



VEDQuality

Status – BMW



Autonomous Mobility and Safety | Vehicle Dynamics

SensePlanAct

Notification to Vehicle Manufacturers & Logistics

› Potentially suspect Parts sent to Customers

› BMW Spartanburg was notified on **February 3, 2020** **Total qty. 21 suspect**

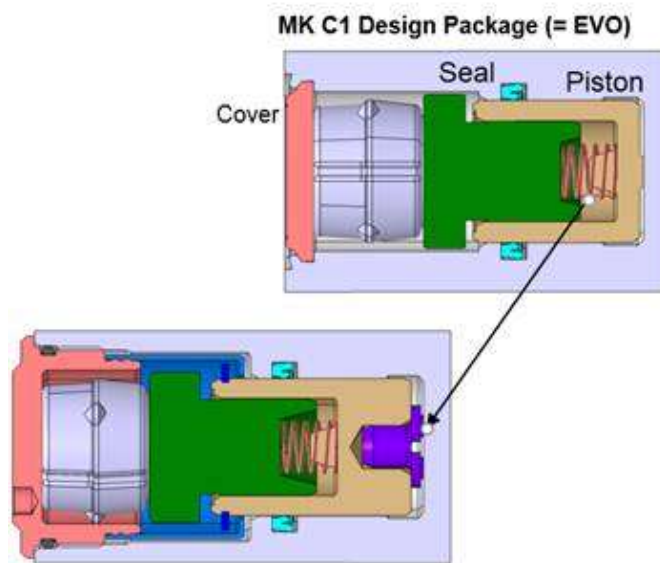
› Part Number: 5A0B13901; 15 shipped to Spartanburg and 6 to BMW Consolidation Services (Greer)

› Ford Chicago was notified on **January 31, 2020** **Total 12 suspect**

› Part Number: L1MC-2D335-CB; 10 shipped to Chicago and 2 to DHL Trading Company (China)

Defect Description at final Assembly Continental Plant Morganton

- › Technical root cause is spring used for caulked design was mistakenly installed under screwed in SIM assembly (see below).



The production start date for the station was 12/11/2019. The Quality Data Analyst reviewed pallet mapping and saw that this optional selection was turned off on 1/17/2020. This means the suspect date range is 12/11/2019 thru 1/17/2020.

Defect Occurrence Probability

- › 1 x 0-mileage Complaints from Customer
 - › 1 x from BMW
 - › Defect at simulator valve – Customer Complaint = “*hard brake pedal*”
 - ›
- › Data was reviewed and 21 BMW parts were processed through the optional station during that time frame. 12 parts for Ford. The operator is believed to have removed some springs. These parts may or may not have an extra spring.

Defect Severity

› Simulator extra spring defect

- › Pressure build up OK - $>6.43\text{m/s}^2$ @500N confirmed
- › Short Hard Pedal
- › Controllable for the driver (noticeable changed pedal feel), requires higher pedal apply force
- › No vehicle instability, no yawing
- › Control functions remain active (ABS / AYC) and ensure vehicle stability

Thank you
for your attention!