

SOFTSTARTRV Installation

**For DOMETIC
BRISK 1 & II**



Open The Air Conditioner Cover

All installation is done inside the cover of the air conditioner on top of the RV.

NOTE 1 The first step is to turn off power to the RV.

NOTE 2 The cover is held in place with four screws, two on each end. Remove the four screws and remove the cover. Place the cover and screws out of the way so you can safely work on the air conditioner.



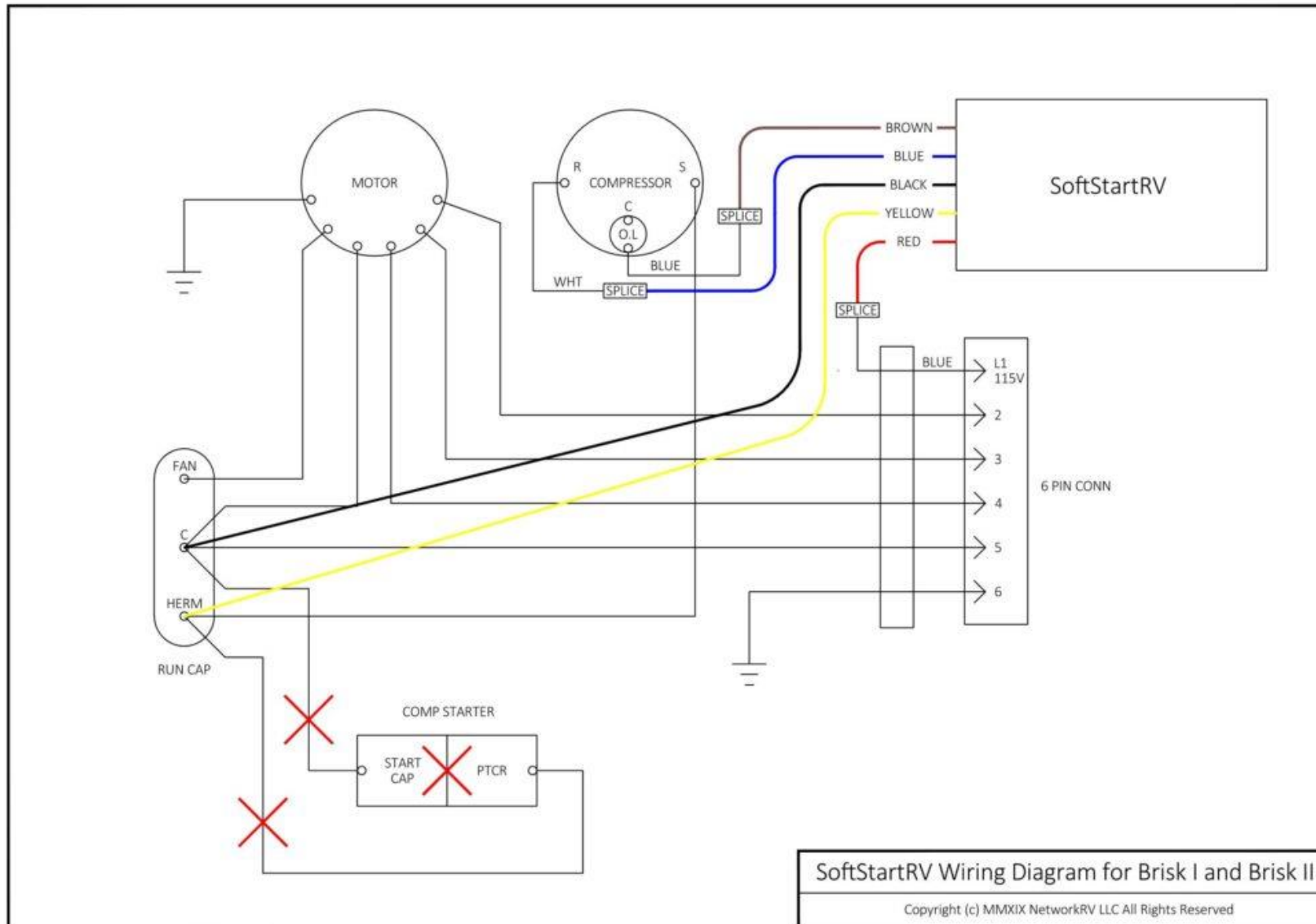
HIGH PROFILE



LOW PROFILE



BRISK I & II WIRING DIAGRAM



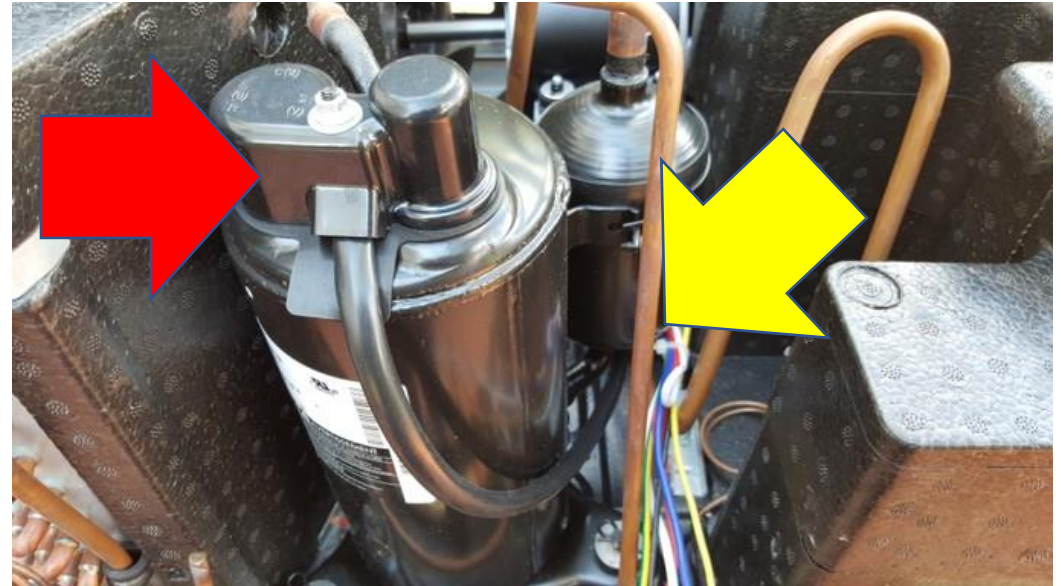
Note-Compressor Blue Wire

- Identify the Blue wire from the compressor
- This will connect to the thermostat relay
- You will make that connection later
- The blue wire will usually go into the electric box containing the run capacitor.
- Some models have a control board inside this electric box and the blue wire will connect to a relay on the control board.
