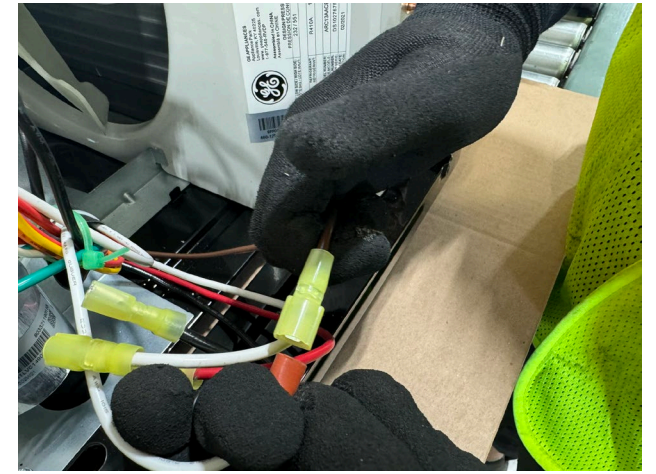
Step 4:

1. Locate the BROWN wire of the soft start connected to a WHITE wire.
2. Pull the 2 connectors apart
3. Route wires from behind the electrical box
4. Remove soft start completely from the AC unit

1.



2.



3.

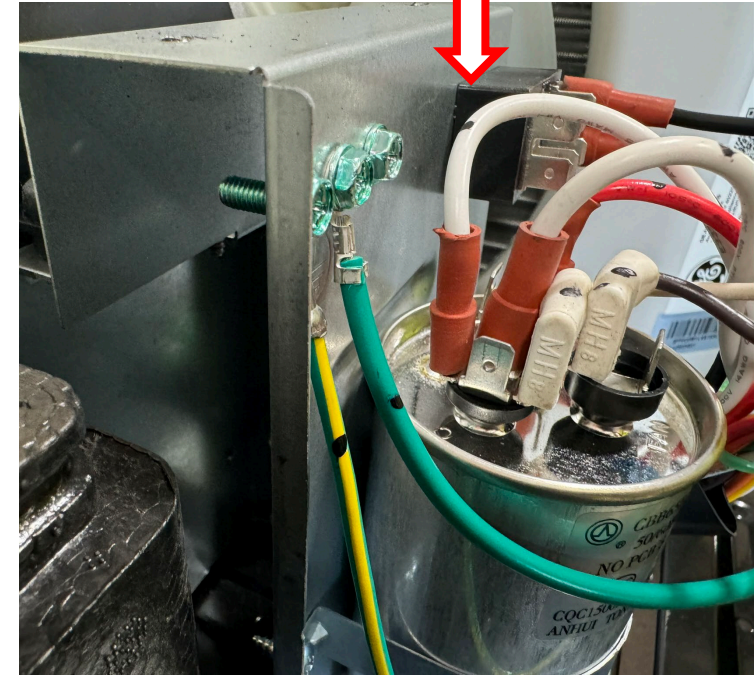
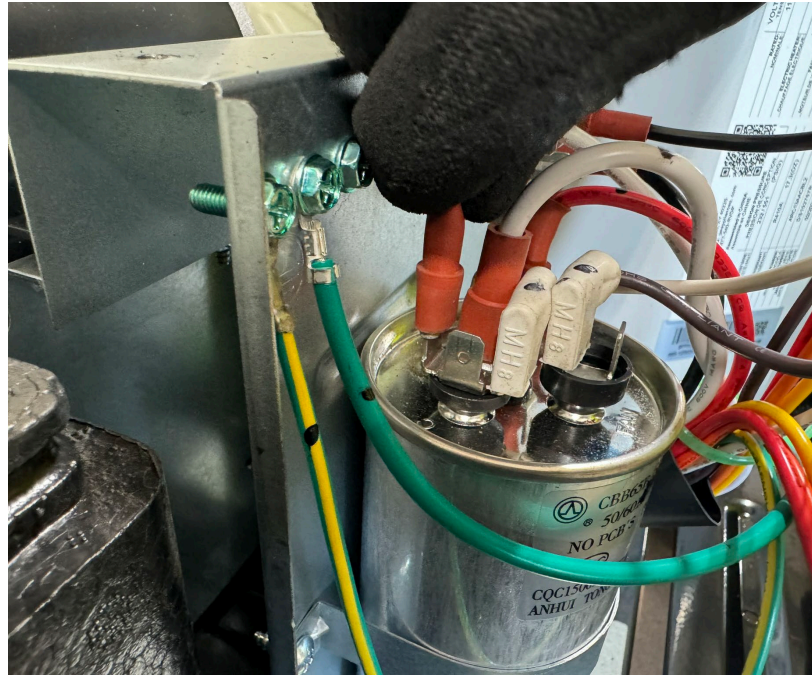
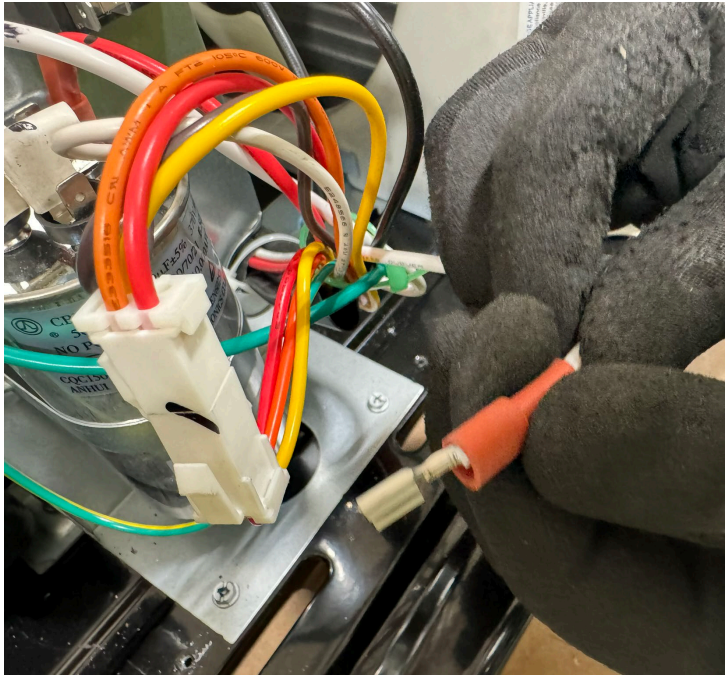


