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The requirements protecting drivers from being injured by ATV steering mechanism

防止全地形车转向机构对驾驶员伤害的要求

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Table of Contents

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1 Scope

This Standard specifies the technical requirements protecting drivers from being injured by ATV steering mechanism.

This Standard applies to the all-terrain vehicle (ATV).

2 Normative references

The following documents are indispensable for the application of this document. For the dated references, only the editions with the dates indicated are applicable to this document. For the undated references, the latest edition (including all the amendments) are applicable to this document.

GB/T 24936 Terms for all terrain vehicles

GB/T 24937-2010 Safety equipment requirement for all-terrain vehicles

QC/T 563 Performance and Test Methods for Automobile Steering wheel

3 Terms and definitions

The terms and definitions as defined in GB/T 24936 and the following apply to this document.

3.1 Steering mechanism

A whole which consists of steering control, steering column and accessories, steering shaft, steering holder, and all other components.

3.2 Steering control

The device operated by a driver for controlling the driving direction of the vehicle.

3.3 Direction handlebar

The hand-held device on the top of steering column for controlling the driving direction of the vehicle, for installing the hand-operated control element, and the driver's support.

5.1.1 The direction handlebar shall maintain sufficient strength and rigidity, to withstand the load applied to it during normal operation without excessive deformation or permanent deformation. The width of direction handlebar shall not exceed the whole vehicle width. The contact surface between the end of direction handlebar and the hand shall be designed, according to the type of vehicle, for the appropriate length and diameter. Its surface shall be covered with soft rubber or plastic with a Shore hardness (A) of less than 60 at an ambient temperature of 20 °C±5 °C.

5.1.2 The direction handlebar end, after the assembly is completed, shall not be open tubular. The end of the hand lever shall be spherical. Its minimum radius of curvature shall be no less than 7 mm. If the end of the hand lever is flat, the end of the flat portion shall be spherical; and the radius of curvature shall be no less than 7 mm. The minimum thickness of the end of the flat portion shall be no less than 14 mm. The radius of curvature at the outer edge shall be no less than 2 mm.

5.1.3 The direction handlebar and its fittings shall not have a rigid material with a fillet radius of less than 3.2 mm. When using a spherical probe with a diameter of 165 mm to contact the handlebar and its fitting area, the probe shall not touch any edge portion with a fillet radius of less than 3.2 mm.

5.1.4 The direction handlebar grip shall be mechanically fixed, or capable of withstanding a dismantling force of not less than 70 N applied as described below.

- At an ambient temperature of 20 °C±5 °C, the handlebar fitted with a grip or a clog is immersed in water for 1 h;

- PLACE the handlebar in the freezer, until the direction handlebar's temperature is below -5 °C. REMOVE the handlebar from the freezer; RAISE its temperature to -5 °C;

- In a direction which can loosen the grip or the clog of handlebar, apply and maintain a tensile force of 70 N, until the handlebar temperature reaches +5 °C;

- When the temperature of the handlebar reaches +5 °C, the grip or the clog of handlebar, under the continuous action of the 70 N tensile force, shall not break, fall off, or have a permanent deformation significantly affecting the hand-holding.

5.1.5 If the direction handlebar is fitted with a crossbar, the crossbar shall be provided with a soft pad. At an ambient temperature of 20 °C±5 °C, the pad material shall have a Shore hardness (A) of not more than 50. The length of the pad shall be no less than 75% of the length of crossbar. The minimum thickness

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