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# MILITARY STANDARD

IDENTIFICATION MARKING OF  
U. S. MILITARY PROPERTY



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MIL-STD-130H

FOREWORD

1. This military standard is approved for use by all Departments and Agencies of the Department of Defense.

2. Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this document should be addressed to: HQ AFMC/ENC, Wright-Patterson Air Force Base, OH 45433-5000, by using the Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.

## MIL-STD-130H

## CONTENTS

<u>PARAGRAPH</u>		<u>PAGE</u>
1.	SCOPE . . . . .	1
1.1	Scope . . . . .	1
1.2	Application exclusions . . . . .	1
1.3	Application and tailoring . . . . .	1
2.	APPLICABLE DOCUMENTS . . . . .	2
2.1	Government documents . . . . .	2
2.1.1	Specifications, standards, and handbooks . . . . .	2
2.1.2	Other Government documents, drawings, and publications . . . . .	3
2.2	Order of precedence . . . . .	3
3.	DEFINITIONS . . . . .	4
3.1	Acquisition instrument identification number . . . . .	4
3.2	Altered, selected, or source control items . . . . .	4
3.3	Bar code . . . . .	4
3.4	Commercial and Government entity (CAGE) code . . . . .	4
3.5	Commercial item . . . . .	4
3.6	Configuration item (CI) . . . . .	4
3.7	Configuration item identification number (CII number) . . . . .	4
3.8	Controlled cryptographic items (CCI) . . . . .	4
3.9	Design activity . . . . .	4
3.9.1	Current design activity (CDA) . . . . .	4
3.9.2	Design activity identification . . . . .	4
3.9.3	Original design activity (ODA) . . . . .	4
3.10	Document . . . . .	4
3.11	Part or Identifying Number (PIN) . . . . .	4
3.12	Item . . . . .	5
3.13	Item identification . . . . .	5
3.14	Manufacturer . . . . .	5
3.15	Manufacturer's identification . . . . .	5
3.16	National stock number (NSN) . . . . .	5
3.17	NATO supply code for manufacturers (NSCM) . . . . .	5
3.18	Nomenclature . . . . .	5
3.19	Part, subassembly, assembly, unit, group, and set . . . . .	5
3.20	Registration number . . . . .	5
3.21	Repairable . . . . .	5
3.22	Sensitive electronic devices (SED) . . . . .	5
3.23	Serial number . . . . .	6
3.24	Special characteristics . . . . .	6
3.25	Specification data . . . . .	6
3.26	U.S. . . . .	6
3.27	U.S. military property . . . . .	6
3.28	Warranty . . . . .	6
4.	GENERAL REQUIREMENTS . . . . .	7
4.1	Methods of applying . . . . .	7
4.2	Location and size . . . . .	7
4.3	Permanency and legibility . . . . .	7
4.4	Identification tags . . . . .	7
4.5	Deleterious effect . . . . .	7
4.6	Altered or selected items . . . . .	7
4.7	Abbreviated information . . . . .	7
4.8	Unknown identification information . . . . .	7
4.9	Information not required . . . . .	12
4.10	Type of lettering . . . . .	12
4.11	Variable marking information . . . . .	12
4.12	Source control items . . . . .	12
4.13	U.S. marking to indicate Government ownership . . . . .	12
4.14	Vendor item control items . . . . .	12

## MIL-STD-130H

## CONTENTS

<u>PARAGRAPH</u>		<u>PAGE</u>
5.	DETAILED REQUIREMENTS . . . . .	13
5.1	Parts . . . . .	13
5.1.1	Marking information . . . . .	13
5.1.1.1	Marking when the manufacturer is the design activity . . . . .	13
5.1.1.2	Marking items acquired from manufacturers other than the design activity . . . . .	13
5.1.1.3	Marking in license-licensor agreement . . . . .	14
5.1.1.4	Marking items acquired from, but not manufactured by, the design activity . . . . .	14
5.2	Subassemblies and assemblies which do not require identification plates . . . . .	14
5.2.1	Marking information . . . . .	14
5.3	Unit, group, sets, and other items . . . . .	14
5.3.1	Marking information on units . . . . .	14
5.3.2	Marking information on groups and sets . . . . .	15
5.3.2.1	Airborne groups or sets and support equipment (SE) groups or sets . . . . .	15
5.3.2.2	Marking information on groups and sets other than airborne . . . . .	15
5.3.3	Marking information on other items of military property . . . . .	15
5.4	Items identified by military or industry association numbers . . . . .	15
5.5	Warranted items . . . . .	16
5.6	Security classification . . . . .	16
5.7	Sensitive electronic device (SED) items . . . . .	17
6.	NOTES . . . . .	18
6.1	Intended use . . . . .	18
6.2	Issue of DODISS . . . . .	18
6.3	Subject term (key word) listing . . . . .	18
6.4	Changes from previous issue . . . . .	18
 <u>FIGURES</u>		
1	Example of identification plate . . . . .	8
2	Example of bar code marking for identification plate . . . . .	9
3	Example of warranty markings . . . . .	16
4	Sensitive electronic device (SED) identification . . . . .	17
 <u>TABLES</u>		
I	Marking methods . . . . .	10
II	Criteria in selection of marking methods . . . . .	11

## MIL-STD-130H

## 1. SCOPE

1.1 Scope. This standard provides the item marking requirements and methods for identification of items of military property produced, stocked, stored, and issued by or for the Department of Defense.

1.2 Application exclusions. Military items covered by the following documents are excluded from the provisions of this standard unless otherwise specified in detail specifications, standards, or contracts.

