

HELPING PREVENT PEDIATRIC HEATSTROKE THROUGH REAR SEAT REMINDER SYSTEMS

October 2023

Industry Progress in Advancing Safety

In 2019, several leading automakers made a proactive, voluntary Commitment to install rear seat reminder systems in new vehicles to help combat instances of pediatric heatstroke attributable to a child being left in a vehicle by a parent or caregiver.¹

Participating manufacturers committed to install these rear seat reminder systems as standard equipment beginning on either September 1, 2024 or for model year 2025 vehicles (depending on the individual manufacturer production schedules).

Already, there has been significant progress in meeting the goals of the Commitment. This report provides an update on the progress made in meeting the goals of this Commitment, and highlights further actions and expanded consumer awareness to help support a holistic approach to this important safety issue. Based on this data, more than 215 vehicles now have a rear seat reminder system as standard or optional equipment, representing a five-fold increase in available models since the Commitment was established four years ago.

Understanding the Challenge

Tragically, every year children die of heatstroke, also known as hyperthermia, while unattended in vehicles. The number of children rescued before a fatality occurs is significantly higher. Young children are particularly at risk because their bodies can heat up three to five times faster than adults. In addition to the industry's Commitment, automakers are working to spread the message on the dangers of heatstroke and to educate parents and caregivers about never leaving a child unattended in a vehicle – no matter how briefly.

How does Heatstroke Happen?

Once a vehicle is parked, temperatures inside can rise rapidly. In minutes, the car's interior temperature can significantly exceed the outside, ambient air. Heatstroke can happen any time of year.

What is a Rear Seat Reminder?

A key aspect of the industry's Commitment is ensuring manufacturers maintain the ability to develop new and innovative safety features that adapt to changes in how parents and caregivers interact with these systems. Today, there are several types of rear seat systems available. One includes an end-of-trip reminder once the vehicle has been turned off that provides a visual and audible alert to the driver when occupants are potentially present in the rear seat. Another technology, occupant sensing, is designed to detect motion in the rear row of the vehicle and provide similar alerts to the driver.

Ensuring a Holistic Approach

As rear seat reminder systems become more prevalent within the new vehicle fleet, it remains important to continue the focus on consumer education. Such awareness can help to highlight the challenges in addressing pediatric heatstroke and strategies to help reduce the likelihood of these tragic incidents.

¹ Leading Automakers' Commitment to Implement Rear Seat Reminder Systems

<https://www.autosinnovate.org/safety/heatstroke/Automakers%20Commit%20to%20Helping%20Combat%20Child%20Heatstroke.pdf>

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To support these efforts, federal and state policymakers must ensure necessary funding is available for advertising, as well as grassroots initiatives to raise awareness among parents, caregivers, and the extended childcare community. These activities should be targeted to ensure greater consumer awareness, particularly during warmer months, which can vary by state. Additional resources have been made available by the National Highway Traffic Safety Administration (NHTSA) and can be accessed on the agency's [website](#).

The availability of new aftermarket products that integrate with Child Restraint Systems (commonly known as car seats) provide an additional layer of awareness about the potential presence of a child in the rear seat of the vehicle.

By taking a holistic approach, automakers hope to reach the shared goal of zero pediatric heatstroke deaths in the United States. Additional information can be found on Alliance for Automotive Innovation's [website](#).² Individual manufacturer reports can also be found in a NHTSA docket that has been established to provide an option for OEMs to update the public on their ongoing progress toward the Commitment.³

LEARN MORE ABOUT PREVENTING PEDIATRIC HEATSTROKE



Rear Seat Reminder System Availability – Individual Manufacturer Progress

The following is a list of automakers and models with rear seat reminder systems provided as standard equipment, unless otherwise stated. For each manufacturer listed, the vehicle models represent those manufactured between September 1, 2022 through August 31, 2023 (unless a model year designation is otherwise noted).

