

MIL-M-9913B (USAF)
 15 July 1982
 SUPERSEDING
 MIL-M-9913A (USAF)
 1 JULY 1968

MILITARY SPECIFICATION

MANUALS, TECHNICAL: INSPECTION, REPAIR AND PACKING INSTRUCTIONS (For PARACHUTES)

This specification is approved for use by the Department of the Air Force, and is available for use by all departments and agencies of the Department of Defense.

1. SCOPE

1.1 Scope. This specification covers the preparation of technical manuals for inspection, repair, and packing instructions for personnel, cargo, aerial delivery and aircraft deceleration parachutes.

2. APPLICABLE DOCUMENTS

2.1 Government documents.

2.1.1 Specifications, standards, and handbooks. Unless otherwise specified, the following specifications, standards, and handbooks of the issue listed in that issue of the Department of Defense Index of Specifications and Standards (DODISS) specified in the solicitation, form a part of this specification to the extent specified herein.

SPECIFICATIONS

MILITARY

MIL-M-38784	Manuals, Technical: General Style and Format Requirements.
MIL-P-38790	Printing Production of Technical Manuals: General Requirements for
MIL-M-38807	Illustrated Parts Breakdown, Preparation of

2.1.2 Other Government documents, drawings, and publications. The following other Government documents, drawings, and publications form a part of this specification to the extent specified herein.

Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this document should be addressed to: AFLC/LOLME, Wright-Patterson AFB, OH 45433 by using the self-addressed Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or letter.

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PUBLICATIONS

TO 00-25-241

Parachute Log and Records

(Copies of specifications, standards, handbooks, drawings, and publications required by manufacturers in connection with specific acquisition functions should be obtained from the contracting activity or as directed by the contracting officer.)

2.1.3 Order of precedence. In the event of a conflict between the text of this specification and the references cited herein, the text of this specification shall take precedence.

3. REQUIREMENTS

3.1 Preparation. The style and format of the manual shall be in accordance with the requirements of MIL-P-38790 and MIL-M-38784.

3.2 Contents. The instructions shall be as brief and concise as possible but shall be in sufficient detail to cover the parachute for which prepared without reference to other publications except as noted in 3.3.3. If any requirements for Section I, II, III are not applicable, a statement to that effect shall be made. For example, "Testing. None required."

3.2.1 Illustrations. The use of charts, tables, and illustrations is highly desirable and shall be employed wherever possible to support the text, to present information such as inspection periods, estimated repair costs, repair methods, etc.

3.2.1.1 Diagrams. A diagram of the parachute shall be furnished to illustrate the relationship of each component in assembled position. Schematic illustrations showing assembly of one or more components shall be furnished when necessary and pertinent to the work described. Parts illustrated on diagrams shall normally be identified by noun only.

3.2.1.2 Exploded views. Exploded views of parachutes shall only be used to the extent that they are essential for enabling the user to obtain a clear understanding of the work or subject matter being described.

3.2.1.3 Procedural illustrations. Inspection, repair, and packing procedures shall be illustrated, as necessary. Such illustrations are required for special, not obvious, procedures.

3.2.1.4 Tool illustrations. Illustrations of standard tools, simple jigs or devices, shall be provided in appropriate sections, if essential, to clarify the work being described.

3.2.2 Environmental control. Environmental control information shall be provided. The manual shall include information on any special maintenance required under extreme temperature, altitude, and humidity conditions within the limits established by the design specification for the equipment.

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3.3 Arrangement. The manual shall normally be arranged as follows; however, the number and title of chapters may be adjusted as dictated by the parachute being covered.

Front Matter

Chapter I - Inspection

Chapter II - Repair Procedures

Chapter III - Packing Procedures

Chapter IV - Illustrated Parts Breakdown

Chapter V - Difference Data Sheets (when applicable)

3.3.1 Front matter. The requirements of MIL-M-38784 apply.

3.3.1.1 Foreword. The foreword shall also contain the following:

- a. The military and manufacturer's designations that identify the parachute.
- b. Explanation of the parachute's purpose, followed by a statement that outlines personnel qualifications.
- c. An illustration or diagram from point of angle which will best portray the parachute.
- d. A "Table of Leading Particulars" that provides such information as type, weight, bulk, etc.
- e. Detailed description of each major component.
- f. A statement to the following effect, when applicable: "Chapters I, II, and III of this manual contain inspection, repair and packing procedures. Instructions that differ for additional-similar types are provided in Chapter V by the use of Difference Data Sheets.

