

## Xanbus Network Crossing with AEBus

CSB Number	855-0003
Date	December 14, 2020

### URGENCY



**HIGH:** Rework needs to be done by immediately



**MEDIUM:** Rework needs to be done by next possible occasion



**LOW:** Rework to be done if necessary



**GENERAL:**  
General Information

### PRODUCTS EFFECTED

AES Batteries with Xanbus Network Connections; 42-48-6650, 44-24-2800.

### SYMPTOM OBSERVED

If an AEBus connector is installed into the Xanbus port of the battery, a short circuit will occur and may cause the wire connector, the Y connector, or the battery port itself to heat up and deform.

### POSSIBLE CAUSE

Both networks utilize a different power supply configuration from the other. In this case the Xanbus creates a short circuit across the AEBus power supply and will heat up the connector until a wire or trace opens. (If Y connector is used, the trace internal to the connector is usually the first point of failure). At Discover we have extensively tested to ensure that this issue does not pose a risk to personnel or the rest of the system. While we have observed deformed connectors, none of our testing shows any thermal escape.

### FIELD CORRECTIVE ACTIONS

If these symptoms have been observed take the following steps:

- 1) Remove ALL cables and connectors in that communication string and discard.
- 2) Review the AEBus network connection on the battery and look for damage. If found contact Discover Battery for repair. (note: this issue is not covered under warranty since it is caused by human error)
- 3) Label all new cables and connectors properly.
- 4) Follow the owner's manual for proper communications connections.

## Supporting Information

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### REFERENCE DOCUMENTATION AND PROCEDURES

