

# SS 3155-FTL M2 and SD Vehicles Transfer Case Failures Due to Excessive Vehicle Speed

## **Applicable Vehicles**

M2 and SD vehicles built with Cummins engines and Meritor transfer case models MTC-4210 and MTC-4213 with the 2-speed configuration built from 2017 through 2024 (reference drawing G66-08245 from Module 42Z).

## **Symptoms**

Customers complain of failed transfer cases due to max program vehicle speed being exceeded.

## **Issue**

There is a procedure that some customers have discovered where multiple unintended inputs are applied to the Cummins ECM, that allows for the programmed maximum vehicle speed to be defeated. When the programmed maximum vehicle speed is exceeded, damaged to the transfer case can occur.

## **Solution**

When encountering applicable vehicles where the symptom described above is present, the following wiring diagram can be referenced, making the ground changes marked in green and adding the tri diode. Applying the changes eliminates operators from defeating the programmed maximum vehicle speed, using unintended inputs to the Cummins ECM.

