

MIL-STD-2128(AS)
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MILITARY STANDARD

AIRCRAFT INVENTORY RECORD



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DEPARTMENT OF DEFENSE
WASHINGTON, DC 20360
AIRCRAFT INVENTORY RECORD

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1. SCOPE

1.1 Scope. This standard covers the preparation of the Aircraft Inventory Record (AIR) for use in accomplishing inventories of equipment used on naval aircraft. It will include those items of equipment required for an aircraft to accomplish its primary and alternate missions, except as noted herein.

1.2 Purpose. This standard applies to the acquisition of all naval aircraft and equipment. The AIR will be used to establish a continuous chain of inventory and accountability for equipment installed on or designated for use on naval aircraft.

2. REFERENCED 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 standard to the extent specified herein.

SPECIFICATIONS

MILITARY

MIL-M-38784

Manuals, Technical; General Style and Format Requirements

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

INSTRUCTIONS

SECNAVINST 5212.5

Disposal of Navy and Marine Corps Records

PUBLICATIONS

NAVSUP 437

MILSTRIP/MILSTRAP Divider

NAVSUP 2002

Navy Stock List of Publications and Forms

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

3. DEFINITIONS

3.1 Definitions used in this standard. For the purpose of this standard, the following definitions apply:

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3.1.1 Loose equipment. Items of equipment to be shipped separate from the aircraft.

3.1.2 Mission essential. Those functions and equipment authorized and assigned to combat forces which would be immediately employed to wage war and provide combat support. The equipment is listed in the Mission Essential Subsystem Matrices (MESM). The MESM lists for each Type/Model/Series (T/M/S) of aircraft the equipment and subsystems that must be on board and operable before an aircraft can qualify as Optimum Performance Capable (OPC), and lists equipment required for the execution of specific missions.

3.2 Definition of acronyms. The acronyms used in this standard are defined as follows:

- a. ACC - Aircraft Controlling Custodian.
- b. AIR - Aircraft Inventory Record.
- c. AMSDL - Acquisition Management Systems Data Requirements Control List.
- d. BUNO - Bureau Number.
- e. CDRL - Contract Data Requirements List.
- f. CFA - Cognizant Field Activity.
- g. CGMARBDE - Commanding General, Marine Brigade.
- h. CGMAW - Commanding General, Marine Air Wing.
- i. COMFAIR - Commander, Fleet Air.
- j. DID - Data Item Description.
- k. DoDISS - Department of Defense Index of Specifications and Standards.
- l. GFE - Government Furnished Equipment.
- m. MAIR - Master Aircraft Inventory Record.
- n. MESM - Mission Essential Subsystems Matrices.
- o. MILSTRIP - Military Standard Requisitioning and Issuing Procedures.
- p. NAVAIR - Naval Air Systems Command.
- q. OPC - Optimum Performance Capable.
- r. OPNAV - Office of the Chief of Naval Operations.

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- s. PMA - Program Manager, Air.
- t. TD - Technical Directive.
- u. T/M/S - Type/Model/Series.

4. GENERAL REQUIREMENTS

4.1 Aircraft Inventory Record (AIR). An AIR shall be used to establish a continuous chain of inventory and accountability for equipment installed on or designated for use on naval aircraft. When authorized by the Naval Air Systems Command (NAVAIR), the initiation and maintenance of an AIR shall not be required for aircraft procured for research and development but only for aircraft procured in small numbers that are deployment restricted. Data Item Description (DID), DI-ILSS-80379, Aircraft Inventory Record, applies to these requirements. Deliverable data identified on the DD Form 1423, Contract Data Requirements List (CDRL), shall be prepared in accordance with the instructions specified in that DID.

4.2 Master Aircraft Inventory Record (MAIR). A MAIR will be maintained by NAVAIR and will identify those items of installed and loose equipment requiring a periodic inventory. The MAIR will be maintained as the standard AIR for a specified Type/Model/Series (T/M/S). The AIR serves as a checklist for inventoriable items (see OPNAV Form 4790/111, Aircraft Inventory Record Equipment List) including the authority for any existing shortages (see OPNAV Form 4790/112, Aircraft Inventory Record Shortages) and documents of accountability (see OPNAV Form 4790/104, Aircraft Inventory Record Certification and Record of Transfers) for AIR items. The AIR is not to be considered as a packing list, bill of materials, or configuration list for an aircraft.

4.3 Items included in the AIR. Items included in the AIR shall be governed by the following criteria without regard to designation as Government Furnished Equipment (GFE). Items to be included in the AIR are:

- a. equipment items essential to the health, safety and morale of the crew, e.g., bedding, life rafts, first aid kits, crash axes, and portable fire extinguishers;
- b. equipment required for the protection of the aircraft during flight and overnight storage, e.g., covers, control locks, plugs and covers for external openings;
- c. equipment subject to pilferage, e.g., clocks, tool kits, compasses, aldis lamps, mirrors;
- d. all installed and uninstalled classified items except items which are accounted for by an authorized classified material accounting system;
- e. all loose equipment items applicable to an aircraft;

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- f. all mission essential equipment that cannot be installed because the aircraft is configured for other missions, and
- g. publications, logs, records and other required documentation.

