

MIL-STD-1473A(MI)
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MILITARY STANDARD

STANDARD GENERAL REQUIREMENTS FOR
COLOR AND MARKING OF ARMY MATERIEL



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DEPARTMENT OF DEFENSE
Washington, DC 20301

Standard General Requirements for Color and Marking of Army Materiel

MIL-STD-1473A(MI)

1. This Military Standard is approved for use by the US Army Missile Command, Department of the Army, and is available for use by all Departments and Agencies of the Department of Defense.

2. Recommended corrections, additions, or deletions should be addressed to: Commander, US Army Missile Command, ATTN: AMSMI-RCS, Redstone Arsenal, Alabama 35809.

MIL-STD-1473A(MI)

10 February 1976

FOREWORD

This standard establishes general requirements for color and marking of Army materiel. Its purpose is to consolidate into a single document color and marking requirements contained in numerous specifications and standards for different classes of materiel. Consequently, this standard establishes general requirements and serves as a convenient index to commodity and functional requirements for color and marking of Army materiel.

Several of the publications referenced in this standard are (or will be) undergoing revision to reflect the transition from Olive Drab to Lusterless Forest Green. In the event of conflict between this standard and regulatory publications (AR's, etc.), the procuring activity should be consulted.

MIL-STD-1473A(MI)
10 February 1976

CONTENTS

Paragraph		<u>Page</u>
1.	SCOPE-----	1
1.2	Scope and Purpose-----	1
1.3	Application-----	1
2.	REFERENCED DOCUMENTS-----	1
3.	DEFINITIONS-----	5
4.	GENERAL REQUIREMENTS-----	5
4.1	Colors-----	5
4.1.1	Numerical Designation-----	5
4.1.2	Control and Display-----	5
4.1.3	Off-The-Shelf Equipment-----	5
4.2	Marking-----	6
4.2.1	Identification General-----	6
4.2.2	Shipment and Storage-----	6
4.2.3	Controls and Displays-----	6
4.2.4	Labeling, Lettering, and Numeral Design--	6
4.3	Supplementary Data and Color/Marking for Specific Items-----	6
5.	DETAIL REQUIREMENTS-----	6
5.1	Vehicles, Construction Equipment, and Materials Handling Equipment-----	6
5.1.1	Color-----	6
5.1.2	Marking-----	6
5.1.2.1	Administrative Wheeled Vehicles-----	6
5.1.2.2	Combat and Tactical Vehicles-----	6
5.1.2.3	Construction Equipment and Material Handling Equipment-----	10
5.1.2.4	Other-----	10
5.2	Vessels-----	10
5.2.1	Color-----	10
5.2.2	Marking-----	10
5.3	Railroad Equipment-----	10
5.3.1	Color-----	10
5.3.2	Marking-----	10
5.3.2.1	Agency Identification-----	10
5.3.2.2	Identification Numbers-----	10
5.3.2.2.1	Location-----	10
5.3.2.2.2	Prefix-----	11
5.3.2.2.3	Color-----	11

MIL-STD-1473A(MI)
10 February 1976

		<u>Page</u>
Paragraph 5.3.2.3	Other Marking-----	11
5.3.2.3.1	Capacities, Limits, Weights, Insignia, Classifications, Etc.-----	11
5.3.2.3.1.1	Railway Motive Power and Work Equipment--	11
5.3.2.3.1.2	Rolling Stock-----	11
5.3.2.3.1.3	Cars for Passenger Service-----	11
5.3.2.3.2	Safety-----	11
5.3.2.3.3	Piping-----	11
5.3.2.4	Army Medical Department-----	11
5.3.2.4.1	Color-----	11
5.3.2.4.2	Identification-----	12
5.3.2.4.3	Red Corss Insignia-----	12
5.3.2.4.4	Insignia-----	12
5.4	Towed Artillery, Multiple Rocket Launchers, Missiles, Rockets, and Related Ground Support Equipment for Missile Systems-----	12
5.4.1	Towed Artillery and Multiple Rocket Launchers-----	12
5.4.1.1	Color-----	12
5.4.1.2	Marking-----	12
5.4.2	Guided Missiles-----	12
5.4.2.1	Color-----	12
5.4.2.2	Marking-----	13
5.4.3	Ground Support Equipment-----	13
5.4.3.1	Color-----	13
5.4.3.1.1	Exteriors-----	13
5.4.3.1.2	Interiors-----	13
5.4.3.2	Marking-----	13
5.4.4	Other Items-----	13
5.4.4.1	Liquid Propellant Containers-----	13
5.4.4.2	Pipe, Hose, and Tube Lines-----	15
5.4.4.3	Training Aids-----	15
5.4.4.4	Other-----	15
5.5	Electrical and Electronic Equipment and Items-----	15
5.5.1	Communications-Electronic Shelters-----	15
5.5.1.1	Color-----	15
5.5.1.1.1	Exteriors-----	15
5.5.1.1.2	Interiors-----	15
5.5.1.2	Marking-----	15
5.5.2	Cables-----	15
5.5.2.1	Electrical Cable and Cord-----	15
5.5.2.2	Cables for Transmission of Telephone, Telegraph, and Teletype Signals-----	15
5.5.2.3	Vehicular Use-----	16
5.5.2.4	Thermocouples-----	16
5.5.3	Electronic Items-----	16

