

14-1 The requirement regarding the passenger handholds and footrests of motorcycle

14-1.1 Effective date and Scope:

14-1.1.1 From 2025/7/1, the new type vehicle of category symbols L1, L2, L3 and L5, its passenger handholds and footrests shall comply with this regulation.

14-1.1.2 The applicants applying for low volume safety approval or vehicle-by-vehicle low volume safety approval could exempt from regulation of “The requirement regarding the passenger handholds and footrests of motorcycle”.

14-1.2 The requirement regarding the passenger handholds of motorcycle shall according to suitable types and range of principle are as below :

14-1.2.1 The same vehicle category symbol.

14-1.2.2 The same brand and vehicle type series.

14-1.2.3 The same shape, dimensions, material and characteristics of installation.

14-1.3 If motorcycle is equipped with passenger seat, the vehicle must be fitted with passenger handholds. The handholds must take the form of strap or hand-grip. The handholds shall conform to the following requirements:

14-1.3.1 Handhold straps shall be fitted close to the relevant seating position in such a way that they can be easily used by the passenger. They shall be symmetrical with respect to the longitudinal median plane of the seating position. The strap and its attachments shall be able to withstand, without snapping, a vertical traction force of 2000 N applied statically to the centre of its surface at a maximum pressure of 2.0 MPa.

14-1.3.2 Single hand-grip bars shall be fitted close to the relevant seating position in such a way that they can be easily used by the passenger. They shall be symmetrical with respect to the longitudinal median plane of the seating position. The hand-grip bar and its attachments shall be able to withstand, without snapping, a vertical traction force of 2000 N applied statically to the centre of its surface at a maximum pressure of 2.0 MPa.

14-1.3.3 Two hand-grip bars shall be fitted close to the relevant seating position in such a way that they can be easily used by the passenger. They shall be symmetrical with respect to each other and the longitudinal median plane of the seating position. They shall each be able to withstand simultaneously, without snapping, a vertical traction force of 1000 N applied statically to the centre of their surface at a maximum pressure of 1.0 MPa.

14-1.3.4 Design features of the vehicle which could be confused with the designated passenger handhold system shall not be permitted, unless they also meet the requirements of points 14-1.3.1 to 14-1.3.3.

The official directions are written in Chinese, this English edition is for your reference only.

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- 14-1.4 All seating positions of the vehicle shall be fitted either with designated footrests or a floor or floor boards on which both of the rider's, driver's or passenger's feet can rest.
- 14-1.4.1 The vehicle's floor, each designated floor board and each designated footrest shall be capable of withstanding, without any resulting permanent deformation which is harmful to its function, a vertical compression force of 1700 N, applied statically to any point on the floor or floor board or 15 mm from the end of the footrest, at a maximum pressure of 2.0 MPa.
- 14-1.4.2 The space provided by each designated footrest, including the space on the floor or floor board, shall be sufficient for a foot at least 300 mm long and at least 110 mm wide to be placed safely without hampering the vehicle operator's feet. Footrests shall be located so that no direct contact between the foot/leg and rotating parts (e.g. tyres) of the vehicle is possible when in use.
- 14-1.4.3 Design features of the vehicle which could be confused with the designated footrests, floor boards or vehicle floor shall not be permitted, unless they also meet the requirements of points 14-1.4.1. to 14-1.4.2.
- 14-1.4.4 Pedals enabling the vehicle to be propelled by the rider's muscular leg power are deemed to meet the requirements of points 14-1.4.1. to 14-1.4.3.
- 14-1.5 The maximum pressures mentioned in points 14-1.3.1., 14-1.3.2., 14-1.3.3. and 14-1.4.1. may be exceeded during testing upon agreement with the vehicle manufacturer.