

MIL-M-81748C(AS)

18 March 1985

Superseding

MIL-M-81748B(AS)

11 January 1978

MILITARY SPECIFICATION

MANUALS, TECHNICAL: RAPID ACTION CHANGES;
REQUIREMENTS FOR PREPARATION OF

This specification is approved by the Naval Air Systems Command, Department of the Navy, and is available for use by all Departments and Agencies of the Department of Defense.

1. SCOPE

1.1 Scope. This specification covers requirements for the preparation of Rapid Action Changes (RACs) to technical manuals (TMs). RACs will be used only to expedite the issuance of urgent operation and maintenance change information as defined in paragraph 3.1.2. RACs are applicable to all in-production and out-of-production NAVAIR weapon system maintenance instruction manuals, related component equipment manuals, maintenance requirement cards, illustrated parts breakdown, support equipment, weapons handling and loading manuals, calibration manuals, and other related procedural manuals. Naval Air Training and Operating Procedures Standardization (NATOPS) flight manuals and tactical manuals are excluded from this program.

1.2 Classification. TM RACs covered by this specification shall be of the following types:

Type I - Interim Rapid Action Changes (IRACs)

- A. Prepared as naval/Contract Administrative Office (CAO) messages to cover urgent change data requiring immediate dissemination (see figure 1).
- B. Prepared as a naval/CAO speedletter to cover urgent change data such as changes to wiring diagrams, schematics, other illustrations that cannot adequately be transmitted by message (see figure 2).

Type II - Formal Rapid Action Changes

Prepared as a replacement for an interim RAC. However, if reproducible copy can be prepared for a Type II formal RAC and ready for reproduction within ten days after resolution of the required corrective action, it will not require the issuance of an interim RAC. If the provision is exercised against a manual maintained on microfilm, the requirement remains to update the cartridge within 60 days after the formal RAC is issued. A note shall be placed on the title page to the effect that an "interim" RAC has not been issued prior to the "formal" RAC.

Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this document should be addressed to: Commanding Officer, Naval Air Engineering Center, Systems Engineering and Standardization Department (SESD) Code 93, Lakehurst, NJ 08733, by using the self-addressed Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.

TMSS

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2. APPLICABLE DOCUMENTS

2.1 Government documents.

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

SPECIFICATIONS

MILITARY

MIL-M-23618	Manuals, Technical; Periodic Maintenance Requirements; preparation of
MIL-M-38784	Manuals, Technical; General Style and Format Requirements
MIL-P-38790	Printing Production of Technical Manuals; general requirements for
MIL-M-81927	Manuals, Technical; General style and format of (work package concept)
MIL-M-85337	Manuals, Technical; Quality Assurance Program; requirements for

(Copies of documents, other than specifications, standards, 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).

2.2 Order of precedence. In the event of a conflict between the requirements of this specification and the references cited herein, the requirements of this specification shall take precedence. When conflict exists between the contract and this specification, the contract shall take precedence.

3. REQUIREMENTS

3.1 General. RACs will provide operating forces and maintenance personnel with accurate and timely technical information necessary for the performance of their respective missions. The technical information provided shall include that related to safety of personnel and flight, aircraft grounding, mission accomplishment, and equipment damage.

3.1.1 Information source. Information for RACs may emanate from or be associated with the following:

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a. Technical directives and changes thereto including interim technical directives.

b. Engineering or other technical reports.

c. Manual change releases.

d. Service bulletins.

e. Technical publication deficiency reports.

f. Design changes not covered by engineering change action (detailed design specification changes).

3.1.2 Coverage. RACs shall be prepared and issued when any of the following conditions exist:

3.1.2.1 Hazards to safety of personnel. Hazards to safety of personnel are those conditions which, if left uncorrected, would directly contribute to serious bodily injury resulting in loss of life, loss of limbs, or impairment of senses (sight, hearing, smell, taste, or touch). Injuries such as bruises, scratches, pinched fingers, and discomfort caused by odors emanating from nontoxic substances shall not be considered serious.

a. In determining whether a hazard to the safety of personnel exists, reason and judgment shall be exercised in isolating cause and effect. For example, a maintenance man received a shock when he touched an exposed part of an electrical circuit carrying low voltage at low amperage. He jumped backward and was injured when he struck his head on an adjacent bulkhead. In this situation, the exposed part of the electrical circuit was not the direct cause of the man's injury; therefore, the condition does not constitute a hazard to personal safety. However, if the electrical circuit were of sufficient amperage to cause serious injury or death, it would constitute a hazard and the issuance of a RAC would be justified. Similarly, if an arming circuit must be grounded prior to removing a warhead to avoid possible detonation, and if the applicable TM makes no mention of grounding the warhead, a hazard exists and the issuance of a RAC would be justified.

b. The existence of safety hazards which would not normally cause fatal injuries but which would be likely to cause broken limbs, sprains, or dislocation of limbs or joints, shall be considered valid ground for issuing RACs. These hazards would include sharp edges on a chassis, spilled fluid (such as hydraulic fluid or oil), and other hazardous conditions related to the removal of equipment from aircraft.

c. An improbable possibility shall not be used as a criterion for determining a safety hazard. For example, a person can be injured by falling off a ladder; however, unless there is something peculiar about the ladder that required special safety attention, instructions would not be issued on how to properly stand on a ladder.

