

SECOND REGULAR SESSION
SENATE COMMITTEE SUBSTITUTE FOR
HOUSE BILL NO. 1532
94TH GENERAL ASSEMBLY

Reported from the Committee on Transportation, April 10, 2008, with recommendation that the Senate Committee Substitute do pass and be placed on the Consent Calendar.

4017S.03C

TERRY L. SPIELER, Secretary.

AN ACT

To amend chapter 307, RSMo, by adding thereto one new section relating to motorcycle headlight modulators.

Be it enacted by the General Assembly of the State of Missouri, as follows:

Section A. Chapter 307, RSMo, is amended by adding thereto one new
2 section, to be known as section 307.128, to read as follows:

**307.128. 1. A headlamp on a motorcycle may be wired to
2 modulate either the upper beam or the lower beam from its maximum
3 intensity to a lesser intensity provided that:**

4 **(1) The rate of modulation shall be two hundred forty plus or
5 minus forty cycles per minute;**

6 **(2) The headlamp shall be operated at a maximum power for fifty
7 to seventy percent of each cycle;**

8 **(3) The lowest intensity at any test point shall not be less than
9 seventeen percent of the maximum intensity measured at the same
10 point;**

11 **(4) The modulator switch shall be wired in the power lead of the
12 beam filament being modulated and not in the ground side of the
13 circuit;**

14 **(5) Means shall be provided so that both the lower beam and the
15 upper beam remain operable in the event of a modulation failure;**

16 **(6) The system shall include a sensor mounted with the axis of
17 its sensing element perpendicular to a horizontal plane. Headlamp
18 modulation shall cease whenever the level of light emitted by a
19 tungsten filament operating at three thousand degrees kelvin is either
20 less than two hundred seventy lux of direct light for upward pointing**

21 sensors or less than sixty lux of reflected light for downward pointing
22 sensors. The light is measured by a silicon cell type light meter that is
23 located at the sensor and pointing in the same direction as the sensor.
24 A photo gray card is placed at ground level to simulate the road surface
25 in testing downward pointing sensors;

26 (7) Means shall be provided so that both the lower and upper
27 beam function at design voltage when the headlamp control switch is
28 in either the lower or upper beam position when the modulator is off.

29 2. Each motorcycle headlamp modulator not intended as original
30 equipment, or its container, shall be labeled with the maximum
31 wattage, and the minimum wattage appropriate for its
32 use. Additionally, each such modulator shall comply with the
33 provisions of subdivisions (1) to (7) of subsection 1 of this section when
34 connected to a headlamp of the maximum rated power and headlamp
35 of the minimum rated power, and shall provide means so that the
36 modulated beam functions at design voltage when the modulator is
37 off. Instructions, with a diagram, shall be provided for mounting the
38 light sensor including location on the motorcycle, distance above the
39 road surface, and orientation with respect to the light.

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