



July 25, 2012

Nancy Lewis
Associate Administrator for Enforcement
National Highway Safety Administration
Attention: Early Warning Division (NVS-217)
1200 New Jersey Ave, SE
Washington DC, 20590

Subject: Submittal of TREAD report form per 49 CFR Part 579 for Land Rover Field Service Action P027

Dear Ms. Lewis:

This is to inform you that Land Rover has decided to conduct a Field Service Action (P027) in a foreign country. Details of this field action are included in the attached Global Recall Process Report of Field Action form.

Please contact me at 201-818-8425 or at jpatters@jaguarlandrover.com for further information.

Sincerely,

James C. Patterson
Automotive Safety Office
Jaguar Land Rover North America

Attachment

GLOBAL RECALL PROCESS REPORT OF FIELD ACTION

MANUFACTURER

Land Rover

TYPE OF ACTION

Compliance Recall – Japan only

FIELD ACTION NUMBER

P027

SUBJECT

Range Rover
Range Rover Sport
Discovery 4

MAKE MODEL AND MODEL YEAR AFFECTED

Model	Begin	End
Range Rover	2010MY	2012MY
Range Rover Sport	2010MY	2013MY
Land Rover Discovery 4	2010MY	2012MY

ASSEMBLY PLANTS/DATES OF PRODUCTION

Range Rover

Assembly Plant

Production Dates

Begin	End
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Solihull (UK)	April 28, 2009 to May 15, 2012
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VIN

Begin	End
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SALLMAMD3AA305259 to SALLMAME3CA386879
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Range Rover Sport

Assembly Plant

Production Dates

Begin	End
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Solihull (UK)	May 28, 2009 to May 21, 2012
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VIN

Begin	End
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SALLSJAD3AA213220 to SALLSJAD3DA760760
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Land Rover Discovery 4**Assembly Plant**

Solihull (UK)

Production Dates**Begin****End**

May 28, 2009 to May 21, 2012

VIN**Begin****End**

SALLAJAD3AA511201 to SALLAJAD3CA632960

Other Limiting Factors

Land Rover has not received any reports of accidents, injuries or fatalities as a consequence of this issue and has concluded that this condition does not present an unreasonable risk to safety.

"Substantially Similar" vehicles sold in the U.S. are:

Range Rover 2010 to 2012 Model Year vehicles

Range Rover Sport 2010 to 2012 Model Year vehicles

Land Rover LR4 2010 to 2012 Model Year vehicles

A characterization of the vehicle as "Substantially Similar" is made exclusively for purposes of complying with 49 CFR Part 579 and does not imply that the vehicles are "Substantially Similar" in any other context or for any other purpose, regulatory or otherwise. Also, characterization of a vehicle as "Substantially Similar" in this context specifically does not imply that the vehicle is available for import or sale in the United States.

Estimated number of vehicles affected

Japan Range Rover – 393 vehicles

Japan Range Rover Sport – 667 vehicles

Japan Land Rover Discovery 4 – 649 vehicles

Estimated Percentage of Vehicles that contain the subject condition

Unknown

Reason for this Field Action

Japanese Automobile Type Approval requirements, within Section 11. TECHNICAL STANDARD FOR CONSTRUCTION AND DEVICE OF MOTOR VEHICLES, within Chapter 2, requires certain vehicles to have a device to show enhanced visibility requirements. Vehicles included in this compliance recall are subject to that requirement and utilize the front left and left mirror cameras of the five camera surround system fitted to the vehicle as a mechanism to provide the vision field as prescribed by Japanese regulation for proximity front/side visibility requirements. These cameras are uniquely activated on Japanese specification vehicles when the driver selects Drive or Reverse on the transmission.

A concern has been identified with certain Range Rover, Range Rover Sport and Discovery 4 vehicles in Japan where the proximity camera images may not be displayed. This may occur when selecting reverse gear, forward gear for the first time after engine start or selecting the camera home page. This can be an intermittent or permanent condition.

Land Rover engineering identified a concern with the camera module, after receiving reports of no camera images displayed or an error screen shown as a white camera icon crossed out on a blue background on the center display screen.

Analysis has identified that camera modules may not be robust over long term operation as a consequence of dendritic growth on the printed circuit board (PCB) of the camera module. Dendritic growth on the PCB occurs when ions of the metals used within the manufacture of camera module circuit board are redistributed by electro-migration. The dendritic growth can progress to a point where it causes a short circuit between the reset pin of the microprocessor and ground preventing the camera module from operating correctly. The PCB manufacturing process has been modified to ensure that all exposed areas of copper on the PCB are soldered thus preventing dendritic growth.

Further analysis also highlighted that the cameras may not correctly power up during low power supply voltage conditions, for example during cold start cranking. A modified software package that ensures that the cameras are correctly powered up has also been implemented.

Number of reports of this Condition

Reports of the condition: 14 reports of no front camera image from Japan

Alleged Accidents: 0

Alleged Injuries: 0

Alleged fatalities: 0

Description of the remedy

Vehicles within the VIN range will have camera module replaced or the camera software updated to ensure reliable operation of the camera system.

Date of determination: July 19, 2012

Date Recall will commence: August 2012

Determination made by

Land Rover