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3.1.2.2 Impairment of safety of flight. A change pertaining to a subsystem (hydraulic, electrical, etc.), an assembly or component part, the failure or malfunction of which would result in the loss of an aircraft, shall be considered valid justification for issuance of a RAC. A change correcting an intermittent faulty operation of any piece of equipment or subsystem that might eventually result in a loss of an aircraft shall also be considered a valid reason for issuing a RAC.

3.1.2.3 Aircraft grounding. A change affecting equipment operation which, if not incorporated, would result in an aircraft being grounded constitutes a necessity for issuing a RAC.

3.1.2.4 Mission capability/fleet readiness. Component or system failure or malfunction which renders an aircraft incapable of performing a specifically assigned mission will necessitate the issuance of a RAC. New improvements or variations in methods of operation such as a new technique of using a hoist in rescue work or an easier method of loading film into a camera should not be used as criteria for RACs. However, changes in maintenance procedures (i.e. repair capabilities, expanded operating limits, etc.) that significantly reduce manhours and material expenditures and increase readiness will necessitate issuance of a RAC. In any case, the originator must determine whether the proposed change in operation or maintenance procedures will appreciably increase mission capability (thereby necessitating a RAC) or will merely improve procedures without significantly affecting mission capability (in which case a RAC is not warranted).

3.1.2.5 Equipment damage. Information related to significant equipment damage which, if uncorrected, would cause appreciable equipment malfunction, is valid subject matter for a RAC. If the proposed change corrects a method of removing a chassis to prevent scratching or denting of the instrument panel, the change shall not be submitted. However, if the change prevents an instrument face of non-glare glass from being significantly scratched, a RAC will be issued on the grounds that scratches on the glass would impair visibility of the instrument to a point not capable of adequate readability.

3.2 Manner of preparation.

3.2.1 Type I - Interim Rapid Action Changes.

a. Type IA. Both Type IA and IB interim RACs shall be developed and issued by the preparing activity in the most expeditious manner as possible. A type IA interim RAC shall be issued as a Naval/CAO message containing all essential information (see figure 1). The message should normally be assigned a category of routine. The originator may assign a higher category to the message traffic as conditions warrant. The text of the message shall be clear, accurate, and concise. Good judgment must be used so as to maintain continuity of the actions to be taken and adequately cover the intended change.

b. Type IB.

(1) A type IB interim RAC shall be issued as a speedletter and shall be composed in the very brief style of a message containing all essential information (see figure 2).

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(2) Speedletters shall be prepared using the preparing activity's established speedletter format for the first page. The second and succeeding pages are to be prepared on standard 8-1/2 x 11 inch plain white bond paper.

(3) New art may be pencilled sketches. Freehand pencilled callouts may be used. Changes to existing art may be pencilled in.

(4) All text and drawings shall have sharp, clean black lines to ensure legible reproduction accomplished by electrostatic methods or other techniques.

3.2.2 Type II - Formal Rapid Action Changes.

a. Type II formal RACs shall be issued as insert change pages prepared to the same style and format of the technical manual being changed. No additional formal manual change action shall be required when manual is maintained on paper.

b. If the provision (See 1.2) to issue a Type II formal RAC instead of a Type IA or IB interim RAC is exercised against a manual maintained on microfilm, there is a requirement to update the cartridge within 60 days after the Type II RAC is issued.

c. Type II formal RACs shall be prepared as reproducible copy.

3.2.2.1 Reproducible copy. Reproducible copy shall be prepared in accordance with the same style and format of the existing manual being changed. New art work and changes to existing line art and illustrations shall meet the quality of the existing artwork.

3.2.3 RACs should not exceed 12 pages of text and illustrations. RACs addressing more than one manual shall be issued separately as individual messages/speedletters.

3.2.4 Security classification. The security classification of the change shall be determined from the content of the change. A classified RAC can be issued only to a classified TM. The security classification of a RAC can be lower but not higher than the security classification of the TM being changed.

3.2.4.1 Security markings. Security markings shall be in accordance with current security regulations and MIL-M-38784 and MIL-M-81927 or the general requirements specification used to prepare the TM.

3.3 RAC identification.

3.3.1 RAC numbers. RACs shall be numbered consecutively throughout the life of the manual beginning with RAC No. 1. These numbers shall be independent of and not affected by numbers issued for normal changes. All numbers will be assigned by the Technical Manual Management Agency (TMMA) in coordination with the cognizant TM preparing activity. A formal RAC that replaces an interim RAC shall have the same number as the interim RAC it replaces. Whenever a formal RAC replaces two or more interim RACS, the formal RAC will be assigned the same number as the latest interim RAC it replaces.

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3.3.2 RAC date. The date for Type IA interim RAC shall be the date the message is released (e.g., message date time group 021640 Mar 84 - RAC date is 2 March 1984). The date for Type IB interim RACs shall be the release date of the speedletter.

3.3.3 Cancelled RAC numbers. When an interim or formal RAC is issued with incorrect or incomplete data, the RAC is to be cancelled and reissued as a new interim or formal RAC. The new RAC shall be issued with a new number and shall cancel the superseded RAC. See 3.7 for maintaining status of cancelled RAC numbers.

3.4 Format and arrangement.

3.4.1. Type IA. Interim RACs shall be issued as messages containing all essential information (see figure 1).

3.4.2. Type IB. Interim RACs shall be issued as speedletters containing all essential information (see figure 2).

3.4.3. Purpose of Change. All Interim RACs shall include the condition (see 3.1.2) and the purpose of the change (see figures 1 and 2).