MIL-STD-1473A(MI)
10 February 1976

		<u>Page</u>
Paragraph	5.5.4	Electronic Parts----- 16
	5.5.5	Resistors----- 16
	5.5.6	Warning Marking----- 16
	5.5.6.1	Electronic Equipment----- 16
	5.5.6.2	Radio Frequency Hazard----- 16
	5.5.6.3	Laser Hazard----- 16
	5.5.6.4	Safety----- 16
	5.5.7	Test Equipment----- 16
	5.5.7.1	Bench Use----- 16
	5.5.7.2	Field Equipment----- 16
	5.5.7.3	Flight Line Equipment----- 16
	5.5.8	Hookup Wire----- 16
	5.5.9	Connections----- 16
	5.5.10	Reference Designation----- 17
	5.5.11	Communication Equipment----- 17
	5.6	Aircraft----- 17
	5.6.1	General----- 17
	5.6.2	Aircrew Station----- 17
	5.6.2.1	Displays----- 17
	5.6.2.2	Instrument and Range Markings----- 17
	5.6.2.3	Cockpit Area Equipment----- 17
	5.6.2.4	Emergency Equipment----- 17
	5.6.3	Avionics Equipment----- 17
	5.6.3.1	Externally Mounted Equipment----- 17
	5.6.3.2	Internal Equipment----- 17
	5.6.4	Hose, Pipe and Tube Lines----- 18
	5.6.5	Elastomeric Items----- 18
	5.7	Ammunition, Chemical, and Radiological Items----- 18
	5.7.1	Ammunition----- 18
	5.7.2	Chemical Warfare Equipment----- 18
	5.7.3	Contaminated Areas----- 18
	5.7.4	Gas Mask Canisters----- 18
	5.7.5	Nuclear Reactor Systems----- 18
	5.7.6	Radioactive Material----- 18
	5.8	Other Items----- 18
	5.8.1	Antenna Radomes----- 18
	5.8.2	Antenna Towers----- 19
	5.8.3	Armed Forces Radio and Television Network Equipment----- 19
	5.8.4	Automatic Data Processing Equipment----- 19
	5.8.5	Bridging Equipment----- 19
	5.8.6	Cast Surfaces----- 19
	5.8.7	Fire Control Materiel----- 19
	5.8.8	Ground Controlled Approach (GCA) Radar Equipment----- 19
	5.8.9	Machine Tools----- 19
	5.8.10	Meteorological Equipment----- 20

MIL-STD-1473A(MI)
10 February 1976

		<u>Page</u>
Paragraph	5.8.11 Nylon Webbing-----	20
	5.8.12 Petroleum and Related Products-----	20
	5.8.13 Photographic and Audio-Visual Equipment-----	20
	5.8.14 Pipelines and Compressed Gas Cylinders-----	20
	5.8.15 Rubber Products-----	20
	5.8.16 Reusable Shipping Transporters-----	20
	5.8.17 Small Arms-----	20
	5.8.18 Training Devices-----	20
	5.8.19 Amphibious Craft-----	21
	5.9. Safety Color and Marking Signs-----	21
	5.9.1 Safety Color Markings-----	21
	5.9.2 Safety Sign Color and Markings-----	21
	5.9.2.1 Danger Signs-----	21
	5.9.2.2 Caution Signs-----	21
	5.9.2.3 Safety Instruction Signs-----	21
	5.9.2.4 Directional Signs-----	21
	Index-----	31