- Other models do not have a control board and the blue wire leads through this electric box to the bottom of the air conditioner.



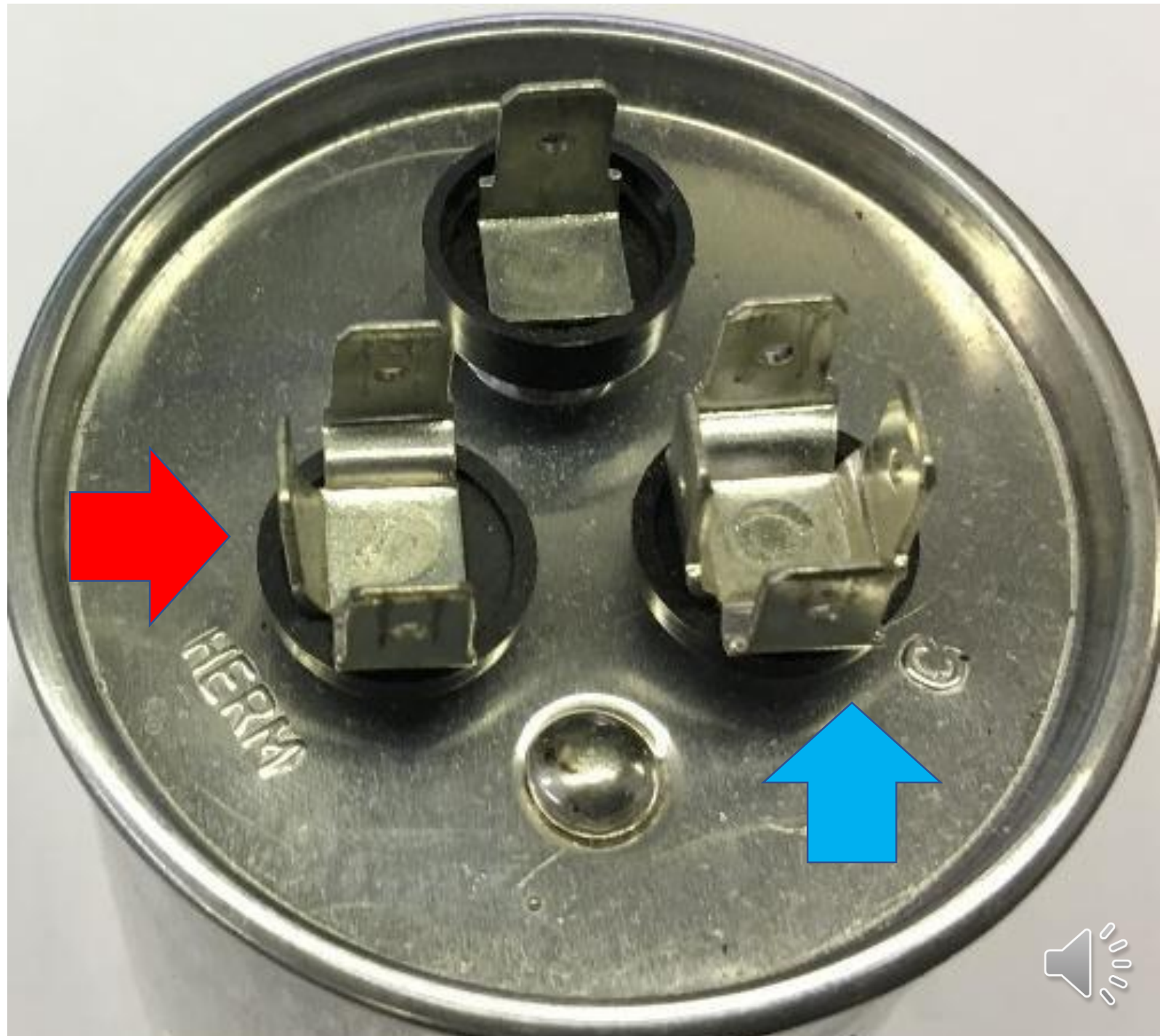
Locating & Recognizing The Compressor

- The compressor is shown in photo.
- The red arrow points to the cap over the compressor wiring.
- Do not remove this cap for installation. Follow the 3 wires from the cap
- Follow the black wire pointed to by the yellow arrow until the wires exit the black wire jacket.
- The wires are red, blue, and white.
- The red and white wires lead to the run capacitor inside the electric box.
- Follow the wires to the electric box in your air conditioner.
- Note: the wires may not have a black wire jacket like this picture and can exit the compressor cap as three separate wires colored blue, white and red.



