

Part 573 Safety Recall Report

20V-711

Manufacturer Name : Thor Motor Coach**Submission Date :** NOV 17, 2020**NHTSA Recall No. :** 20V-711**Manufacturer Recall No. :** RC000206**Manufacturer Information :****Population :**

Manufacturer Name : Thor Motor Coach

Number of potentially involved : 1,074

Address : PO Box 1486

Estimated percentage with defect : 100 %

701 County Road 15 Elkhart IN 46515

Company phone : 877-500-1020

Vehicle Information :

Vehicle 1 : 2020-2021 Thor Motor Coach Daybreak

Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES

Body Style : OTHER

Power Train : GAS

Descriptive Information : -It has been discovered that on certain model year 2020/2021 Chateau, Daybreak, Four Winds, Freedom Elite, and Quantum Motorhomes built on a Chevy chassis, expansion and contraction of the plastic body of the BIM (Battery Isolation Manager) / BIR (Battery Isolation Relay) from heat in the engine compartment causes it to be susceptible to moisture inside the body, which in turn produces arcing of the internal components. This internal arcing can cause heating, or the possibility of a fire.

-Units not included in the recall have a Trombetta solenoid installed.

-152 Daybreak units are affected by this recall.

Production Dates : MAR 14, 2019 - SEP 25, 2020

VIN Range 1 : Begin : 1HA6GUCG3JN006428 End : 1HA3GTCG4LN009936 ☒ Not sequential

Vehicle 2 : 2020-2021 Thor Motor Coach Four Winds

Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES

Body Style : OTHER

Power Train : GAS

Descriptive Information : -It has been discovered that on certain model year 2020/2021 Chateau, Daybreak, Four Winds, Freedom Elite, and Quantum Motorhomes built on a Chevy chassis, expansion and contraction of the plastic body of the BIM (Battery Isolation Manager) / BIR (Battery Isolation Relay) from heat in the engine compartment causes it to be susceptible to moisture inside the body, which in turn produces arcing of the internal components. This internal arcing can cause heating, or the possibility of a fire.

-Units not included in the recall have a Trombetta solenoid installed.

-224 Four Winds units are affected by this recall.

Production Dates : MAR 14, 2019 - SEP 25, 2020

VIN Range 1 : Begin : 1HA6GUCG3JN006428 End : 1HA3GTCG4LN009936 ☒ Not sequential

Vehicle 3 : 2020-2021 Thor Motor Coach Chateau
Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES
Body Style : OTHER
Power Train : GAS

Descriptive Information : -It has been discovered that on certain model year 2020/2021 Chateau, Daybreak, Four Winds, Freedom Elite, and Quantum Motorhomes built on a Chevy chassis, expansion and contraction of the plastic body of the BIM (Battery Isolation Manager)/ BIR (Battery Isolation Relay) from heat in the engine compartment causes it to be susceptible to moisture inside the body, which in turn produces arcing of the internal components. This internal arcing can cause heating, or the possibility of a fire.
-Units not included in the recall have a Trombetta solenoid installed.
-211 Chateau units are affected by this recall.

Production Dates : MAR 14, 2019 - SEP 25, 2020

VIN Range 1 : Begin : 1HA6GUCG3JN006428 End : 1HA3GTCG4LN009936 ☒ Not sequential

Vehicle 4 : 2020-2021 Thor Motor Coach Freedom Elite
Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES
Body Style : OTHER
Power Train : GAS

Descriptive Information : -It has been discovered that on certain model year 2020/2021 Chateau, Daybreak, Four Winds, Freedom Elite, and Quantum Motorhomes built on a Chevy chassis, expansion and contraction of the plastic body of the BIM (Battery Isolation Manager)/ BIR (Battery Isolation Relay) from heat in the engine compartment causes it to be susceptible to moisture inside the body, which in turn produces arcing of the internal components. This internal arcing can cause heating, or the possibility of a fire.
-Units not included in the recall have a Trombetta solenoid installed.
-453 Freedom Elite units are affected by this recall.

Production Dates : MAR 14, 2019 - SEP 25, 2020

VIN Range 1 : Begin : 1HA6GUCG3JN006428 End : 1HA3GTCG4LN009936 ☒ Not sequential

Vehicle 5 : 2020-2021 Thor Motor Coach Quantum
Vehicle Type : BUSES, MEDIUM & HEAVY VEHICLES
Body Style : OTHER
Power Train : GAS

Descriptive Information : -It has been discovered that on certain model year 2020/2021 Chateau, Daybreak, Four Winds, Freedom Elite, and Quantum Motorhomes built on a Chevy chassis, expansion and contraction of the plastic body of the BIM (Battery Isolation Manager)/ BIR (Battery Isolation Relay) from heat in the engine compartment causes it to be susceptible to moisture inside the body, which in turn produces arcing of the internal components. This internal arcing can cause heating, or the possibility of a fire.
-Units not included in the recall have a Trombetta solenoid installed.
-34 Quantum units are affected by this recall.

Production Dates : MAR 14, 2019 - SEP 25, 2020

VIN Range 1 : Begin : 1HA6GUCG3JN006428 End : 1HA3GTCG4LN009936 ☒ Not sequential

Description of Defect :

Description of the Defect : The BIM\BIR is not watertight when in the presence of excessive heat.

FMVSS 1 : NR

FMVSS 2 : NR

Description of the Safety Risk : The water infiltration not only causes premature failure of the BIM/BIR, but it can also create arcing, which can lead to a fire and property damage.

Description of the Cause : The plastic body can expand and contract when in excessive heat, causing the case seal to allow water infiltration.

Identification of Any Warning that can Occur : NA

Involved Components :

Component Name 1 : BIM

Component Description : Battery Isolation Manager

Component Part Number : 0344516

Component Name 2 : BIR

Component Description : Battery Isolation Relay

Component Part Number : 0430543

Supplier Identification :**Component Manufacturer**

Name : Precision Circuits

Address : 2538 Wisconsin Ave.

Downers Grove ILLINOIS 60515

Country : United States

Chronology :

August 2020 - TMC was made aware of three thermal events in the field on units similar to those included recall 19V-609. These units were built on Chevy chassis, which were not included in the original recall.

September – November 2020 - Cause and origin investigation with all parties present to determine root cause of thermal events. Testing was also done on the BIM/BIRs on similar units as part of a 3rd party investigation. Results from the field inspections determined that we had a problem with water infiltration as a result of the heat in the engine compartment.

November 11, 2020 - In an abundance of caution, TMC has determined an expansion of recall 19V-609 is needed to include units built on a Chevy chassis to replace the BIM/BIR with the Trombetta solenoid.

Description of Remedy :

Description of Remedy Program : TMC will provide instructions to dealers on how to replace the BIM/BIR with a Trombetta solenoid. Reimbursement will be provided through the normal warranty claim process.

How Remedy Component Differs from Recalled Component : Remedy component uses a Trombetta solenoid.

Identify How/When Recall Condition was Corrected in Production : An ECN change was implemented changing the BIM/BIR to a Trombetta solenoid.

Recall Schedule :

Description of Recall Schedule : TMC will notify the dealers and owners of the recreational vehicles by letter. A final copy of the owner letter will be provided to NHTSA, along with the dealer repair procedures.

Planned Dealer Notification Date : JAN 17, 2021 - JAN 17, 2021

Planned Owner Notification Date : JAN 17, 2021 - JAN 17, 2021

* NR - Not Reported