

On July 15, 2021, an issue pertaining to Ford Ranger and Bronco vehicles with misaligned cruise control radar modules was brought to Ford's Critical Concern Review Group (CCRG) for review. The assembly plant discovered that three of the four stations that perform cruise control module radar calibration were using an incorrect calibration program.

An investigation was conducted to understand the effect of potential incorrect radar calibration, which could vary depending on the vehicle configuration and ride height. Analysis found that radars aligned with the incorrect programming could be up to 2.6 degrees lower than design intent, which is outside of Ford's specification.

Numerous reviews were conducted with Product Engineering to understand the potential effect on vehicle Adaptive Cruise Control (ACC) and Pre-Collision Assist (PCA) features as part of the Advanced Automatic Emergency Braking system. These analyses included the potential for false-positive activations, delayed activations, vehicle deceleration rates and speed ranges. The ACC and PCA features use information from the vehicle's forward-looking radar and camera sensors to detect and track objects in the host vehicle path. When the radar and camera are not aligned according to specification, there is a possibility the information provided by the radar and camera is inaccurate.

Based on results of these reviews it was determined that complete assessment of the potential effect on vehicle function would require physical vehicle testing under a wide variety of vehicle operating conditions for this concern, which would take an extensive period of time. The parameters of Ford's agreement to the March 2016 "Commitments to Advancing Automatic Emergency Braking Technology" were reviewed.

On **December 9, 2021**, Ford's Field Review Committee reviewed the concern and approved a field action.

A review of field data found no reports pertaining to this subject.

Ford is not aware of any reports of accident or injury related to this condition.