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Ergonomics - Motor Vehicle Driver Head Position

人类功效学 车辆驾驶员头部位置

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Ergonomics - Motor Vehicle Driver Head Position

1 Scope

This Standard provides Chinese motor vehicle drivers' head position, including the principle of drivers' head position contour geometry formation; axis length of head position contour geometry whose vehicle seat stroke is more than 133 mm, and inclination angle and central location in the lateral view.

This Standard is applicable to vehicle body space design for Class M1 motor vehicles whose seat stroke is more than 133 mm.

2 Normative References

The following documents are indispensable to the application of this Standard. In terms of references with a specified date, only versions with a specified date are applicable to this Standard. In terms of references without a specified date, the latest version (including all the modifications) is applicable to this Standard.

GB/T 15089-2001 Classification of Power-driven Vehicles and Trailers

3 Terms and Definitions

Terms and definitions defined in GB/T 15089-2001, and the following terms and definitions are applicable to this Standard.

3.1 Eyellipse

Eyellipse refers to the statistical representation of drivers' eyes in spatially relative internal vehicle reference point locations.

3.2 Head Position Contour Geometry

Head position contour geometry refers to the geometry of head contour (including hair) when passengers of different statures are sitting in a reasonable position in normal posture.

3.3 Class M1 Vehicles

Class Mi vehicles refers to passenger-carrying vehicles whose number of seats (including the driver's seat) does not exceed nine.

[GB/T 15089-2001, Definition 3.2]

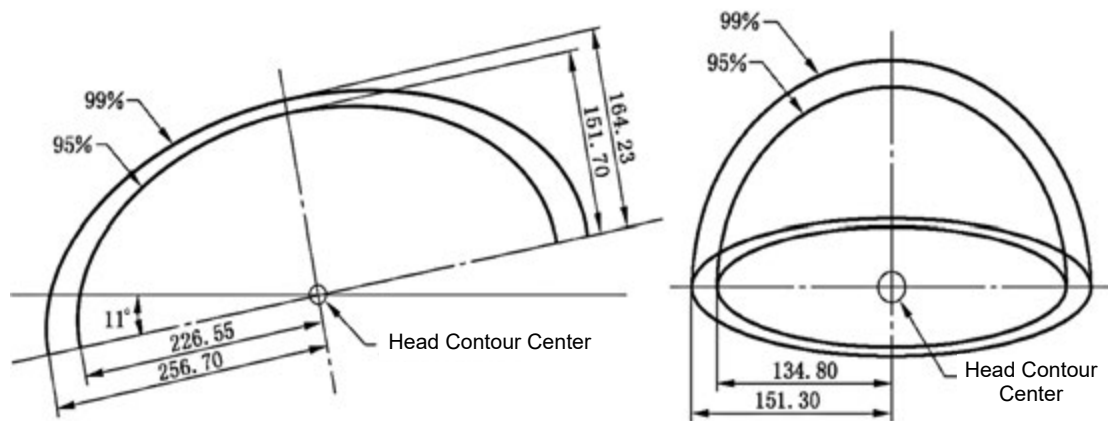


Figure 3 -- Head Position Contour Geometry whose Seat Stroke is More Than 133 mm

Along the side center plane (Y axis), divide the contour geometry into two halves. Meanwhile, maintain the correspondence between the ellipsoid central position and the internal part. Along X and Z curved surface of the ellipsoid midline part, establish a 23 mm-wide external segment. Place this part in the middle of the contour geometry being segmented. The internal boundary of this 23 mm tangent plane is in the same position as Y coordinate of the ellipsoid center.

In terms of contour geometry whose seats are adjustable, from the lateral view, the front end of the front of X axis of drivers' head position contour geometry inclines downward by 11°; the remaining axes are parallel to vehicle's grid line.

5.2 Central Point Calculation of Drivers' Head Position Contour Geometry

5.2.1 Overview of positioning

Head position contour geometry should be positioned in accordance with the middle eye point of eyellipse, or, be positioned directly from vehicle's grid line. The relative position of head position contour geometry and the middle eye point of eyellipse is merely determined by seat stroke. The center of all head position contour geometries has the same coordinates as the central Y axis of the eyellipse.

5.2.2 Positioning in accordance with eyellipse center

Respectively take X_h , Y_h and Z_h to represent the distance between the center of head position contour geometry and X axis, Y axis and Z axis of the middle eye point of eyellipse (please refer to Table 2 for the numerical value). In accordance with this relative distance, head position contour geometry can be positioned.

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