

## Appendix 1 – Navistar Safety Recall 24513 - Chronology

- 3/27/2024: Navistar receives a field service report on a bus where 4 out of 6 air disc brake caliper mounting bolts are missing (remaining 2 were loose) on the left rear wheel end. It was also noted that the 2 remaining bolts did not appear to have inspection marks to indicate that the bolts were properly torqued. At this time, there were no additional reports of missing or loose caliper mounting bolts.
- 7/8/2024: Navistar Product Safety begins an investigation into the issue reported in the field report after a warranty search found 4 Prior to Delivery (PTD) and 3 In-service warranty claims for loose or missing caliper bolts. Summary:

<u><i>Chassis</i></u>	<u><i>Build Date</i></u>	<u><i>Claim Date</i></u>	<u><i>Description</i></u>
NB267056	3/25/2021	10/21/2021	Left Rear, 4 bolts missing - In-service – 2789mi
PB557675	3/1/2022	6/20/2022	Right Rear 4 bolts missing – PTD – 1335mi
PB676816	9/22/2022	4/13/2023	Right Rear 4 bolts missing - In-service – 2945mi
RB037877	9/8/2023	3/25/2024	Left Front all bolts missing - In-service – 2216mi
RB370278	9/14/2023	2/7/2024	Left Rear 3 bolts missing – PTD – 1201mi
RB032479	9/14/2023	2/13/2024	Right Rear 1 bolt missing – PTD – 30mi
RB061929	11/29/2023	12/26/2023	Right Front 5 bolts missing – PTD – 1172mi

- 8/28/2024: The field service report was a topic of discussion during the quarterly Safety Evaluation List meeting between Navistar and the NHTSA. At the meeting Navistar indicated that it was aware of the 7 warranty claims of loose or missing bolts on an air disc brake caliper, but that no specific trend in failure mileage or failure location was identified at that time.
- 8/29/2024: Navistar Product Safety became aware of 2 additional reports of loose and missing bolts. Summary:

<u><i>Chassis</i></u>	<u><i>Build Date</i></u>	<u><i>Claim Date</i></u>	<u><i>Description</i></u>
SB797457	5/2/2024	8/15/2024	Right Rear, 3 bolts missing – PTD – 1348mi
SB004334	7/9/2024	8/15/2024	Left Rear, 3 bolts missing – PTD – 1333mi

- 9/3/2024: The Tulsa Bus Plant began an in-station 100% inspection and manual recording of caliper mounting bolt torque data on all air disc brake buses establishing the clean point.
- 9/3/2024 thru 9/16/2024: The Tulsa Bus plant performed a yard inspection of 385 buses finding all were torqued correctly.
- 9/3/2024 thru 9/23/2024: Navistar Product Safety and R&D work to determine the potential vehicle level effects of loose and/or missing caliper mounting bolts and the effect of mileage on the occurrence of the issue.
- 9/16/2024: The Tulsa Bus Plant upgrades DC torque tool traceability to electronically replace the manual inspection. Torque data then reviewed daily to ensure all bolts on every bus were torqued properly. Improvements include features that automatically flag any discrepancies or errors.

- 9/22/2024: Navistar Product Safety became aware of 1 additional report of loose and missing air disc brake caliper mounting bolts. Summary:

<i><b>Chassis</b></i>	<i><b>Build Date</b></i>	<i><b>Claim Date</b></i>	<i><b>Description</b></i>
RB619594	8/3/2023	9/22/2024	Left Rear, 3 bolts missing – In-service ~300mi

- 9/23/2024: Navistar finalizes the suspect population, using August 1, 2023 as the beginning of a possible trend and with the knowledge that the failure would manifest itself prior to the bus achieving 4000 miles.
- 9/25/2024: Navistar declares a Safety Recall.
- 10/11/2024: Navistar amends its original submission to remove errors in the reporting of affected model descriptions and chronology truncation.