4.4 Items excluded from the AIR. The following items are to be excluded from the AIR:

- a. items of equipment which are rigidly fixed and are considered to be a basic or integral part of the aircraft, e.g., engines, propellers, wheels, tires, brakes, instruments, ejection seats;
- b. equipment or material which is provided on less than a one per aircraft basis and is accounted for by another material accounting system.

4.5 Classified equipment. AIRs shall be unclassified. When classified equipment is designated as an AIR item, the following shall apply:

- a. When the nomenclature, title and location of classified equipment are not classified, this information shall be shown in the same manner as unclassified equipment. However, the security classification, i.e., SECRET or CONFIDENTIAL, shall be indicated in capital letters immediately following the identifying nomenclature or title. In addition, an asterisk (*) with a footnote "nomenclature and title unclassified" shall be indicated.
- b. When the nomenclature, title or equipment is classified but the location of the aircraft is unclassified, only the security classification, in capital letters, shall be indicated. In addition, the symbol # with a footnote "location unclassified" shall be indicated.
- c. When the location or installation as well as the nomenclature of the equipment are classified, no notation will be made in the AIR.
- d. When the conditions outlined in 4.5b and 4.5c above pertain, the notation "See supplemental pages for classified items" shall appear in the "Miscellaneous Section" of the AIR. Supplemental pages shall be prepared showing the nomenclature, title, location and security classification of all classified material either installed in the aircraft or for which provisions have been made. The classification assigned to the supplemental pages shall be that of the highest classification of any of the contents. If the classified supplemental pages are larger than the basic AIR, the supplemental pages shall not be used. In such a case, the basic AIR shall be given a classification equal to the highest classification of the equipment installed. The handling of the classified supplemental pages or a classified basic AIR shall be in accordance with current classification guides.

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- e. In cases where provisions for installation of classified equipment are incorporated in the aircraft and the classified equipment is not installed at that time, the equipment shall be shown in the basic record or supplemental pages, as applicable, and the appropriate shortage entries shall be made on OPNAV Form 4790/112.

4.6 Loose equipment. AIR items which cannot be placed on the aircraft for transfer shall be shipped separately marked as "AIR equipment for Aircraft Bureau Number (BUNO) _____." A note to indicate such shipments shall be made in column E of OPNAV Form 4790/111 for each affected item. Immediately upon receipt of notification of transfer, the transferring activity shall inventory all AIR equipment specifically assigned to the aircraft including all items which cannot be placed aboard the aircraft, and list such loose equipment on DD Form 1149, Requisition and Invoice/Shipping Document. The loose equipment shall be given to supply for appropriate shipment to the receiving activity. One copy of DD Form 1149 shall be attached to the AIR and one shall be retained by the shipping activity.

4.7 Shortages. Prior to delivery of aircraft, OPNAV 4790/112 shall be prepared listing all missing AIR equipment items. The original signed copy of this form shall be retained by the transferring activity as a permanent record of transfer. A second copy shall remain in the AIR and shall be sent to the accepting activity. A third copy shall be sent to the Aircraft Controlling Custodian (ACC) of the transferring activity. A fourth copy shall be sent to the cognizant Commander, Fleet Air (COMFAIR)/Commanding General, Marine Air Wing (CGMAW)/Functional Wing/Commanding General, Marine Brigade (CGMARBDE) of the transferring activity. In the case of an aircraft transfer between ACCs, the third copy shall be sent to the aircraft controlling custodian of the accepting activity, and the fourth copy shall be sent to the ACC's supporting COMFAIR/Functional Wing/CGMAW/CGMARBDE.

4.8 Disposal of records. Disposal of AIRs shall be in accordance with SECNAV Instruction 5212.5.

4.9 Intended use. The AIR is intended to reflect an accurate and concise list of equipment aboard an aircraft which is subject to periodic inventory and to provide an audit trail accountability for the equipment.

4.10 Changes and revisions. NAVAIR is the sole authority for changes and revisions of AIRs. Recommendations for changes or revisions shall be forwarded with justification via the appropriate chain of command. In addition, NAVAIR shall be responsible for development and maintenance of the MAIRs, promulgation of changes to AIRs, coordination of AIR changes with appropriate ACCs, Cognizant Field Activities (CFAs), and NAVAIR Program Managers (PMAs). NAVAIR will provide assistance to resolve supply support problems which cause long term AIR shortages.

