

Part 573 Safety Recall Report

21V-435

Manufacturer Name : Jaguar Land Rover North America, LLC**Submission Date :** AUG 06, 2021**NHTSA Recall No. :** 21V-435**Manufacturer Recall No. :** N598**Manufacturer Information :****Population :**

Manufacturer Name : Jaguar Land Rover North America, LLC

Number of potentially involved : 2,786

Address : 100 Jaguar Land Rover Way

Estimated percentage with defect : 100 %

Mahwah NJ 07495

Company phone : 8188500

Vehicle Information :

Vehicle 1 : 2020-2022 LAND ROVER DEFENDER

Vehicle Type : LIGHT VEHICLES

Body Style : SUV

Power Train : NR

Descriptive Information : Jaguar Land Rover is conducting a voluntary safety recall campaign involving certain 2020 to 2022 Model Year (MY) Land Rover Defender X vehicles equipped with smoked rear lamp systems built at the Nitra Assembly Plant from July 15, 2020 to May 26, 2021. 2,622 2020MY to 2022MY Defender vehicles in the United States and Federalized Territories. The basis of the recall population was derived from Jaguar Land Rover data where the VIN range for vehicles affected were determined by specific model type variants fitted with smoked rear tail lamp assemblies during manufacture.

Production Dates : JUL 15, 2020 - MAY 26, 2021

VIN Range 1 : Begin : SALEX7EU0L2016027 End : SALEX7RU1N2072300 Not sequential**Description of Defect :**

Description of the Defect : A concern has been identified on 2020 to 2022MY Defender X vehicles which are specified with smoked rear lamp assemblies. Should an intense light source shine directly on the rear of an affected vehicle at a certain angle, the stop, turn signal and/or tail lamp may experience a photovoltaic over-voltage event, and cease to function. In the case of turn signals and stop lamps, the condition resets without driver intervention and operation will resume absent of the intense light source. In the case of tail lamp operation, the lamps will extinguish until power feed is cycled such as an ignition off/on or turning the lamps off and then on at the lighting control switch.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : Where the rear lamp system fails to illuminate, other road users will not be

Description of the Safety Risk : aware of the vehicle may be slowing down, stopping, or changing direction. During darkness, where the tail lamps have extinguished, following drivers may not realize the presence of a vehicle ahead. Each of these failed state conditions will increase the risk of a crash.

Description of the Cause : NR

Identification of Any Warning that can Occur : NR

Involved Components :

Component Name 1 : Tail Lamp

Component Description : Tail Lamp

Component Part Number : L8B2-13404-DC/DD/DE

Component Name 2 : Tail Lamp

Component Description : Tail Lamp

Component Part Number : L8B2-13405-DC/DD/DE

Supplier Identification :

Component Manufacturer

Name : Varroc Lighting Systems

Address : Suvorovova 195

Šenov u Nového Jičína Foreign States 742 42

Country : Czech Republic

Chronology :

A Product Safety and Compliance Committee (PSCC) investigation was opened on April 20, 2021, where the committee were informed of a market report relating to intermittent operation of the rear tail lamps on Defender vehicles when exposed to an intense light source.

PSCC requested the Electrical Engineering team investigate reasons for reported failure and determine if this issue could exist on vehicles of the same specification.

At the PSCC throughout May, 2021, engineering reported the investigation status and had narrowed the scope to be Land Rover Defender X vehicles fitted with smoked rear tail lamp assemblies. The joint investigation with the component supplier was initiated, where experiments to understand the nature of the issue, the entry conditions and how the rear lamp systems behaved when exposed to light of the determined intensity were conducted.

The supplier reported an intense source of light in direct line with the smoked rear lamp vertical and horizontal axes would cause a reverse voltage condition created by photovoltaic behaviour within the light emitting diode (LED) components of the rear lamps. During an over-voltage event, the self-protection logic of the rear lamp system will turn off the rear lamp when over-voltage is detected in order to protect the electrical circuits from damage.

The PSCC reviewed all the available information and scope of vehicles on May 25, 2021, and concluded that the issue should be progressed to the Jaguar Land Rover Recall Determination Committee (RDC). The RDC reviewed all information available on June 1, 2021, and determined that Defender X vehicles manufactured with smoked rear tail lamps represented an unreasonable risk to safety and that a voluntarily safety recall be conducted.

There have been no reported accidents, injuries or fires as a result of this concern.

Description of Remedy :

Description of Remedy Program : Owners will be notified and instructed to take their vehicle to a Land Rover authorized repairer to have the rear lamp assemblies replaced.

The affected vehicles will be covered under Land Rover's new vehicle warranty program. There will be no charge to owners for this repair.

How Remedy Component Differs from Recalled Component : NR

Identify How/When Recall Condition was Corrected in Production : NR

Recall Schedule :

Description of Recall Schedule : Distribution of owner notification letters will occur on or before August 3, 2021. Notifications to dealers will occur on or before June 22, 2021.

Planned Dealer Notification Date : JUN 22, 2021 - JUN 22, 2021

Planned Owner Notification Date : AUG 03, 2021 - AUG 03, 2021

* NR - Not Reported