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МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ

Road vehicles — Mopeds — Type, location and functions of controls

Véhicules routiers — Cyclomoteurs — Type, positionnement et fonctions des commandes

Reference number
ISO 4151 : 1987 (E)

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 4151 was prepared by Technical Committee ISO/TC 22, *Road vehicles.*

This second edition cancels and replaces the first edition (ISO 4151 : 1978), of which it constitutes a minor revision (new clause 4 definitions and alignment of 5.2 requirements with United Nations — E/ECE/324/TRANS 505/Rev. 1/Add. 59 Regulation No. 60).

Users should note that all International Standards undergo revision from time to time and that any reference made herein to any other International Standard implies its latest edition, unless otherwise stated.

Road vehicles — Mopeds — Type, location and functions of controls

1 Scope

This International Standard specifies the type and location of controls to operate different functions on mopeds, in order to reduce error in operating controls by riders which could result from different locations and types of controls on different mopeds.

2 Field of application

This International Standard applies to mopeds as defined in ISO 3833.

3 Reference

ISO 3833, *Road vehicles — Types — Terms and definitions.*

4 Definitions

For the purposes of this International Standard, the following definitions apply.

4.1 control: Any part of the vehicle or a device directly actuated by the driver which changes the state or functioning of the vehicle or any part thereof.

4.2 rotating handgrip: Handgrip, operating some functional mechanism of the vehicle, which is free to rotate around the handlebar when so turned by the driver of the vehicle.

4.3 hand-lever: Lever operated by the hand of the driver.

NOTE — Unless otherwise stated, a hand-lever is operated by compression, (that is, movement of the apex of the lever towards the supporting structure), e.g. for braking or to disengage the clutch mechanism.

4.4 pedal: Lever operated by contact between the driver's foot and a pad on the lever, so placed as to allow pressure to be applied to the lever arm.

NOTE — Unless otherwise stated, a pedal is operated by depression, e.g. for braking.

4.5 foot-lever: Lever operated by contact between the driver's foot and a spur projecting from the lever arm.

4.6 rocker arm: Lever, pivoted at or near its centre and having a pad or spur at each end, operated by contact between the driver's foot and these pads or spurs.

5 Requirements

5.1 General

When a control is fitted, it shall be of the type and in the location specified in 5.2.

All hand controls shall be operable without the need of removing the hands from the handlebar grips, except in the cases marked with an asterisk (*) in 5.2.

5.2 Type and location of controls

The type and location of controls are specified below for each appropriate function on the moped.

No.	Function	Type and location of control
5.2.1	Speed control (accelerator)	Rotating handgrip on right side of handlebars
5.2.2	Front brake	a) Mopeds with one front wheel: Hand-lever on right side of handlebars b) Mopeds with two front wheels: Pedal on right side of frame
5.2.3	Rear brake	a) Two-wheeled mopeds: Pedal on right side of frame or Hand-lever on left side of handlebars b) Three-wheeled mopeds with two front wheels: Hand-lever on right side of handlebars c) Three-wheeled mopeds with two rear wheels: Pedal on right side of frame
5.2.4	Hand-controlled clutch	Hand-lever on left side of handlebars
5.2.5	Gear selection control	a) Hand-operated: Rotating handgrip on left side of handlebars b) Foot-operated: Foot-lever or rocker arm on left side of frame
5.2.6	Parking brake	Hand-lever* or pedal
5.2.7	Light control switch	Hand-controlled switch*
5.2.8	Audible warning device	Push button on left side of handlebars with foot-operated gear selection control (5.2.5) or push button on right side of handlebars with hand-operated gear selection control
5.2.9	Direction indicators	Change-over switch or separate controls on handlebars
5.2.10	Manual decompression control	Hand-lever on handlebars or combined with speed control (5.2.1)
5.2.11	Engine ignition cut-out	Push button or switch on right side of handlebars

* The control may be reached by the driver removing his hand(s) from the handlebars.

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Descriptors : road vehicles, mopeds, control devices, specifications.

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