

TECHNICAL INFORMATION COMMUNICATION



Quality and Continuous Improvement

Number: TIC2013-0013

Date: 11/8/2013

Title: Transition to 440 Volt Run Capacitors

Product Category: Air Conditioners/Heat Pumps

Products Affected

Residential Split System Air Conditioners and Heat Pumps

Situation

The above products will have the run capacitor rated voltage changed from 370 volt to 440 volt. This change has been identified as a general reliability improvement for certain areas of the country that have poor power supplies and high ambient temperature conditions.

Technical Information

- The timing of this implementation into production is:
 - CMX products ("X" serial numbered) is 4th quarter 2013
 - CVL products ("E" serial numbered) is 1st quarter 2014
- A PMB13-122 from RC will be released.
- RC will include a note in EPIC to identify the capacitor that was originally used in the product.
- There is no need to rework existing operational units.
- To retrofit a failed 370 volt capacitor to a 440 volt capacitor, there may be certain instances when other components need to change.
 - The capacitor strap may need to be increased in size to accommodate the diameter of the 440 volt capacitor.
 - Depending on the orientation (straight up or angled) of the contactor 24 volt terminals and proximity to the capacitor, the 24 volt contactor leads should be changed to the insulated version on the side closest to the capacitor. The photo below shows an example of an angled terminal. The brown/yellow lead is originally uninsulated and should be insulated as the blue lead is shown.
 - It is important to note, capacitor VAC value can be increased from 370 to 440 but cannot be decreased.

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.

TECHNICAL INFORMATION COMMUNICATION



Part Numbers:

370V			440V		
Capacitor FAP p/n	RC p/n	Strap p/n	Capacitor FAP p/n	RC p/n	Strap p/n
HC98JA026	P291-2553RS	317739-302	HC98KA026	P291-2554RS	317739-302
HC98JA030	P291-3033R	317739-302	HC98KA030	P291-3034R	317739-302
HC98JA031	P291-3053RS	317739-302	HC98KA031	P291-3054RS	317739-302
HC98JA032	P291-3073RS	317739-302	HC98KA032	P291-3074R	317739-302
HC98JA036	P291-3553RS	317739-302	HC98KA036	P291-3554RS	317739-302
HC98JA041	P291-4053RS	317739-302	HC98KA041	P291-4054RS	317739-302
HC98JA045		317739-302	HC98KA045	P291-4534R	317739-302
HC98JA046	P291-4553RS	317739-302	HC98KA046	P291-4554RS	317739-303
HC98JA046	P291-4553RS	338443-401	HC98KA046	P291-4554RS	317739-303
HC98JA047	P291-4573RS	338443-401	HC98KA047	P291-4574RS	317739-303
HC98JA051	P291-5053RS	317739-302	HC98KA051	P291-5054RS	317739-303
HC98JA056	P291-5553RS	317739-303	HC98KA056	P291-5554RS	317739-303
HC98JA061	P291-6053RS	317739-303	HC98KA061	P291-6054R	317739-303
HC98JA071	P291-7053RS	317739-303	HC98KA071	P291-7054R	317739-303
HC98JA072	P291-7073RS	317739-303	HC98KA072	P291-7074R	317739-303
HC98JA081	P291-8053RS	317739-303	HC98KA081	P291-8054R	317739-303
HC98JA082	P291-8073RS	317739-303	HC98KA082	P291-8074R	317739-303
RED indicates increased capacitor diameter					

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.