3.4.3.1. Detailed instruction.

a. The following provisions shall be included verbatim in all Type IA and IB interim RACs as the lead in sentences introducing the technical content changes:

"Pen and ink changes to the technical content of a manual are not authorized. The following technical content change information applies to the following referenced pages and paragraphs of the subject manual until the formal change is released."

3.4.4 Related instructions.

a. Direction to maintain the interim RAC with the applicable manual (paper copy or microfilm) shall be given as follows:

(1) Paper copy - direction to maintain the interim RAC with the applicable manual by placing the interim RAC directly behind the title page and to annotate the margin of the pages impacted with interim RAC number

(2) Microfilm copy - direction to maintain the interim RAC with the applicable microfilm cartridge and to annotate the interim RAC number on the cartridge side label.

(3) Include direction that the interim RAC is not to be removed until receipt of the formal change pages/microfilm cartridge incorporating the interim RAC. A target date for incorporating the interim RAC into the applicable manual shall also be indicated (see figures 1 and 2). The date for incorporation must be within 60 days from the date the IRAC was issued.

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3.4.5 Type II. Formal RACs shall consist of a title page, list of effective changed work packages/pages/cards, text pages, and illustration pages as required.

3.4.5.1 Title page. (See figure 3.) The title page of the formal RAC shall match the basic format of the existing title page. The RAC number and date shall appear on the title page below the issue or revision date.

3.4.5.2 "A" page. (See figures 4 & 7.) The "A" page shall contain the list of effective changed work packages/pages/cards, which shall include a list summarizing the numbers and dates of all rapid action changes issued since the basic manual or its latest revision. "RAC" shall appear before a RAC number, which shall be listed opposite the applicable page numbers along with normal change numbers or zeros (denoting the basic manual or latest revision). However, each work package/page/card listed shall reflect only its latest change or RAC number.

3.4.5.3 Text. Text shall be in accordance with the general requirements and technical content specifications used to prepare the technical manual being changed, and shall be prepared to add, delete, and change information in a manner that will best afford expediency, clarity and coherency within the limits of the situation. Sections, paragraphs, sentences and words may be added, deleted or corrected as required.

3.4.5.4 Text and illustration pages. Replacement text and illustration pages shall be arranged in the same order as the affected pages in the manual or card deck. They shall conform in format and style to the pages which they supersede.

3.4.5.5 Change symbols. Change symbols shall always be used and shall be as specified in the applicable general style and formal requirements specification used to prepare the manual.

3.4.6. Page numbers.

3.4.6.1 Title and "A" pages. (See figures 3 & 4.) The title page of a formal RAC shall be prepared in the same manner as a normal change. The "A" page shall back up the title page, and the information shall continue on subsequent lettered pages as required. MIL-M-81927, MIL-M-38784, MIL-M-23618 or other applicable general requirements specification shall be used as a guide.

3.4.6.2 Replacement Pages. Replacement pages shall be assigned the same numbers as the technical manual pages they replace.

3.4.6.3 Added pages. Pages added to a technical manual as a result of a RAC shall be assigned numbers compatible with the page sequence of the technical manual being changed, and shall bear letter suffixes in accordance with the general requirements specification used to prepare the technical manual.

3.5 Availability.

3.5.1 A Type IA interim RAC shall be issued in accordance with 3.2.1.

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3.5.2 A Type IB interim RAC shall be issued within ten (10) days after resolution of the required corrective action.

3.5.3 A Type II formal RAC shall be issued within 60 days after release of the interim RAC.

3.5.3.1 Formal RACs are not required to replace interim RACs for manuals issued in paper when the applicable data is to be covered in a formal manual change which will be issued within 60 days after release of the Type I interim RAC. Conversion from an interim RAC to a formal RAC is not required for microfilm manuals. However, all RACs whether issued as interim or formal which are applicable to microfilm manuals must be incorporated into cartridges within 60 days after release.

3.6 When printing is required, it shall be in accordance with MIL-P-38790.

3.7 Title and "A" pages. (See figures 5, 6, 7, 8, 9, 10, and 11.) The title and "A" pages of changed manuals and all subsequent revisions shall reflect all incorporated RACs of previous editions. The title page of manual changes shall indicate the RACs incorporated by the applicable change. The title page of all revised manuals shall indicate the RACs incorporated by the revision. The "A" pages of all subsequent changes to manuals and manual revisions shall reflect the cumulative status of all RACs issued and incorporated. To maintain continuity of all issued RAC numbers, cancelled RAC numbers, including those assigned but never issued, are to be included in the cumulative status of RACs incorporated.

4. QUALITY ASSURANCE PROVISIONS

4.1 Responsibility for inspection. Unless otherwise specified in the contract or purchase order, the contractor is responsible for the performance of all inspection requirements as specified herein. Except as otherwise specified in the contract or purchase order, the contractor may use his own or any other facilities suitable for performance of the inspection requirements specified herein unless disapproved by the government. The government reserves the right to perform any of the inspections set forth in the specification where such inspections are deemed necessary to assure supplies and services conform to prescribed requirements (see 6.2.1).

4.2 Validation. Validation shall be performed in accordance with MIL-M-85337 to ensure adequacy and accuracy of the data consistent with the purpose and urgency of the RAC requirement.