## SPECIFICATIONS

## FEDERAL

DDD-L-20 - Label, For Clothing, Equipage and Tentage (General use).

## MILITARY

MIL-E-1 - Electron Tubes, General Specification for.  
 MIL-B-18 - Batteries, Non-Rechargeable, Dry.  
 MIL-B-10154 - Batteries, Primary, Water-Activated (Dunk-Type).  
 MIL-M-13231 - Marking of Electronic Items.  
 MIL-L-15040 - Label, Garment (Woven, Rayon).  
 MIL-N-18307 - Nomenclature and Identification for Aeronautical Systems Including Joint Electronics Type Designated Systems and Associated Support Systems.  
 MIL-S-19500 - Semiconductor Devices, General Specification For.  
 MIL-E-21981 - Electronics Equipment, Nomenclature, Serial Numbers and Identification Plates: Requirements for.  
 MIL-M-38510 - Microcircuits, General Specification for.  
 MIL-R-81128 - Rocket Motors, Identification of Parts and Assemblies, Requirements for.  
 MIL-P-83497 - Procedures for Preparation of Programmed Tapes and Cards.

## STANDARDS

## FEDERAL

FED-STD-182 - Continuous Identification Marking of Nickel and Nickel Base Alloys.  
 FED-STD-183 - Continuous Identification Marking of Iron and Steel Products.  
 FED-STD-184 - Identification Marking of Aluminum, Magnesium, and Titanium.  
 FED-STD-185 - Identification Marking of Copper and Copper Base Alloy Mill Products.

## MILITARY

MIL-STD-190 - Identification Marking of Rubber Products.  
 MIL-STD-709 - Ammunition Color Coding.  
 MIL-STD-1168 - Ammunition, Lot Numbering.  
 MIL-STD-1285 - Marking of Electrical and Electronics Parts.  
 MIL-STD-1473 - Standard General Requirements for Color and Marking of Army Materiel.  
 MIL-STD-1812 - Type Designation, Assignment and Method for Obtaining.

## INDUSTRY

ASTM B660 - Packaging/Packing of Aluminum and Magnesium Products, Standard Practices for.  
 ASTM B666 - Standard Practice for Identification Marking of Aluminum Products.

1.3 Application and tailoring. The acquiring activity should evaluate the requirements (sections, paragraphs, or sentences) in this standard to determine the extent to which each requirement can be tailored and be placed on contract in order to impose only the minimum essential needs of the Government.

## MIL-STD-130H

## 2. APPLICABLE DOCUMENTS

2.1 Government documents.

2.1.1 Specification, standards, and handbooks. The following specifications, standards, and handbooks form a part of this document to the extent specified herein. Unless otherwise specified, the issues of these documents are those listed in the issue of the Department of Defense Index of Specifications and Standards (DODISS) and supplement thereto, cited in the solicitation (see 6.2).

## SPECIFICATIONS

## FEDERAL

- A-A-208 - Ink, Marking, Stencil, Opaque (Porous and Nonporous Surfaces).
- TT-L-50 - Lacquer, Nitrocellulose, Acrylic and Acrylic Butyrate, Aerosol (In Pressurized Dispensers).

## MILITARY

- MIL-P-15024 - Plates, Tags and Bands for Identification of Equipment.
- MIL-T-31000 - Technical Data Packages, General Specification for.
- MIL-I-43553 - Ink, Marking, Epoxy Base.

## STANDARDS

## MILITARY

- MIL-STD-12 - Abbreviations for Use on Drawings, and in Specifications, Standards, and Technical Documents.
- MIL-STD-100 - Engineering Drawing Practices.
- MIL-STD-129 - Marking for Shipment and Storage.
- MIL-STD-280 - Definitions of Item Levels, Item Exchangeability, Models, and Related Terms.
- MIL-STD-961 - Military Specifications and Associated Documents, Preparation of.
- MIL-STD-973 - Configuration Management.
- MIL-STD-1189 - Standard Department of Defense Bar Code Symbolology.
- MIL-STD-1686 - Electrostatic Discharge Control Program for Protection of Electrical and Electronic Parts, Assemblies and Equipment (Excluding Electrically Initiated Explosive Devices) (Metric).

## HANDBOOK

## MILITARY

- MIL-HDBK-263 - Electrostatic Discharge Control Handbook for Protection of Electrical and Electronic Parts, Assemblies and Equipment (Excluding Electrically Initiated Explosive Devices) (Metric).

(Unless otherwise indicated, copies of federal and military specifications, standards, and handbooks are available from the Standardization Document Order Desk, Building 4D, 700 Robbins Avenue, Philadelphia, PA 19111-5094.)

## MIL-STD-130H

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. Unless otherwise specified, the issues are those cited in the solicitation.

DOD 5220.22-M	-	DOD Industrial Security Manual for Safeguarding Classified Information.
H4/H8	-	Cataloging Handbook.
H6	-	Federal Item Name Directory for Supply Cataloging.

(Application for copies of DOD 5220.22-M should be addressed to: Standardization Document Order Desk, Building 4D, 700 Robbins Avenue, Philadelphia, PA 19111-5094. Application for copies of Cataloging Handbook H4/H8 should be addressed to Commander, Defense Logistics Services Center, ATTN: DLSC-WP, Federal Center, Battle Creek, MI 49017-3084.)

2.2 Order of precedence. In the event of a conflict between the text of this document and the references cited herein, the text of this document takes precedence. Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

## MIL-STD-130H

## 3. DEFINITIONS

3.1 Acquisition instrument identification number. The Government acquiring activity's contract or purchase order number. When an order shows both a contract number and a purchase order number, the number shall be as specified by the acquiring activity.