FIGURES

Figures	1. Danger Signs-----	24
	2. Caution Signs-----	25
	3. Safety Instruction Signs-----	26
	4. Directional Signs-----	27

TABLES

Tables	I. Exceptions to Standard Color for Applicable Exterior and Interior Surfaces of Vehicles, Construction Equipment, and Materials Handling Equipment-----	7
	II. Surface and Marking Colors for Electronic Communication Shelters and Van Type Vehicles Occupied by Personnel During Operation, Maintenance or Control-----	14
	III. Safety Colors-----	22

MIL-STD-1473A(MI)
10 February 1976

		APPENDIX	<u>Page</u>
Paragraph	10.	SCOPE -----	29
	20.	MILITARY PUBLICATIONS -----	29
	20.1	Regulations -----	29
	20.2	Specifications -----	29
	20.3	Technical Bulletins -----	29

MIL-STD-1473A(MI)
10 February 1976

STANDARD GENERAL REQUIREMENTS FOR
COLOR AND MARKING OF ARMY MATERIEL

1. SCOPE

1.2 Scope and Purpose - This standard prescribes general requirements for color and marking of Army materiel. This standard does not prescribe the many special color and marking requirements specified by Army design activities; nor is it intended to prescribe their finishes, surface preparations or related treatments for preservation and coating. Similarly, it is not intended that this standard apply to exterior colors of Army equipment under tactical conditions in active combat theaters of operation where such equipment may be painted Lusterless Forest Green No. *, Lusterless White No. 37875 in snow areas, or other colors or patterns deemed necessary for camouflage or for compliance with host country requirements.

1.2 Application - Unless otherwise specified by the procuring activity general color and marking of Army materiel shall be as prescribed herein.

2. REFERENCED DOCUMENTS

2.1 Issues of Documents - The following documents of the issue in effect on the date of invitation for bids or request for proposal form a part of this standard to the extent specified herein.

Specifications

Federal

FED SPEC L-S-300	Sheeting and Tape, Reflective: Non-exposed. Lens, Adhesive Backing
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Military

MIL-P-3320	Painting, Freight and Maintenance Cars
MIL-P-3321	Painting, Railway Motive Power and Work Equipment

*Lusterless Forest Green has not been assigned a chip number in Federal Standard 595a at this time. Chromaticity diagram for forest green may be found in MIL-E-52798(ME).

MIL-STD-1473A(MI)
10 February 1976

MIL-C-3702	Cable, Power, Electrical, Ignition, High Tension
MIL-P-3807	Painting, Railroad Cars for Passenger Service
MIL-W-4088	Webbing, Textile, Woven Nylon
MIL-M-8555	Missiles, Guided: Design and Construction, General Specification for
MIL-M-11745	Marking and Labeling of US Army Marine Craft
MIL-M-13231	Marking of Electronic Items
MIL-C-13486	Cable, Special Purpose, Electrical, Low-Tension, Heavy Duty Multiple Conductor
MIL-W-13855	Weapons, Small Arms, General Specification for
MIL-M-18012	Marking for Aircrew Station Displays, Design and Configuration of
MIL-T-23991	Training Devices, Military; General Specification for
MIL-E-46061	Enamel, Camouflage, Solar- and Heat-Reflecting
MIL-E-52798	Enamel, Alkyd, Camouflage

Standards

Federal

FED-STD-89	Color Code for Gas Mask Canister Identification
FED-STD-186	Marking of Valves, Fittings, Flanges, and Unions Used in Nuclear Reactor Systems
FED-STD-595	Colors

Military

MIL-STD-101	Color Code for Pipelines and Compressed Gas Cylinders
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MIL-STD-1473A(MI)
10 February 1976