5. Packaging.

Packaging, packing and marking for shipment shall be in accordance with MIL-M-23618, MIL-M-38784 or MIL-M-81927, as applicable.

6. Notes.

6.1 Intended use. RACs are intended for use in accomplishing the expeditious updating of TMs with urgent and essential information.

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6.2 Ordering data.

6.2.1 Acquisition requirements. Acquisition documents should specify:

- a. Title, number, and date of this specification.
- b. Quality assurance provisions (see 4.1).

6.3 Figures contained in this specification. The figures in this specification are examples intended to illustrate style, format, and sample content. They shall not be used for interpretation of specific technical content or exact scale requirements.

6.4 Supersedure information. This specification supersedes, in whole or in part, specifications or other documents used to express technical content requirements for TMs that are covered within the scope of this specification

6.5 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 changes.

Preparing activity:
Navy - AS

(Project TMSS N-157)

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ACTION: AIG 165, SPECIFIC AIRCRAFT AIG

INFO: AS REQUIRED

UNCLAS //N05600//

SUBJ: INTERIM RAPID ACTION CHANGE NO. _____ TO TECHNICAL MANUAL
(NAVAIR NUMBER AND TITLE)

DATE OF ISSUE/CHANGE NO. AND DATE (AS APPLICABLE)

MIARS CARTRIDGE NO. AND DATE OF ISSUE (AS APPLICABLE)

A. REFERENCES: AS REQUIRED

1. RESPONSIBLE CODE: (AS APPLICABLE)

2. PURPOSE OF CHANGE: SPECIFICALLY DEFINE CONDITION FOR
MESSAGE RELEASE AS COVERED IN PARAGRAPH 3.1.2, (E.G.,
HAZARDS TO SAFETY OF PERSONNEL, IMPAIRMENT OF SAFETY OF
FLIGHT, AIRCRAFT GROUNDINGS) AND PURPOSE OF CHANGE.

3. DETAILED INFORMATION:

A. PEN AND INK CHANGES TO THE TECHNICAL CONTENT OF A MANUAL
ARE NOT AUTHORIZED. THE FOLLOWING TECHNICAL CONTENT CHANGE
INFORMATION APPLIES TO THE FOLLOWING REFERENCED PAGES AND
PARAGRAPHS OF THE SUBJECT MANUAL UNTIL THE FORMAL CHANGE IS
RELEASED.

FIGURE 1. Example of type IA "message" interim rapid action change.

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- B. CARTRIDGE FRAME NUMBERS (AS APPLICABLE).
- C. WORK PACKAGES, SECTIONS PAGES, AND PARAGRAPHS AFFECTED (AS APPLICABLE).
- D. DESCRIPTIVE INFORMATION AND PROCEDURES.
- E. INSPECTION AND TEST PROCEDURES (IF REQUIRED)
- 4. VALIDATED BY:
- 5. RELATED INSTRUCTIONS:
 - A. FOR PAPER COPY - DIRECTION TO PLACE THE IRAC DIRECTLY BEHIND TITLE PAGE UNTIL RECEIPT OF THE FORMAL INSERT CHANGE PAGE(S) INCORPORATING THE IRAC AND TO ANNOTATE THE MARGIN OF THE PAGES IMPACTED WITH IRAC NUMBER.
 - B. FOR MICROFILM COPY - DIRECTION TO ANNOTATE THE IRAC NUMBER ON CARTRIDGE SIDE LABEL AND TO MAINTAIN THE IRAC WITH THE APPLICABLE MICROFILM CARTRIDGE UNTIL THE IRAC HAS BEEN INCORPORATED.
 - C. (TM PREPARING ACTIVITY) WILL INDICATE THE SCHEDULED DATE FOR INCORPORATING THE IRAC INTO THE APPLICABLE MANUAL. THE DATE FOR INCORPORATION MUST BE WITHIN SIXTY DAYS FROM THE DATE THE IRAC WAS ISSUED.

FIGURE 1. Example of type 1A "message" interim rapid action change - Continued.

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☆ U.S. GOVERNMENT PRINTING OFFICE: 1975 - 606 - 990

OPNAV 5216/145 (Rev. 7-73)

S/N 0107-1F-728-8111

USE FOR URGENT
LETTERS, ONLY**Naval Speedletter**DO NOT CLEAR THROUGH
COMMUNICATIONS OFFICE

CHECK TYPE OF MAIL		CLASSIFICATION	DATE	INSTRUCTIONS
<input type="checkbox"/> REGULAR	<input type="checkbox"/> REGISTERED			
<input type="checkbox"/> AIR	<input type="checkbox"/> CERTIFIED	IN REPLY REFER TO		<p>1. Message type phraseology is permissible.</p> <p>2. Both addresses must be appropriate for window envelope or bulk mailing, as intended. Include attention codes, when known. Use dots and brackets as guides for window envelope addresses.</p> <p>3. Give priority to processing, routing, and action required. Avoid time-consuming controls.</p> <p>4. In order to speed processing, a readily identifiable, special window envelope, OPNAV 5216/145A, Speedletter Envelope, is provided for unclassified speedletters where bulk mailing is not used. Other window envelopes also may be used. In bulk mail, speedletters should be placed on top of regular correspondence.</p>
<input type="checkbox"/> SPECIAL DELIVERY				

To:

Distribution List

Fold STANDARD REFERENCES AND ENCLOSURES, IF ANY; TEXT AND SIGNATURE BLOCK

Subj: Interim Rapid Action Change 5 to Technical Manual
NAVAIR 01-F14AAA-2-4-13

Encl: Interim Rapid Action Change 5 to NAVAIR 01-F14AAA-
2-4-13 of 15 August 1977, Change 7 of 30 January
1981, MIARS Cartridge No. F14.11 of 17 June 1981

1. Enclosure (1) is issued to prevent incorrect installation of torsion spring in aft sway brace assembly of LAU-92 launcher that could result in damage to launcher release assembly drag link.