3.2 Altered, selected, or source control items. Items depicted on altered item, selected item, or source control drawings in accordance with definitions and requirements contained in MIL-STD-100.

3.3 Bar code. An array of rectangular bars and spaces in a predetermined pattern (see MIL-STD-1189).

3.4 Commercial and Government entity (CAGE) code. A five-character code listed in Cataloging Handbook H4/H8 which is assigned to commercial and Government activities that manufacture or develop items, or provide services or supplies for the Government. When used with a drawing number or Part or Identifying Number (PIN), the CAGE code designates the design activity from whose series the drawing or PIN is assigned. The CAGE code was previously called manufacturer's code, code identification number, or Federal Supply Code for Manufacturers (FSCM) (see MIL-STD-100).

3.5 Commercial item. A product, material, component, sub-system, or system sold or traded to the general public in the course of normal business operations at prices based on established catalog or market prices (see MIL-T-31000). Also referred to as commercial off-the-shelf (COTS or OTS) products, or commercial products.

3.6 Configuration item (CI). A configuration item is an aggregation of hardware or software that satisfies an end use function and is designated by the by the Government for separate configuration management (see MIL-STD-973).

3.7 Configuration item identification number (CII number). The alpha-numeric number assigned to identify a configuration item. When assigned, it is the unchanging base number to which serial numbers are assigned (see MIL-STD-973, Purpose of Configuration Identification).

3.8 Controlled cryptographic items (CCI). Cryptographic items which have been declassified.

3.9 Design activity. A design activity is an activity having responsibility for the design of an item. The activity may be a Government, a commercial, or a nonprofit organization (see MIL-STD-100).

3.9.1 Current design activity (CDA). An activity (Government or contractor) currently having responsibility for the design of an item, and the preparation and maintenance of drawings and associated documents. Current design activity could be the original design activity or new activity when that responsibility is transferred from another Government or contractor design activity (see MIL-STD-100).

3.9.2 Design activity identification. The design activity's CAGE (see 3.4) or NSCM (see 3.17).

3.9.3 Original design activity (ODA). An activity (Government or contractor) having had the responsibility originally for the design of an item and whose drawing number and CAGE code is shown in the title block of drawings and associated documents (see MIL-STD-100).

3.10 Document. Document applies to the specifications, drawings, lists, standards, pamphlets, reports, and printed, typewritten or other information, relating to the design, procurement, manufacture, test, or acceptance inspection of items or services (see MIL-STD-100).

3.11 Part or Identifying Number (PIN). The identifier assigned by the responsible design activity or by the controlling nationally recognized standard which uniquely identifies (relative to that design activity) a specific item. The PIN generally includes the controlling drawing or document number and optional suffix. The PIN does not include the drawing revision identifier, drawing size, or CAGE code. The term "Part or Identifying Number" replaces the terms "part number" and "bulk material identification number" (see MIL-STD-961).



## MIL-STD-130H

NOTE: When the acquiring document cites a vendor item control drawing number for the item being acquired, the manufacturer's (vendor's) PIN, prefixed with the manufacturer's CAGE or NSCM, shall be used as the identifying number in lieu of the vendor item control drawing number when marking of items to this standard is required by the acquiring document.

When a PIN is assigned to an item of production, it shall be or shall include the design activity drawing number and shall be used as a part of the identifying number. The identifying number for parts, subassemblies or assemblies, units, groups, and sets shall contain the design activity CAGE or NSCM as a prefix (see Cataloging Handbook H4/H8).

3.12 Item. A non-specific term used to denote any unit or product including materials, parts, assemblies, equipment, accessories, and computer software (see MIL-STD-100).

3.13 Item identification. The combination of the PIN and the original design activity CAGE code. (NOTE: Not applicable to specification controlled items.)

3.14 Manufacturer. An individual, company, corporation, firm, or Government activity who:

- a. Controls the production of an item, or
- b. produces an item from crude or fabricated materials, or
- c. assembles materials or components, with or without modification, into more complex items (see MIL-STD-100).

3.15 Manufacturer's identification. The actual manufacturer's name, CAGE (see 3.4) or NSCM (see 3.17) that identifies the place of manufacture.

3.16 National stock number (NSN). A number assigned to each item of supply, that is purchased, stocked, or distributed within the Federal Government (see MIL-STD-100).

3.17 NATO supply code for manufacturers (NSCM). The five-position alpha numeric code that is assigned to an organizational entity, located in a country other than the United States or Canada, that maintains design control or is a source of supply for items acquired by agencies of the Federal Government, NATO member nations, and other participating friendly Governments (see Cataloging Handbook H4/H8).

3.18 Nomenclature. The combination of approved item name and military type designation, as assigned by the DoDCP (see MIL-STD-1812).

3.19 Part, subassembly, assembly, unit, group, and set. The definitions shall be in accordance with MIL-STD-280.

3.20 Registration number. The number assigned by the Government to an individual unit of a group of items. The number registers Government ownership, responsibility, and accountability (e.g., vehicle registration numbers).

3.21 Repairable. Having the capability of being repaired (see MIL-STD-100).

3.22 Sensitive electronic devices (SED). Electronic parts having highly sensitive characteristics (e.g., thin-layered internal composition) and delicate, miniaturized construction which are susceptible to damage or degradation, in various degrees, from environmental field forces (electrostatic, electromagnetic, magnetic, or radioactive) as well as more mundane sources such as corrosion, shock, vibration, foreign particle intrusion, biological contamination, thermal stress, and thermal shock. This susceptibility also extends to the standard electronic modules, printed circuit boards, printed wiring boards, and circuit card assemblies containing one or more of these sensitive electronic parts.

