

INTERNATIONAL STANDARD



4055

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Road vehicles — Caravans and light trailers — Electromagnetic braking

Véhicules routiers — Caravanes et remorques légères — Freinage électromagnétique

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FOREWORD

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO member bodies). The work of developing International Standards is carried out through ISO technical committees. Every member body interested in a subject for which a technical committee has been set up 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.

International Standard ISO 4055 was developed by Technical Committee ISO/TC 22, *Road vehicles*, and was circulated to the member bodies in June 1976.

It has been approved by the member bodies of the following countries :

Australia	Iran	Romania
Austria	Italy	Spain
Belgium	Japan	Switzerland
Chile	Korea, Rep. of	United Kingdom
Czechoslovakia	Mexico	U.S.S.R.
France	New Zealand	Yugoslavia
Hungary	Philippines	

The member bodies of the following countries expressed disapproval of the document on technical grounds :

Germany
South Africa, Rep. of
Sweden
U.S.A.

Road vehicles — Caravans and light trailers — Electromagnetic braking

1 SCOPE

This International Standard covers :

- the definition, and the indication of the values of, the electrical characteristics of electromagnetic braking systems fitted to road trains comprising a towing vehicle and a caravan or light trailer;
- the determination of the braking performance as a function of these characteristics;
- the definition of conditions affecting interchangeability between towing vehicles and towed vehicles.

2 FIELD OF APPLICATION

This International Standard applies to road trains comprising a towing vehicle and a caravan or light trailer, of which the "maximum total weight" does not exceed 3,5 t.¹⁾

It concerns electromagnetic braking equipment functioning on a nominal voltage of 12 V.

3 REFERENCES

ISO 611, *Braking of motor vehicles and their trailers — Terminology*.

ISO 1724, *Road vehicles — Electrical connections between towing vehicles and towed vehicles with 6 or 12 V electrical equipment — Type 12 N (normal)*.

ISO 3732, *Road vehicles — Electrical connections between towing vehicles and trailers with 6 or 12 V electrical equipment — Type 12 (supplementary)*.

3 DEFINITIONS

See ISO 611.

4 GENERAL REQUIREMENTS

4.1 Electromagnetic braking devices

The specifications of this International Standard are applicable to electromagnetic braking devices designed according to the following general principles :

4.1.1 System A

The current-regulating device for the braking of the trailer is mounted on the towing vehicle.

The regulation of the trailer-retarding effort (T_R) can be effected as a function of the operating force of the service braking device on the towing vehicle or of another force.

4.1.2 System B

The current-regulating device for the braking of the trailer is mounted on the trailer.

The regulation of the trailer-retarding effort (T_R) is effected as a function of the deceleration of the tractor/trailer combination or of another force.

4.2 Automatic braking (mechanical or electrical operation)

4.2.1 In the event of an accidental separation between the tractor and the trailer, the trailer brakes would be automatically applied and in this case a device for the releasing of the automatic brake shall allow the movement of the detached trailer.

1) This value is chosen to include categories 01 and 02 of trailers according to the classification of vehicles given in document E/ECE/324/Rev.1/Add.12 of the Economic Commission for Europe of the United Nations. This document is entitled : "Agreement concerning the adoption of uniform conditions of approval and reciprocal recognition of approval for motor vehicle equipment and parts — done at GENEVA on 20 March 1958 — Addendum 12 : Regulation 13 to be annexed to the Agreement : Uniform provisions concerning the approval of vehicles with regard to braking".