NOTE: Multiple IRACs addressing the same subject matter shall not be contained in the same speedletter. Each IRAC is to be presented as a separate speedletter.

Fold

COPY TO

Distribution List: F-14 addresses as developed by NA 00-25DRT-1

From:

← ADDRESS REPLY AS
SHOWN AT LEFT, OR, RE-
PLY HEREON AND RETURN

CLASSIFICATION

FIGURE 2. Example of type IB "speedletter" interim rapid action change.

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Interim Rapid Action Change 5 to NAVAIR 01-F14AAA-
-2-4-13 of 15 August 1977, Change 7 of 30 January
1981, MIARS Cartridge No. F14.11 of 30 January 1981

Ref: (a) Memorandum A51-356-A-81-03 of 17 June 1981
(b) Tech Alert 81-005, of 20 May 1981
(c) Tech Alert 81-005A, of 17 June 1981

1. Responsible Code: NAVAIR (AIR-4111)

2. Purpose of Change: To prevent incorrect installation of torsion spring in aft sway brace assembly of LAU-92 launcher that could result in damage to launcher release assembly drag link. Condition - mission capability.

3. Detailed Information:

a. Pen and ink changes to the technical content of a manual are not authorized. The following technical content change information applies to the following referenced pages and paragraphs of the subject manual until the formal change is released.

b. Affected pages: WP018 00, pages 6, 7 and 13.

c. WP018 00, page 6, delete existing figure 2 and insert new figure 2.

d. WP018 00, page 7, change paragraph 3, step j to read as follows:

j. Install sway braces:

(1) Install left forward sway brace. Coat threads with sealing compound

CAUTION

Ensure that the helical spring is installed in the right aft sway brace as shown in figure 2. If it is installed correctly, the helical spring shall keep upper end of sway brace under tension against raised boss on side of launcher.

Enclosure (1)

FIGURE 2. Example of type IB "speedletter" interim rapid action change - Continued.

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- (2) Install right aft sway brace.
(See figure 2.)

e. WP018 00, page 13, before paragraph 9, step e, add the following caution and step:

CAUTION

Before installing the LAU-92 launcher, the right aft sway brace shall be inspected for proper installation of the helical spring. If the helical spring is not installed correctly, the drag link on the latch-up mechanism will be damaged when the LAU-92 is installed.

dA. Inspect right aft sway brace. Helical spring shall keep upper end of sway brace under tension against raised boss on side of launcher. For correct installation of helical spring, see figure 2.

4. Validated by: Grumman Aerospace Corporation (GAC).

5. GAC will incorporate this IRAC into the applicable manuals no later than 1 May 1982.

6. Related instructions: Maintain IRAC No. 5 with applicable microfilm cartridge and annotate IRAC number on cartridge side label. Do not remove IRAC until receipt of formal change.

Enclosure (1)

FIGURE 2. Example of type IB "speedletter" interim rapid action change - Continued.

