



Electric vehicle operations— Maintenance and repair



This Australian Standard® was prepared by Committee EM-001, Electric Vehicle Operation. It was approved on behalf of the Council of Standards Australia on 2 July 2015. This Standard was published on 6 August 2015.

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 - Australian Electric Vehicle Association
 - Australian Industry Group
 - Auto Skills Australia
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 - Consumers Federation of Australia
 - Curtin University of Technology
 - Electrical Regulatory Authorities Council
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This Standard was issued in draft form for comment as DR AS 5732:2014.

Standards Australia wishes to acknowledge the participation of the expert individuals that contributed to the development of this Standard through their representation on the Committee and through the public comment period.

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Australian Standard[®]

**Electric vehicle operations—
Maintenance and repair**

First published as AS 5732:2015.

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Published by SAI Global Limited under licence from Standards Australia Limited, GPO Box 476, Sydney, NSW 2001, Australia

ISBN 978 1 76035 172 4

PREFACE

This Standard was prepared by the Standards Australia Committee EM-001, Electric Vehicle Operation.

This Standard has been produced to provide requirements and guidance on the safe and appropriate handling procedures for those within the mechanical repair, body repair and refinishing industries when working on plug-in electrical vehicles (PEVs), hybrid electric vehicles (HEVs), battery electric vehicles (BEVs) and plug-in hybrid electric vehicles (PHEVs).

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STANDARDS AUSTRALIA

Australian Standard**Electric vehicle operations—Maintenance and repair**

SECTION 1 SCOPE AND GENERAL

1.1 SCOPE

This Standard sets out requirements for the premises and procedures for the following types of work or activity associated with plug-in electric vehicles (PEVs), hybrid electric vehicles (HEVs), battery electric vehicles (BEVs) and plug-in hybrid electric vehicles (PHEVs):

- (a) Routine motor vehicle maintenance and repairs not involving the high voltage (HV) rechargeable energy storage system (RESS), for example, lubrication, brake repair, wheel alignment, body or windscreen repairs, cleaning or detailing, and tyre fitting.
- (b) Maintenance, servicing and repairs to vehicles which involves working on or with high voltage (HV) rechargeable energy storage systems (RESS) including the need to disconnect hazardous voltage systems of the PEV, HEV, BEV or PHEV.
- (c) Handling procedures and storage precautions required in the event where the vehicle's structural integrity has been compromised, and the RESS is to be removed from the PEV, HEV, BEV or PHEV.

1.2 OBJECTIVE

The objective of this Standard is to provide vehicle servicing personnel and vehicle body repairers and refinishers with the minimum requirements for working areas for vehicles with HV RESS, in order to ensure work on the vehicles is carried out in a safe manner.

1.3 REFERENCED DOCUMENTS

The following documents are referenced in this Standard:

AS

1851 Routine service of fire protection systems and equipment

2225 Insulating gloves for electrical purposes

2441 Installation of fire hose reels

AS/NZS

1221 Fire hose reels

1841 Portable fire extinguishers

1841.1 Part 1: General requirements

1841.5 Part 5: Specific requirements for powder type extinguishers

1841.6 Part 6: Specific requirements for carbon dioxide type extinguishers

1850 Portable fire extinguishers—Classification, rating and performance testing

2210 Safety, protective and occupational footwear

2210.1 Part 1: Guide to selection, care and use

SDS Safety Data Sheets (obtainable from the original equipment manufacturer)