4.



Reconnect Neutral Wire

1. Connect WHITE wire (removed from connector to BROWN wire) to capacitor
2. Make sure the locking spade is secure with a gentle tug
3. Reinstall the white sheath over the locking connector

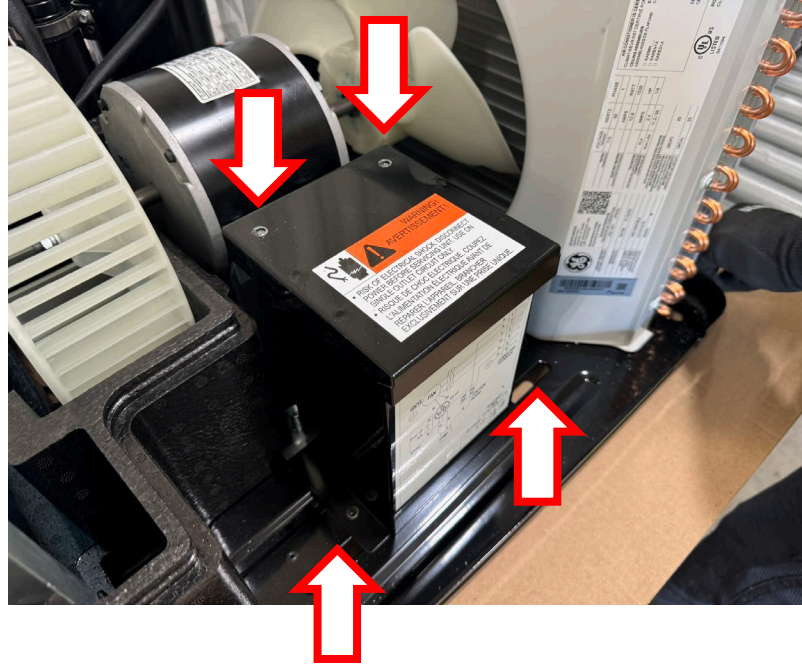
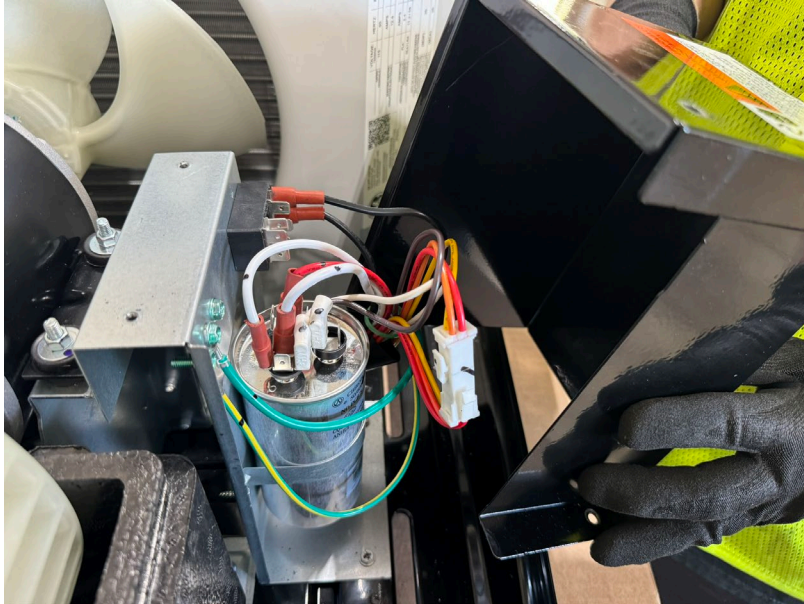


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Control Box Cover Installation

Set cover back in place while ensuring the wires are tucked inside the control box properly and that the screw holes are aligned.

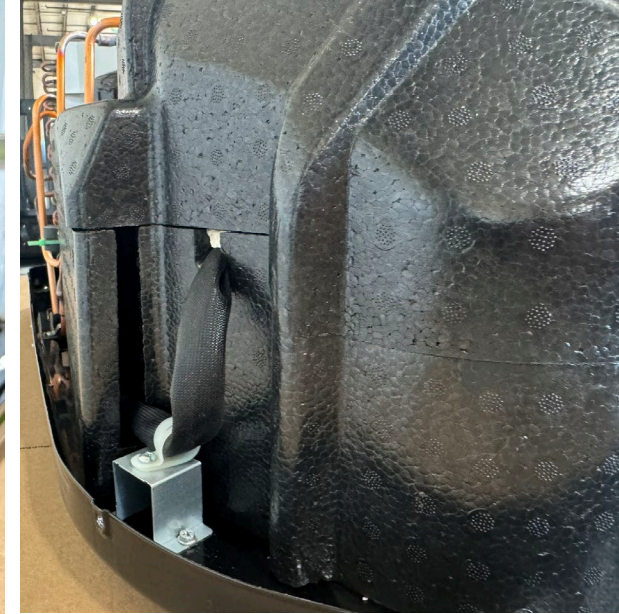
Reinstall the 4 Phillip-head screws.



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Install EPP Foam

Align the EPP Foam cover with the base and replace
Inspect cover from all sides to confirm proper alignment



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Install Shroud Cover

Reinstall the top shroud.



Attach 4 screws to the base.



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