MIL-STD-129	Marking for Shipment and Storage
MIL-STD-130	Identification Marking of U. S. Military Property
MIL-STD-161	Identification Methods for Bulk Petroleum Products Systems Including Hydrocarbon Missile Fuels
MIL-STD-172	Color Code for Containers of Liquid Propellants
MIL-STD-190	Identification Marking of Rubber Products
MIL-STD-193	Painting Procedures, Tactical Vehicles (Tracked and Wheeled)
MIL-STD-194	Systems for Painting and Finishing Fire Control Materiel
MIL-STD-195	Marking of Connections for Electric Assemblies
MIL-STD-290	Packaging, Packing and Marking of Petroleum and Related Products
MIL-STD-411	Aircrew Station Signals
MIL-STD-445	Letters and Numbers of Cast Surfaces and Cast Identification Plates
MIL-STD-450	Signs for Contaminated or Dangerous Areas
MIL-STD-454	Standard General Requirements for Electronic Equipment
MIL-STD-642	Identification Marking of Combat and Tactical Transport Vehicles
MIL-STD-681	Identification Coding and Application of Hookup and Lead Wire
MIL-STD-685	Identification of Cable Used for Transmission of Telephone, Telegraph, and Teletype Signals
MIL-STD-686	Cable and Cord, Electrical; Identification Marking and Color Coding of

MIL-STD-1473A(MI)
10 February 1976

MIL-STD-687	Wire, Thermocouple, Identification Marking and Color Code of
MIL-STD-709	Ammunition Color Coding
MIL-STD-783	Nomenclature and Abbreviations in Aircrew Stations
MIL-STD-1223	Administrative Wheeled Vehicles Treatment, Painting Undercoating, Identification Marking, Data Plates and Warranty Notice Standards
MIL-STD-1247	Markings, Functions and Hazard Designations of Hose, Pipe, and Tube Lines for Aircraft, Missile and Space Systems
MIL-STD-1285	Marking of Electrical and Electronic Parts
MIL-STD-1458	Radioactive Materials: Marking and Labeling of Items, Packages and Shipping Containers for Identification in use, Storage and Transportation
MIL-STD-1472	Human Engineering Design Criteria for Military Systems, Equipment, and Facilities
MIL-STD-1480	Color Codes for Webbing, Textile; Manufacturer's Identification
MS33546	Color Code - Guided Missile Training Aids
MS87011	Color Identification Marking of Piping Systems in the Interior of Locomotives and Railway Passenger Cars

Drawings

11644801 Army Medical Department Insignia

2.2 Other Publications - The following documents form a part of this standard to the extent specified herein. Unless otherwise indicated, the issue in effect on the date of invitation for bids or request for proposal shall apply.

ANA Bulletin 438	Age Control of Sensitive Elastomeric Items
TSO N26	FAA Technical Standard Order

MIL-STD-1473A(MI)
10 February 1976

ANSI

C95.2-1966	Radio Frequency Radiation Hazard Warning Symbol
N2.1-1969	Radiation Symbol
Y32.16-1968	Reference Designations for Electrical and Electronic Parts and Equipment
Z35.1-1972	Specifications for Accident Prevention Signs
Z53.1-1971	Safety Color Code for Marking Physical Hazards

(Applications for copies of ANSI publications should be addressed to the American National Standards Institute, Inc., 1430 Broadway, New York, New York 10018.)

(Copies of specifications, standards, and other publications required by contractors in connection with specific procurement functions should be obtained from the procuring agency or as directed by the contracting officer.)

3. DEFINITIONS

Forest Green - Chromaticity diagram for forest green may be found in MIL-E-52798(ME). (Forest Green has not been assigned chip numbers in Federal Standard 595 at this time.)

4. GENERAL REQUIREMENTS

4.1 Colors

4.1.1 Numerical Designation - The numerical designations of colors herein refer to FED-STD-595 and the colors so designated shall conform to that standard.

4.1.2 Controls and Displays - Except where specified to the contrary herein, color coding of controls and displays shall be in accordance with MIL-STD-1472.

4.1.3 Off-the-Shelf Equipment - Repainting of off-the-shelf equipment, subject by law to competitive procurement, will not be required in order to meet the criteria herein. However, a criterion for selecting off-the-shelf commercial or Government equipment shall be the degree to which the equipment conforms to this standard. Where off-the-shelf equipment requires modification in order to interface with other equipment, the modification, if it affects painted surfaces, shall comply with the criteria herein.

