The information contained in this report was submitted pursuant to 49 CFR §573

Part 573 Safety Recall Report

Manufacturer Name :	Navistar, Inc.
Submission Date :	JUN 12, 2023
NHTSA Recall No. :	23V-370
Manufacturer Recall No. :	23515

Manufacturer Information :

Manufacturer Name : Navistar, Inc. Address : 2701 Navistar Drive Lisle IL 60532

Company phone : 331-332-1590

Vehicle Information :

Descriptive Information :	 The suspect population is identified by models equipped with for 04AZS or 04AZY (Air Brake, Bendix Anti-Lock Brake system [ABS] with Stability Program [ESC] and Automatic Traction Control [ATC]); softwar ROM 4.1 or ROM 5.1. The inclusive dates of manufacture were determined by when N the use of feature codes 04AZS and 04AZY with software versions ROM 5.1 through the date the software issue was corrected in production with software versions ROM 4.2 and ROM 5.2. The vehicles in the suspect population were built with feature of 04AZY and all similar vehicles not subject to this recall were not built we codes 04AZS or 04AZY. 	Electronic re versions Javistar began 4.1 or ROM th updated odes 04AZS or
	OCT 05, 2020 - MAY 02, 2023	
VIN Range 1:	Begin: NR End: NR 🗌 N	ot sequential



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Population :

Number of potentially involved : 72,817 Estimated percentage with defect : 100 %

Vehicle 2 :	2021-2024 I	nternational I	-IX		
Vehicle Type :	BUSES, MED	IUM & HEAVY	VEHICLES		
Body Style :	OTHER				
Power Train :	DIESEL				
Descriptive Information :	04AZS or 04 Stability Pro ROM 4.1 or H • The i the use of fea 5.1 through software ver • The v 04AZY and a codes 04AZS	AZY (Air Brak gram [ESC] ar ROM 5.1. Inclusive dates ature codes 04 the date the se rsions ROM 4.2 vehicles in the ll similar vehi	e, Bendix An ad Automatic s of manufac IAZS and 04, oftware issue 2 and ROM 5 e suspect pop cles not subj	ti-Lock Brai Traction Co ture were d AZY with so was correc .2. pulation wer ect to this r	dels equipped with feature code ke system [ABS] with Electronic ontrol [ATC]); software versions etermined by when Navistar began ftware versions ROM 4.1 or ROM cted in production with updated ce built with feature codes 04AZS or ecall were not built with feature pulation
Production Dates :					•
VIN Range 1:1		NR	End :	NR	☐ Not sequential
Body Style : Power Train : Descriptive Information :	DIESEL • The solution of the	AZY (Air Brak gram [ESC] ar ROM 5.1. Inclusive date ature codes 04 the date the so isions ROM 4.2 vehicles in the ll similar vehi 5 or 04AZY.	e, Bendix An ad Automatic s of manufac IAZS and 04 oftware issue 2 and ROM 5 e suspect pop cles not subj	ti-Lock Brai Traction Co ture were d AZY with so was correc .2. pulation wer ect to this r	odels equipped with feature code ke system [ABS] with Electronic ontrol [ATC]); software versions etermined by when Navistar began ftware versions ROM 4.1 or ROM cted in production with updated re built with feature codes 04AZS of ecall were not built with feature
Production Dates ·				ii uie suspe	ct population
				NR	\Box Not sequential
Production Dates : VIN Range 1 : 1	OCT 05, 202	94 LoneStar se 0 - MAY 08, 20 NR		-	ct population

Vehicle 4:	2021-2024 II	nternational I	.T	
Vehicle Type :	BUSES, MEDI	UM & HEAVY	VEHICLES	
Body Style :	OTHER			
Power Train :	DIESEL			
Descriptive Information :	04AZS or 04A Stability Prog ROM 4.1 or R • The in the use of fea 5.1 through t software vers • The v 04AZY and al codes 04AZS	AZY (Air Brak gram [ESC] ar OM 5.1. nclusive dates ture codes 04 he date the so sions ROM 4.2 rehicles in the ll similar vehi or 04AZY.	e, Bendix Anti-Lock Bra ad Automatic Traction C s of manufacture were of AZS and 04AZY with so oftware issue was correct 2 and ROM 5.2. suspect population we cles not subject to this r	odels equipped with feature code ke system [ABS] with Electronic ontrol [ATC]); software versions letermined by when Navistar began oftware versions ROM 4.1 or ROM cted in production with updated re built with feature codes 04AZS or recall were not built with feature
	There are 45	,931 LT serie	s trucks in the suspect p	opulation
Production Dates :	OCT 05, 2020) - MAY 09, 20	23	
VIN Range 1:	Begin :	NR	End: NR	🗌 Not sequential
Body Style : Power Train : Descriptive Information :	DIESEL • The s 04AZS or 04A Stability Prog ROM 4.1 or R • The in the use of feat 5.1 through the software verse • The w 04AZY and all codes 04AZS	AZY (Air Brak gram [ESC] ar COM 5.1. Inclusive dates ture codes 04 he date the so sions ROM 4.2 rehicles in the ll similar vehi or 04AZY.	e, Bendix Anti-Lock Bra ad Automatic Traction C s of manufacture were c IAZS and 04AZY with so oftware issue was corre- 2 and ROM 5.2.	odels equipped with feature code ke system [ABS] with Electronic ontrol [ATC]); software versions letermined by when Navistar began oftware versions ROM 4.1 or ROM cted in production with updated re built with feature codes 04AZS or recall were not built with feature
	OCT 05 2020) - MAY 09, 20	123	•
Production Dates :	001 00, 2020			