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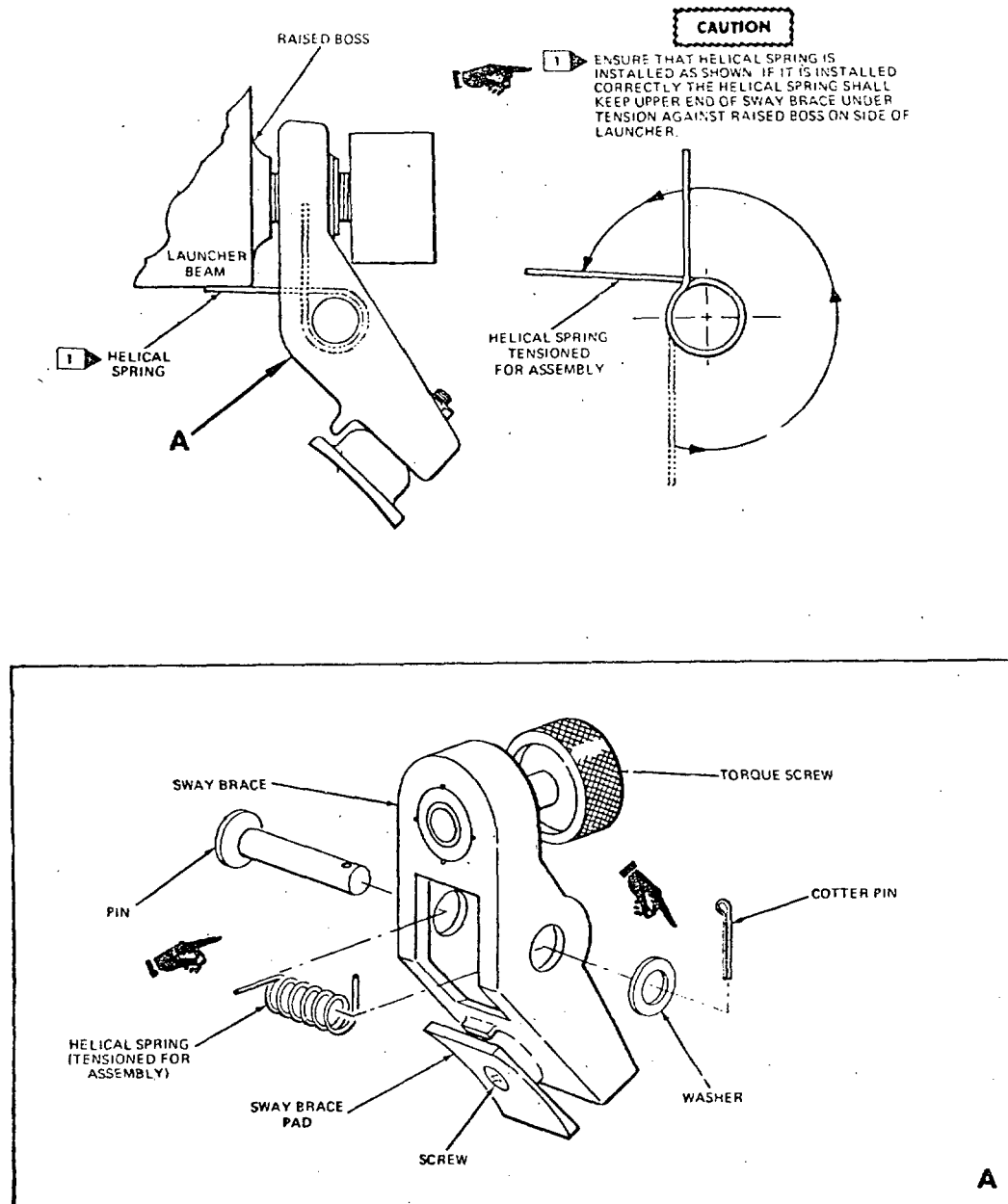


Figure 2. LAU-92 Right Aft Sway Brace

ENCLOSURE (1)

FIGURE 2. Example of type IB "speedletter" interim rapid action change. - Continued.

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NAVAIR 01-XXXXX-75

TECHNICAL MANUAL

**AIRBORNE WEAPONS/STORES
LOADING MANUAL**

**NAVY MODELS X-XX, X-XX
AND
XX-XX AIRCRAFT**

This RAC supersedes IRAC 8

This publication is required for official use or for administrative or operational purposes only. Distribution is limited to U.S. Government agencies. Other requests for this document must be referred to: Commanding Officer, Naval Air Technical Services Facility, 700 Robbins Avenue, Philadelphia, PA 19111.

PUBLISHED BY DIRECTION OF THE COMMANDER, NAVAL AIR SYSTEMS COMMAND

15 NOVEMBER 1971

RAPID ACTION CHANGE 8 — 1 OCTOBER 1973

FIGURE 3. Example of formal type II rapid action change title page, typical format and information (format applicable to MIL-M-38784).

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NAVAIR 01-XXXXX-75

LIST OF EFFECTIVE PAGES

Insert latest changed pages; dispose of superseded pages in accordance with applicable regulations.

NOTE: On a changed page, the portion of the text affected by the latest change is indicated by a vertical line, or other change symbol, in the outer margin of the page. Changes to illustrations are indicated by miniature pointing hands. Changes to wiring diagrams are indicated by shaded areas.

Dates of issue for original and changed pages are:

Original 0	15 Nov 71	RAC 5	15 Aug 72
RAC 1	15 Apr 72	RAC 6	2 Oct 72
RAC 2	15 May 72	Change 1	1 Apr 73
RAC 3	1 June 72	IRAC 7	Cancelled
RAC 4	2 June 72	RAC 8	1 Oct 73

Total number of pages in this manual is 570 consisting of the following:

Page No.	# Change No.	Page No.	# Change No.	Page No.	# Change No.
Title	RAC 8	7-3 - 7-5	1	14-8 Blank	0
A	RAC 8	7-6 Blank	0	15-1 - 15-2	0
i - xxii	0	8-1 - 8-3	0	15-3 - 15-4	1
1-1 - 1-23	0	8-4 - 8-7	1	16-1	0
1-24 Blank	0	8-8 Blank	0	16-2	RAC 2
2-1 - 2-77	0	9-1	0	16-3 - 16-7	0
2-78 - 2-79	1	9-2	1	16-8	RAC 2
2-80 - 2-81	0	9-3 - 9-6	0	16-9	0
2-82	1	9-7 - 9-9	1	16-10 Blank	0
2-83 - 2-168	0	9-10 Blank	0	17-1 - 17-14	0
3-1 - 3-30	0	10-1 - 10-2	RAC 4	18-1 - 18-7	RAC 6
4-1 - 4-12	RAC 5	10-3 - 10-4	1	18-8 Blank	0
4-13 - 4-61	0	10-5 - 10-9	RAC 4	19-1 - 19-8	0
4-62 - 4-99	RAC 3	10-10 - 10-12	1	20-1 - 20-2	0
4-100 - 4-109	0	11-1	RAC 2	20-3 - 20-4	1
4-110 Blank	0	11-2 - 11-8	0	20-5 - 20-6	RAC 8
5-1 - 5-20	0	11-9 - 11-10	RAC 2	20-7 - 20-8	1
5-21	RAC 8	11-11 - 11-16	0	20-9	0
5-22	RAC 1	11-17	RAC 2	20-10 Blank	0
5-23 - 5-25	0	11-18 - 11-19	0	21-1	1
5-26	RAC 1	11-20 Blank	0	21-2 - 21-3	0
5-27 - 5-44	0	12-1 - 12-8	0	21-4 - 21-6	1
5-45 - 5-56	RAC 1	13-1 - 13-4	RAC 2	22-1 - 22-2	RAC 6
5-57 - 5-60	0	13-5 - 13-8	1	22-3 - 22-6	1
6-1 - 6-2	0	14-1 - 14-3	0	Glossary 1	
6-3 - 6-5	1	14-4	1	Glossary 4	0
6-6 Blank	0	14-5	RAC 2	Index 1 - Index 5	0
7-1 - 7-2	0	14-6 - 14-7	1	Index 6 Blank	0