MIL-STD-1473A(MI)
10 February 1976

4.2 Marking

4.2.1 Identification, General - Identification marking of all items of Army materiel shall conform to MIL-STD-130, as applicable.

4.2.2 Shipment and Storage - Army materiel shall be marked for shipment and storage in accordance with MIL-STD-129, as applicable. The labeling of lifting and tiedown points shall conform to MIL-STD-1472.

4.2.3 Controls and Displays - Except where specified to the contrary herein, controls, displays, and other items of equipment that must be located, identified, read, or manipulated, shall be appropriately and clearly labeled to permit rapid and accurate human performance; however, labels are not required on equipment or controls where use is obvious to user (e.g., functional label on aircraft control stick).

4.2.4 Labeling, Lettering, and Numeral Design - Where not specified to the contrary herein, labeling, lettering, and numeral design shall conform as applicable, to the requirements of MIL-STD-1472.

4.3 Supplementary Data and Color/Marking for Specific Items - The publications listed in the Appendix should be consulted for color and marking information supplementary to the requirements herein and for specific systems and equipment.

5. DETAIL REQUIREMENTS

5.1 Vehicles, Construction Equipment, and Materials Handling Equipment

5.1.1 Color - The standard color for applicable exterior and interior surfaces of vehicles, construction equipment, and materials handling equipment is Lusterless Forest Green. All such equipment shall be painted this color, except as indicated in Table I. Colors applicable to personnel stepping areas do not preclude use of grit or similar antislip material.

5.1.2 Marking

5.1.2.1 Administrative Wheeled Vehicles - Administrative wheeled vehicles shall be marked as specified in MIL-STD-1223 (Also see 4.3.)

5.1.2.2 Combat and Tactical Vehicles - Combat and tactical vehicles shall be marked as specified in MIL-STD-642. (Also see 4.3.)

MIL-STD-1473A(MI)

10 February 1976

TABLE I. EXCEPTIONS TO STANDARD COLOR FOR APPLICABLE EXTERIOR AND INTERIOR SURFACES OF VEHICLES, CONSTRUCTION EQUIPMENT, AND MATERIALS HANDLING EQUIPMENT

VEHICLES, EQUIPMENT, SURFACE	COLOR	FED-STD-595
AMBULANCE Exterior and Interior Surfaces	Gloss White	17875
TACTICAL Exterior Interior	Lusterless Forest Green Semi-Gloss Green	24533
CALIBRATION VEHICLES (To be used in CONUS or major overseas commands) Exterior	Lusterless Forest Green or Gloss White	17875
COMBAT VEHICLES & SPECIAL PURPOSE ARMORED HULL VEHICLES Interior Surfaces (general) M113 personnel carrier family of vehicles Interior surfaces Floors and ramps Interior surfaces such as doors and hatches which become exterior surfaces during operational use	Gloss White Semi-Gloss Green Lusterless Forest Green Lusterless Forest Green	17875 24533

(Continued)

MIL-STD-1473A(MI)
10 February 1976

TABLE I (Continued)

VEHICLES, EQUIPMENT, SURFACE	COLORS	FED-STD-595
<p>COMMERCIAL TYPE VEHICLES</p> <p>Exterior and interior surfaces (except where otherwise provided for herein or by the procuring activity)</p> <p>Bodies constructed of aluminum, stainless steel, or other corrosion-resistant material</p>	<p>Gloss Green</p> <p>No paint (if in accord- ance with common com- mercial practice)</p>	<p>14050</p>
<p>FIREFIGHTING VEHICLES</p> <p>Exterior and interior surfaces (Includes auxiliary vehicles to be assigned exclusively for firefighting or fire protection, and airfield crash rescue vehicles when in nontactical use.)</p>	<p>Gloss Red</p>	<p>11136</p>
<p>GARBAGE/REFUSE COLLECTION TRUCKS (NON-TACTICAL USE)</p> <p>Exterior and interior surfaces</p> <p>Top of hood, handles, control levers, and stepping area of running boards</p>	<p>Gloss White</p> <p>Gloss Black</p>	<p>17875</p> <p>17038</p>
<p>MATERIALS HANDLING EQUIPMENT</p> <p>Non-tactical area assignments, including aircraft towing and fuel/oil dispensing vehicles exterior and interior surfaces</p> <p>Tactical area assignments exterior and interior surfaces</p>	<p>Gloss Yellow</p> <p>Lusterless Forest Green</p>	<p>13538</p>

