



MALAYSIAN STANDARD

MS ISO 11452-8:2009

ROAD VEHICLES - COMPONENT TEST METHODS FOR ELECTRICAL DISTURBANCES FROM NARROWBAND RADIATED ELECTROMAGNETIC ENERGY - PART 8: IMMUNITY TO MAGNETIC FIELDS (ISO 11452-8:2007, IDT)

ISO 11452-8:2007 is endorsed as Malaysian Standard with the reference number MS ISO 11452-8:2009.

ICS: 33.100.20, 43.040.10

Descriptors: road vehicles, electrical disturbances, narrowband radiated, absorber-lined, immunity, magnetic fields

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Committee representation

The Industry Standards Committee on Road Vehicles (ISC L) under whose authority this Malaysian Standard was adopted, comprises representatives from the following organisations:

Automobile Association of Malaysia
Department of Environment Malaysia
Department of Standards Malaysia
Jabatan Pengangkutan Jalan Malaysia
Malaysian Automotive Association
Malaysian Automotive Components Parts Manufacturers Association
Malaysian Institute of Road Safety Research
Ministry of International Trade and Industry
Motorcycle and Scooter Assemblers and Distributor Association of Malaysia
Motosikal dan Enjin Nasional Sdn Bhd
Perodua Manufacturing Sdn Bhd
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Polis Diraja Malaysia
SIRIM Berhad (Secretariat)
Small and Medium Industries Development Corporation
Universiti Putra Malaysia
Universiti Teknologi Malaysia

The Technical Committee on Electrical and Electronic Equipment which recommended the adoption of the ISO Standard consists of representatives from the following organisations:

Automobile Association of Malaysia

Jabatan Kerja Raya Malaysia

Malaysian Industrial Development Authority

Ministry of Domestic Trade and Consumer Affairs

Science and Technology Research Institute for Defence

SIRIM Berhad (Secretariat)

SIRIM QAS International Sdn Bhd

Universiti Teknikal Malaysia

Universiti Teknologi Malaysia

Co-opted members:

NGK Spark Plugs Malaysia Berhad

PERODUA Manufacturing Sdn Bhd

PROTON Holdings Berhad

NATIONAL FOREWORD

The adoption of the ISO Standard as a Malaysian Standard was recommended by the Technical Committee on Electrical and Electronic Equipment under the authority of the Industry Standards Committee on Road Vehicles.

This Malaysian Standard is identical with ISO 11452-8:2007, *Road vehicles - Component test methods for electrical disturbances from narrowband radiated electromagnetic energy - Part 8: Immunity to magnetic fields*, published by the International Organization for Standardization (ISO). However, for the purposes of this Malaysian Standard, the following apply:

- a) in the source text, "this International Standard" should read "this Malaysian Standard";
and
- b) the comma which is used as a decimal sign (if any), to read as a point.

MS ISO 11452 consists of the following parts, under the general title *Road vehicles - Component test methods for electrical disturbances from narrowband radiated electromagnetic energy*:

Part 1: General principles and terminology

Part 2: Absorber-lined shielded enclosure

Part 3: Transverse electromagnetic (TEM) cell

Part 4: Bulk current injection (BCI)

Part 5: Stripline

Part 7: Direct radio frequency (RF) power injection

Part 8: Immunity to magnetic fields

Compliance with a Malaysian Standard does not of itself confer immunity from legal obligations.

NOTE. IDT on the front cover indicates an identical standard i.e. a standard where the technical content, structure, and wording (or is an identical translation) of a Malaysian Standard is exactly the same as in an International Standard or is identical in technical content and structure although it may contain the minimal editorial changes specified in clause 4.2 of ISO/IEC Guide 21-1.

**Road vehicles — Component test
methods for electrical disturbances from
narrowband radiated electromagnetic
energy —**

**Part 8:
Immunity to magnetic fields**

*Véhicules routiers — Méthodes d'essai d'un équipement soumis à des
perturbations électriques par rayonnement d'énergie électromagnétique
en bande étroite —*

Partie 8: Méthodes d'immunité aux champs magnétiques



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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. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 11452-8 was prepared by Technical Committee ISO/TC 22, *Road vehicles*, Subcommittee SC 3, *Electrical and electronic equipment*.

ISO 11452 consists of the following parts, under the general title *Road vehicles — Component test methods for electrical disturbances from narrowband radiated electromagnetic energy*:

- *Part 1: General principles and terminology*
- *Part 2: Absorber-lined shielded enclosure*
- *Part 3: Transverse electromagnetic mode (TEM) cell*
- *Part 4: Bulk current injection (BCI)*
- *Part 5: Stripline*
- *Part 7: Direct radio frequency (RF) power injection*
- *Part 8: Immunity to magnetic fields*

The following parts are under preparation:

- *Part 9: Portable transmitters*
- *Part 10: Conducted immunity in the extended audio frequency range*
- *Part 11: Radiated immunity test method using a reverberation chamber*