



BSI Standards Publication

**Road vehicles — (EMC)
guidelines for installation
of aftermarket radio frequency
transmitting equipment**

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National foreword

This Published Document is the UK implementation of ISO/TS 21609:2014.

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A list of organizations represented on this committee can be obtained on request to its secretary.

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**Road vehicles — (EMC) guidelines
for installation of aftermarket radio
frequency transmitting equipment**

*Véhicules routiers — Guide sur la compatibilité électromagnétique
(CEM) pour l'installation en seconde monte d'équipements radio-
téléphone*



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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.

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The committee responsible for this document is ISO/TC 22, *Road vehicles*, Subcommittee SC 3, *Electrical and electronic equipment*.

This second edition cancels and replaces the first edition (ISO/TS 21609:2003), which has been technically revised.

Road vehicles — (EMC) guidelines for installation of aftermarket radio frequency transmitting equipment

1 Scope

This Technical Specification gives requirements and recommendations for the installation in road vehicles of

- radio frequency (RF) transmitting and receiving equipment,
- “in-road-vehicle” mounting kits for transportable and hand-held RF equipment, and
- ancillary equipment associated with these.

As well as methods for installation, it establishes methods for minimizing the possibility of electromagnetic interference (EMI) between the installed equipment and the vehicle electrical and electronic systems.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable to its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60050 (all parts), *International Electrotechnical Vocabulary (IEV)*

3 Terms, definitions and abbreviated terms

3.1 Terms and definitions

For the purposes of this document, the terms and definitions given in IEC 60050 (all parts) and the following terms, definitions and abbreviated terms apply.

3.1.1

mobile equipment

receiver, transmitter or transmitter/receiver (transceiver) that is intended for installation and use in a vehicle, and powered by the main battery of the vehicle

3.1.2

ancillary equipment

any equipment required as part of the installation in addition to the radio

EXAMPLE Voltage converter

3.1.3

equipment supplier

supplier of the equipment to the installer

Note 1 to entry: The equipment supplier may be a dealer, distributor or manufacturer.

3.1.4

floating system

isolated ground return