

Part 573 Safety Recall Report

21V-926

Manufacturer Name : Alamo Group Inc.

Submission Date : APR 05, 2023

NHTSA Recall No. : 21V-926

Manufacturer Recall No. : NR



Manufacturer Information :

Manufacturer Name : Alamo Group Inc.

Address : 1627 East Walnut St
Seguin TX 78155

Company phone : (830) 379-1480

Population :

Number of potentially involved : 291

Estimated percentage with defect : 100 %

Vehicle Information :

Vehicle 1 : 2019-2021 Old Dominion Brush Co. LCT450; LCT600; LCT650; LCT6000; DCL800TM; GMV550; SCL800TM; XV550, XV600; XV6000

Vehicle Type : TRAILERS

Body Style :

Power Train : NR

Descriptive Information : The recall population has been determined based on examination of manufacturing and quality control processes for the trailer models identified above that are equipped with a John Deere engine.

Substantially similar trailers with the Kubota engine have not exhibited any sign of the manufacturing error.

Production Dates : JAN 01, 2019 - NOV 01, 2021

VIN Range 1 : Begin : 1Z9PS2024JR168206 **End :** 1Z9PL1623NR168332 ☒ Not sequential

Description of Defect :

Description of the Defect : The emergency brake system's breakaway switch was wired to the starter, not the battery and, as a result, emergency braking capability is only operational while starting the trailer engine.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : If a trailer lacking emergency braking capability became untethered from the towing vehicle, the emergency trailer brake would not engage, increasing the risk of a crash.

Description of the Cause : ODB adopted a new wiring configuration when it began production of the affected trailer models, which included a John Deere engine and a two-post starter solenoid. This new reconfiguration resulted in assemblers mis-wiring the emergency brake system. First, the length of the wiring harness was not

Identification of Any Warning
that can Occur :

increased with the new configuration, making the task of properly wiring the breakaway switch to the battery more difficult. Second, the starter solenoid was exposed in the reconfigured engines (not within the starter assembly), making it possible for the breakaway switch to be wired to the starter terminal instead of the battery.

Involved Components :

Component Name 1 : chassis harness

Component Description : wire harness that provides power to the breakaway switch at the starter solenoid

Component Part Number : 830XY or 8002502B

Supplier Identification :

Component Manufacturer

Name : Emsco LLC

Address : 10181 Cedar Ridge Drive
Ashland Virginia 23005

Country : United States

Chronology :

On September 29, 2021, a dealer notified ODB that two DCL800TM25 trailers failed a test of the breakaway cable system during a standard pre-delivery inspection because the emergency brakes did not engage when the breakaway cable plug was pulled.

In October 2021, ODB conducted a safety investigation to assess the failure mode, the failure rate, and potential causes.

ODB interviewed all assemblers of the breakaway cable system and learned the assemblers wired the breakaway cable to either of the two posts on the starter solenoid (i.e., to either to the battery or to the starter). ODB also learned from the quality control technician that he only tested the service brakes of the trailer and not the breakaway switch.

As part of the safety investigation, ODB inspected five trailers in production or still on the lot. ODB identified that all the units with a John Deere engine had incorrect wiring whereas all the units with a Kubota engine had correct wiring. ODB inspected five additional units manufactured in 2018 that were in ODB's custody for

warranty-related purposes. The breakaway cable was correctly wired to the battery in these five units.

As of November 19, 2021, Alamo was aware of no warranty claims, no deaths, and no injuries related to this issue. The September 29, 2021, dealer report is the only such notification Alamo has received on this issue. On November 19, 2021, Alamo decided to declare a voluntary safety recall to remedy this issue.

Description of Remedy :

Description of Remedy Program : ODB will inspect the breakaway cable system and, if necessary, properly re-wire the system such that the emergency brake is properly connected to the battery instead of the starter. This remedy will be performed free of charge.

Affected trailer owners will be notified by first class mail to take their trailer to an ODB-affiliated dealer to have the remedy performed free of charge.

If this condition was identified and remedied on an affected trailer prior to this campaign, ODB will reimburse owners who have incurred the cost of such remedy.

How Remedy Component Differs from Recalled Component : n/a

Identify How/When Recall Condition was Corrected in Production : As of November 2, 2021, ODB has increased the length of the chassis harness, provided updated instructions to assemblers on how to properly connect the emergency brake system to the battery, and added a quality control check for the emergency breakaway cable system.

The two units identified by the ODB dealer in a pre-delivery inspection have also been remedied by the dealer.

Recall Schedule :

Description of Recall Schedule : Dealers and owners will be notified of the available free remedy by January 23, 2022.

Planned Dealer Notification Date : JAN 03, 2022 - JAN 23, 2022

Planned Owner Notification Date : JAN 03, 2022 - JAN 23, 2022

* NR - Not Reported