

Part 573 Safety Recall Report**15V-231**

Manufacturer Name : Forest River, Inc.
Submission Date : MAY 13,2015
NHTSA Recall No. : 15V-231
Manufacturer Recall No. : 51-03312015-0025

**Manufacturer Information :**

Manufacturer Name : Forest River, Inc.
 Address : 55470 CR 1
 P.O. Box 3030 Elkhart IN 46515-3030
 Company phone : 219-533-5934

Population :

Number of potentially involved : 346
 Estimated percentage with defect : 100

Vehicle Information :

Vehicle : 2016-2016 US Cargo - Amera-Lite ATTX8516TA3, ATTX8524TA3, WATTX8524TA3 & WATTX8528TA3

Vehicle Type : TRAILERS

Body Style :

Power Train : NR

Descriptive Information : A limited number of Tru Ryde Hubs have been installed on Lippert Component Axles on Forest River products that are suspected in a case hardening of the wheel stud, the stud becoming brittle and sheering off. Lippert Components have isolated the subject Tru Ryde Hubs in house inventory to change the hub/stud assembly to a known Axle Tech or the Lippert Component hub/stud assembly that is not affected by this embrittlement.

Forest River is participating in the recall as Lippert Components have filed a their own recall to reflect this subject component. However, Forest River will replace the subjected hubs free of charge to the dealership/retail owner. If the axle serial number (on the sticker on the axle) matches the listed numbers and the hub/stud assembly is manufactured by Tru Ryde only.

"Broken wheel stud at in-process torque station not representative of improper torque process but rather a suspect process condition due to the location of the failure on the wheel bolt. The stud breakage was under the serrations located on top of the threads." - LCI Statement

Production Dates : MAR 01, 2015 - MAR 31, 2015

VIN (Vehicle Identification Number) Range

Begin : NR

End : NR

Not sequential VINs

Vehicle : 2016-2016 Salem/Wildwood T31BKIS, T31KQBTS, T31QBTS, T36BHBS & T38RLT

Vehicle Type : TRAILERS

Body Style :

Power Train : NR

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Production Dates : MAR 01, 2015 - MAR 31, 2015

VIN (Vehicle Identification Number) Range

Begin : NR

End : NR

Not sequential VINs

Vehicle : 2016-2016 Shasta by Coachmen T32DS, T33BH & T33TS

Vehicle Type : TRAILERS

Body Style :

Power Train : NR

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Production Dates : MAR 01, 2015 - MAR 31, 2015

VIN (Vehicle Identification Number) Range

Begin : NR

End : NR

 Not sequential VINs

Vehicle : 2016-2016 Wildwood Laminated F286RL, F327RE, F337BAR, F356QB, F368RLBH, T263RL, T272BH, T272RLIS, T282RK, T299RE, T300BH, T302FK, T312QBUD

Vehicle Type : TRAILERS

Body Style :

Power Train : NR

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Production Dates : MAR 01, 2015 - MAR 31, 2015

VIN (Vehicle Identification Number) Range

Begin : NR

End : NR

 Not sequential VINs

Vehicle : 2016-2016 Salem/Wildwood T353FLFB, T394FKDS, T395FKLTD, T39FDEN, T4002Q, T400RETS & T426-2B

Vehicle Type : TRAILERS

Body Style :

Power Train : NR

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Production Dates : MAR 01, 2015 - MAR 31, 2015

VIN (Vehicle Identification Number) Range

Begin : NR

End : NR

Not sequential VINs

Vehicle : 2016-2016 Salem/Wildwood L.E. F33BHOK, T29FKBS, T29UD3, T32BHDS & T37BHSS2Q

Vehicle Type : TRAILERS

Body Style :

Power Train : NR

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Production Dates : MAR 01, 2015 - MAR 31, 2015

VIN (Vehicle Identification Number) Range

Begin : NR

End : NR

Not sequential VINs

Vehicle : 2016-2016 Vengeance by Cherokee F3062V, F306V, F312A, F315A11, F320A, F377V, F394V13, F398V, T19V, T25V, T28V, T29V, T31V, F3062V, F312A, F316A11, F320A, F377V, F398V, T19V, T25V, T28V, T29V, T31V

Vehicle Type : TRAILERS

Body Style :

Power Train : NR

Descriptive Information : A limited number of Tru Ryde Hubs have been installed on Lippert Component Axles on Forest River products that are suspected in a case hardening of the wheel

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Production Dates : MAR 01, 2015 - MAR 31, 2015

