

# AMERICAS SAFETY ALERT

Important safety communication to help us Work SAFER!

MARCH 9, 2018

## KONE Escalator: Potential electrical shock risk

**Work SAFER!** – KONE TravelMaster 110 units with Auto-Oiler option have a wire that connects to a single controller terminal that may be “hot/live,” even though the main electrical disconnect is placed in the “OFF” position; service technicians **must switch off circuit breaker** when servicing units to stop electricity

**Distribution:** U.S. / Canada KONE technicians; Branch Managers

### Situation:

KONE TravelMaster™ 110 (TM110) escalators manufactured since May 2017 are equipped with an electric Auto-Oiler option. With this option, even though the main electrical disconnect is placed in the “OFF” position, **220 AC live voltage bypasses the electrical disconnect.**

This also applies to TM110 escalators manufactured between January 2011 to April 2017, however **a 110 AC live voltage bypasses the electrical disconnect** when the main electrical disconnect is placed in the “OFF” position.

This design presents a potential electric shock risk to service technicians.

### Required corrective actions:

To reduce the risk of shock, technicians **must switch off the auto oiler circuit breaker** to eliminate the live voltage running through the controller. By March 16, a retrofit kit will be available to help remedy to this potential risk. A notice will be provided to authorities having jurisdiction, the IUEC and other service providers. Moreover, KONE will be reaching out to equipment owners to complete this retrofit as soon as possible.

### Detailed guidance with photos:

Below is the typical orientation of a TM110 Single Drive Unit, Controller and Foreign Voltage Box (Upper Demarcation Light Box).



Technicians must switch off the circuit breaker in the Foreign Voltage Box (Upper Demarcation Light Box) shown below.



Retrofit Kit:

- A new relay will be added in the Foreign Voltage Box (Upper Demarcation Light Box) and the run signal will be wired from the controller to this new relay, K151.
- Once the relay is added and the main disconnect to the controller is in the "OFF" position, there is no longer 120VAC or 220VAC within the Controller. 120VAC/220VAC remains only in the Foreign Voltage Box (Upper Demarcation Light Box)

**Contact:**

Should you have questions or concerns regarding this issue, please contact Divya Mehta, Senior Counsel for KONE Americas, at [divya.mehta@kone.com](mailto:divya.mehta@kone.com) or 630-955-4405.

Fraternally,

IUEC Safety Committee



**It is the mission of the IUEC Safety Committee to improve the Elevator Constructor's sense of awareness to daily hazards present in the workplace.**