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l'emere e i	2021-2024	International	eMV (Mediu	m Electric Tru	ıck)	
Vehicle Type :	BUSES, MED	IUM & HEAVY	Y VEHICLES			
Body Style :	OTHER					
Power Train :	HYBRID ELI	ECTRIC				
Descriptive Information :	04AZS or 04 Stability Pro ROM 4.1 or 7 • The the use of fe 5.1 through software ver • The 04AZY and a codes 04AZS	AZY (Air Brak ogram [ESC] an ROM 5.1. inclusive date ature codes 0- the date the so rsions ROM 4. vehicles in the all similar vehics or 04AZY.	te, Bendix An and Automati s of manufac 4AZS and 04 oftware issu 2 and ROM 5 e suspect po- icles not sub	nti-Lock Brake c Traction Con cture were de AZY with soft le was correct 5.2. pulation were	e system [A ntrol [ATC]) termined by ware versio ed in produ built with f call were no	d with feature code BS] with Electronic ; software versions y when Navistar begar ons ROM 4.1 or ROM ction with updated feature codes 04AZS of to built with feature
Production Dates :	DEC 08, 202	0 - MAY 03, 20	023			
VIN Range 1:	Begin :	NR	End :	NR		Not sequential
Body Style : Power Train : Descriptive Information :	DIESEL • The 04AZS or 04 Stability Pro ROM 4.1 or 7 • The the use of fe 5.1 through software ver • The 04AZY and a codes 04AZS	AZY (Air Brak ogram [ESC] an ROM 5.1. inclusive date ature codes 0- the date the so rsions ROM 4. vehicles in the all similar vehics or 04AZY.	te, Bendix An and Automati s of manufac 4AZS and 04 oftware issu 2 and ROM 5 e suspect po- icles not sub	nti-Lock Brake c Traction Con cture were de AZY with soft le was correct 5.2. pulation were	e system [A ntrol [ATC]) termined by ware versio ed in produ built with t call were no	d with feature code BS] with Electronic ; software versions y when Navistar began ons ROM 4.1 or ROM ction with updated feature codes 04AZS of ot built with feature
			092			
Production Dates :	MAY 05, 202	20 - MAY 09, 2	023			

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Vehicle 8:	2021-2024 IC	C Bus CE Com	mercial bus	
Vehicle Type :	BUSES, MEDI	UM & HEAVY	VEHICLES	
Body Style :	OTHER			
Power Train :	DIESEL			
	04AZS or 04A Stability Prog ROM 4.1 or R • The in the use of fea 5.1 through the software vers • The v 04AZY and all codes 04AZS	AZY (Air Brak gram [ESC] an OM 5.1. nclusive dates ture codes 04 he date the sc sions ROM 4.2 ehicles in the l similar vehic or 04AZY.	e, Bendix Anti-Lock Brake sy d Automatic Traction Contro s of manufacture were deter AZS and 04AZY with softwa ftware issue was corrected 2 and ROM 5.2.	ol [ATC]); software versions mined by when Navistar begar re versions ROM 4.1 or ROM in production with updated ilt with feature codes 04AZS o were not built with feature
Production Dates :			1 1 1	
VIN Range 1: H		NR	End: NR	Not sequential
	 The s 04AZS or 04A Stability Prog ROM 4.1 or R The in the use of fea 5.1 through the software verse The v 	AZY (Air Brak gram [ESC] an OM 5.1. nclusive dates ture codes 04 he date the so sions ROM 4.2 ehicles in the l similar vehic	e, Bendix Anti-Lock Brake sy d Automatic Traction Contro s of manufacture were deter AZS and 04AZY with softwa ftware issue was corrected 2 and ROM 5.2.	ol [ATC]); software versions mined by when Navistar began re versions ROM 4.1 or ROM in production with updated ilt with feature codes 04AZS on
Duraduation Dates			al buses in the suspect popu	lation
Production Dates :		- DEC 21, 202 NR	End: NR	☐ Not sequential
VIN Range 1: H		INIC	LIIU. INK	

