Brake Light System Modifications to Prevent Rear-end Vehicular Crashes:
USING BASIC COMPUTER TECHNOLOGY TO STRENGTHEN VISUAL CUES
TO THE VEHICLE BEHIND ABOUT THE RATE OF DECELERATION.
Presentation \# 212249-by Art Cohen, JD MPH [November 2009]


FACT \#4: Secondary crashes are often a result of initial rear-end crashes, placing other drivers, emergency and law
enforcement personnel, and anyone else near the enforcement personnel, and any
original crash scene in jeopardy.
FACT \#5: Because of these figures, NHTSA [has] determined that Because of these figures,
further research should be
reducing rear-end crashes.

Sources tor tre above:



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Now, please take the "Car Drivers' Quiz"
to learn your RECS
(Rear-End Collision Score)
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Look below at the CURRENT APPLICABLE FEDERAL REGULATIONS: Nat'I Highway Traffic Safety Admin., DOT - Title 49 Code of Federal Regulations [CFR] $\S 571.108$

| S5.5.4 | $\begin{array}{l}\text { The stop lamps on each vehicle shall be activated upon application of the } \\ \text { service brakes. The high-mounted stop lamp on each vehicle shall be activated }\end{array}$ |
| :--- | :--- | only upon application of the service brakes.

S5.5.10 The wiring requirements for lighting equipment in use are:
(a) Turn signal lamps,
(a) Turn signal lamps, hazard warning signal lamps, and school bus warning lamps
shall be wired to flast
(b) Headlamps and side marker lamps may be wired to flash for signaling purposes,
(c) A motorcycle headlamp may be wired to allow either its upper beam or its lower

A motorcycle headlamp may be wired to allow either its upper beam or is lowe
beam, but not both, to modulate from a higher intensity to a lower intensity in accordance with section S5.6;

What These Improved Lights Can Tell the Driver Behind
(d) $->$ All other lamps shall be wired to be steady-burning. $<-\ldots--$

That the brakes are actually working to slow down the car;
That the car is slowing or has stopped;
Nighttime - stopped with foot on brake
Nighttime - beginning braking
IMPROVED BRAKE LIGHT


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Now let's watch an improved braking light sequence slides on the laptop's computer screen!


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