VIN (Vehicle Identification Number) Range

Begin : NR

End : NR

Not sequential VINs

Vehicle : 2016-2016 Cargo Mate/Continental AM8.532TTA3, AMG8.536TTA3, BL714TA3, BL720TA3, BL816TA3, BL818TA3, BL820TA3, BL824TA3, CC824TA3, CM714TA3, CN2T612SA3, EH8.526TA3, EHW8.516TA3, EHW8.524TA3, EL8.524TA3, QF8.520TA3, TW714TA3, TW716TA3, TW720TA3, TW814TA3, TW816TA3, TW720TA3 & TW814TA3

Vehicle Type : TRAILERS

Body Style :

Power Train : NR

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Production Dates : MAR 01, 2015 - MAR 31, 2015

VIN (Vehicle Identification Number) Range

Begin : NR

End : NR

 Not sequential VINs

Vehicle : 2016-2016 Catalina by Coachmen T283RBKS, T293RLDS, T323BHDS, T323TSQB, T333BHKS, T333RETS, T343QBDS, T39FKTS, T39MKTS, T40BHTS & T40TSHB

Vehicle Type : TRAILERS

Body Style :

Power Train : NR

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Production Dates : MAR 01, 2015 - MAR 31, 2015

VIN (Vehicle Identification Number) Range

Begin : NR

End : NR

 Not sequential VINs

Vehicle : 2016-2016 Puma by Palomino 24THS, 25TFS, 27SBU, 295BHSS, 298FQU, 29RBKS, 30FBSS, 30FKSS, 30THSS, 31BHSS, 31DBTS, 31RDKS, 32DBKS, 32FKSL, 32TFB, 38PFS, 39PLF, 39BHT, 39FKS, 39PBS & 39PFK

Vehicle Type : TRAILERS

Body Style :

Power Train : NR

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Production Dates : MAR 01, 2015 - MAR 31, 2015

VIN (Vehicle Identification Number) Range

Begin : NR

End : NR

Not sequential VINs

Vehicle : 2016-2016 FreedomExpress by Coachmen T271BL, T293RLDS LE , T297RLDS LE, T298REDS LE, T301BLDS, T305RKDS LE, T31SE, T310BHDS LE, T310BHDS, T312BHDS LE, T320BHDS LE, T320BHDS & T322RLDS LE

Vehicle Type : TRAILERS

Body Style :

Power Train : NR

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Production Dates : MAR 01, 2015 - MAR 31, 2015

VIN (Vehicle Identification Number) Range

Begin : NR

End : NR

Not sequential VINs

Vehicle : 2016-2016 Cherokee F235B, F245KS, F255P, F265B, F305WP, F315WP, T204RB, T21WP120, T21WP, T254Q, T264L, T274DBH, T274DBH+, T274RK, T274VFK, T27WP, T284BF, T284QB, T28WP, T294BH, T304BH, T304BS, T36B, T36P, T39KR, T39P, T39Q2, T39R & T39RL

Vehicle Type : TRAILERS

Body Style :

Power Train : NR

Descriptive Information : A limited number of Tru Ryde Hubs have been installed on Lippert Component

Axles on Forest River products that are suspected in a case hardening of the wheel stud, the stud becoming brittle and sheering off. Lippert Components have isolated the subject Tru Ryde Hubs in house inventory to change the hub/stud assembly to a known Axle Tech or the Lippert Component hub/stud assembly that is not affected by this embrittlement.

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Production Dates : MAR 01, 2015 - MAR 31, 2015

VIN (Vehicle Identification Number) Range

Begin : NR

End : NR

Not sequential VINs

Vehicle : 2016-2016 Cargo Mate/Continental TW816TA3, TW818TA3, TW818TA3, TW820TA3, TW822TA3, TW824TA3, VHW8.522TA3. VHW8.526TA3 & VHW8.528TA3

Vehicle Type : TRAILERS

Body Style :

Power Train : NR

Descriptive Information : A limited number of Tru Ryde Hubs have been installed on Lippert Component Axles on Forest River products that are suspected in a case hardening of the wheel stud, the stud becoming brittle and sheering off. Lippert Components have isolated the subject Tru Ryde Hubs in house inventory to change the hub/stud assembly to a known Axle Tech or the Lippert Component hub/stud assembly that is not affected by this embrittlement.