(Continued)

MIL-STD-1473A(MI)
10 February 1976

TABLE I (Continued)

VEHICLES, EQUIPMENT, SURFACE	COLORS	FED-STD-595
MOBILE ELECTRONIC/COMMUNICATION EQUIPMENT ENCLOSURES	See Table II	
REPAIR/UTILITIES VEHICLES, NOT ASSIGNED TO TACTICAL UNITS (Including attachments used for highway construction or maintenance)		
Exterior and Interior Surfaces	Gloss Yellow	13538
RESEARCH AND DEVELOPMENT TEST PROJECT VEHICLES		
Exterior and interior surfaces	As specified by the procuring activity	
VAN TYPE VEHICLES	See Table II	

MIL-STD-1473A(MI)
10 February 1976

5.1.2.3 Construction Equipment and Material Handling Equipment -
See 4.3.

5.1.2.4 Other - Vehicles such as bulk fuel transporters and military design ambulances, shall be marked as specified in MIL-STD-642. (Also see 4.3.)

5.2 Vessels

5.2.1 Color - See 4.3.

5.2.2 Marking - Marking and labeling of U. S. Army marine craft shall be in accordance with MIL-M-11745.

5.3 Railroad Equipment

5.3.1 Color - Railroad equipment shall be painted as follows:

- | | |
|---|-----------------------------|
| a. Railway motive power and work equipment | Conform to MIL-P-3321 |
| b. Box, caboose, flat, gondola, hopper, maintenance, refrigerator and tank cars | Conform to MIL-P-3320 |
| c. Cars for passenger service | Conform to MIL-P-3807 |
| d. Hospital and kitchen car exteriors (exposed) | Gloss Olive Green No. 14064 |

5.3.2 Marking

5.3.2.1 Agency Identification - The agency identification "US ARMY" shall be applied on both sides of all railroad equipment in Gloss White No. 17875; however, in theaters of operation, it will not be applied to freight cars or cabooses.

5.3.2.2 Identification Numbers

5.3.2.2.1 Location - Identification numbers, prescribed by the procuring activity, shall be marked on both sides and on each end of all locomotives, locomotive tender units, work equipment, and rolling stock.

MIL-STD-1473A(MI)
10 February 1976

5.3.2.2.2 Prefix - On rolling stock, car numbers shall be prefixed with the letters "USA" immediately to the left of or above the car number. In the continental United States, freight and caboose cars acceptable for interchange or commercial railroads will use the prefix "USAX" in lieu of the above where specifically authorized by the procuring activity. In such cases, the identification number and "USAX" prefix shall also be marked on the ends of the trucks of those cars.

5.3.2.2.3 Color - Identification numbers and prefixes shall be applied in Gloss White No. 17875.

5.3.2.3 Other Marking

5.3.2.3.1 Capacities, Limits, Weights, Insignia, Classifications, Etc. -

5.3.2.3.1.1 Railway Motive Power and Work Equipment - Markings shall conform to MIL-P-3321.

5.3.2.3.1.2 Rolling Stock - Markings shall conform to MIL-P-3320, as applicable.

5.3.2.3.1.3 Cars for Passenger Service - Markings shall conform to MIL-P-3807.

5.3.2.3.2 Safety - Caution marking on railroad equipment shall be applied only for use within the continental United States as follows:

a. A stripe in Gloss Yellow No. 138538 or reflective yellow adhesive backed marker conforming to Federal Specification L-S-300, color j, shall be marked across each side and across each end of all locomotive and locomotive tender units. Location and width shall be as directed by the procuring activity.

b. Access steps to locomotives and locomotive tenders shall be painted Gloss Yellow No. 13538.

5.3.2.3.3 Piping Systems - Color identification marking of piping systems in the interior of locomotives and railway passenger cars shall be in accordance with MS 87011.

