

M2 and SD Vehicles Transfer Case Failures Due to Excessive Vehicle Speed

Field Service Solution SS 3155-FTL

Published Date: 10/1/24

Problem Details:

- 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.

FSPRs, FRACAS, DPR, Zeus:

- FSPR 38828

Affected Models / Truck options:

- M2 and SD legacy vehicles



Production Containment:

No Yes

- No Production change for legacy M2 & SD vehicle needed, since the number of legacy vehicles receiving 2-speed transfer cases is very limited. M2 and SD Plus vehicles are not exposed to this same defeat issue as logic used with the new system contains interlocks, preventing the maximum speed from being overridden.

Field Containment (short term):

No Yes

- Published Service Solution **SS 3155-FTL** on **10/1/24** that provides technician information on how to update the 2-speed wiring which eliminates the vehicle speed from being exceeded when multiple unintended inputs are applied to the Cummins ECM.

Root Cause:

No Yes

- **Unintended inputs** especially multiple inputs intended on defeating a system are hard to detect. Now knowing of the issue, engineering has more robust interlocks that prevent this from happening in the future.

Long Term Corrective Action Plan:

No Yes

- M2 Plus and SD Plus interlocks were implemented with the release of these vehicle which prevents this from occurring on new vehicles.

Long Term Field Plan:

No Yes

- Same as short term solutions