3.23 Serial number. The unique notation which identifies a single unit of a family of like units, normally assigned sequentially (see MIL-STD-973). The identifier "SERNO" may be used to avoid confusion with other identifiers and when marking space allows.

MIL-STD-130H

3.24 Special characteristics. The pertinent rating, operating characteristics, and other information necessary for identification of the item.

3.25 Specification data. Information such as specification number, type, grade, class, or other identifying data.

3.26 U.S. The abbreviation used on items (e.g., vehicles and industrial production equipment) to denote Government ownership, and to comply with public law or other Government regulations.

3.27 U.S. military property. Government owned property within the jurisdiction of the DOD.

3.28 Vendor item control item. Items depicted on vendor item control item drawings in accordance with definitions and requirements contained in MIL-STD-100.

3.29 Warranty. A warranty is the contractual agreement between the Government and the contractor relative to the nature, usefulness, or condition of the item(s) furnished under the contract. Warranty duration is expressed in terms of hours, days, months, number of operations, etc. Warranty markings give notice to a user whether the item(s) is subject to the warrant provisions.

## MIL-STD-130H

## 4. GENERAL REQUIREMENTS

4.1 Methods of applying. The required marking shall be applied to an identification plate (see figure 1) securely fastened to the item or shall be applied directly to the surface of the item and shall be compatible with the requirements of 4.2, 4.3, and 4.5. The design activity shall specify the actual method(s) to be used in applying markings. Recommended marking methods are shown in tables I and II.

- a. Marking materials creating hazardous conditions shall not be used.
- b. When items cannot be physically marked or tagged because of lack of marking space (or because marking or tagging would have a deleterious effect), the detailed marking requirements specified in section 5 herein shall be marked on the unit container in addition to, or in combination with, the identification marking information specified in MIL-STD-129. Duplicate information such as NSN shall be marked only once on the container. When combining marking requirements with MIL-STD-129, the manner, method, form, and format of MIL-STD-129 shall be followed providing the informational requirements of this standard are fulfilled.
- c. Any item, except those specified in section 5 herein, which is serialized, repairable, a CCI item, unique, or having a high dollar value as defined by the acquiring activity shall have the following information bar coded:
  - (1) Serial number, if applicable.
  - (2) NSN. NOTE: If the NSN is not available, the manufacturer's PIN or item identification shall be bar coded (see figure 1).
  - (3) Applicable CAGE code(s).

4.2 Location and size. Whenever practicable, the marking of the item shall be located in such a manner as to allow its being visible during normal operational use. Marking size shall satisfy the legibility requirements of 4.3. The location and size of the marking shall be specified directly or by reference on the document delineating the item to be marked.

4.3 Permanency and legibility. The identification marking and identification plates, tags, or labels when used on equipment, assemblies, subassemblies, units, sets, or groups shall be as permanent as the normal life expectancy of the item and be capable of withstanding the environmental tests and cleaning procedures specified for the item. Legibility shall be as required for ready readability. Identification marking on identification plates shall be of a color which is in contrast to the color of the surface of the plate. Identification tag marking, when used, shall be permanent to the extent required for utilization of the item.

4.4 Identification tags. Metal and stiff plastic identification tags, along with their provisions for being attached, shall have all burrs and sharp edges removed (see MIL-STD-15024).

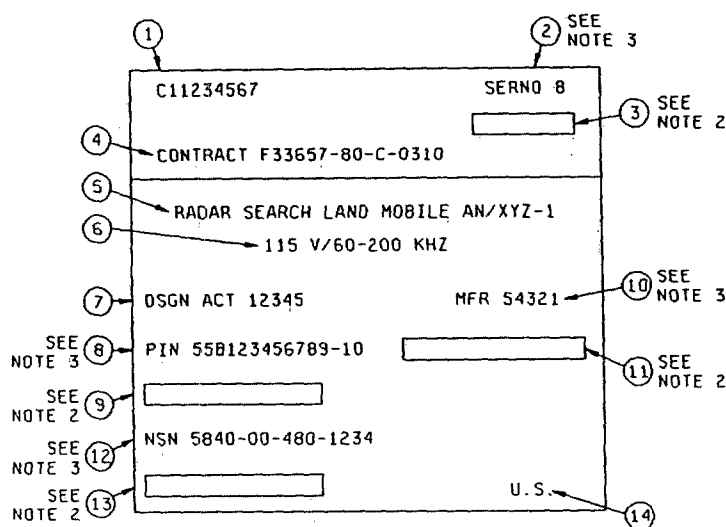
4.5 Deleterious effect. Marking of items shall be accomplished in a manner which will not adversely affect the life and utility of the item.

4.6 Altered or selected items (see 3.2). When an item is altered or selected, the identification number assigned by the activity specifying the alteration or selection shall be used to identify the item. The original number being replaced shall be removed or obliterated, if this can be done without damage to the item.

4.7 Abbreviated information. When bar code marking requirements are specified in the contract or order, they will be in accordance with 4.1c. When size limitations, cost, or other considerations preclude marking all applicable information on an item (i.e., some marking space does exist and the conditions of 4.1b are not met), only the most essential information as specified or approved by the acquiring activity shall be included.

4.8 Unknown identification information. Where identification information is unknown to a manufacturer at the time of fabrication, space shall be left for subsequent placement of this information.

