

Part 573 Safety Recall Report

24V-627

Manufacturer Name : Alamo Group Inc.**Submission Date :** JAN 13, 2025**NHTSA Recall No. :** 24V-627**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 : 128

Estimated percentage with defect : 100 %

Vehicle Information :

Vehicle 1 : 2018-2024 Morbark EB1821, EB 2131, EB2230, and M20

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 of the engine power distribution module wiring in the identified Morbark models above. The vehicles in the recall population differ from other vehicles in that the nut securing wiring to the power distribution module ("PDM") passthrough is not properly torqued and may come loose.

Production Dates : JUN 01, 2018 - APR 22, 2024

VIN Range 1 : Begin : 4S8SZ1928FW090443 End : 4S8SZ222XPW053119 Not sequential**Description of Defect :**

Description of the Defect : The nut that secures wiring to the PDM passthrough is not properly torqued which can lead to the nut falling off and the wiring coming into contact with the PDM plate and in turn cause arcing.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : The arcing from the wiring coming into contact with the PDM plate could ignite debris from forestry operations, potentially causing an engine fire.

Description of the Cause : Supplier did not properly torque the nut securing the wiring to the PDM passthrough when the PDM was manufactured.

Identification of Any Warning that can Occur : NR

Involved Components :

Component Name 1 : PDM Passthrough

Component Description : Module that helps distribute power to the engine.

Component Part Number : 39253, 39250

Supplier Identification :

Component Manufacturer

Name : LOR Mobile Controls

Address : 7131 W Drew Rd.

Weidman Michigan 48893

Country : United States

Chronology :

In mid-March 2024 Morbark received notice of a non-NHTSA jurisdictional machine where a fire near the engine occurred. Morbark investigated the cause in person on the machine.

Morbark determined that the nut securing wiring to the PDM became loose and the wiring was exposed to the PDM plate where it made contact, causing arcing. This arcing likely ignited forestry byproduct and caused the wire coating to catch fire. Morbark vehicles subject to NHTSA's jurisdiction manufactured since June 1, 2018 have this single nut PDM.

In June 2023, Morbark discovered that LOR Mobile Controls ("LOR") issued an ECO that recommended two nuts to secure wiring to the PDM. Morbark verified the wiring would remain secure with two nuts. As such, the design for machines in production after April 22, 2024 was changed to include two nuts to secure the wiring to the PDM.

In further investigating the issue, Morbark found out that the true issue was insufficient torque on the nuts. Morbark tested this issue on one nut and two nut setups for the PDM. If one nut or two nuts were sufficiently torqued then the wiring did not come loose. Morbark and LOR worked on a solution to permanently affix the nut and wiring to the PDM. LOR decided the inclusion of high strength resin on the nut would hold the wiring. The use of the resin will correct the defect for any vehicles produced between June 1, 2018 and April 22, 2024, and strengthen the vehicles manufactured since April 22, 2024. For the affected vehicles, the inclusion of the use of the resin will keep the wiring from coming into contact with the PDM plate and causing arcing.

As of August 20, 2024, Alamo is aware of no warranty claims, no deaths, and no injuries related to this issue. The incident in mid-March 2024 on a vehicle not subject to NHTSA's jurisdiction is the only such inquiry, notification, or report Alamo has received on this issue. On August 20, 2024 Alamo decided to declare a

voluntary safety recall to remedy this issue.

Description of Remedy :

Description of Remedy Program : Morbark will provide dealers with instructions to apply the resin to the nut or nuts securing the wiring to the PDM passthrough in affected vehicles.

All affected vehicle owners will be notified by first class mail. Affected vehicle owners will be directed to take their vehicle to a Morbark affiliated dealer to have the remedy performed free of charge.

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

How Remedy Component Differs from Recalled Component : The remedy provides for the use of high strength resin that permanently secures the nut or nuts and wiring to the PDM passthrough.

Identify How/When Recall Condition was Corrected in Production : As of April 22, 2024, Morbark has used two nuts that are properly torqued affix the nut to the PDM passthrough and secure the wiring. The vehicles produced since April 22, 2024 contain no safety defect but will be included in the recall population for administrative purposes to have the high strength resin applied to the nuts. Morbark will amend its 573 Report when the use of the resin is incorporated in production and the number of total vehicles which require the addition of the resin is known.

Recall Schedule :

Description of Recall Schedule : Morbark will notify all owners and dealers of affected vehicles by Part 577-compliant owner letters sent via USPS within 60 days.

Planned Dealer Notification Date : OCT 18, 2024 - OCT 18, 2024

Planned Owner Notification Date : OCT 18, 2024 - OCT 18, 2024

* NR - Not Reported