

# Part 573 Safety Recall Report

# 20V-160

**Manufacturer Name :** Navistar, Inc.**Submission Date :** MAR 19, 2020**NHTSA Recall No. :** 20V-160**Manufacturer Recall No. :** 20501**Manufacturer Information :**

Manufacturer Name : Navistar, Inc.

Address : 2701 Navistar Drive

Lisle IL 60532

Company phone : 331-332-1590

**Population :**

Number of potentially involved : 13,570

Estimated percentage with defect : 20 %

**Vehicle Information :**

Vehicle 1 : 2019-2020 International LT

Vehicle Type : BUSES, MEDIUM &amp; HEAVY VEHICLES

Body Style : OTHER

Power Train : DIESEL

**Descriptive Information :** The suspect population is identified by certain LT and HX models equipped with feature code 04AZA (Bendix 4 channel ABS), 04AZJ (Bendix 4 channel ABS with traction control) 04AZS (Bendix 4 channel ABS with ESC and traction control), 04AZU (Bendix 6 channel ABS), 04AZV (Bendix 6 channel ABS with traction control), or 04AZY (Bendix six channel ABS with ESC and traction control).

HX model population based on start of production. The LT suspect build range is based on a manufacturing quality issue at a tier two supplier of the brake switch. Vehicles outside the suspect population do not have the suspect brake switch. There are 8,668 LT series trucks in the suspect population

Production Dates : MAR 12, 2018 - APR 30, 2019

VIN Range 1 : Begin :

NR

End : NR

 Not sequential

Vehicle 2 : 2018-2021 International HX

Vehicle Type : BUSES, MEDIUM &amp; HEAVY VEHICLES

Body Style : OTHER

Power Train : DIESEL

**Descriptive Information :** The suspect population is identified by certain LT and HX models equipped with feature code 04AZA (Bendix 4 channel ABS), 04AZJ (Bendix 4 channel ABS with traction control) 04AZS (Bendix 4 channel ABS with ESC and traction control), 04AZU (Bendix 6 channel ABS), 04AZV (Bendix 6 channel ABS with traction control), or 04AZY (Bendix six channel ABS with ESC and traction control).

HX model population based on start of production. The LT suspect build range is based on a manufacturing quality issue at a tier two supplier of the brake switch. Vehicles outside the suspect population do not have the suspect brake switch. There are 4,902 HX series trucks in the suspect population

Production Dates : JAN 03, 2017 - MAR 07, 2020

VIN Range 1 : Begin :

NR

End : NR

 Not sequential**Description of Defect :**

Description of the Defect : Push/pulling on the brake switch terminal tips may impart stress on the solder joints and create poor or intermittent electrical contact. A poor electrical contact may result in inoperative brake lights or brake lights that stay on.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : A poor electrical contact in the brake light switch resulting in inoperative brake lights or brake lights that stay on may not alert other motorists on the roadway of the intentions of the driver which can increase the risk of a vehicle crash.

Description of the Cause : A poor solder joint between the switch terminals and switch internal circuit.

Identification of Any Warning that can Occur : ABS warning light would turn on in the instrument cluster.

**Supplier Identification :****Component Manufacturer**

Name : Bendix Spicer Foundation Brake LLC (Bend

Address : 901 Cleveland St.

Elyria OHIO 44035

Country : United States

**Chronology :**

9/18/19 – Navistar review of company warranty reports show and increase level of warranty for the brake light switch and initiates investigation. 10/31/2019 – Navistar Compliance identifies a Field Service Report related to brake light switch issue. The fleet customer reported an increased number of failures of the switch. Also, brake switch tier two supplier received failed parts and identifies issue with solder joint. 11/14/2019 – Navistar Quality works with Bendix and tier one supplier to initiate an inspection process to detect poor solder joints on switch terminals. 11/23/2019 – Navistar Quality initiates investigation to determine the scope of the issue and the failure mode of a weak solder joint with Bendix and the tier one supplier. A certain node on the switch contact was found in some cases to have a poor solder joint. 12/2/2019 – Navistar contains the issue in vehicle manufacturing with the use of a brake light switch made with a redesigned solder process. 12/16/2019 – Navistar initiates warranty review to determine severity of the issue. 01/06/2020 – Navistar completes an initial warranty review and begins to determine the issues specific to brake light failure. 01/14/2020— Navistar determines a stop light switch with a weak solder joint will create an open circuit failure causing the ABS Light to illuminate in the instrument cluster and the brake lights to remain either on or off. 2/6/2020 –

Reviewed status of quality investigation. Three areas of concern with the switch were identified which included the diaphragm, solder joint, and corrosion on the contacts. However, the solder issue is the primary driver of the warranty failures reported.

## Description of Remedy :

**Description of Remedy Program :** The remedy will involve replacing the suspect brake light switch with a revised brake light switch. Navistar's plan for reimbursement of pre-notification remedies, on file with NHTSA and dated 10/03/2018, applies and reimbursement instructions will be included in the customer notification.

**How Remedy Component Differs from Recalled Component :** The remedy brake light switch was manufactured with a redesigned assembly process from the recalled brake light switch.

**Identify How/When Recall Condition was Corrected in Production :** 12/02/2019 - Navistar manufacturing begins use of a brake light switch made with a redesigned assembly process.

## Recall Schedule :

**Description of Recall Schedule :** It is estimated that the Customer and Dealer notification letters will be mailed by 05/18/2020.

**Planned Dealer Notification Date :** MAY 18, 2020 - MAY 18, 2020

**Planned Owner Notification Date :** MAY 18, 2020 - MAY 18, 2020

\* NR - Not Reported