## MIL-STD-130H



- |   |   |
|---|---|
| 1 Configuration item identification             | 9 Bar coded PIN when NSN not available (see figure 2) |
| 2 Serial number                                 |   |
| 3 Bar coded serial number (see figure 2)        | 10 Manufacturer identification (CAGE or NSCM)         |
| 4 Acquisition instrument identification number  | 11 Bar coded manufacturer CAGE or NSCM (see figure 2) |
| 5 Nomenclature (item name and type designation) |   |
| 6 Special characteristics (see 3.24)            | 12 NSN  |
| 7 Design activity (CAGE or NSCM)                | 13 Bar coded NSN (see figure 2)                       |
| 8 Part or Identifying Number (PIN)              | 14 Government ownership designation                   |

## NOTES:

1. This example is given only as a guide and should not be considered a mandatory format.
2. Bar code density will be 6.5 to 9.4 characters per inch, height shall be .125 inch minimum.
3. Items 2, 8, 10, and 12 shall be used for Human Readable Interpretation (HRI) purposes for the associated bar code.
4. Additional information as applicable may be integrated into the identification plate or may be applied adjacent to the major portion, whichever is most suitable.
5. Permanent information including bar coding may be included on a plate separate from variable information plate.

FIGURE 1. Example of identification plate.

MIL-STD-130H

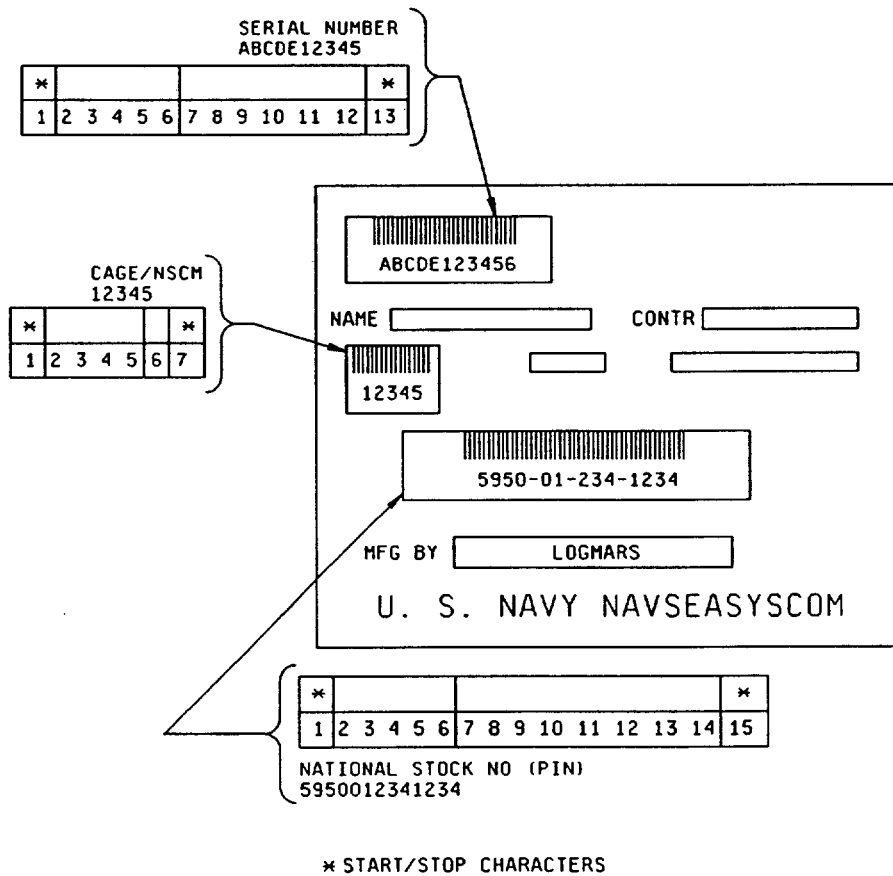


FIGURE 2. Example of bar code marking for identification plate.

## MIL-STD-130H

TABLE I. Marking methods. <sup>1/</sup>

(This table is given only as a guide and these methods are not mandatory.)

Marking methods	Depth of marking	Recommended use
Metal stamp	Variable, dependent on material	Metal or nonmetal parts that will not deform under the stamping pressure required. Also, the alteration of the surface roughness finish will be detrimental to proper functioning.
Engraving		Sheet metal fabrication that will deform if metal stamped. Functional markings with colored filler.
Electrical arc pencil		Sheet metal fabrication that will deform if metal stamped, irregular surface.
Embossing		Thin sheet metal, plastics on nonfunctional surfaces.
Cast or forged		Castings or forgings - characters raised or depressed depending on method of manufacture, unless otherwise specified on the drawing. Marking should be used on nonmachined surfaces only.
Molded		Usually plastic or rubber parts, may be either raised or depressed, unless otherwise specified.
Electro-chemical etch (electrolytic process)		Characters normally depressed, but may be raised. Used on fine surface finishes without protective coating, also high hardness parts (RC 50 or higher).
Rubber stamp stencil		Fabrics, wood, plastics. On metal parts with protective finish (i.e., phosphate) cover with clear lacquer in accordance with TT-L-50, apply before oiling. Also temporary marking; work in progress.
Decalcomania		Instructional plates, part identification, when other methods are not available, temporary marking, protect with clear lacquer, in accordance with TT-L-50. Apply before oiling.
Metal or plastic tags		When other methods are not available.
Laser engraving	Variable, dependent on material <sup>2/</sup>	Very good resolution of alpha numerics and bar code symbology. Character height and width range from .007 to 4.0 inches.