3.3.2 Chapter I, Inspection. The instructions for this chapter shall be presented under the following headings. When the parachute consists of a number of major components, each component shall be treated individually.

3.3.2.1 General. Information under the "General" heading shall emphasize the importance of properly maintaining the parachute. When the parachute incorporates, or is designed to incorporate, explosive munition devices, the following warning will be added:

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WARNING

When an abnormal condition is noted and pertinent procedures contained herein do not specifically relate to the noted irregularity, work will be stopped and technically qualified guidance will be obtained before continuing the operation.

3.3.2.2 Inspection periods. A table, specifying the intervals between inspections for each activity assigned to care of the parachute, shall be furnished. The table shall specify complete inspection of the parachute prior to service packing for use, Day Periodic External Inspection, Day Periodic Complete Inspection. (The procuring activity will provide the information for insertion in the preceding blank spaces.)

3.3.2.2.1 Inspection prior to repack. A statement shall be provided covering the extent of inspection required prior to packing the parachute.

3.3.2.2.2 Day periodic external inspection. Detailed instructions shall be provided covering inspections of external parts of the packed parachutes in service, stored, or installed in aircraft. Instructions shall specify requirements for processing a complete inspection if results of the external inspection indicate the need.

3.3.2.2.3 Day periodic complete inspection. It shall be stated that all packed parachutes shall be unpacked, completely inspected, and repacked, at least once every days, or more often if conditions warrant. (Information for the blank spaces will be provided by the procuring activity.)

3.3.2.3 Preflight inspection. Instructions shall be provided covering preflight inspection of the parachute, including necessary data for adequate inspection of automatic or mechanical devices if incorporated in the parachute design.

3.3.2.4 Complete inspection procedure. A brief statement shall be provided covering the extent of inspection required at each echelon of maintenance. Subsequent paragraphs and illustrations shall provide detailed instructions for complete inspection of each major component, including operational inspection of applicable automatic or mechanical devices, and extent and types of damage, or extent of wear, that require repair or replacement. Damage not requiring repair shall not be illustrated.

3.3.3 Chapter II, Repair procedures. Instructions for repair of the major components of the parachute shall be provided in this chapter.

3.3.3.1 Estimated cost of repair. Instructions shall be furnished for determining economical repair costs for reconditioning the parachute. The text shall be supplemented with tables showing percentage of cost for new parts to be expended for repairs, and estimated costs for significant repairs, such as splicing, patching, etc.

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3.3.3.2 Detailed repair procedure. Instructions shall be provided for repair or replacement of worn or damaged components which comprise the parachute. A materials chart shall cite applicable military specifications and be furnished in the following format:

COMPONENT	ITEM	MATERIAL	SPECIFICATION
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3.3.3.3 Cleaning. Minimum instructions shall be provided for removal of loose or foreign matter from the parachute. Reference shall be made to the manual that provides detailed cleaning.

3.3.3.4 Testing. Instructions covering functional testing of the parachute shall be included. Remedial action shall be described for failures of the parachute to meet tests.

3.3.4 Chapter III, Packing procedures. This chapter shall furnish detailed instructions for assembling and packing the parachute. Information shall be presented under the following headings and any additional headings deemed essential.

3.3.4.1 Facilities and equipment. Data shall be provided as to facilities and major equipment, such as space, tables, etc., required to accomplish packing.

3.3.4.2 Packing. Detailed instructions shall be provided covering the proper layout of the parachute, assembly of each component, folding, packing, and other procedures required for final preparation of the parachute. These instructions shall be provided in step-by-step sequence and supplemented with essential illustrations. Instructions shall specify required dimensional size of the parachute in packed configuration and other dimensions essential for proper installation or application for which the parachute is designed. Parachute logs and records shall be in accordance with TO 00-25-241.