Run Capacitor Terminals

- All air conditioners use a split style run capacitor as shown in the picture.
- Terminal identifiers are usually stamped into the top of the capacitor.
- The “C” terminal or common terminal has several white wires plugged into it. BLUE arrow
- The HERM terminal has one or more red wires connected. RED arrow
- Although not visible, the FAN terminal is also labeled and has a single brown wire connected



Brisk II unit uses black foam instead of metal framework.



One Suggested Mounting Location

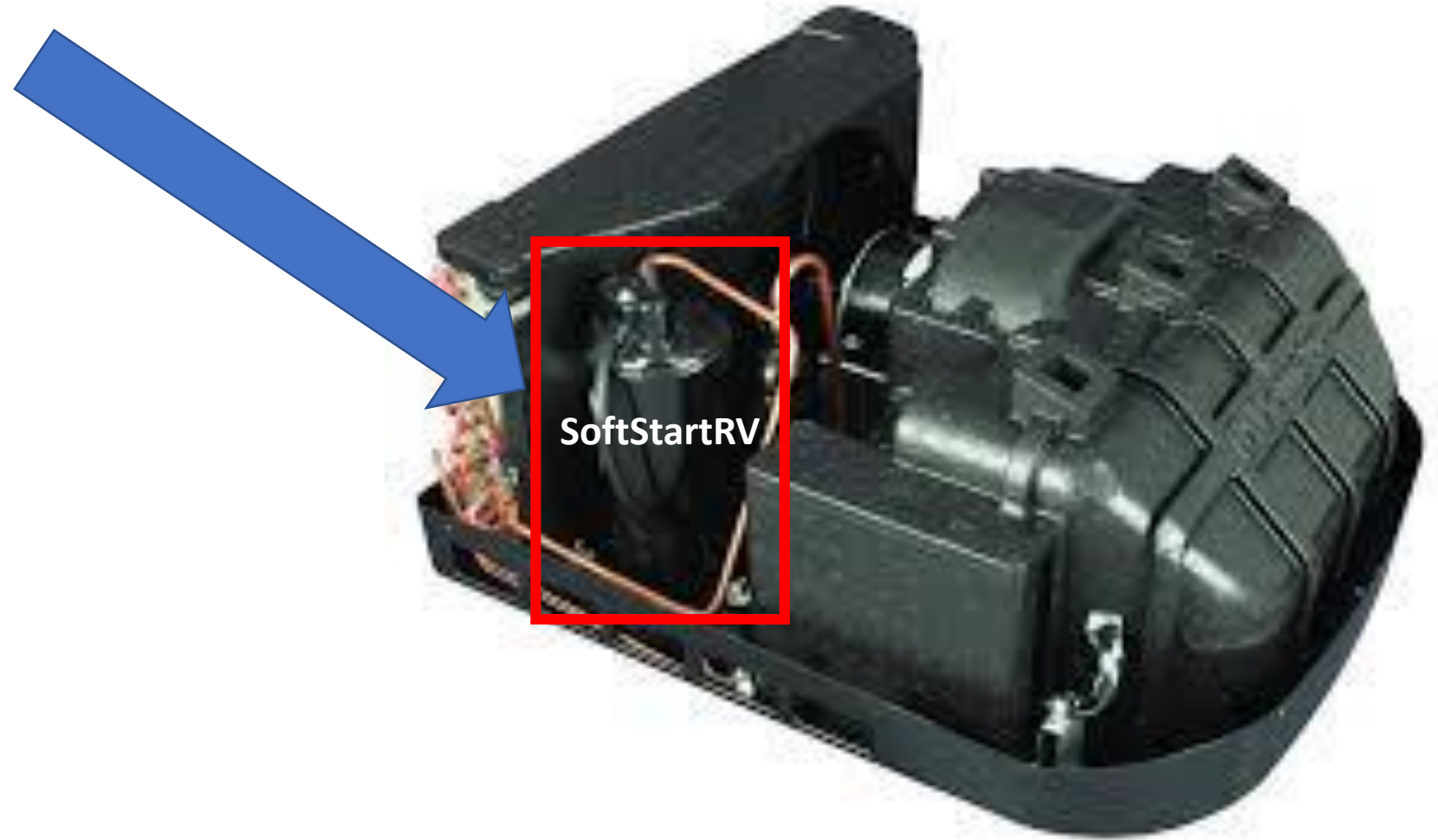
One suggested mounting location for SoftStartRV.