<sup>1/</sup> For bar code application, see MIL-STD-1189.<sup>2/</sup> Marking can be controlled by energy input so as to mark a .002 inch (50 microns) plating without penetration to the base metal or to make .003 to .005 inch (76 to 127 microns) deep marks on polymers.

## MIL-STD-130H

TABLE II. Criteria in selection of marking methods.

(This table is given only as a guide and these criteria shall not be considered mandatory.)

Protective finish	Surface roughness in inches (metric)	Marking method	Remarks
No protective finish or a coating of light oil applied after marking.	125 microinches (3.2 microns) or coarser	Cast, forged, molded	Specify "raised" or "depressed" only when necessary; used on nonmachined surfaces.
		Metal stamp	On machined surfaces.
	125 to 63 microinches (3.2 to 1.6 microns)	Molded, engraved metal stamp, electric arc pencil	Remove raised metal or burrs by light sanding, if necessary, for satisfactory functioning.
	63 microinches (1.6 microns) or finer	Electro-chemical etch (electrolytic process)	Specify "depressed", when marking a functional surface.
Phosphate, dry film, anodize, or plating	125 microinches (3.2 microns) or coarser	Cast, forged, molded, metal stamped	As above, plus mark prior to application of finish.
		Laser engraved	As above; may be marked after anodizing or plating.
	125 to 63 microinches (3.2 to 1.6 microns)	Molded, engraved metal, stamp, electric arc pencil	As above, plus mark prior to application of finish.
		Laser engrave	On ground or sanded surfaces after anodize or plating.
	63 microinches (1.6 microns) or finer	Decalcomania	Apply over protective coating before oiling, cover with clear lacquer in accordance with IT-L-50 or equivalent.
		Laser engrave	Specify depth of penetration, especially on plated surfaces.
	All surfaces	Rubber stamp stencil	Apply over protective finish before oiling. Use ink in accordance with A-A-208, type I, or an equivalent type, cover with clear lacquer in accordance with IT-L-50 on nonporous surfaces.
Paint	All surfaces	Rubber stamp, stencil, decalcomania	As above.
	125 microinches (3.2 microns) or coarser		Painted, machined surfaces.
	125 to 63 microinches (3.2 to 1.6 microns)		Painted, ground, or sanded surfaces.
	63 microinches (1.6 microns) or finer		Do not penetrate dry film thickness.
Epoxy or urethane coating	All surfaces	Rubber stamp, stencil, marking machine, decalcomania, hand brush	For marking of printed wiring boards and assemblies. Epoxy base fungus resistant, nonconducting ink in accordance with MIL-I-43553 may be used.

## MIL-STD-130H

4.9 Information not required. Special characteristics may be omitted from the identification plate, if the pertinent information is on a manufacturer's data plate on the item, provided the manufacturer's plate meets the permanency and legibility requirements of this standard.

4.10 Type of lettering. Letters shall be without serifs (sans-serifs) such as Gothic or Futura capitals, and the numerals shall be Arabic except when Roman numerals are used for type designation in military specifications and standards. Characters generated by automation techniques (e.g., interactive graphics systems or stencils) shall be permitted.

4.11 Variable marking information. When applicable (i.e., required by detail specification or in the acquisition document), the following information shall be marked on the item in addition to the detail requirements in section 5 herein (see note 1):

- a. Specification data (see 3.25).
- b. Date of acceptance.
- c. Date of manufacture.
- d. Registration number (see 3.20).
- e. Weight and volume.
- f. Lot number.
- g. Technical manual number.
- h. Matched set identification.
- i. Additional data identified by contract.

4.12 Source control items. When marking source control items, they shall be marked with the design activity CAGE or NSCM, the source control notation (SOCN), and the source control PIN; (example: 12345 SOCN 80678932). When specified by the acquiring activity, the item manufacturer shall be identified as described in 5.1.1.2. The vendor's identification and identifying number need not be removed.

4.13 U.S. marking to indicate Government ownership. The designation "U.S." shall be marked only when specified in section 5 of this standard, in the detail (commodity) specification, or in the acquisition document.

4.14 Vendor item control items. When marking vendor item control items, they shall be marked with the manufacturer's (vendor's) PIN preceded by the manufacturer's CAGE or NSCM number. The vendor item control drawing number shall not be used to physically re-identify the item from the original design activity PIN. In the event that a vendor item control item is a commercial OTS (see 3.5) item, refer to 5.1.1a.

## NOTES:

1. Bar coding of the contract number, the PIN (in addition to the NSN), or other pertinent data as specified in the acquisition document.
2. Vendor item control items were formerly called specification control items and the vendor item control drawing was formerly known as a specification control drawing.



## 5. DETAILED REQUIREMENTS

### 5.1 Parts.

- a. Commercial OTS (see 3.5) items marked with commercial identification (firm name, logo, PIN, etc.), and which present no identification difficulty may be exempt from additional marking requirements unless otherwise specified by contract or order. This exemption extends to commercial OTS items identified on vendor item control drawings (VICD).
- b. Parts within an assembly or a subassembly which are not subject to removal, replacement, or repair.
- c. When parts are deemed too small for application of complete marking in accordance with 5.1.1. A logo shall be substituted for the CAGE.

a. When the manufacturer is the original design activity.

69806 - 1234567-101 or 69806/1234567-101

| |  
| \_\_\_\_\_ Original Design Activity PIN  
  
Original Design Activity CAGE or NSCM

b. When the manufacturer is the current design activity but is not the original design activity.

69806 - 1234567-101 - Original Design Activity Item Identification  
CDA - 07873  
|  
Current Design Activity CAGE or NSCM

5.1.1.2 Marking items acquired from manufacturers other than the design activity. The notation (MFR), followed by the manufacturer's CAGE or NSCM, shall be marked below the design activity's item identification (or near it if space does not permit). The markings shall be arranged as follows:

a. When the design activity is the original design activity.

