

Tech Note

TX-E201 & TX-E231 Battery Clip Issue

Applies to Product with Date Code Prior to 18105

Revision 1.0

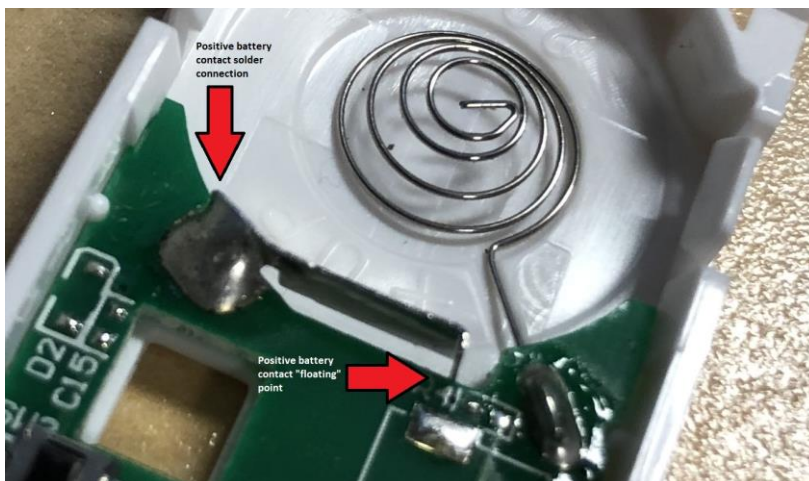
Release Date: 06/19/2019

Requirements:

- TX-E201 Door/Window Sensor with date code older than 18105 (i.e., 105th day of 2018)
- TX-E231 Door/Window Sensor with date code older than 18105

Battery Clip Issue:

1. Some TX-E201 and TX-E231 units with date codes prior to 18105 may appear to have a “dead” battery, even if battery voltage measurements suggest adequate capacity to operate the sensor.
2. The root causes of this condition have been isolated to two factors: A misalignment of the positive battery contact, and use of a metal material with insufficient stiffness for the positive battery contact.



3. The misalignment of the positive battery contact usually occurs at the factory during production, but can also occur due to product damage in the field. In the factory case, the positive battery contact can be soldered with incorrect alignment, due to inconsistent or incorrect use of the corresponding soldering fixture. The field misalignment usually occurs when the technician accidentally bends the flimsy positive battery contact away from the battery during battery insertion or extraction.

4. When the battery contact assembly is misaligned, the battery's positive electrode will not make proper contact with the sensor circuit, such that it can sustain normal sensor operation. This condition will give the impression that the battery is "dead".

Remedy:

1. Units with a date code on or after 18105 have been built with a stiffer metal for the positive battery contact, using a more robust production fixture and rigorous soldering strategy.
2. Do not to use any TX-E201 or TX-E231 Door/Window Sensor units with misaligned battery contacts.
3. Utilize the normal RMA process to return the affected units for replacement.

Date Code Decoder:

Date code is **YYDDD**

Examples:

- a. 18031 is 2018, the 31th day of the year.
- b. 18105 is 2018, the 105th day of the year.