



**Tecumseh**

From: North America Product Management  
 To: Wholesale and OEM Customers  
 Date: May 29, 2019 (replaces April 12, 2019 bulletin)  
 Subject: AJ Electrical Box Potential Miswiring

## REVISED PRODUCT BULLETIN

### DESCRIPTION OF CHANGES

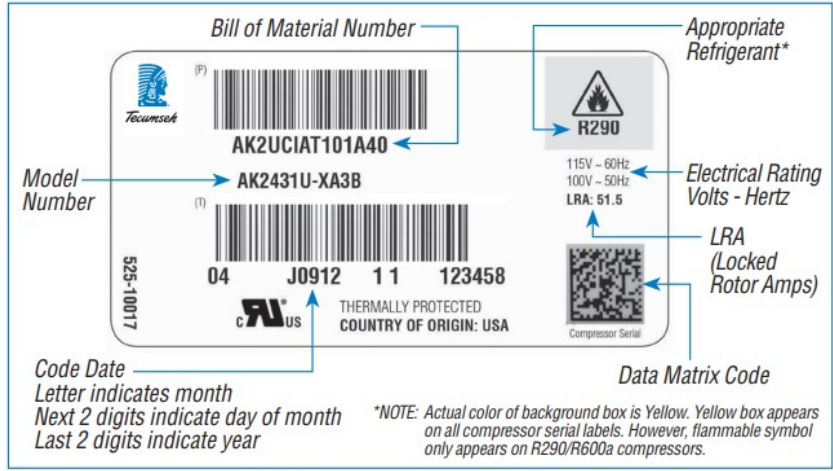
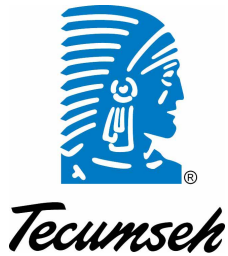
Tecumseh has identified a potential issue with relay wiring in specific AJ electrical boxes. All AJ compressor items (shown below) utilizing the AE1170-\*\*\*\* electrical boxes have been or should be placed on hold pending evaluation and/or correction for any product date code (serial number) 1/1/2019 or later (through 3/30/19). The asterisk signifies different variants of the AE1170 electrical boxes.

#### *AJ Compressor Item Numbers*

AJ201AT-188-B4	AJ137ET-434-J7	AJ604EF-436-B4
AJ303AT-336-B4	AJ202ET-188-J7	AJ604EF-436-J7
AJ135AT-336-J7	AJ202ET-206-B4	AJ605EF-436-B4
AJ135AT-433-B4	AJ202ET-206-J7	AJ605EF-436-B4Y
AJ201AT-188-J7	AJ202ET-426-C4	AJ605EF-436-J7
AJ201AT-426-B4	AJ801ET-361-B4	AJ605EF-443-B4
AJ201AT-426-J7	AJ801ET-418-J7	AJ779ET-361-C4
AJ250AT-188-A4	AJ801ET-418-S7	AJ135AT-434-J7
AJ250AT-188-J7	AJ801ET-431-B4	AJ201AT-435-J7
AJ250AT-432-B4	AJ801ET-431-J7	AJ250AT-435-J7
AJ250AT-432-B4Y	AJ801ET-441-J7	AJ303AT-434-J7
AJ303AT-165-B4	AJ532AT-124-B4	AJ202ET-435-J7
AJ303AT-165-B4Y	AJ532AT-124-B4Y	AJ801ET-446-J7
AJ303AT-336-J7	AJ532AT-336-B4	
AJ303AT-434-B4	AJ532AT-336-J7	
AJ131GT-193-B4	AJ532AT-430-B4	
AJ131GT-193-J7	AJ532ET-124-B4Y	
AJ137ET-193-B4	AJ303ET-336-B4	
AJ137ET-193-J7	AJ303ET-336-B4Y	
AJ137ET-205-B4	AJ303ET-336-J7	
AJ137ET-205-B4Y	AJ604EF-443-J7	

Tecumseh Compressor Company LLC

5683 Hines Drive • Ann Arbor, MI 48108 • Ph +1 734.585.9500 • www.tecumseh.com

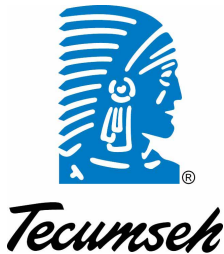


Example compressor serial label

**BACKGROUND**

Beginning January 2019, a specific quantity of AE1170-\*\*\*\* boxes were produced using incorrect drawings where these drawings had terminal numbering not matching the physical terminal locations on the relay. Product in inventory has been quarantined and is in-process of being corrected, however, several compressors and boxes have been shipped with incorrect wiring. Condensing units are not impacted as we determined that the operator was wiring based on the physical terminal locations on the relay.

See Page 3 example of the correct wiring configuration with the yellow wire from the compressor start winding wired to terminal 2 of the Potential Relay.



- Terminal 4**
- Black wire from L2
  - Black wire from Start Capacitor
  - Black wire from Run Capacitor
  - Red wire from Compressor Run Terminal

- Terminal 5**
- Black wire from L1
  - Black wire from Overload (Compressor Common Terminal)



- Terminal 1**
- Black wire from Start Capacitor

- Terminal 2**
- Black wire from Run Capacitor
  - Yellow wire from Compressor Start Terminal



*Tecumseh*

#### **IMPACT OF CHANGES**

The symptoms of the issue appear to be a no-start compressor. However, we are still evaluating additional signs of miswiring. Re-wiring will need to be done to the electrical boxes. Instructions are as follows:

- 1) Turn off all power to the compressor or system
- 2) Remove yellow wire from terminal 1 of the Potential Relay
- 3) Connect yellow wire to terminal 2 of the Potential Relay

If unable to perform re-wiring, please contact your Tecumseh Regional Sales Manager for shipment instructions.

#### **ADDITIONAL POINTS OF CONSIDERATION**

Please contact your Tecumseh Regional Sales Manager for more detail.