Zero in this column indicates an original page.

A RAC 8

FIGURE 4. Example of formal type II rapid action change list of effective pages, typical format and information (format applicable to MIL-M-38784)

MIL-M-81748C(AS)

A1-F18AC-560-200

1 JUNE 1982

TECHNICAL MANUAL

**ORGANIZATIONAL MAINTENANCE
TESTING AND TROUBLESHOOTING**

AIR DATA COMPUTER SYSTEM

NAVY MODEL

F/A-18A AND TF/A-18A

161353 AND UP

THIS MANUAL SUPERSEDES A1-F18AC-560-200 DATED 1 FEBRUARY 1981,
CHANGED 1 MAY 1981 INCLUDING RACs 1 THRU 3

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**PUBLISHED BY DIRECTION OF THE
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FIGURE 5. Example of title page of a revised manual indicating accountability for incorporated rapid action changes (format applicable to MIL-M-81927).

MIL-M-81748C(AS)

A1-F18AC-560-200

1 FEBRUARY 1981

Change 2 - 30 NOVEMBER 1981 (A1-F18AC-560-20B)

TECHNICAL MANUAL

**ORGANIZATIONAL MAINTENANCE
TESTING AND TROUBLESHOOTING**

AIR DATA COMPUTER SYSTEM

NAVY MODEL

F/A-18A AND TF/A-18A

161353 AND UP

THIS CHANGE INCORPORATES IRAC 1

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FIGURE 6. Example of title page of a changed manual indicating accountability for incorporated interim rapid action change (format as applicable to MIL-M-81927).

MIL-M-81748C(AS)

A1-F18AC-XXX-XXX

CHANGE 3. 1 SEPTEMBER 1983

PAGE A

NUMERICAL INDEX OF EFFECTIVE WORK PACKAGES

List of Current Changes

Original 0	1 Feb 81 INCL previously Inc RAC's 1 through 3	IRAC 5	Cancelled (Never Issued)
Change 1	1 May 81	RAC 6	1 Jun 82
Change 2	30 Nov 81 (IRAC 4 Inc)	Change 3	1 Sep 83

Only those work packages assigned to the manual are listed in this index. Insert Change 2 dated 30 Nov 81. Dispose of superseded work packages. If changed pages are issued to a work package, insert the changed pages in the applicable work package. The portion of the text affected in a changed or revised work package is indicated by change bars or the change symbol "R" in the outer margin of each column of text. Changes to illustrations are indicated by pointing hands or change bars as applicable.

WP Number	Title	Change Number
Title	.....	3
Page A	Numerical Index of Effective Work Packages.....	3
001 00	Alphabetical Index.....	0
002 00	Introduction.....	0
003 00	Testing.....	0
004 00	Component Locator.....	RAC 6
005 00	Troubleshooting - Maintenance Codes.....	1
006 00	Troubleshooting - Air Data Computer CP-1334/A.....	2
007 00	Troubleshooting - Angle of Attack.....	0
008 00	Troubleshooting - Total Temperature Probe and Airstream Direction Sensing Unit Heaters.....	3

FIGURE 7. Example of "A" page of a changed manual indicating accountability for a cancelled rapid action change and cumulative status of all incorporated rapid action changes (format as applicable to MIL-M-81927).

MIL-M-81748C(AS)

NAVAIR 19-600-XXX-6-2

TECHNICAL MANUAL
PERIODIC MAINTENANCE REQUIREMENTS CARDS
NOMENCLATURE
(MANUFACTURER)
TYPE EQUIPMENT CODE
THIS CHANGE INCORPORATES IRAC 12

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PUBLISHED BY DIRECTION OF THE COMMANDER, NAVAL AIR SYSTEMS COMMAND

1 DECEMBER 1977
CHANGE 3-30 DECEMBER 1980

A1-C3AA-MRC-400

LIST OF EFFECTIVE CARDS

Insert latest changed cards. Dispose of superseded cards in accordance with applicable regulations.

NOTE: That portion of text affected by the change is indicated by a vertical line or other change symbol in the outer margin of the card.

Dates of issue for original and changed cards

Original 0	1 JAN 82 incl. previously	Change 2	15 FEB 83
	inc. RACS 1 thru 6	RAC 7	10 SEP 83
Change 1	1 JUN 82	Change 3	1 FEB 84 (IRAC 8 inc.)

