INTERNATIONAL STANDARD

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Road vehicles — Connection interface for pyrotechnic devices, two-way and three-way connections —

Part 1: Pocket interface definition

Véhicules routiers — Interface de raccordement pour dispositifs pyrotechniques, deux voies et trois voies —

Partie 1: Définition de l'interface du support allumeur

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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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: Foreword - Supplementary information

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 19072-1:2007), which has been technically revised.

ISO 19072 consists of the following parts, under the general title *Road vehicles — Connection interface for pyrotechnic devices, two way and three way connections*:

— *Part 1: Pocket interface definition*

— *Part 2: Test methods and general performance requirements*

— *Part 3: Pyrotechnic device and harness connector assembly - type 1*

— *Part 4: Pyrotechnic device and harness connector assembly - type 2*

Introduction

Road vehicles integrate an increasing number of pyrotechnic devices contributing to occupant safety in vehicles (for example, frontal and side air bag, safety belt pretensioner, etc.).

Various pocket definitions currently exist all over the world. This situation appears difficult to manage for the different equipment makers. The goal of this International Standard is to define a common specification.

A sealed option of the pyrotechnic device/initiator harness connector assembly is also defined. See Annex A.

A variant without retainer of the pyrotechnic device/initiator harness connector assembly is also defined. See Annex B.

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Road vehicles — Connection interface for pyrotechnic devices, two-way and three-way connections —

Part 1: Pocket interface definition

1 Scope

The purpose of this part of ISO 19072 is to define the minimum specification of the pyrotechnic device pocket interface.

2 Normative references

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

ASTM B488: *Standard Specification for Electrodeposited Coatings of Gold for Engineering Uses*

ASTM B735: *Standard Test Method for Porosity in Gold Coatings on Metal Substrates by Nitric Acid Vapor*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1
connector
assembly used to connect several conductors together or a single conductor to an appliance

Note 1 to entry: A male (female) connector is a housing containing male (female) contacts and accessory items. A male connector may be permanently fixed to a wiring harness or to an appliance [an electronic control unit (ECU) for example]. A female connector is generally permanently fixed to a wiring harness.

3.2
female contact
contact (including means for cable attachment) designed for electrical engagement on its inner surface, and to accept entry of a male contact, thus forming an electrical connection

[SOURCE: ISO 8092-2:2005, 3.6]

3.3
housing
connector without its contacts

3.4
initiator
part of the pyrotechnical device with two male contacts