## H.R.3628

To amend subchapter II of chapter 301 of title 49, United States Code, to require crash avoidance technologies, and for other purposes.

## IN THE HOUSE OF REPRESENTATIVES

May 28, 2021

Ms. Schakowsky introduced the following bill; which was referred to the Committee on Energy and Commerce

## A BILL

To amend subchapter II of chapter 301 of title 49, United States Code, to require crash avoidance technologies, and for other purposes.

- 1 Be it enacted by the Senate and House of Representa-
- 2 tives of the United States of America in Congress assembled,
- 3 SECTION 1. SHORT TITLE.
- This Act may be cited as the "21st Century Smart
- 5 Cars Act".
- 6 SEC. 2. 21ST CENTURY SMART CARS.
- 7 (a) Crash Avoidance Rulemaking.—
- 8 (1) IN GENERAL.—Subchapter II of chapter
- 9 301 of title 49, United States Code, is amended by
- adding at the end the following:

- 1 "§ 30130. Crash avoidance rulemaking "(a) IN GENERAL.—Not later than 2 years after the 2 3 date of enactment of this section, the Secretary shall issue final rules prescribing motor vehicle safety standards 4 5 that— "(1) establish minimum performance require-6 7 ments for the crash avoidance systems described in 8 subsection (b); and 9 "(2) require all new passenger motor vehicles 10 manufactured for sale in the United States, introduced or delivered for introduction in interstate com-11 12 merce, or imported into the United States to be 13 equipped with the crash avoidance systems described 14 in subsection (b). "(b) Crash Avoidance Systems.—The Secretary 15 shall issue motor vehicle safety standards for each of the following crash avoidance systems—
- 16 17 18 "(1) forward collision warning and automatic
- 19 emergency braking that detects potential collisions 20 with vehicles, objects, pedestrians, bicyclists, and other vulnerable road users while the vehicle is trav-22 eling forward, provides a warning to the driver, and 23 automatically applies the brakes to avoid or mitigate 24 the severity of a collision;
- "(2) rear automatic emergency braking that de-25 26 tects a potential collision with vehicles, objects, pe-

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- destrians, bicyclists, and other vulnerable road users
  while a vehicle is travelling in reverse and automatically applies the brakes to avoid or mitigate the severity of a collision;
  - "(3) rear cross traffic warning that detects vehicles, objects, pedestrians, bicyclists, and other vulnerable road users approaching from the side and rear of a vehicle as it travels in reverse and alerts the driver;
    - "(4) lane departure warning that monitors a vehicle's position in its lane and alerts the driver as the vehicle approaches or crosses lane markers; and
  - "(5) blind spot warning that detects a vehicle, pedestrian, bicyclist, and other vulnerable road user to the side or rear of a vehicle and alerts the driver to their presence, including when a driver attempts to change the course of travel toward another vehicle or road user in the blind zone of the vehicle.
- "(c) Considerations.—In prescribing the motor vehicle safety standards required in subsection (a), the Secretary shall require that the crash avoidance systems—
- 22 "(1) perform effectively at speeds for which a 23 passenger motor vehicle is designed to operate, in-24 cluding on city streets and highways; and

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1	"(2) include self-diagnostic capability and warn-
2	ing when inoperable.
3	"(d) Compliance Date.—The compliance date of
4	the standards prescribed under subsection (a) shall not ex-
5	ceed more than 2 years from the date final rules are
6	issued.
7	"(e) Rulemaking on Point of Sale Informa-
8	TION.—Not later than 18 months after the date of enact-
9	ment of this section, the Secretary shall issue a final rule
10	to require clear and concise information about the capa-
11	bilities and limitations of advanced crash avoidance sys-
12	tems described in subsection (b) to be provided to a con-
13	sumer at the point of sale and in the vehicle owner's man-
14	ual, including a publicly accessible electronic owner's man-
15	ual.
16	"(f) Headlamps.—
17	"(1) Not later than 2 years after the date of
18	enactment of this section, the Secretary shall issue
19	a final rule amending section 571.108 of title 49,
20	Code of Federal Regulations to—
21	"(A) improve illumination of the roadway;
22	"(B) prevent glare;
23	"(C) establish minimum performance
24	standards for—

