



23S30 – CERTAIN 2022-2023 FORD F-150 BEV – REVERSE LAMP INOPERATIVE OR FLICKERING

**Chronology of Defect / Noncompliance Determination**

**Provide the chronology of events leading up to the defect decision or test data for the noncompliance decision.**

**March – May 2023**

On March 23, 2023, Ford's Critical Concern Review Group (CCRG) initiated an investigation into reports of moisture in the rear lightbar of 2022 and 2023 model year F-150 BEV Platinum and Lariat vehicles. These vehicles have a rear lightbar that stretches across the tailgate and houses the supplemental tail lamp function and the reverse lamp function. Ford identified elevated warranty report rates of moisture in the rear lightbar and reported that certain claims indicated inoperative or flickering rear supplemental tail lamps and reverse lamps.

During Ford's CCRG investigation, field return parts were obtained for evaluation through May 2023. Part return analysis showed the visual appearance of water in the lamp as droplets or condensation from the microcracks in the lightbar outer lens. The parts returned from the field were tested for functionality and more than half had inoperative or flickering supplemental tail lamps and/or reverse lamps, consistent with customer and dealer technician verbatims.

The CCRG investigation determined that the stress to the lightbar is due to static and dynamic loading of the system during the assembly plant fit process of aligning the tailgate and surrounding components or during severe tailgate surface loading at temperatures below -40 Celsius. Forces on the lightbar and housing transfer stress to the lens, which could result in microcracks.

On May 24, 2023, CCRG reviewed statistical projections which predicted an elevated lightbar failure probability through the expected life of the vehicles. The projections are based on warranty reports of water ingress, including reports of inoperative or flickering reverse lamps and supplemental tail lamps.

As of May 2, 2023, there are 291 warranty claims and four Vehicle Owner Questionnaire (VOQ) reports received from Aug 24, 2022, through April 28, 2023, indicating either moisture in the rear lightbar and/or inoperative or flickering reverse lamps.

As of May 9, 2023, Ford is not aware of any accidents, fires or injuries related to this condition.

On June 2, 2023, Ford's Field Review Committee reviewed the concern and approved a field action.

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June 9, 2023