While certain manufacturers do not have models listed as having a rear seat reminder system equipped as standard equipment for this reporting year, we understand that progress is being made to ensure these systems are available in future years.

² Alliance for Automotive Innovation's Website: <https://www.autosinnovate.org/initiatives/safety/heat-stroke-prevention>

³ NHTSA Docket: <https://www.regulations.gov/docket/NHTSA-2019-0126/document>

COMPANY	MAKE	MODEL	MODEL YEARS
American Honda Motor Co., Inc	Honda	Accord	2022, 2023, 2024
	Honda	Civic	2022,2023, 2024
	Honda	CR-V	2023, 2024
	Honda	HR-V	2023, 2024
	Honda	Odyssey	2022, 2023, 2024
	Honda	Passport	2022, 2023, 2024
	Honda	Pilot	2023, 2024
	Acura	Integra	2023, 2024
	Acura	MDX	2022, 2023, 2024
	Acura	RDX	2022, 2023
BMW of North America, LLC	BMW	X1	2023
	BMW	3 Series	2024
	BMW	X6 and X6 M	2024
	BMW	X7 (including ALPINA XB7)	2023, 2024
	BMW	XM	2023, 2024
	BMW	iX	2023, 2024
	BMW	4 Series Gran Coupe (including i4)	2024
	BMW	7 Series (including i7)	2023, 2024
FCA US LLC	Chrysler	Pacifica (including hybrid)	2023
	Dodge	Durango (including SRT)	2023
	Dodge	Hornet	2023
	Jeep	Compass	2023
	Jeep	Grand Cherokee	2023
	Jeep	Grand Cherokee 4xe	2023
	Jeep	Grand Cherokee L	2023
	Jeep	Wagoneer and Grand Wagoneer	2023
	Ram	2500 Crew Cab	2023
	Ram	2500 Mega Cab	2023
	Ram	1500 Crew Cab	2023
	Ram	1500 Quad Cab	2023
Ram	1500 TRX	2023	
Ford Motor Company	Ford	Bronco 4DR	2022, 2023, 2024
	Ford	Bronco Sport	2022, 2023, 2024

COMPANY	MAKE	MODEL	MODEL YEARS
Ford Motor Company	Ford	Edge	2022, 2023, 2024
	Ford	Escape	2022, 2023, 2024
	Ford	Expedition	2022, 2023, 2024
	Ford	Explorer	2022, 2023, 2024
	Ford	Explorer Police Interceptor*	2022, 2023, 2024
	Ford	F-150 (Super Cab, Crew Cab)	2022, 2023, 2024
	Ford	F-150 Police Responder	2022, 2023, 2024
	Ford	Maverick	2022, 2023, 2024
	Ford	Mustang Mach E	2022, 2023, 2024
	Ford	Ranger	2022, 2023, 2024
	Ford	Super Duty (Super Cab, Crew Cab)	2022, 2023, 2024
	Ford	Transit*	2023
	Ford	Transit Connect*	2023, 2024
	Lincoln	Aviator	2023, 2024
	Lincoln	Corsair	2022, 2023, 2024
Lincoln	Nautilus	2022, 2023, 2024	
Lincoln	Navigator	2022, 2023, 2024	
General Motors LLC	Buick	Enclave	2023, 2024
	Buick	Encore	2022
	Buick	Encore GX	2023, 2024
	Buick	Envision	2023
	Buick	Envista	2024
	Cadillac	CT4	2023, 2024
	Cadillac	CT5	2023, 2024
	Cadillac	Escalade	2023, 2024
	Cadillac	Escalade ESV	2023, 2024
	Cadillac	LYRIQ	2023, 2024
	Cadillac	XT4	2023, 2024
	Cadillac	XT5	2023, 2024
	Cadillac	XT6	2023, 2024
	Cadillac	Celestiq	2024
	Chevrolet	Malibu	2022, 2023, 2024
Chevrolet	Silverado EV (Crew Cab)	2024	

