



Special Airworthiness Bulletin

BEA 2024-01

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Fire Suppression – Toilet Compartment Fire Extinguishers

This Special Airworthiness Bulletin (BEA) is intended to alert owners and operators of aircraft models described in the Applicability Section regarding the inspection/check of the Toilet Compartment Fire Extinguishers.

This bulletin is informative, and the recommendations herein are not mandatory. Up to this time, there is no airworthiness concern that would warrant an Airworthiness Directive (AD) according to Regulamento Brasileiro de Aviação Civil (RBAC) nº 39.

Applicability:

Toilet Fire Extinguishers FE-36 (P/Ns below) manufactured by FFE Ltd. between serial numbers 70472 through 113558 inclusive, and with a manufacturing date before 12th June 2023:

PN
BA24320K-1
BA24320J-1
BA24320E-1
BA24320G-1
BA24320H-1
BA24320F-1

The affected fire extinguishers are used in passenger lavatories and are known to be installed (or carried/stowed on board) on, but not limited to Embraer airplanes below:

- ERJ 170-100 and ERJ 170-200 (all models).

- ERJ 190-100 and ERJ 190-200 (all models).

- EMB-145 and EMB-135 (all models).
- EMB-545 and EMB-550.

And to Embraer aircraft those Firex P/N have the correspondent following Embraer code:

PN	Ecode
BA24320K-1	7715974
BA24320J-1	7635712
BA24320E-1	6979461
BA24320G-1	6954286
BA24320H-1	6763819
BA24320F-1	6763758

Description:

A manufacturing defect has been identified in Toilet Compartment Fire Extinguishers and could potentially result in a leakage problem at the eutectic tip, resulting lack of pressurisation in the bottle rendering it ineffective. This typically manifests early in the life of affected units. The loss of fire suppression capability in combination with fire in the lavatory waste disposal receptacle may result in a significant increase in the crew workload, as the crew will be required to use portable fire extinguishers and PBE to fight the fire.

Recommendation(s):

ANAC recommends owners and operators of aircraft in service that have installed Toilet Compartment Fire Extinguishers listed in the Applicability Section to:

- a. Check the available documentation associated with the specific unit, as validated by its serial number, to confirm if it has already been weight-checked. No further action is required for units that have undertaken weight tests.
- b. Remove the Fire Extinguisher from the aircraft at the next appropriate service opportunity (not exceeding 18 months from the date of this Special Airworthiness Bulletin)
- c. Establish the production weight of the Fire Extinguisher, as mentioned on the product label.
- d. Gently place the Fire Extinguisher onto high-resolution scales and compare the measured weight to that shown on the product label.
- e. If the measured weight is more than 5.0 grams below the gross weight stated on the product label, the unit shall be removed from service and replaced.
- f. Otherwise, the unit should be returned to service.

For additional information, please contact:

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