



**Electric vehicle operations—  
Maintenance and repair**

**STANDARDS**  
Australia

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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 Standard<sup>®</sup>

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## 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 services 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)