COMPANY	MAKE	MODEL	MODEL YEARS
General Motors LLC	Chevrolet	Silverado 1500 (Crew Cab, Ext Cab)	2022, 2023, 2024
	Chevrolet	Silverado 2500 (Crew Cab, Ext Cab)	2022, 2023, 2024
	Chevrolet	Silverado 3500 (Crew Cab, Ext Cab)	2022, 2023, 2024
	Chevrolet	Spark (2LT Only)	2022
	Chevrolet	Suburban	2023, 2024
	Chevrolet	Tahoe	2023, 2024
	Chevrolet	Trailblazer	2023, 2024
	Chevrolet	Traverse	2023, 2024
	Chevrolet	Traverse (All New)	2024
	Chevrolet	Trax	2022
	Chevrolet	Trax (All New)	2024
	GMC	Acadia	2023
	GMC	Acadia (All New)	2024
	GMC	Canyon	2022
	GMC	Canyon (All New)	2023, 2024
	GMC	Hummer EV Pickup	2022, 2023
	GMC	Hummer EV SUV	2024
	GMC	Sierra 1500	2022, 2023, 2024
	GMC	Sierra 2500	2023, 2024
	GMC	Sierra 3500	2023, 2024
GMC	Terrain	2022, 2023, 2024	
GMC	Yukon	2023, 2024	
GMC	Yukon XL	2023, 2024	
Hyundai Motor America	Hyundai	Santa Fe	2019*, 2020, 2021, 2022, 2023, 2024
	Hyundai	Sonata	2020, 2021, 2022, 2023, 2024
	Hyundai	Palisade	2020, 2021, 2022, 2023, 2024
	Hyundai	Elantra	2021, 2022, 2023, 2024
	Hyundai	Ioniq 5	2022, 2023, 2024
	Hyundai	Kona	2022, 2023, 2024
	Hyundai	Tucson	2022, 2023, 2024
	Hyundai	Santa Cruz	2022, 2023, 2024
	Hyundai	Venue	2023, 2024
	Hyundai	Ioniq 6	2023, 2024

COMPANY	MAKE	MODEL	MODEL YEARS
Hyundai Motor America	Genesis	G80	2021*, 2022, 2023, 2024
	Genesis	GV80	2021*, 2022, 2023, 2024
	Genesis	G70	2022, 2023, 2024
	Genesis	GV70	2022, 2023, 2024
	Genesis	GV60	2023, 2024
	Genesis	G90	2023, 2024
Kia Motors America	Kia	Carnival	2022, 2023, 2024
	Kia	EV6	2022, 2023, 2024
	Kia	EV9	2024
	Kia	Forte	2022, 2023, 2024
	Kia	K5	2022, 2023, 2024
	Kia	Niro	2022, 2023, 2024
	Kia	Niro EV	2022, 2023, 2024
	Kia	Rio (discontinued after MY23)	2022, 2023
	Kia	Seltos	2022, 2023, 2024
	Kia	Sorento	2022, 2023, 2024
	Kia	Soul	2022, 2023, 2024
	Kia	Sportage	2022, 2023, 2024
	Kia	Stinger (discontinued after MY23)	2022, 2023
	Kia	Telluride	2022, 2023, 2024
Mazda	Mazda	CX-90	2024
	Mazda	3	2024
	Mazda	CX30	2024
Mercedes-Benz USA, LLC	Mercedes-Benz	CLA	<i>Vehicles Manufactured</i>
	Mercedes-Benz	E-Class	<i>Sept. 1, 2022 - Aug. 31, 2023</i>
	Mercedes-Benz	GLA	
	Mercedes-Benz	GLC	
	Mercedes-Benz	GLC Coupe	
	Mercedes-Benz	GLE	
	Mercedes-Benz	EQE SUV	
	Mercedes-Benz	GLE Coupe	
	Mercedes-Benz	GLS	
Mercedes-Benz	EQS SUV		

