A BILL FOR AN ACT

RELATING TO VISUALLY IMPAIRED PERSONS.

BE IT ENACTED BY THE LEGISLATURE OF THE STATE OF HAWAII:

1 SECTION 1. The legislature finds that gasoline-electric 2 hybrid vehicles and electric vehicles provide less air pollution 3 and greater fuel efficiency. It is expected that more advanced alternative fuel vehicles, including hydrogen fuel cell 4 5 vehicles, will be widely available in coming years. The total 6 number of hybrid vehicles sold per year in the State is growing 7 dramatically, and although the present number of hybrid vehicles 8 currently constitutes a small percentage of vehicles, the number of hybrid vehicles may soon equal or exceed the number of 9 10 traditional vehicles in the State. 11 The legislature notes, however, that a significant 12 difference between these vehicles and traditional internal 13 combustion fuel vehicles is that the new technology makes 14 virtually no sound at all. Because blind pedestrians cannot 15 locate and evaluate traffic using their vision, they must listen 16 to traffic to discern its speed, direction, and other attributes 17 in order to travel safely and independently. Other persons,

including pedestrians who are not blind, bicyclists, runners,

HB LRB 08-1020.doc

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- 1 and small children, benefit from multi-sensory information
- 2 emitted by vehicle traffic, including the sound of vehicle
- 3 engines.
- 4 The legislature finds that hybrid vehicles, when operating
- 5 on their electric engines, cannot be heard by blind persons and
- 6 others, making these vehicles extremely dangerous to persons
- 7 crossing streets, moving through parking lots, or in other
- 8 situations where pedestrians and vehicles come into close
- 9 proximity. The legislature further finds that action should be
- 10 taken to ensure that blind pedestrians can hear hybrid and other
- 11 silent vehicles in all phases of their operation. Vehicle
- 12 designs that take into account the multi-sensory nature of
- 13 traffic detection by emitting a minimum level of sound will
- 14 alert all pedestrians, especially blind pedestrians, and help
- 15 them avoid injury.
- 16 The purpose of this Act is to establish a minimum sound
- 17 level standard for motor vehicles so that hybrid and electric
- 18 vehicles are easier for visually impaired pedestrians and others
- 19 to detect and thereby avoid accidents and fatalities.
- 20 SECTION 2. (a) No later than January 1, 2010, the
- 21 department of transportation shall adopt rules, pursuant to
- 22 chapter 91, that establish a minimum sound standard applicable

HB LRB 08-1020.doc

H.B. NO. 2538

1	co all mo	venicles, including hybrid venicles, registered in
2	the State	
3	(b)	Rules adopted under this section, at a minimum, shall:
4	(1)	Require all motor vehicles registered in the State to
5		emit at all times when operational an omni-directional
6		sound with similar spectral characteristics to those
7		of a modern internal combustion engine;
8	(2)	Require the sound emitted by motor vehicles to be
9		consistent with the sound of motor vehicles with
10		internal combustion engines in that it indicates
11		whether the motor vehicle is idling, maintaining a
12		constant speed, accelerating, or decelerating; and
13	(3)	Require motor vehicle safety inspections to include
14		verification of the existence of a properly
15		functioning sound emitter.
16	Rule	es adopted pursuant this section need not prescribe the

20 (c) In adopting rules pursuant to this Act, the department
21 of transportation shall:

manufacturers or vehicle owners to achieve the minimum sound

apparatus, technology, or method to be used by vehicle



level required by this Act.

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H.B. NO. 2538

1	(1)	Review all pertinent research regarding the effect of
2		traffic sounds on pedestrian safety; and
3	(2)	Consult consumer groups representing the visually
4		impaired, pedestrians, cyclists, and advocates for the
5		safety of children.
6	SECT	ION 3. This Act shall take effect upon its approval.
7		INTRODUCED BY: Circly Evans

JAN 1 8 2008

Report Title:

Visually Impaired Persons; Motor Vehicles

Description:

Directs the department of transportation to adopt rules that require motor vehicles registered in the State to emit an omnidirectional sound that may be easily heard by visually impaired persons.