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Production Dates : MAR 03, 2015 - MAR 31, 2015

VIN (Vehicle Identification Number) Range

Begin : NR

End : NR

Not sequential VINs

Vehicle : 2016-2016 US Cargo - Haulin HACX8520TA3, HACX8526TA3, HALPP8516TA3, VHAC8524TA3

Vehicle Type : TRAILERS

Body Style :

Power Train : NR

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Production Dates : MAR 03, 2015 - MAR 31, 2015

VIN (Vehicle Identification Number) Range

Begin : NR

End : NR

Not sequential VINs

Vehicle : 2016-2016 US Cargo - Patriot PAC8524TA3, PAC8526TA3, PACX8520TA3, PACX8524TA3, PACX8528TA3, VPACX8516TA3, VPACX8520TA3

Vehicle Type : TRAILERS

Body Style :

Power Train : NR

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failure on the wheel bolt. The stud breakage was under the serrations located on top of the threads." - LCI Statement

Production Dates : MAR 03, 2015 - MAR 31, 2015

VIN (Vehicle Identification Number) Range

Begin : NR

End : NR

Not sequential VINs

Vehicle : 2016-2016 US Cargo - Phantom PC8528TA3

Vehicle Type : TRAILERS

Body Style :

Power Train : NR

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Production Dates : MAR 03, 2015 - MAR 31, 2015

VIN (Vehicle Identification Number) Range

Begin : NR

End : NR

Not sequential VINs

Vehicle : 2016-2016 US Cargo - Trail & Sport TSPP714TA3, TSPP816TA3, TSPP8516TA3

Vehicle Type : TRAILERS

Body Style :

Power Train : NR

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subjected hubs free of charge to the dealership/retail owner. If the axle serial number (on the sticker on the axle) matches the listed numbers and the hub/stud assembly is manufactured by Tru Ryde only.

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Production Dates : MAR 03, 2015 - MAR 31, 2015

VIN (Vehicle Identification Number) Range

Begin : NR

End : NR

Not sequential VINs

Vehicle : 2016-2016 US Cargo TSPP714TA3

Vehicle Type : TRAILERS

Body Style :

Power Train : NR

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Production Dates : MAR 03, 2015 - MAR 31, 2015

VIN (Vehicle Identification Number) Range

Begin : NR

End : NR

Not sequential VINs

Vehicle : 2016-2016 Salem - Laminated F286RL, F327RE, F356QB, F368RLBH, T263RL, T272BH, T272RLIS, T282RK, T299RE, T300BH, T302FK, T312QBUD,

Vehicle Type : TRAILERS

Body Style :

Power Train : NR

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Production Dates : MAR 03, 2015 - MAR 31, 2015

VIN (Vehicle Identification Number) Range

Begin : NR

End : NR

Not sequential VINs

Vehicle : 2016-2016 Grey Wolf & Wolf Pup T16BH, T16BHS, T16FB, T16FQ, T17BH, T17RP, T19RR, T20RD, T23BD, T23DBH, T24RK, T25RL, T25RR, T26BH, T26C, T26DBH, T26RL, T26RR, T27RR, T29BH, T29DSFB, T29VT, T16BHS, T17BH, T17RP, T20RD, T23DBH, T25RR, T26C, T26DBH, T26RL & T27RR

Vehicle Type : TRAILERS

Body Style :

Power Train : NR

Descriptive Information : A limited number of Tru Ryde Hubs have been installed on Lippert Component Axles on Forest River products that are suspected in a case hardening of the wheel stud, the stud becoming brittle and sheering off. Lippert Components have isolated the subject Tru Ryde Hubs in house inventory to change the hub/stud assembly to a known Axle Tech or the Lippert Component hub/stud assembly that is not affected by this embrittlement.

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Production Dates : MAR 03, 2015 - MAR 31, 2015

VIN (Vehicle Identification Number) Range

Begin : NR

End : NR

 Not sequential VINs**Description of Defect :**

Description of the Defect : "Broken wheel stud at in-process torque station not representative of improper torque process but rather a suspect process condition due to the location of the failure on the wheel bolt. The stud breakage was under the serrations located on top of the threads." - LCI Statement

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Description of the Safety Risk : "To date all failures have occurred at in-process torque or at PDI torque process station at the OEM. There have been no field failures. To date, there have been 11 total known wheel bolts break of this nature at two OEM's. As a precautionary measure we opted to locate the production date runs and contain to ensure we do not have any problems while awaiting the test results." - LCI Statement

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Description of the Cause : "Cause is yet unknown. Samples were received of the broken wheel bolts from customer and sent to Exova Lab. We are awaiting formal results to follow as additional samples were sent to the lab. Initial suspicion is embrittlement due to "Tempered Materialistic Embrittlement". - LCI Statement

Forest River is participating in the recall as Lippert Components have filed a their own recall to reflect this subject component. However, Forest River will replace the subjected hubs free of charge to the dealership/retail owner. If the axle serial number (on the sticker on the axle) matches the listed numbers and the hub/stud assembly is manufactured by Tru Ryde only.