See RED Box

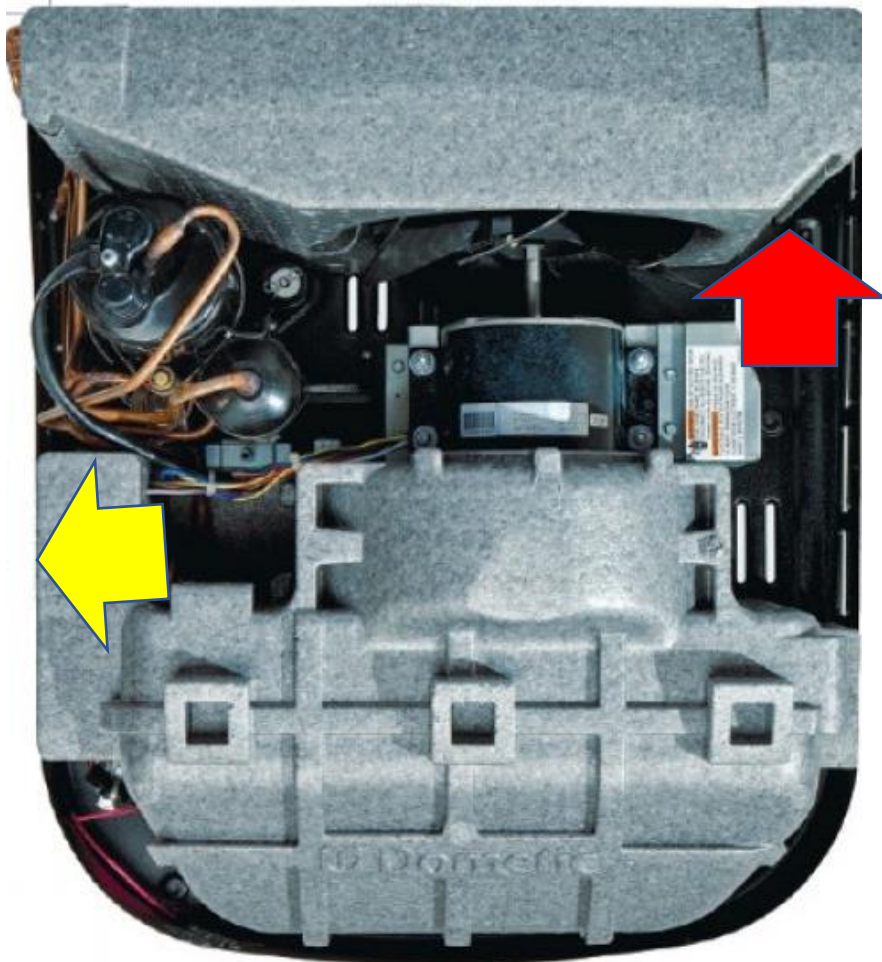
It can also be mounted vertically next to the electric box with the wire exit on the bottom.

Always install SoftStartRV with the wire exit parallel to the ground or pointing down.

Never install SoftStartRV with the wire exit pointing up, as it may collect moisture.



Another View: Install SoftStartRV In One Of These Locations



1. First, figure out where you will install the SoftStartRV unit, then **BEFORE** you tape the unit to the spot, proceed with the wiring steps next.
2. RED & YELLOW arrows point to 2 different locations to install.

**After the wiring is completed,
then secure the SoftStartRV unit into it's place:**

Clean the surface of the mounting location with the alcohol pad included in the installation kit.

After the wiring is completed, peel tape seal on the back of the unit and mount the box.

Screws are provided in the install kit to secure and eliminate the unit loosening due to vibration.

Never mount the SoftStartRV in the hot air exhaust from the condenser fan.



Making The Connections



Recommend you use only end splice connectors for connecting one wire to another



Due to vibration wire nuts can come off



Use connectors in the install kit provided. Don't use automotive connectors because they're not rated for line voltage



7 Steps To Install The SoftStartRV

1. **Connect** the BLUE wire (using a splice) from the SoftStartRV to the WHITE wire from the Compressor “R”
2. **Connect** the YELLOW wire from the SoftStartRV to the HERM terminal of the Run Capacitor. The RED wire from the Run Capacitor Stays in place.
3. **Connect** the BLACK wire from the SoftStartRV to the “C” terminal of the Run Capacitor.
4. **Connect** the RED wire (using a splice) from the SoftStartRV to the BLUE wire going to L1.
5. **Connect** the BROWN wire (using a splice) to the BLUE wire going to the “C” of the Compressor.
6. **Disconnect** ALL WIRES to and from the PTCR and the START CAPACITOR.
7. **Turn** power back on & run the Fan first. Then, set the thermostat lower. Then, start the A/C.



White Compressor & BLUE SoftStartRV wire splice

BLUE WIRE STEP 1 Follow the white wire from the compressor into the electric box to the top of the run capacitor as indicated by the YELLOW arrow.

BLUE WIRE STEP 2 Disconnect the white wire and cut off the connector on the end. Strip about ½ inch of insulation from the white wire and strip ½" of insulation from the BLUE wire from SoftStartRV.

BLUE WIRE STEP 3 Twist both wires together and crimp them with an end splice connector.