4.10.1 Aircraft Controlling Custodian. ACCs are responsible for providing assistance to subordinate commands for maintenance of standard AIRs and ensuring that AIRs are in consonance with the appropriate MAIRs. ACCs review and process recommended changes to MAIRs and provide assistance to account for and transfer all equipment for a particular aircraft upon its transfer.

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4.10.2 Aircraft Cognizant Field Activity. The aircraft cognizant field activity is responsible for assisting in the maintenance of a standard AIR by T/M/S of aircraft and provides NAVAIR with recommended changes to the T/M/S of the aircraft and to the MAIR based on applicable Technical Directives (TDs) or other configuration changes.

4.11 Preparation for delivery. OPNAV 4790/109 shall be prepared following Section 5 of MIL-M-38784B.

4.11.1 Responsibility. The transferring activity is responsible for assuring that all equipment is listed in OPNAV 4790/111, that the equipment listed is on board the aircraft, listed as a shortage in OPNAV 4790/112, or is being shipped under separate cover. Those items which cannot be placed on board and are shipped under separate cover shall have a notation entered in OPNAV 4790/111 in the "Location or Remarks" column.

4.12 Workmanship. The AIR shall be permanent, clear, legible and capable of withstanding considerable handling during the service life of the aircraft without undue fading or discoloration. Therefore, "black and white" printing processes are preferable. Entries shall only be made on one side of the page.

4.13 Forms. A supply of printed AIR forms shall be furnished by the Government. Requests for copies of AIR forms shall be submitted on a DoD Single Line Item Requisition Document (DD Form 1348 or DD Form 1348M) in accordance with MILSTRIP (Military Standard Requisitioning and Issuing Procedures), Ordering Numbers, NAVSUP Publication 437 and NAVSUP Publication 2002.

The MILSTRIP Ordering Numbers for the individual AIR forms are as follows:

<u>OPNAV Form No.</u>	<u>Title</u>	<u>MILSTRIP No.</u>
4790/109	AIR Hard Cover	0107-LF-047-9555
4790/110	AIR	0107-LF-047-9560
4790/111	AIR Equipment List	0107-LF-047-9565
4790/112	AIR Shortages	0107-LF-047-9570
4790/104	AIR Certification and Record of Transfers	0107-LF-047-9527

These requests shall be submitted via the procuring activity or the Contracting Officer or addressed to the:

Commanding Officer (Code 105)
Naval Publications and Forms Center
5801 Tabor Avenue
Philadelphia, PA 19120-5099

5. DETAILED REQUIREMENTS.

5.1 Not applicable.

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6. NOTES

6.1 Intended use. This standard covers the preparation of the AIR for contractors for use in establishing inventories of equipment used on naval aircraft.

6.2 Data requirements list and cross reference. When this standard 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 DoD FAR Supplement, Part 27, Sup-Part 27.410-6 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 standard is cited in the following paragraphs.

<u>Paragraph No.</u>	<u>Data requirements title</u>	<u>Applicable DID No.</u>	<u>Options</u>
4.1	Aircraft Inventory Record	DI-ILSS-80379	---

(Data item descriptions related to this standard and identified in Section 6 will be approved and listed as such in DOD 5010.12-L, 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 Subject term (key word) listing.

Classified equipment
 Cognizant field activity
 Controlling custodian
 Equipment
 Forms
 Loose equipment
 Shortages

Preparing Activity
 Navy-AS
 (Project ILSS-N012)

INSTRUCTIONS: In a continuing effort to make our standardization documents better, the DoD provides this form for use in submitting comments and suggestions for improvements. All users of military standardization documents are invited to provide suggestions. This form may be detached, folded along the lines indicated, taped along the loose edge (*DO NOT STAPLE*), and mailed. In block 5, be as specific as possible about particular problem areas such as wording which required interpretation, was too rigid, restrictive, loose, ambiguous, or was incompatible, and give proposed wording changes which would alleviate the problems. Enter in block 6 any remarks not related to a specific paragraph of the document. If block 7 is filled out, an acknowledgement will be mailed to you within 30 days to let you know that your comments were received and are being considered.

NOTE: This form may not be used to request copies of documents, nor to request 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.

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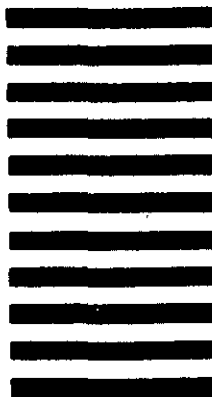


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STANDARDIZATION DOCUMENT IMPROVEMENT PROPOSAL*(See Instructions - Reverse Side)*

1. DOCUMENT NUMBER MIL-STD-2128(AS)		2. DOCUMENT TITLE AIRCRAFT INVENTORY RECORD	
3a. NAME OF SUBMITTING ORGANIZATION		4. TYPE OF ORGANIZATION (Mark one)	
b. ADDRESS (Street, City, State, ZIP Code)		<input type="checkbox"/> VENDOR	
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		<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	
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