COMPANY	MAKE	MODEL	MODEL YEARS
Mercedes-Benz USA, LLC	Mercedes-Maybach	EQS SUV	
	Mercedes-AMG	GT 4-Door Coupe	
Mitsubishi Motors North America, Inc	Mitsubishi	Outlander	<i>Vehicles Manufactured</i>
	Mitsubishi	Outlander Plug-In Hybrid SUV	<i>Sept. 1, 2022 - Aug. 31, 2023</i>
Nissan North America, Inc.	Nissan	Versa	2022, 2023, 2024
	Nissan	Sentra	2022, 2023, 2024
	Nissan	Altima	2023, 2024
	Nissan	Maxima	2023
	Nissan	LEAF	2023, 2024
	Nissan	Pathfinder	2023, 2024
	Nissan	Frontier	2023, 2024
	Nissan	Titan	2023, 2024
	Nissan	Rogue	2023
	Nissan	Murano	2023, 2024
	Nissan	Kicks	2023, 2024
	Nissan	Rogue Sport	2022
	Nissan	Armada	2022, 2023
	Nissan	ARIYA	2023, 2024
	Infiniti	Infiniti	QX50
Infiniti		QX55	2024
Infiniti		QX60	2023, 2024
Infiniti		QX80	2023, 2024
Subaru of America, Inc.		Subaru	Crosstrek
	Subaru	Impreza (Sedan + 5-door)	2023
	Subaru	Impreza (5-door)	2024
	Subaru	WRX	2022, 2023
	Subaru	Legacy	2022, 2023, 2024
	Subaru	Outback	2022, 2023, 2024
	Subaru	Forester	2022, 2023, 2024
	Subaru	Ascent	2022, 2023, 2024
Subaru	Solterra	2023	

COMPANY	MAKE	MODEL	MODEL YEARS
Toyota Motor North America, Inc.	Toyota	4Runner	<i>Vehicles Manufactured</i>
	Toyota	bZ4X	<i>Sept. 1, 2022 - Aug. 31, 2023</i>
	Toyota	Camry	
	Toyota	Camry Hybrid	
	Toyota	Corolla	
	Toyota	Corolla Hybrid	
	Toyota	Corolla Cross	
	Toyota	Corolla Cross Hybrid	
	Toyota	Corolla Hatchback	
	Toyota	Crown	
	Toyota	GR Corolla	
	Toyota	Grand Highlander	
	Toyota	Grand Highlander Hybrid	
	Toyota	Highlander	
	Toyota	Highlander Hybrid	
	Toyota	Mirai	
	Toyota	Prius	
	Toyota	Prius Prime	
	Toyota	RAV4	
	Toyota	RAV4 Hybrid	
	Toyota	RAV4 Prime	
	Toyota	Sequoia	
	Toyota	Sienna	
	Toyota	Tacoma	
	Toyota	Tundra	
	Toyota	Tundra Hybrid	
	Toyota	Venza	
	Lexus	ES	
	Lexus	ES Hybrid	
	Lexus	GX	
	Lexus	IS	
	Lexus	LS	
Lexus	LS Hybrid		

COMPANY	MAKE	MODEL	MODEL YEARS
Toyota Motor North America, Inc.	Lexus	LX	
	Lexus	NX	
	Lexus	NX Hybrid	
	Lexus	NX Plug-In Hybrid EV	
	Lexus	RX	
	Lexus	RX Hybrid	
	Lexus	RX Plug-In Hybrid EV	
	Lexus	RZ	
	Lexus	UX Hybrid	
	Volkswagen Group of America	Audi	A6
Audi		A7	2024
Audi		A8	2024
Audi		Q8	2024
Audi		Q8 eTron	2024
Audi		eTron GT	2024
Audi		Q7	2024
VW		Atlas	2024
VW		Cross Sport	2024

* Rear seat reminder provided as optional equipment