1	"(i) semi-automatic headlamp beam
2	switching;
3	"(ii) curve adaptive headlamps; and
4	"(iii) adaptive driving beam headlamp
5	technology.
6	"(2) The compliance date of the revised stand-
7	ard prescribed under paragraph (1) shall not exceed
8	more than 2 years from the effective date.
9	"(3) Not later than 1 year after the date of en-
10	actment of this section, the Secretary shall finalize
11	the Rulemaking (83 Fed. Reg. 51766) to permit the
12	certification of adaptive driving beam headlighting
13	systems.
14	"(g) Definitions.—In this section:
15	"(1) Crash avoidance.—The term 'crash
16	avoidance' has the meaning given to that term in
17	section 32301.
18	"(2) Passenger motor vehicle.—The term
19	'passenger motor vehicle' has the meaning given to
20	that term in section 32101.".
21	(2) Conforming amendment.—The table of
22	sections for subchapter II of chapter 301 of title 49,
23	United States Code, is further amended by adding
24	after the item relating to section 30129 (as added
25	by section 32002(a)(2)) the following:
	"20120 Crash avoidance mlamaking"

1	(b) Research of Advanced Crash Systems.—
2	(1) IN GENERAL.—Subchapter II of chapter
3	301 of title 49, United States Code, as amended by
4	section(a)(1), is further amended by adding at the
5	end the following:
6	"§ 30131. Advanced crash systems research and con-
7	sumer education
8	"(a) Advanced Crash Systems Research.—
9	"(1) Not later than 2 years after the date of
10	enactment of this section, the Secretary shall com-
11	plete research into the following:
12	"(A) Direct driver monitoring systems that
13	will minimize driver disengagement, driver dis-
14	traction, prevent automation complacency, and
15	foreseeable misuse of vehicle automation.
16	"(B) Lane keeping assistance that assists
17	with steering to keep a vehicle within its driving
18	lane.
19	"(C) Automatic collision notification sys-
20	tems that—
21	"(i) notify emergency responders that
22	a crash has occurred and provide the geo-
23	graphical location of the vehicle and crash
24	data in a manner that allows for assess-

1	ment of potential injuries and emergency
2	response; and
3	"(ii) transfer to the Secretary
4	anonymized automatic crash data for the
5	purposes of safety research and statistical
6	analysis.
7	"(D) Intelligent Speed Assist that—
8	"(i) determines the applicable speed
9	limit where the vehicle is operating; and
10	"(ii) alerts the driver to the current
11	speed limit and discourages exceeding that
12	limit.
13	"(2) Requirements.—In conducting the re-
14	search required under subsection (a), the Secretary
15	shall—
16	"(A) develop one or more tests to evaluate
17	the performance of the systems;
18	"(B) determine criteria that would be rea-
19	sonable and practicable at evaluating the per-
20	formance of the systems; and
21	"(C) determine fail, pass, or advanced pass
22	criteria to assure the systems are performing
23	their intended function.
24	"(3) Report.—The Secretary shall submit a
25	report detailing findings from the research required

- under subsection (a) to the House Energy and Commerce Committee and the Senate Commerce, Science, and Transportation Committee not later than 3 years after the date of enactment of this Act.
  - "(4) RULEMAKING.—Not later than 4 years after the date of enactment of this section, the Secretary shall issue final rules to establish motor vehicle safety standards for the advanced crash systems described in this subsection and to require all new passenger motor vehicles manufactured for sale in the United States, introduced or delivered for introduction in interstate commerce, or imported into the United States produced after the compliance date of such standards to be equipped with advanced crash avoidance systems described in this subsection.
    - "(5) LEAD TIME.—The compliance date of the standards prescribed under this section shall not exceed more than 2 model years from the date a motor vehicle safety standard is finalized.
    - "(6) CRASH DATA.—If the Secretary makes a determination that establishing a motor vehicle safety standard described in paragraph (1)(C)(ii) does not meet the requirements and considerations set forth in subsections (a) and (b) of section 30111 of title 49, United States Code, the Secretary—

1	"(A) shall submit a report describing the
2	reasons for reaching such a determination to
3	the Committee on Energy and Commerce of the
4	House of Representatives and the Committee
5	on Commerce, Science, and Transportation in
6	the Senate; and
7	"(B) may not issue such a standard.
8	"(b) Definitions.—In this section:
9	"(1) Crash avoidance.—The term 'crash
10	avoidance' has the meaning given to that term in
11	section 32301.
12	"(2) Passenger motor vehicle.—The term
13	'passenger motor vehicle' has the meaning given to
14	that term in section 32101.".
15	(2) Conforming amendment.—The table of
16	section for subchapter II of chapter 301 of title 49,
17	United States Code, is further amended by adding
18	after the item relating to section 30129, as added by
19	section 2(b), the following:

"30131. Advanced crash systems research and consumer education.".