



AEROSPACE RECOMMENDED PRACTICE

ARP5141

REV. A

Issued 1999-07
Stabilized 2014-03

Superseding ARP5141

Chassis Mounted Lifts Used to Board Airline
Passengers With Mobility Impairments

RATIONALE

Despite several attempts to revise this document since it has been issued, it has not been possible to do it as the resources and the needed expertise were not available in the AGE-2C committee. Intent of the committee for a future revision would be to merge ARP5140, ARP5141, and AIR4652 under a single revised and updated document. Therefore, until the time comes when such revision can be done, the document is put in the "Stabilized" category.

STABILIZED NOTICE

This document has been declared "Stabilized" by the SAE AGE-2C Vehicle Maintenance and Aircraft Servicing Committee. This document should be considered as non-current and used for historic purposes only. Until a document revision is done, the reader is advised to use current references like: FAA AC 150/5220-21, EN 12312-14 and ISO 15845.

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Documents

Document Sharing Hub

1. SCOPE:

This SAE Aerospace Recommended Practice (ARP) is intended to recommend a minimum standard, for the design and manufacturer of a self-propelled, chassis mounted passenger boarding vehicle. The vehicle will permit safe operation while minimizing aircraft damage and personnel safety hazards associated with commercial aircraft boarding operations.

The vehicle described is intended to be used for assisting wheelchair passengers and passengers with disabilities on and off aircraft with door sill heights of 60 in (152.4 cm) and above.

2. APPLICABLE DOCUMENTS:

The following publications form a part of this document to the extent specified herein. The latest issue of SAE publications shall apply. The applicable issue of other publications shall be the issue in effect on the date of the purchase order. In the event of conflict between the text of this document and references cited herein, the text of this document takes precedence. Nothing in this document, however, supersedes applicable laws unless a specific exemption has been obtained.

2.1 SAE Publications:

Available from SAE, 400 Commonwealth Drive, Warrendale, PA 15096-0001.

ARP1247	General Requirements for Aerospace Ground Equipment, Motorized and Non-Motorized
ARP1328	Aircraft Ground Support Equipment Vehicle Stability Analysis
AIR1375	Minimum Safety Requirements for Special Purpose Airline Ground Support Equipment
AIR1558	Interface Protection Devices-Ground Support Equipment to Aircraft
ARP1838	Pictograms for Ground Support Equipment
AS4828	Technical Manual Development for GSE
SAE Handbook - Latest revision	

2.2 ISO Publications:

Available from ANSI, 11 West 42nd Street, New York, NY 10036-8002.

ISO 6966	Aircraft - Basic Requirements for Aircraft Loading Equipment
ISO 7000	Graphical Symbols for Use on Equipment
ISO 7718	Airport Equipment - Passenger Loading Bridge or Transfer Vehicle Requirements for Interface With Aircraft Doors
ISO 11995	Aircraft-Stability Requirements for Loading and Servicing Equipment
ISO DIS 15845	Ground Equipment - Boarding Equipment for Disabled Passengers - Functional Requirements

2.3 FAA Publications:

Available from Federal Aviation Administration, 800 Independence Avenue, SW, Washington, DC 20591.

FAA AC150/5220-21	Guide Specification for lifts Used to Board Airlines Passengers With Mobility Impairments
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2.4 OSHA Publications:

Available from OSHA, 200 Constitution Avenue, NW, Washington, DC 20210.

OSHA Safety and Health Standards 29 CFR 1910

2.5 IATA Publications:

Available from International Air Transport Association, IATA Building, 2000 Peel Street, Montreal Quebec, Canada H3A 2R4.

IATA AHM 921	Functional Specification for Incapacitated Passenger Loading Vehicle
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2.6 Other Publications:

Measure of Man, Human Factors in Design, H. D. Dreyfus

Division of Industrial Safety and Industrial Safety Codes Application in the State of Manufacture