69806 - 1234567-101 - Original Design Activity Item Identification  
MFR - 20001  
 |  
 Manufacturer's CAGE or NSCM

b. When the design activity is not the original design activity.

69806 - 1234567-101 - Original Design Activity Item Identification.  
CDA - 07873 - Current Design Activity CAGE or NSCM  
MFR - 20001  
Manufacturer's CAGE or NSCM

## MIL-STD-130H

ALTERNATE METHOD

69806 - 1234567-101 - Original Design Activity Item Identification  
 CDA - 07873 MFR - 20001  
     |                    |  
     |                    | Manufacturer's CAGE or NSCM  
     |                    |  
     |                    | Current Design Activity CAGE or NSCM

5.1.1.3 Marking in license-lenssor agreement. In license-lenssor agreement, the requirements of 5.1.1.2 shall apply to the licensee when manufacturing parts in accordance with the lensor's design.

5.1.1.4 Marking items acquired from, but not manufactured by, the design activity. When the design activity uses subcontractors for the manufacture of an item, but retains full design control, quality assurance control, and full responsibility to the acquiring activity for the delivered product, the requirements of 5.1.1.1 apply. If design control, quality control, or delivered product warranty responsibility is delegated to such subcontractor, the requirements of 5.1.1.2 apply.

5.2 Subassemblies and assemblies which do not require identification plates.

5.2.1 Marking information. Bar coding is not applicable unless otherwise required in the contract or order. Subassemblies and assemblies shall be individually marked with the information specified in 5.1.1.1 and 5.1.1.2 except that the notation "ASSY," shall be used in place of a dash (or slant) as follows:

69807ASSY7654321-101 - Design activity (CAGE or NSCM, ASSY, and identifying PIN)

When subassemblies and assemblies cannot be physically marked as specified, the information shall be marked on an identification tag and attached securely to the uninstalled subassemblies or assemblies furnished as spares.

5.3 Unit, group, sets, and other items. An item of military property consisting of one piece, or two or more pieces joined together which are not normally subject to disassembly without destruction of the designed use or which are not normally disassembled (e.g., electric clock motor), shall be marked as a part (see 5.1). Manufacturer's identification (CAGE), serial number, and NSN shall be bar coded when specified in the contract or order (see figure 1).

5.3.1 Marking information on units. The following information shall be marked on units:

- a. Nomenclature (see 3.18).
- b. Design activity CAGE or NSCM and PIN (see 3.9 and 3.11).
- c. Manufacturer's identification (see 3.15). Use only if different from the design activity CAGE or NSCM.
- d. Acquisition instrument identification number (see 3.1).
- e. Serial number (see 3.23).
- f. \* U.S. (see 3.26 and 4.13).
- g. \* Special characteristics (see 3.24).
- h. \* NSN (see 3.16).
- i. \* Configuration item identification (see 3.7).

NOTE: Asterisk denotes when specified in the acquisition document.

## MIL-STD-130H

5.3.2 Marking information on groups and sets.

5.3.2.1 Airborne groups or sets and support equipment (SE) groups or sets. Airborne groups or sets and support equipment (SE) groups or sets consisting of two or more units do not require a group or set identification plate, unless specifically required by the acquiring activity. Airborne sets and SE groups or sets consisting of one or more units shall be marked with the information required in 5.3.1.

5.3.2.2 Marking information on groups and sets other than airborne. The following information shall be marked on groups and sets other than airborne:

- a. Nomenclature (see 3.18).
- b. Design activity CAGE or NSCM and PIN (see 3.9 and 3.11).
- c. Manufacturer's identification (see 3.15). NOTE: Use only if different from the design activity CAGE or NSCM.
- d. Acquisition instrument identification number (see 3.1).
- e. Serial number (when the set is assigned a serial number separate from that of the units) (see 3.23).
- f. \* U.S. (see 3.26 and 4.13).
- g. \* Special characteristics (see 3.24).
- h. \* NSN (see 3.16).
- i. \* Configuration item identification (see 3.7).

NOTE: Asterisk denotes when specified in the acquisition document.

5.3.3 Marking information on other items of military property. The following information shall be marked on other items of military property. This covers items not previously defined:

- a. Design activity CAGE or NSCM and PIN (see 3.9 and 3.11).
- b. Manufacturer's identification (see 3.15).
- c. Acquisition instrument identifier (see 3.1).
- d. \* Nomenclature (see 3.18).
- e. \* Special characteristics (see 3.24).
- f. \* NSN (see 3.16).
- g. \* Serial number (see 3.23).
- h. \* U.S. (see 3.26 and 4.13).

NOTE: Asterisk denotes when specified in the acquisition document.

5.4 Items identified by military or industry association numbers. Items identified by numbers derived from military specifications, military standards, or industry association standards (e.g., MS, NAS) shall be marked with the military or industry association PIN (without the design activity CAGE or NSCM), and the actual manufacturer's identification prefixed by "MFR" separate from the PIN (e.g., separate line). Otherwise, these items shall be marked as specified in 5.1, 5.2, or 5.3.

## MIL-STD-130H

5.5 Warranted items. When specifically required by a contract statement of work or other contract clause, warranted items shall be marked in a conspicuous location to give notice that the item(s) are subject to warranty. The marking shall contain, as a minimum, the statement "WARRANTED ITEM" and the period or conditions of warranty (i.e., hours of operation, cycles of operation, time since manufactured, etc.) (see figure 3).