White wire

Note: Some air conditioners have several white wires on the terminal group. Be sure to follow the white wire from the compressor completely back to the run capacitor



Another View Of The White Compressor & BLUE SoftStartRV Wire Splice

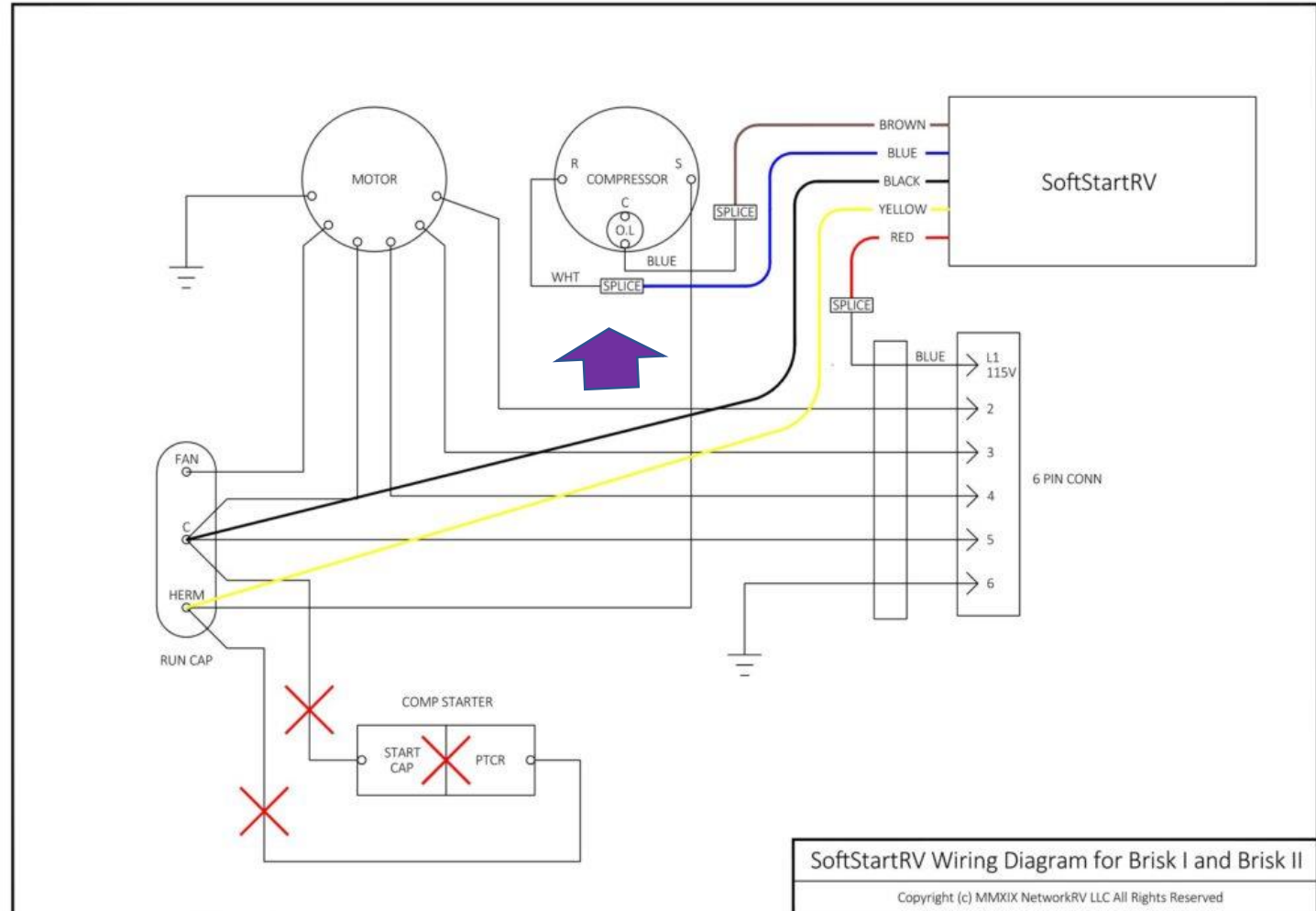
OVERVIEW OF BLUE WIRE STEP 3

Connect the BLUE wire from the SoftStartRV to the white compressor wire.

This shows the splice connection.

This white wire from the compressor was removed from the C terminal of the run capacitor and connected to the BLUE wire from the SoftStartRV.