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Production Dates :	There are 44 TC com MAR 30, 2021 - JUN		es in the suspe	ct population	
	software versions R(• The vehicles	OM 4.2 and H in the suspe r vehicles no	ROM 5.2. ect population v	rected in production with update vere built with feature codes 04A s recall were not built with featu	AZS of
	ROM 4.1 or ROM 5.1. • The inclusive the use of feature co	e dates of ma des 04AZS a	anufacture wer nd 04AZY with	Control [ATC]); software versio e determined by when Navistar k software versions ROM 4.1 or R	began OM
Descriptive Information :	04AZS or 04AZY (Air	Brake, Ben	dix Anti-Lock B	nodels equipped with feature co rake system [ABS] with Electron	nic
Body Style : Power Train :					
01	BUSES, MEDIUM & H	EAVY VEHI	CLES		
Vehicle 10:	2022-2023 IC Bus TO	Commercia	al bus		

Description of Noncompliance :

	The ABS indicator lamp does not conform to Federal Motor Vehicle Safety Standard (FMVSS) No. 121 6.2 (a). Specifically, the ABS indicator lamp does not remain activated when a malfunction exists, whenever the vehicle's ignition switch is in the on (run) position, and the vehicle is in motion.
FMVSS 1 :	121 - Air brake systems
FMVSS 2 :	NR
Description of the Safety Risk :	If a fault exists with the ABS components and the lamp does not stay illuminated when the vehicle is in motion, during an event that requires ABS, a vehicle operator may not realize there is a fault with the ABS system, which can increase the risk of a vehicle crash that may result in property damage or personal injury.
Description of the Cause :	When there is an active ABS fault and when the vehicle is in motion, the brake system Electronic Control Unit (ECU) blink code function interfered with the ABS indicator lamp signal broadcast over the Controller Area Network (CAN) which causes the ABS indicator lamp to turn off. The ABS indicator lamp then re-illuminates when the vehicle comes to a stop.
Identification of Any Warning	A fault in the ABS system will also illuminate the Traction Control and Stability
that can Occur :	Control indicator lamps. These will remain illuminated while the vehicle is in motion.

Involved Components :

Component Name 1 :ECU ABS softwareComponent Description :ECU ABS-8 ROM 4.1 and 5.1 softwareComponent Part Number :ECU Z251843 to Z286098 and Z281032 to Z285654

Supplier Identification :

Component Manufacturer

Name : Bendix Commercial Vehicle Systems, LLC

Address : 35500 Chester Rd

Avon Ohio 44011

Country: United States

Chronology :

• 05/05/2023 – Navistar Research and Development ("R&D") communicates to Compliance a potential defect with ABS indicator lamp functionality and initiates investigation.

• 05/09/2023 – R&D, Regulatory Compliance, Supplier Quality, Service Engineering and Compliance review investigation results and evaluate impact of same on compliance with FMVSS 121 Section 6.2(a).

- 05/10/2023 Navistar quarantines all suspect vehicles at all vehicle manufacturing plants.
- 5/15/2023 Navistar Compliance receives confirmation from Bendix that a defect exists in a portion of

their ABS-8 ROM 4.1 and newer software that may affect Navistar vehicles.

- 05/17/2023 Navistar finalizes the suspect population.
- 05/18/2023 Navistar declares Non Compliance Recall.

Description of Remedy :

Description of Remedy Program :	J 0 1
	code function disabled so it does not interfere with ABS fault logic command for ABS lamp.
	• Navistar's plan for reimbursement of pre-notification remedies, on
	file with NHTSA and dated $05/06/2022$, applies and reimbursement
	instructions will be included in the customer notification.
5 1	The updated software for the remedy disables the blink code command
from Recalled Component :	that interfered with the ABS lamp command in the recalled population.
	The recalled population contains the blink code command that interferes
	with the ABS lamp command.



Identify How/When Recall Condition
was Corrected in Production :05/15/2023 – Navistar production began use of updated software and/or
installation of ECU's with updated software.

Recall Schedule :

Description of Recall Schedule :It is estimated that the Customer and Dealer notification letters will be
mailed by 07/24/2023.Planned Dealer Notification Date :JUL 24, 2023 - JUL 24, 2023Planned Owner Notification Date :JUL 24, 2023 - JUL 24, 2023

* NR - Not Reported