CARD NO.	CHANGE NO.	CARD NO.	CHANGE NO.	CARD NO.	CHANGE NO.
Title	3	xxxiv	1	5.10	2
A	3	3 & 3.1	2	5.12 thru 5.15	0
vii thru x	1	3.4 & 3.5	2	5.17	RAC 7
xiii	1	3.12	3	6.1	3
xiv	1	3.14	2	6.11 & 6.12	1
xvi	2	3.24 thru 3.26	2	6.14 thru 6.14b	3
xx	1	3.30 & 3.31 (Deleted)	2	6.16 thru 6.16b	3
xxiii	2	4.2	2	6.17	2
xxxi	2	4.4	3	6.20 thru 6.22	1
xxxii	1				

A Change 3

FIGURE 8. Example of title and "A" cards for changed periodic maintenance requirements manual indicating status of incorporated interim rapid action changes (format as applicable to MIL-M-23618).

MIL-M-81748C (AS)

NAVAIR 05-15D-501

TECHNICAL MANUAL

MAINTENANCE INSTRUCTIONS

ORGANIZATIONAL AND INTERMEDIATE

NAVY TYPE MA-1 COMPASS SYSTEM

MODEL NO.

5005A

5005C

5005K

(LEAR SIEGLER, INC.)

N00140-80-D-2454

THIS CHANGE INCORPORATES IRAC 5

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PUBLISHED BY DIRECTION OF COMMANDER, NAVAL AIR SYSTEMS COMMAND

15 JANUARY 1965

Change 2 - 15 June 1981

FIGURE 9. Example of title page for a changed manual indicating accountability for incorporated rapid action change (format as applicable to MIL-M-38784).

MIL-M-81748C(AS)**NAVAIR 05-15D-501****LIST OF EFFECTIVE PAGES**

Dates of issue for original and changed pages are:

Original	. . . . . 0	. . . . . 15 Jan 65
Change	. . . . . 1	. . . . . 1 Oct 67
RAC	. . . . . 1	. . . . . 28 Apr 81
IRAC	. . . . . 2	. . . . . Cancelled - (Never Issued)
Change	. . . . . 2	. . . . . 15 Jun 81 (IRAC 3 inc.)

Insert latest changed pages; dispose of superseded pages in accordance with applicable regulations.

NOTE: On a changed page, the portion of the text affected by the latest change is indicated by a vertical line, or other change symbol, in the outer margin of the page. Changes to illustrations are indicated by miniature pointing hands. Changes to wiring diagrams are indicated by shaded areas.

Total number of pages in this manual is 130 consisting of the following:

Page No.	#Change No.	Page No.	#Change No.	Page No.	#Change No.
Title	2	33	1	82	1
A	2	34-39	0	83	0
i	0	40	1	84	RAC 1
ii	1	41-46	0	85-89	0
iii-iv	0	47	RAC 1	90	1
v	1	48-49	0	91-92	0
vi	0	50	1	93	1
1	2	51	0	94-106	0
2-3	0	52	1	106A	2
4	1	53-56	0	106B-106G	1
5-22	0	57	1	106H	2
23	1	58-78	0	106I	1
24-31	0	79	1	106J Blank	1
32-32A	1	80-81	0	107-110	0
32B Blank	1				

#Zero in this column indicates an original page.

A Change 2

FIGURE 10. Example of "A" page for a changed manual indicating accountability for incorporated interim rapid action change (format as applicable to MIL-M-38784).

MIL-M-81748C(AS)

NAVAIR 01-XXXXX-75

TECHNICAL MANUAL

**AIRBORNE WEAPONS/STORES
LOADING MANUAL**

**NAVY MODELS X-XX, X-XX
AND
XX-XX AIRCRAFT**

IRAC has not been issued prior to this RAC.

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PUBLISHED BY DIRECTION OF THE COMMANDER, NAVAL AIR SYSTEMS COMMAND

15 NOVEMBER 1971

RAPID ACTION CHANGE 8 — 1 OCTOBER 1973

FIGURE 11: Example of formal type II rapid action change title page carrying a notation that an interim rapid action change had not been previously issued prior to the formal rapid action change.

STANDARDIZATION DOCUMENT IMPROVEMENT PROPOSAL*(See Instructions - Reverse Side)*

1. DOCUMENT NUMBER MIL-M-81748C(AS)		2. DOCUMENT TITLE Manuals, Technical: RAC; Requirements for Preparation of	
3a. NAME OF SUBMITTING ORGANIZATION		4. TYPE OF ORGANIZATION (Mark one)	
b. ADDRESS (Street, City, State, ZIP Code)		<input type="checkbox"/> VENDOR	
		<input type="checkbox"/> USER	
		<input type="checkbox"/> MANUFACTURER	
		<input type="checkbox"/> OTHER (Specify): _____	
5. PROBLEM AREAS			
a. Paragraph Number and Wording:			
b. Recommended Wording:			
c. Reason/Rationale for Recommendation:			
6. REMARKS			
7a. NAME OF SUBMITTER (Last, First, MI) - Optional		b. WORK TELEPHONE NUMBER (Include Area Code) - Optional	
c. MAILING ADDRESS (Street, City, State, ZIP Code) - Optional		8. DATE OF SUBMISSION (YYMMDD)	