

Part 573 Safety Recall Report

19E-017

Manufacturer Name : Specialty Manufacturing Co.

Submission Date : APR 18, 2019

NHTSA Recall No. : 19E-017

Manufacturer Recall No. : NR



Manufacturer Information :

Manufacturer Name : Specialty Manufacturing Co.

Address : 13501 South Ridge Drive

Charlotte NC 28273

Company phone : 800-951-7867

Population :

Number of potentially involved : 348

Estimated percentage with defect : 10 %

Equipment Information :

Brand / Trade 1 : Transpec

Model : Transpec Glass Roof Hatch

Part No. : T287X Series

Size : 24" x 24"

Function : Roof Hatch

Descriptive Information : Fence posts for the population were determined by the overlap of assembly dates for reported field failures and the corresponding production dates for batches of tempered glass panels. Units not included in the recall were assembled using different production batches of tempered glass. Estimated 522 hatches were assembled using the suspect tempered glass. This covers all T287X Series glass hatches produced between 8/1/18 and 2/22/19

Production Dates : AUG 01, 2018 - FEB 22, 2019

Description of Defect :

Description of the Defect : Failure of the tempered glass used in T287X Series glass roof hatches.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : Failure (breakage) of the tempered glass panel causing small shattered glass fragments to fall on bus passengers. No risk to driver of vehicle due to installation location of hatches within the vehicles.

Description of the Cause : Failures result from hot/cold stress and vibration/shock affecting edge defects (chips) in the glass panels. Resulting stress concentration at the chips can result in fracture and failure of the tempered glass if edge damage is present.

Identification of Any Warning that can Occur : No warning or early indicator of failure has been observed. All failures to date have occurred shortly after installation into the vehicle.

Supplier Identification :

Component Manufacturer

Name : Specialty Manufacturing Co.
Address : 13501 South Ridge Drive
Charlotte NORTH CAROLINA 28273
Country : United States

Chronology :

- First reported failure of the glass in a hatch occurred 9/17/18 per Motor Coach Industries (MCI) at the OEM location.
- By 11/7/19 Specialty Manufacturing Co.(SMI) had received reports of 5 additional failures at MCI.
- SMI onsite at MCI 11/13/19 to review product. Initial analysis suggested two potential sources for failure - installation damage occurring at MCI or the heavy duty springs in use for MCI (only customer using these springs) were applying too much stress to the glass leading to failures.
- SMI proceeds to supply MCI with replacement normal duty springs.
- Onsite testing (MCI) of normal springs performed 11/26/19.
- 12/4/18 MCI reports first failure of glass on a hatch using normal duty springs.
- 12/17/18 First report from another customer (New Flyer) of glass failure in a hatch (normal duty springs). SMI begins investigating material/structural issues with the glass.
- 12/21/18 SMI receives results of material testing from glass supplier. All material tested meets manufacturer specs.
- SMI begins testing to determine if current stock of glass could break as a result of small edge defects (difficult to detect) and mechanical load or environmental stress.
- 1/31/19 SMI determines that if a large enough chip is present in the edge of the glass, mechanical and/or environmental stresses can cause the glass to break.
- 2/21/19 SMI notifies MCI and New Flyer (only customers reporting failures) of the testing results.

Description of Remedy :

Description of Remedy Program : Specialty Manufacturing Co.will supply replacement hatch lids to all affected customers. Replacement of the lid involves removal of one shoulder bolt, removal of existing hatch lid, and re-installation of new lid and bolt. Manufacturer will reimburse customers \$25 for labor for each hatch lid replaced.

How Remedy Component Differs from Recalled Component : All emergency escape roof hatch lids corresponding to the listed dates, part numbers T287X, will bill replaced with new lids that incorporates a thicker glass material as well as a high grade edge polish. This new glass is 2X stronger than the previous version and the new edge polish will eliminate any edge defects from the glass manufacturer. The edge polish will also allow for visual inspection/identification of any defects resulting from transportation of the glass or from the hatch assembly process.

Identify How/When Recall Condition was Corrected in Production : All previous glass material has been removed from production and placed in secure quarantine. All new production will proceed with the updated, thicker/polished edge glass.

Recall Schedule :

Description of Recall Schedule : OEM and Distributor notification will begin 3/4/19. Estimated completion of notification by 3/18/19

Planned Dealer Notification Date : NR - NR

Planned Owner Notification Date : NR - NR

Purchaser Information :

The following manufacturers purchased this defective/noncompliant equipment for possible use or installation in new motor vehicles or new items of motor vehicle equipment:

Name : Bristol Coach Works
Address : 439 Bell Street
Ingersoll, Ontario 00 N5C 2P6
Country : CA
Company Phone : 5195329188

Name : Van Hool
Address : Bernard Van Hoolstrat 58
2500 Lier (Kommingshooikt) 00
Country : BE
Company Phone : NR

Name : BYD Coach & Bus, LLC
Address : 46147 7th St. W
Lancaster CA 93534
Country : US
Company Phone : 5593314800

Name : Champion Bus
Address : 331 Graham Road
Imlay City MI 48444
Country : US
Company Phone : 8107246474

Name : Elkhart Custom Designs
Address : 52743 Stephens Place
Elkhart IN 46540
Country : US
Company Phone : 5743432253

Name : Gillig Corporation
Address : 451 Discovery Drive
Livermore CA 94551
Country : US
Company Phone : 5102645075

Name : Kirkman Bus Sales
Address : 3640 48 Avenue SE.
Calgary, Alberta 00 T2B 3T2
Country : CA
Company Phone : 4032533010

Name : LA West
Address : 196 Crawford Road
Statesville NC 28625
Country : US
Company Phone : 7044984936

Name : Midwest Automotive
Address : 1826 Leer Drive
Elkhart IN 46514
Country : US
Company Phone : 5745224878

Name : Motor Coach Industries
Address : 1475 Clarence Avenue
Winnipeg, Manitoba 00 R3T 1T5
Country : CA
Company Phone : 8478675186

Name : New Flyer
Address : 711 Kernaghan Avenue
Winnipeg, Manitoba 00 R2C 3T4
Country : CA
Company Phone : 2042241251

Name : NFI Parts
Address : 630 Kernaghan Avenue
Winnipeg, Manitoba 00 R2C 3T4
Country : CA
Company Phone : 2049347063

Name : Nova Bus
Address : 1000 Industrial Boulevard
St. Eustache, QC 00 J7R 5A5
Country : CA
Company Phone : NR

Name : Prevost Parts
Address : 2955-A Avenue Watt
Quebec (Québec) 00 G1X 3W1
Country : CA
Company Phone : 5816280434

Name : Proterra
Address : 1 Whitlee Ct.
Greenville SC 29607
Country : US
Company Phone : 8642140390

Name : RF School Bus Parts
Address : PO BOX 138676
Hialeah FL 33013
Country : US
Company Phone : 3055578190

Name : Bus Parts Warehouse
Address : 6361 Thompson Road
Syracuse NY 13206
Country : US
Company Phone : 8006355567

* NR - Not Reported