<p style="text-align: center;"><b>WARRANTED ITEM</b></p> <p style="text-align: center;">THIS ITEM IS UNDER WARRANTY UNTIL _____ ① _____</p>
---

SEE NOTE

<p style="text-align: center;"><b>WARRANTED ITEM</b></p> <p style="text-align: center;">THIS ITEM IS UNDER WARRANTY UNTIL _____ ② _____ HAS BEEN COMPLETED.</p>
---

SEE NOTE

- 1 Indicate expiration date.
- 2 Indicate condition of use (i.e., hours of operation, time since manufacture).

NOTE: These examples are provided as a guide only and should not be considered mandatory.

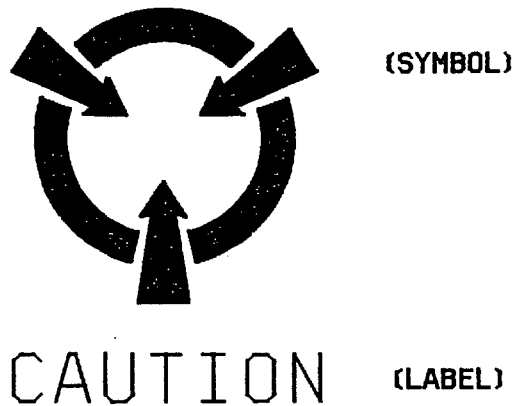
FIGURE 3. Example of warranty markings.

5.6 Security classification. When required by the acquisition document, classified items shall be marked in a conspicuous manner to provide notice that the item(s) are subject to security restrictions. Classified marking shall be in accordance with DOD 5220.22-M.

## MIL-STD-130H

5.7 Sensitive electronic device (SED) items.

- a. Electrical and electronic parts classified as sensitive to damage from electrostatic discharge in accordance with MIL-STD-1686 and MIL-HDBK-263 shall be marked with the SED symbol (see figure 4).
- b. Assemblies containing SED parts shall be marked with the SED symbol. This symbol shall be so located as to be readily visible when the assembly is installed in its next higher assembly, if applicable. When the physical size of the assembly precludes direct marking of the SED symbol, the symbol shall be marked on an identification tag which shall be securely attached to the assembly. The SED unit pack shall be marked as specified in MIL-STD-129.
- c. Equipment enclosures containing SED parts or assemblies shall be marked with the SED symbol and a SED label as shown on figure 4. The symbol and caution note shall be located in such a position as to be readily visible to personnel prior to gaining access to the SED parts or assemblies. Where space permits, these markings shall be on the access door or cover of the equipment enclosure.



NOTE: This equipment contains parts and assemblies subject to damage by environmental field forces. Do not ship or store near strong electrostatic, electromagnetic, magnetic, or radioactive fields.

FIGURE 4. Sensitive electronic device (SED) identification.

## MIL-STD-130H

## 6. NOTES

(This section contains information of a general or explanatory nature that may be helpful, but is not mandatory.)

6.1 Intended use. This standard provides the item marking requirements and methods for identification of items of military property produced, stocked, stored, and issued by or for the Department of Defense. This document is to be tailored by the acquiring activity.

6.2 Issue of DODISS. When this standard is used in acquisition, the applicable issue of the DODISS must be cited in the solicitation (see 2.1.1 and 2.2).

6.3 Subject term (key word) listing.

Bar code  
CAGE code  
Control item  
Controlled cryptographic item  
Design activity  
Identification plate  
Legibility  
National Stock Number (NSN)  
NSCM code  
Permanency  
Security  
Sensitive electronic device (SED)  
Serial Number

6.4 Changes from previous issue. Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extensiveness of the changes.

## CONCLUDING MATERIAL

## Custodians:

Army - AR  
Navy - AS  
Air Force - 16  
DLA - DH

## Preparing activity:

Air Force - 16

## Agent:

DLA - ES

## Review activities:

Army - AT, AV, CR, EA, ER, ME, MI, SM  
Navy - MC, OS, SH, TD, YD  
Air Force - 11, 14, 15, 85  
DLA - CS, DP, ES, GS, IP, IS

(Project GDRQ-0125)

# STANDARDIZATION DOCUMENT IMPROVEMENT PROPOSAL

## INSTRUCTIONS

1. The preparing activity must complete blocks 1, 2, 3, and 8. In block 1, both the document number and revision letter should be given.
2. The submitter of this form must complete blocks 4, 5, 6, and 7.
3. The preparing activity must provide a reply within 30 days from receipt of the form.

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

### I RECOMMEND A CHANGE:

1. DOCUMENT NUMBER  
MIL-STD-130H

2. DOCUMENT DATE (YYMMDD)  
931201

### 3. DOCUMENT TITLE

Identification Marking of U.S. Military Property

### 4. NATURE OF CHANGE (Identify paragraph number and include proposed rewrite, if possible. Attach extra sheets as needed.)

### 5. REASON FOR RECOMMENDATION

### 6. SUBMITTER

a. NAME (Last, First, Middle Initial)

b. ORGANIZATION

c. ADDRESS (Include Zip Code)

d. TELEPHONE (Include Area Code)  
(1) Commercial  
(2) AUTOVON  
(if applicable)

7. DATE SUBMITTED  
(YYMMDD)

### 8. PREPARING ACTIVITY

a. NAME  
HQ AFMC/ENC  
ATTN: Tom Stewart

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(1) Commercial (513) 257-5579  
(2) AUTOVON 787-5579

c. ADDRESS (Include Zip Code)  
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Dayton OH 45431-1672

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