

Part 573 Safety Recall Report

20V-335

Manufacturer Name : ARBOC Specialty Vehicles, LLC**Submission Date :** JUN 17, 2020**NHTSA Recall No. :** 20V-335**Manufacturer Recall No. :** RC059801**Manufacturer Information :**

Manufacturer Name : ARBOC Specialty Vehicles, LLC

Address : 51165 Greenfield Parkway

Middlebury IN 46540

Company phone : 574-825-1720

Population :

Number of potentially involved : 113

Estimated percentage with defect : 100 %

Vehicle Information :

Vehicle 1 : 2014-2020 ARBOC Specialty Vehicles Spirit of America, Spirit of Liberty

Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES

Body Style : OTHER

Power Train : NR

Descriptive Information : This affects all Spirit of America and Spirit of Liberty buses. Freightliner power cables on the driver side are incorrectly routed. This could increase the risk of mechanic safety causing injury and/or death or a thermal event. This affects a total of 113 buses. 44 Spirit of America buses include 34-CNG, 2020. 4-D, 2019. 1-CNG, 2018. 4-D, 2017. 1-D, 2016. 69 Spirit of Liberty buses include 11-D, 2019. 7-D, 2018. 23-D, 2017. 24-D, 2016. 3-D, 2015. 1-D, 2014. 36 Buses have already had repairs completed on them. 3 buses are internal R&D buses.

Production Dates : SEP 16, 2014 - OCT 30, 2019

VIN Range 1 : Begin :

NR

End : NR

 Not sequential**Description of Defect :**

Description of the Defect : Complaint-Area #1: Freightliner (FCCC) power cable is rubbing against FCCC forward frame. Area #2: FCCC positive cable is making contact with the ground cable. Correction-Inspection and re-routing per inspection/repair instructions.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : Chaffing of power cables increases the potential for fire to occur.**Description of the Cause :** Cause-Incorrect routing from FCCC.

Identification of Any Warning that can Occur : No warning.

Involved Components :

Component Name 1 : XBA Chassis

Component Description : Freightliner Raw Chassis

Component Part Number : NR

Supplier Identification :

Component Manufacturer

Name : Freightliner Custom Chassis

Address : NR

NR

Country : NR

Chronology :

On December 21, 2019, there was a thermal event regarding the front electrical connections forward of the firewall. Onsite Inspections involving ARBOC occurred initially on December 23, 2019 which included representation from the customer, ARBOC, ARBOC Forensic Expert, Freightliner Custom Chassis, New Flyer Service and Specialty Vehicles (selling Dealer). Additional Forensic Inspection occurred on January 7, 2020 which included representation from previous meeting and Freightliner Custom Chassis Forensic Expert. Concerns were raised with electrical routing and connections noted on two of the remaining units during the fleet inspection. All (34) remaining units at LAWA had the inspection and/or re-routing completed as proposed in this recall, Determination of creating a recall was determined necessary by ARBOC on June 3, 2020

Description of Remedy :

Description of Remedy Program : AREA #1-Electrical Routing-Locate indicated wiring, check to see if rubbing on FCCC frame. Correct wiring is tight and pulled away from the sharp edge. Incorrect wiring is loose and making contact with sharp edge frame. If the unit is wired correctly, add an inspection mark to firewall and submit warranty documentation including notation that no further changes were required. If the unit is wired incorrectly continue to the repair section for re-wiring instructions. When completed, submit warranty documentation of repairs completed. Repair Instructions- Disconnect batteries. Remove/discard p-clamp. Pull cable upwards to create maximum separation from frame and add a p-clamp. Note-Excess cable should be above the p-clamp. Re-connect batteries. Add witness mark for repairs completed. Electrical Routing-AREA #2. Open the front door/hood at the front of the unit. Locate wiring at the driver side of firewall to inspect potential cable contact. Correct Routing - Adequate spacing between positive and ground terminals. Incorrect Routing - Cables routed over each other and/or making contact with each other. If the unit is wired correctly (photo 3), please add an inspection mark to the firewall and submit warranty documentation including notation that NO further changes were required. If the unit is wired incorrectly (photo 4), please continue to the repair section for re-wiring instructions. When completed, please submit warranty documentation of repairs completed. Repair Instructions:1. Disconnect batteries 2. Loosen positive and ground connections 3. Re-route cables to create maximum separation from each other. 4. Re-tighten lug connections (Torque = 45 ft/lbs) 5. Re-spray connections with di-electric spray 6. Re-connect batteries 7. Add witness mark for repairs completed.

How Remedy Component Differs from Recalled Component : FCCC wiring will be tight and pulled away from sharp frame edge.

Identify How/When Recall Condition was Corrected in Production : No units have been built since units found during thermal event in December.
ARBOC has reviewed all remaining chassis on ground without any of the concerns mentioned.

Recall Schedule :

Description of Recall Schedule : Upon NHTSA approval, repair instructions will be completed. Work Order Authorization will be issued and warranty claims will be started for dealer for ease of filing. Dealers/customers will be notified. Both dealers/customers have access to the ARBOC Dealer Portal and Customer Link which provides them with Recall status whether open or completed. Recalls are attached to each bus affected. Recall notification letters will then be mailed to both dealers and customers.

Planned Dealer Notification Date : JUN 15, 2020 - JUN 29, 2020

Planned Owner Notification Date : JUN 15, 2020 - JUN 29, 2020

* NR - Not Reported