

Motorcycles – Riding position

1 Scope

This standard specifies the riding position for motorcycles except off-road motorcycles.

2 Normative reference

The following standards, when referenced in this standard, constitute provisions of this standard. The most recent editions of the standards (including amendments) indicated below shall be applied.

JASO T006 Motorcycles - Procedure for H-point determination

JIS D0109 Motorcycles and mopeds -- Vocabulary

3 Definitions

Definitions of main terms used in this standard shall be as follows.

3.1

H'-point

The cross point of the vertical line that passes through the H-point ¹⁾ and the upper surface of the seat (see **Figure 1**).

Note: ¹⁾ As specified in **JASO T006** (Motorcycles - Procedure for H-point determination.)

3.2

G-points

The points located at the centre of the upper part of the effective portion of the handle grips (see **Figure 1**).

3.3

F-point

The point which is on the central line of the footrest and located at the farthest end of usable portion of the footrest from the longitudinal median plane of the motorcycle ²⁾ (see **Figure 1**).

In the case of a scooter which has the foot position clearly indicated by an anti-slip mat, etc., on the step board, this point is on the lateral centre line of the mat surface and at the outermost position of the mat. If the foot position is not clearly indicated, this point is on the outermost end of the line dividing the area for foot movement of a rider in a normal riding position into front and rear halves.

Note: ²⁾ As specified in **JIS D0109** (Motorcycles and mopeds -- Vocabulary.)

3.4

Width *D*

The distance between the G-points on the right and left handle grips (see **Figure 1**).

3.5

Height *H*

The distance between the H'-point under unladen conditions ³⁾ and the ground (see **Figure 1**).

Note: ³⁾ As specified in **JIS D0109** (Motorcycles and mopeds -- Vocabulary.)

4 Three factors of riding position determined by the motorcycle frame

The seat, handle grips and footrest or step board are to be considered as the three factors of the frame that determine the riding position for motorcycles. When a motorcycle is equipped with foot pedals, the centre of the pedal crank is to be taken as the footrest position.

5 Positions of the three factors of the motorcycle frame

The positions of the three factors shall be as follows.

- a) The three factors determining the riding position for motorcycles are indicated by the rectangular coordinates X and Z for the G-points and F-point showing the handle grip and footrest positions respectively under unladen conditions, with the H'-point as the origin point. The G-points must fall in the area ① and the F-point in the area ② in **Figure 2**, but no combination of the G-points and F-point must fall in the shaded area.
- b) The width D shall be in the range from 350 mm to 800 mm.
- c) The height H shall be 900 mm or less.