

INTERNATIONAL STANDARD



4009

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

Road vehicles — Towing vehicles — Mounting of electrical connections on rear cross members

Véhicules routiers — Véhicules tracteurs — Montage des dispositifs d'accouplements électriques sur la traverse arrière

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Descriptors : road vehicles, trucks, trailers, electric connections, electric connectors, assembling, mounting surfaces.

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 4009 was developed by Technical Committee ISO/TC 22, *Road vehicles*, and was circulated to the member bodies in February 1976.

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

Austria	Japan	Sweden
Belgium	Mexico	Switzerland
France	Netherlands	Turkey
Germany	Poland	United Kingdom
Hungary	Romania	U.S.S.R.
Iran	South Africa Rep. of	Yugoslavia
Italy	Spain	

No
The member body of the following country expressed disapproval of the document.
on technical grounds

Bulgaria

Road vehicles — Towing vehicles — Mounting of electrical connections on rear cross members

1 SCOPE

This International Standard specifies the locations on towing vehicle rear cross members for the coupling devices assuring electrical connections with the towed vehicles.

It applies to the following electrical coupling devices :

- plugs type "normal" (12 and 14 V);
- plugs type "supplementary" (12 and 24 V);
- plugs for vehicles on which the braking system incorporates an anti-locking device.¹⁾

2 FIELD OF APPLICATION

The provisions of this International Standard apply to those towing vehicles normally used for international commercial transport coupled to towed vehicles the "manufacturer's towed weight"²⁾ of which is greater than 3,5 t.

3 REFERENCES

ISO 1176, *Road vehicles — Weights — Vocabulary*.

ISO 1185, *Road vehicles — Electrical connections between towing vehicles and trailers with 24 V electrical equipment — Type 24 N (normal)*.

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

ISO 1728, *Road vehicles — Pneumatic coupling between towing vehicles and trailers — Interchangeability*.

ISO 3731, *Road vehicles — Electrical connections between towing vehicles and trailers with 24 V electrical equipment — Type 24 S (supplementary)*.

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

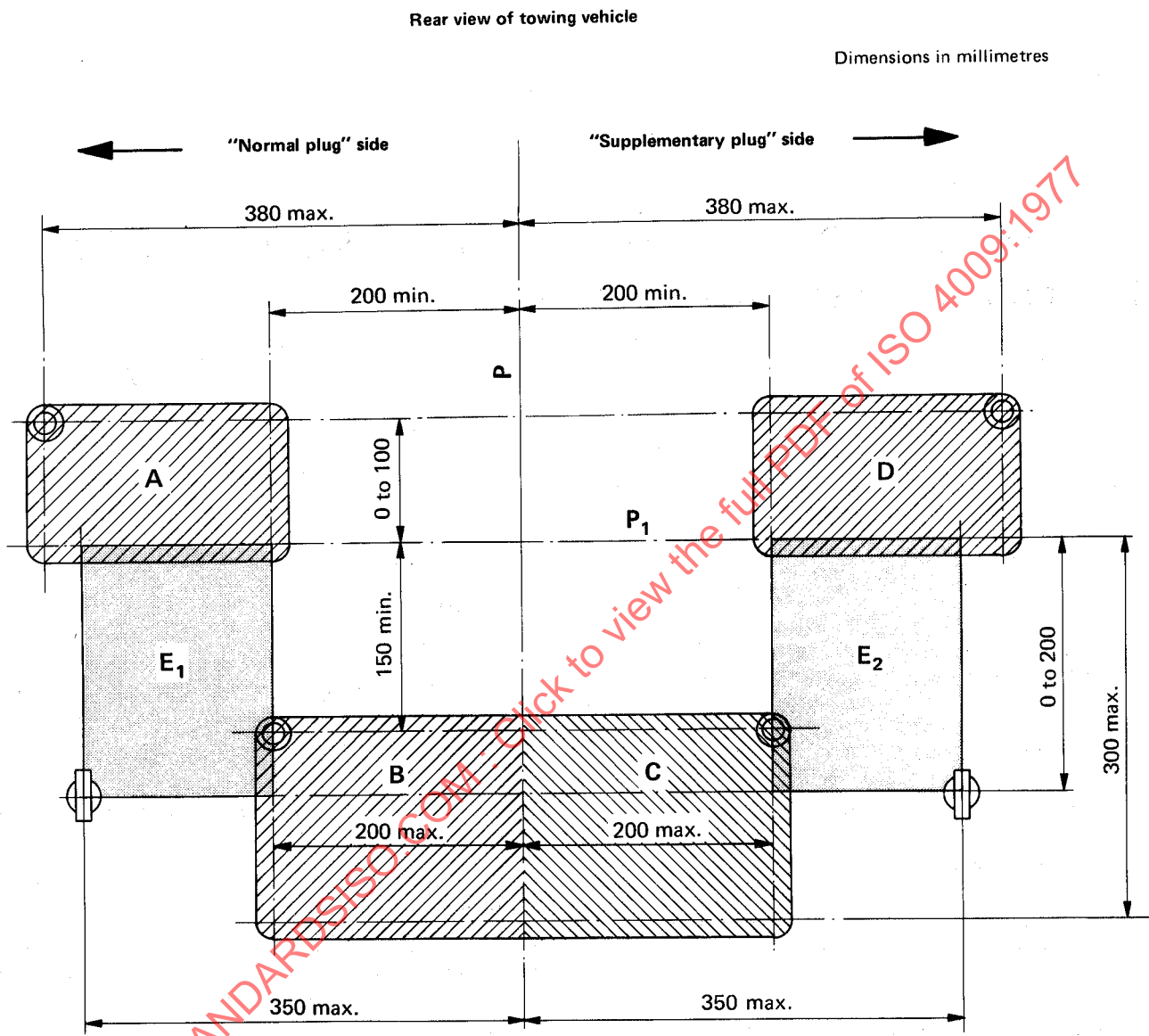
ISO 1728, *Road vehicles — Pneumatic coupling between towing vehicles and trailers — Interchangeability*.

1) International Standard in preparation.

2) This term corresponds to the term defined in items 4.10 and 4.10.1 of ISO 1176.

4 LOCATION OF ELECTRICAL CONNECTIONS

The clearance dimensions to be provided around the plugs are defined in the International Standards dealing with electrical connections listed in clause 3.



- P : Median longitudinal plane of the towing vehicle cross member
- P₁ : Median transverse plane of the towing vehicle rear cross member
- A – B : Mounting zones for "Normal" plug
- C – D : Mounting zones for "Supplementary" plug
- B – C : Mounting zones for plug of the anti-lock system. In the case where an additional plug is not used, the plug for the anti-lock system may be located in D
- E₁ – E₂ : Mounting zones for pneumatic braking couplings indicated for information (see ISO 1728)