SEE PURPLE arrow



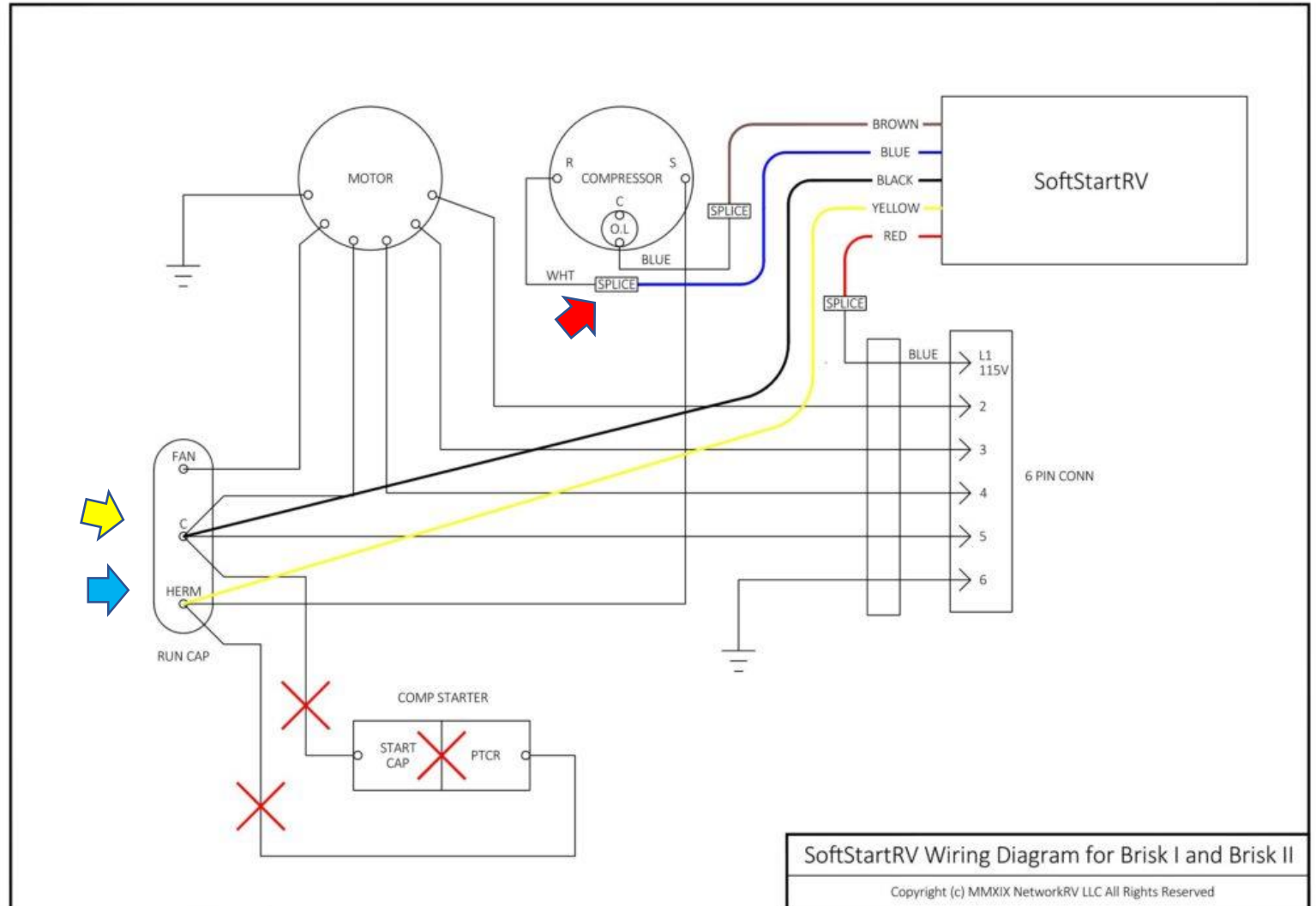
How To Connect the Blue, Yellow, Black Wires

STEP 1 Connect the BLUE wire (using a splice) from the SoftStartRV to the WHITE wire from the Compressor "R" RED ARROW

STEP 2 Connect the YELLOW wire from the SoftStartRV to the HERM terminal of the Run Capacitor. BLUE ARROW

The RED wire from the Run Capacitor Stays in place.

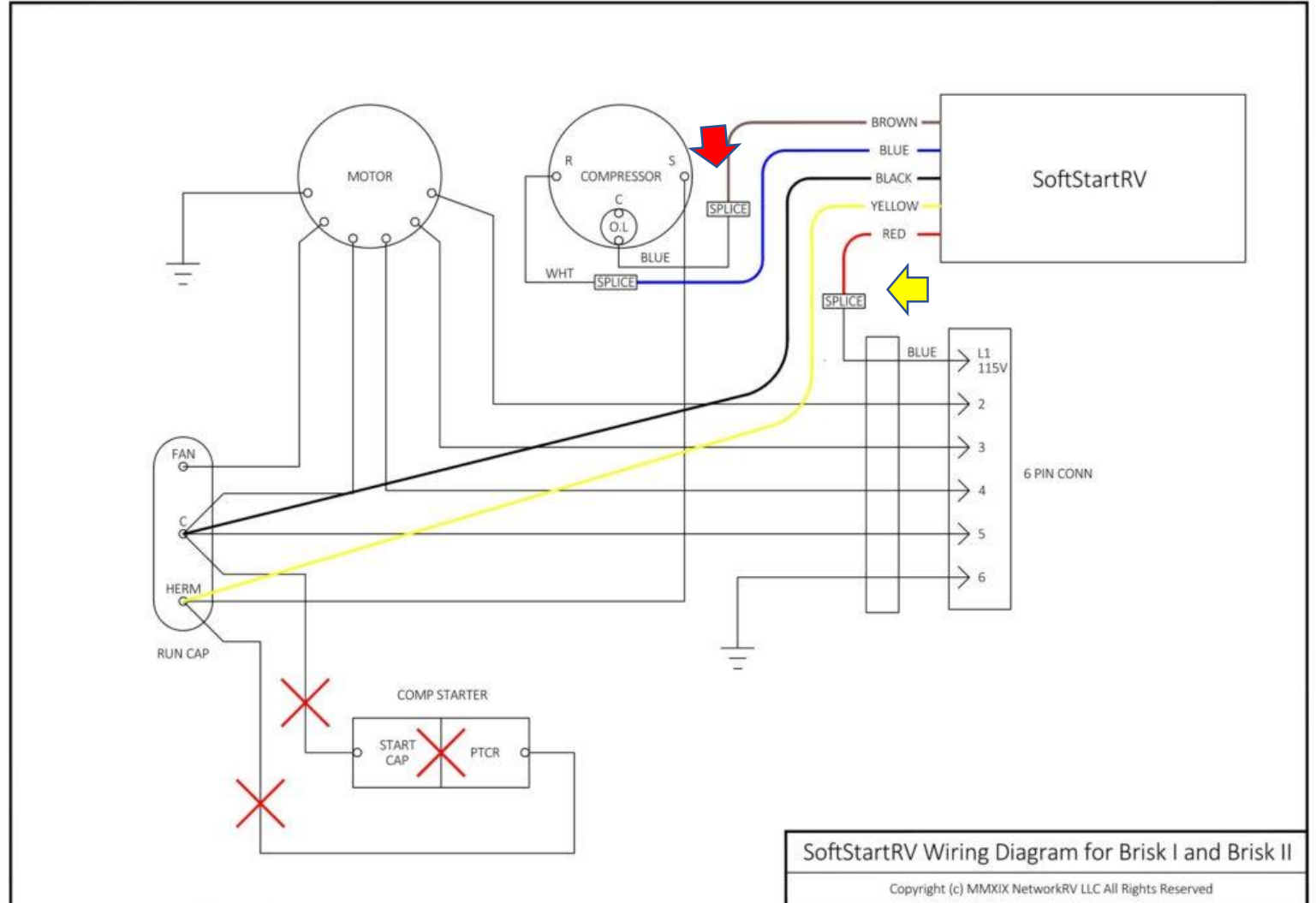
STEP 3 Connect the BLACK wire from the SoftStartRV to the "C" terminal of the Run Capacitor YELLOW ARROW