Identification of Any Warning that can Occur : "No warning until final torque is placed on the nut." - LCI Statement

Forest River is participating in the recall as Lippert Components have filed a their own recall to reflect this subject component. However, Forest River will replace the subjected hubs free of charge to the dealership/retail owner. If the axle serial number (on the sticker on the axle) matches the listed numbers and the hub/stud assembly is manufactured by Tru Ryde only.

Supplier Identification :**Component Manufacturer**

Name : Lippert Components, Inc.

Address : 27403 College Ave.
Goshen 46528

Country : NR

Chronology :

"March 25, 2015 – Customer contacted Bruce Bailey, LCI Axle Engineer, with a broken stud on three consecutive units on their line. All three occurrences were on the rear door side of the unit. Pictures were sent to Bruce Bailey. The location of the breakage was different than we would typically see on a cross thread or lug nut issue and all three were on a TRP supplied hub and drum. The decision at that time was to place all product built using the SZ141223 through SZ141228 Julian Date on the TRP hubs on hold as a precautionary measure while waiting further testing." - LCI Statement

Lippert Components have isolated the subject Tru Ryde Hubs in house inventory to change the hub/stud assembly to a known Axle Tech or the Lippert Component hub/stud assembly that is not affected by this embrittlement.'

Forest River conducted our own in house searching of our Warranty Data base using the following terms:

Wheel
Wheel Off
Lug
Lug Nut
Hub
Hub Stud
Stud
Stud Break
Stud Fail

Forest River is participating in the recall as Lippert Components have filed a their own recall to reflect this subject component. However, Forest River will replace the subjected hubs free of charge to the dealership/retail owner. If the axle serial number (on the sticker on the axle) matches the listed numbers and the hub/stud assembly is manufactured by Tru Ryde only.

Description of Remedy :

Description of Remedy Program : "Lippert Components will replace the hub from another supplier that has no known issues." - LCI Statement

Furthermore, Lippert Components have isolated the subject Tru Ryde Hubs in house inventory to change the hub/stud assembly to a known Axle Tech or the Lippert Component hub/stud assembly that is not affected by this embrittlement.

Forest River is participating in the recall as Lippert Components have filed a

their own recall to reflect this subject component. However, Forest River will replace the subjected hubs free of charge to the dealership/retail owner. If the axle serial number (on the sticker on the axle) matches the listed numbers and the hub/stud assembly is manufactured by Tru Ryde only.

How Remedy Component Differs from Recalled Component : "Placed all TRP supplier 6 lug hub and drums on hold within the Lippert Facility until testing could be completed. If shipment was needed the product was replaced with a different supplier. This issue has not been located in any other supplier's product or past production runs. Testing is underway in our R & D facility. A fixture was designed to try and repeat the breakage within a controlled environment. Testing is ongoing." - LCI Statement

Furthermore, Lippert Components have isolated the subject Tru Ryde Hubs in house inventory to change the hub/stud assembly to a known Axle Tech or the Lippert Component hub/stud assembly that is not affected by this embrittlement.

Forest River is participating in the recall as Lippert Components have filed a their own recall to reflect this subject component. However, Forest River will replace the subjected hubs free of charge to the dealership/retail owner. If the axle serial number (on the sticker on the axle) matches the listed numbers and the hub/stud assembly is manufactured by Tru Ryde only.

Identify How/When Recall Condition was Corrected in Production : "All hub and drums from TRP were placed on hold, on March 25, 2015." - LCI Statement

Furthermore, Lippert Components have isolated the subject Tru Ryde Hubs in house inventory to change the hub/stud assembly to a known Axle Tech or the Lippert Component hub/stud assembly that is not affected by this embrittlement.

Forest River is participating in the recall as Lippert Components have filed a their own recall to reflect this subject component. However, Forest River will replace the subjected hubs free of charge to the dealership/retail owner. If the axle serial number (on the sticker on the axle)

matches the listed numbers and the hub/
stud assembly is manufactured by Tru
Ryde only.

Recall Schedule :

Description of Recall Schedule : Forest River is participating in the recall as Lippert Components have filed a their own recall to reflect this subject component. However, Forest River will replace the subjected hubs free of charge to the dealership/retail owner. If the axle serial number (on the sticker on the axle) matches the listed numbers and the hub/stud assembly is manufactured by Tru Ryde only.

However, Forest River is going to start notifications as needed to Dealers and Owners as provided in the Notification Dates.

Planned Dealer Notification Date : MAY 29, 2015 - JUN 02, 2015

Planned Owner Notification Date : JUN 02, 2015 - JUN 26, 2015

* NR - Not Reported