



AEROSPACE STANDARD

AS4828™**REV. A**

Issued 1996-01
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Reaffirmed 2026-02

Superseding AS4828

(R) Technical Manual Requirements for Ground Support Equipment

RATIONALE

AS4828A has been reaffirmed to comply with the SAE Five-Year Review policy.

FOREWORD

AS4828 establishes the minimum requirements for ground support equipment technical manuals. As with all SAE Aerospace Standards, it is expected that this standard will be reviewed in 5 years of last revision for information relevancy. It should be mentioned that specification ATA 101 is considered outdated (last revised 1986) and is not directly applicable to all vehicles such as tow tractors, baggage/cargo handling equipment, passenger loaders, etc.

Questions on interpretation and proposed changes to this document should be submitted in writing to:

SAE International
400 Commonwealth Drive
Warrendale, PA 15096-0001
Attention: Staff Representative for the AGE-2 Committee

Such changes when approved shall be published by revision to the document.

1. SCOPE

This document is a guideline for format, structure and content for ground support equipment (GSE) technical manuals. This document focuses on requirements specific to the GSE industry and does not cover general technical publication practices. Additional standards for GSE and for manufacturer's publications exist and may add requirements beyond what is covered in this standard. This may include EU Directive 2006/42/EC.

This document is written in specific terms by intention, and conforms to recognized practices in the industry. When the word **SHALL** is used in this standard, it indicates a requirement that must be adhered to in total and does not allow for variance. When the word **SHOULD** is used, it indicates a recommended practice which allows the manual writer to use discretionary judgment. This document does not apply to electronic test equipment.

2. REFERENCES

There are no referenced publications specified herein.

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SAE reviews each technical report at least every five years at which time it may be revised, reaffirmed, stabilized, or cancelled. SAE invites your written comments and suggestions.

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Standard, visit Sharing Hub

3. FORMAT

3.1 Media Type

The manufacturer shall make manuals available in paper and optional digital format.

3.2 Digital Manuals

Digital manuals shall be produced in PDF or HTML format. Tables of contents, figure illustration references, cross-references shall be hyperlinked to the corresponding section of the manual to ease navigation. Digital bookmarks for chapter/section navigation should also be used. Digital manuals shall be distributed through various means including via an internet website and/or optical disc (CD/DVD).

3.3 Paper Manuals

Paper shall be white in color. Weight shall be a minimum of 85 g/m². Print quality shall be a minimum of 300 dpi and result in crisp contrast to the background. Binding shall be in a loose leaf format such as a 3 or 4 ring binder and allow for page additions or replacement. Plastic spiral binding is not acceptable. The spine of the binder shall identify the manufacturer and product. If the manual is divided into multiple binders, the binder spine shall also identify the volume and/or chapter(s). Divider pages with tabs shall be used to separate chapters in manuals of more than 500 pages. Divider pages with tabs shall be used to separate sections within chapters of more than 500 pages. Divider pages with tabs shall also be used to separate individual third-party OEM vendors in Chapter 5 – Manufacturers' Appendices (4.6).

3.4 Page Layout

Each page shall have a margin of at least 16 mm (0.625 in.) on outside edges and allow for a header and footer. Paper manuals shall have a margin of at least 28 mm (1.125 in.) on the binding edge of each page to allow for binding. Each page shall have a header that identifies the manufacturer and product name and a footer that identifies the chapter, section and page number.

3.5 Font

Main body text shall be a Sans Serif font such as Arial or Helvetica. Minimum font size should be 10 points. Chapter/section/paragraph headers shall be bolded. Text color shall be black and in high contrast to the page/screen. Hyperlinked text (unselected) shall be blue in color and in high contrast to the page/screen.

3.6 Illustrations/Diagrams

Illustrations and diagrams shall be used as necessary to identify or clarify concepts, components, locations and/or procedures. Line art should be used whenever possible rather than photographs for reproduction clarity. The illustration shall be located directly after the first reference of the illustration and as close as possible to the referenced text. Individual illustration shall be identified by figure number with a caption located directly below it. Figure numbering shall restart with the beginning of each section.

3.7 Structure

Each new chapter and section shall start on a new page. For printing purposes, the first page of a chapter or section shall start on an odd numbered (right side) page. Blank pages may be added to the end of the previous chapter / section to achieve this. Blank pages shall read THIS PAGE INTENTIONALLY BLANK.

Text shall be structured into logical sections and sub sections which should be indented for ease of reading. A general table of contents shall list the overall chapters. Each chapter shall start with a table of contents identifying the sections and their page numbers. Page numbering shall restart with the beginning of each section.