3.3.5 Chapter IV. Illustrated parts breakdown. This chapter shall consist of an illustrated parts breakdown in accordance with MIL-M-38807. An introduction is not required, this information (if required) shall be included in the foreword to the technical order (3.3.1.1).

3.3.6 Chapter V, Difference data sheets. This chapter, when applicable, shall consist of difference data sheets for additional similar types of the basic parachute. Normally, this shall be Chapter V but it shall be given the next appropriate higher chapter number when more than five chapters are used to cover the basic model. Separate difference data sheet(s) shall be prepared for each additional similar type to express in the briefest and most practical form the differing inspection, repair, and packing procedures.

3.3.6.1 Format. The requirements of MIL-M-38784 are applicable. The first difference data sheet for each additional model shall begin on the next page. Page numbers shall be assigned consecutively as coverage of each model is added.

3.3.6.2 Contents. Difference data sheets shall contain the following data, as appropriate, to compress, in five or less pages, the information on differences.

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- a. A small external view of the model (if sufficiently different).
- b. A table of leading particulars or a table of differences.
- c. Illustrations essential for clarifying differences. Illustrations in preceding chapters shall not be duplicated but referred to, when applicable. Reference shall not be made to illustrations on other difference data sheets.
- d. Coverage of information specified in 3.3.1.1.e, 3.3.2.1 through 3.3.2.4, 3.3.3.1 through 3.3.3.4, 3.3.4.1 and 3.3.4.2. Sentences shall be in short telegraphic style.
- e. The last portion of the sheet(s) for each model shall consist of a complete illustrated parts breakdown, as required by 3.3.5. The breakdown for each added type shall show its differences to the basic type, and to all other types covered by difference data sheets previously inserted into the manual.

4. QUALITY ASSURANCE PROVISIONS

4.1 Quality. Quality assurance provisions shall be in accordance with the requirement of MIL-M-38784.

5. PREPARATION FOR DELIVERY

5.1 Packaging. Packaging, packing, and marking shall be in accordance with the requirement of MIL-M-38784 and MIL-P-38790.

6. NOTES

6.1 Intended use. Manuals are intended to provide data for maintenance personnel to inspect, repair, and pack parachutes.

6.2 Data Requirements. When this specification is used in an acquisition which incorporates a DD Form 1423, Contract Data Requirements List (CDRL), the data requirements identified below shall be developed as specified by an approved Data Item Description (DD Form 1664) and delivered in accordance with the approved CDRL incorporated into the contract. When the provisions of DAR 7-104.9 (a) (2) are invoked and the DD Form 1423 is not used, the data specified below shall be delivered by the contractor in accordance with the contract or purchase order requirements. Deliverable data required by this specification is cited in the following paragraphs.

PARAGRAPH NO.	DATA REQUIREMENT TITLE	APPLICABLE DID NO.	OPTION
3.1	Technical Orders	DI-M-3407	Manual, Technical: Inspection, Repair, and Packing Instructions.

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(Data item descriptions related to this specification, and identified in chapter 6 will be approved and listed as such in DoD 5000.19L, Vol. II, AMSDL. Copies of data item descriptions required by the contractors in connection with specific acquisition functions should be obtained from the Naval Publications and Forms Center or as directed by the contracting officer.)

6.3 Changes from previous issue. Asterisks are not used in this revision to identify changes with respect to the previous issue due to the extensiveness of the change.

Custodian:
Air Force - 16

Preparing Activity:
Air Force - 16

Review Activities:
Air Force: 01, 10, 11, 99

(Project TMSS F493)

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NOTE: This form shall not be used to submit requests for waivers, deviations or clarification of specification requirements on current contracts. Comments submitted on this form do not constitute or imply authorization to waive any portion of the referenced document(s) or to amend contractual requirements.

DOCUMENT IDENTIFIER (Number) AND TITLE

MTL-M-9913B (USAF) Manual, Technical: Inspection, Repair & Packing Instructions
 NAME OF ORGANIZATION AND ADDRESS OF SUBMITTER

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2. REMARKS

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DD FORM 1426
1 OCT 77

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