How To Connect the Red & Brown Wires

4. **Connect** the RED wire (using a splice) from the SoftStartRV to the BLUE wire going to L1. **YELLOW ARROW**

5. **Connect** the BROWN wire (using a splice) to the BLUE wire going to the "C" of the Compressor. **RED ARROW**



Verify If You Have Start Components

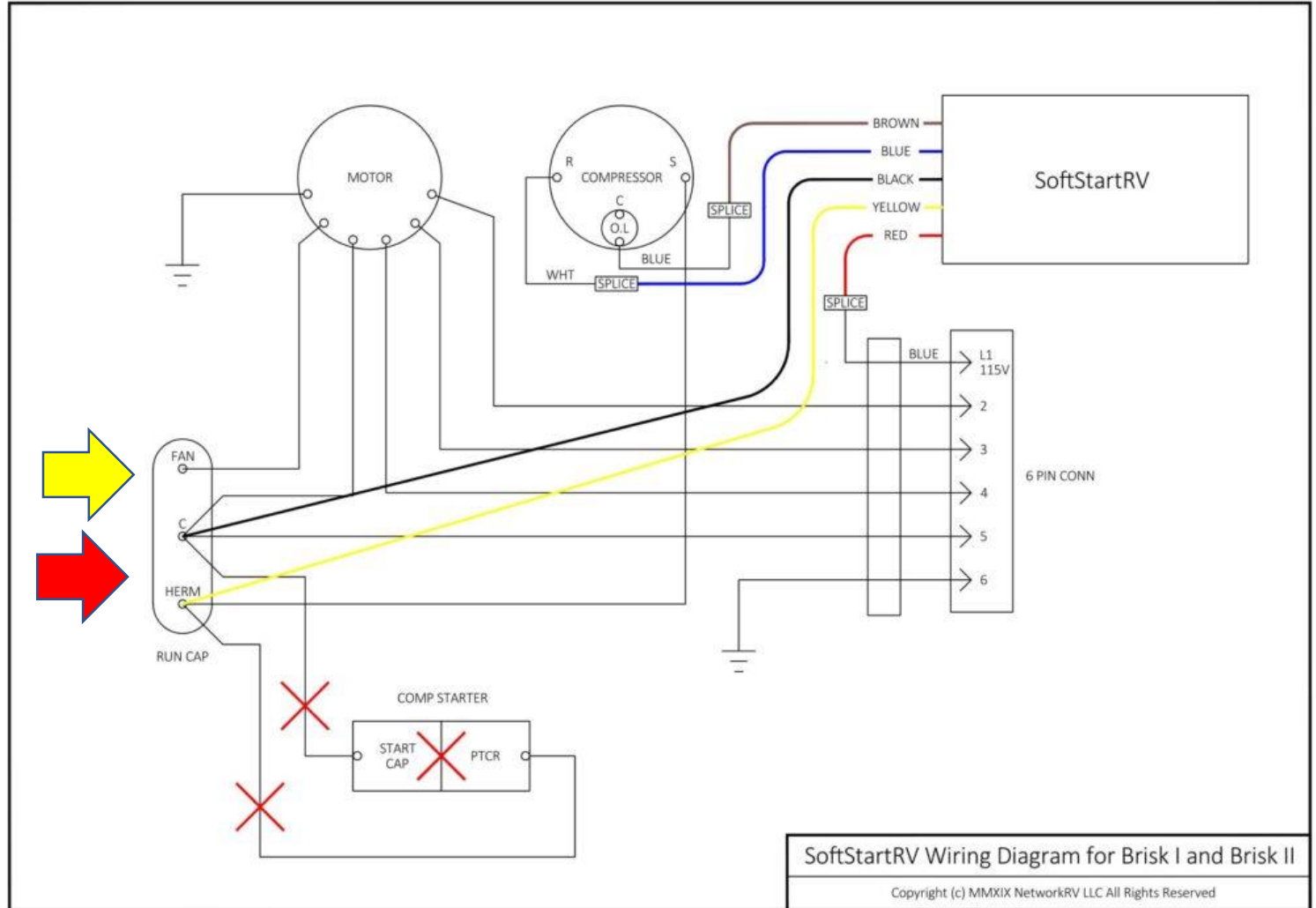
VERIFY STEP 1

FIND RUN CAPACITOR

See YELLOW arrow

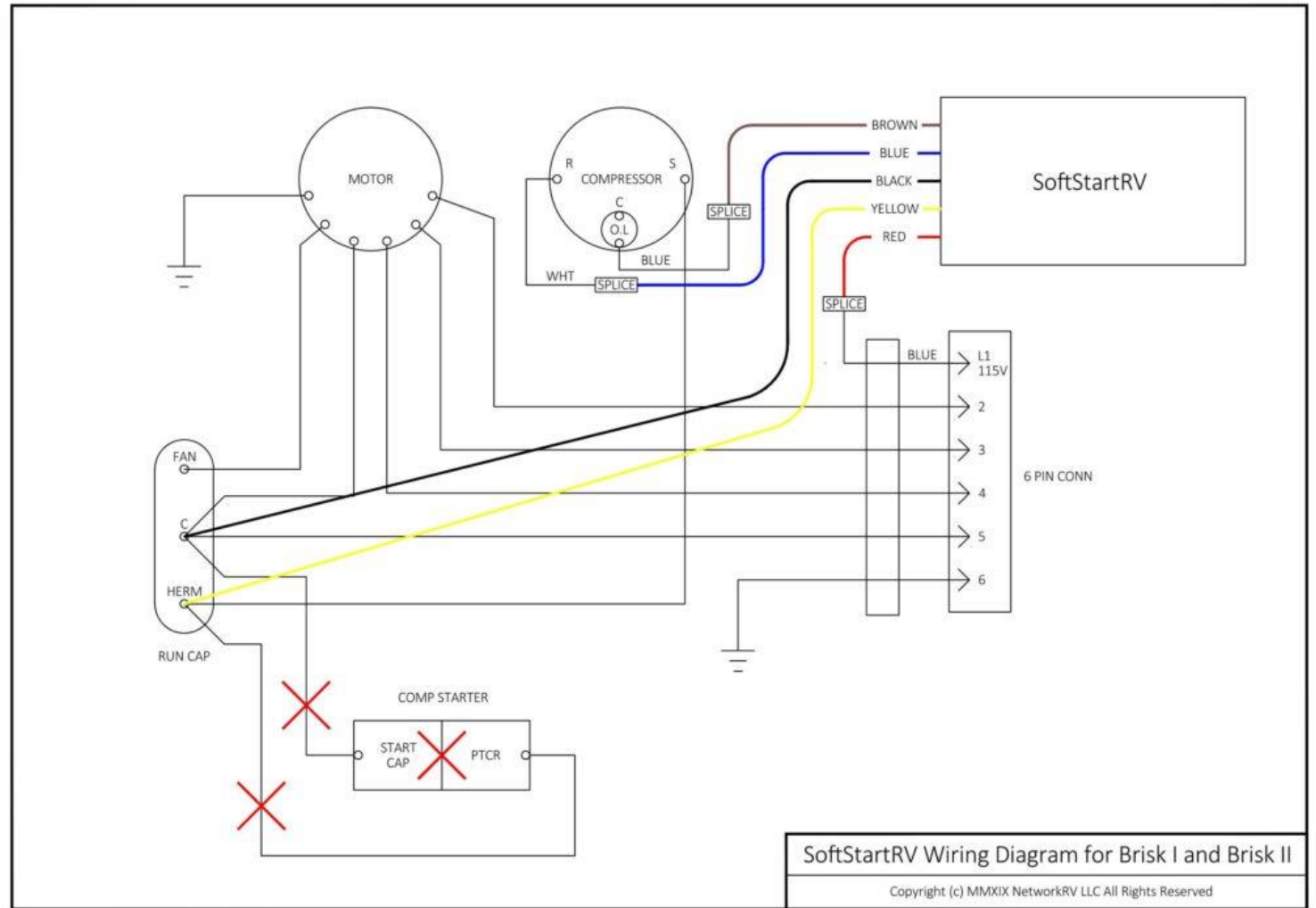
To verify if you have start components, check the red wire terminal group also called HERM terminal on the run capacitor.

VERIFY STEP 2 See RED arrow for HERM terminal



Most Brisk II systems do NOT have start components. If you have a previously installed hard start-disconnect it

- **SEE RED Xs in the diagram**
- These components form a circuit that connects from the white wire group on the run capacitor to the red wire group on the run capacitor.
- **These wires need to be disconnected.**



Close The Air Conditioner Cover

- Replace the four screws, two on each end
- Turn ON the power to the RV
- Turn the breaker for the A/C back on
- Set the thermostat set point to below ambient temperature
- Turn on the fan to low setting
- Turn ON Cooling