5.3.2.4 Army Medical Department

5.3.2.4.1 Color - Army Medical Department Markings shall be applied in Gloss Red No. 11136 and Gloss White No. 17875.

MIL-STD-1473A(MI)
10 February 1976

5.3.2.4.2 Identification - The words "ARMY MEDICAL DEPARTMENT" and type of car shall be marked on both sides of Army Medical Department cars near the center of the car. The type of car shall also be marked in white on the end doors of each car in conjunction with the identification number of the car.

5.3.2.4.3 Red Cross Insignia - Red cross insignia shall be applied on both sides and on the roof of all kitchen, baggage, ambulance ward, and personnel cars assigned to the Army Medical Department. Red cross insignia, applied to the sides of the cars, shall be located near each end of the car. The use of decals is authorized for Army Medical Department requirements provided the decals meet the requirements of the color code.

5.3.2.4.4 Insignia - The Army Medical Department insignia, consisting of a red caduceus on a circular white field, shall be applied on both sides of Army Medical Department cars near the center of the car. These insignias shall be placed on each side of or adjacent to the words "ARMY MEDICAL DEPARTMENT" and type of car, marked in accordance with 5.3.2.4.2. The Army Medical Department insignia (caduceus) shall conform to drawing 11644801 which is available through supply channels as FSN 7690-00-790-2407.

5.4 Towed Artillery, Multiple Rocket Launchers, Missiles, Rockets, and Related Ground Support Equipment for Missile Systems.

5.4.1 Towed Artillery and Multiple Rocket Launchers

5.4.1.1 Color - Exterior painted surfaces of towed artillery and multiple rocket launchers shall be Lusterless Forest Green.
(Also see 4.3.)

5.4.1.2 Marking - The agency identification "US ARMY" shall be conspicuously marked on both sides of towed artillery and multiple rocket launchers in Lusterless Black No. 37038. This marking shall be applied to the most suitable surfaces, such as side shields, outriggers, trails, drawbars, counter-recoil cylinders, recuperator cylinders, gun tubes, etc., as approved by the procuring activity.

5.4.2 Guided Missiles

5.4.2.1 Color - Unless otherwise specified by the procuring activity, exterior painted surfaces of missiles and rockets shall be Lusterless Forest Green. Applicable color coding shall conform to MIL-STD-709.
(Also see 4.3.)

MIL-STD-1473A(MI)
10 February 1976

5.4.2.2 Marking

a. The agency identification "US ARMY" shall be marked on all missiles and rockets except those shipped to foreign countries under the Military Assistance Program and those less than seven (7) inches in diameter.

b. The agency identification "US ARMY" shall be conspicuously marked on at least two sides of the missile or rocket. Unless otherwise specified by the procuring activity, the identification shall be along the longitudinal axis so that when the missile is in the horizontal position, the letters will be vertical.

c. The above markings shall be applied in Lusterless Black No. 37038 unless otherwise specified by the procuring activity.

d. Other identification and marking of missiles and missile components shall conform to MIL-M-8555 or shall be as specified by the procuring activity. (Also see 4.3.)

5.4.3 Ground Support Equipment

5.4.3.1 Color - Ground support equipment shall be painted as follows:

5.4.3.1.1 Exteriors - Exterior painted surfaces of ground support equipment for missile systems shall be Lusterless Forest Green. (Also see Table II.)

5.4.3.1.2 Interiors - The interior colors of missile system vans or van type vehicles, occupied by personnel during operation, maintenance or control, shall conform to Table II.

5.4.3.2 Marking - Marking of ground support equipment shall conform to Table II and other applicable requirements of this standard.

5.4.4 Other Items

5.4.4.1 Liquid Propellant Containers - Portable or transportable containers of liquid propellants, including any box or other package for such containers, shall be color coded in accordance with MIL-STD-172.

MIL-STD-1473A(MI)
10 February 1976

TABLE II. SURFACE AND MARKING COLORS FOR ELECTRONIC/
COMMUNICATION SHELTER AND VAN TYPE VEHICLES
OCCUPIED BY PERSONNEL DURING OPERATION,
MAINTENANCE OR CONTROL

AREA	COLORS	FED-STD-595
Walls, ceilings, doors (except below, and fittings, except acoustical tile)	Semi-Gloss Green	24410 or 24533*
Ceilings (where greater brightness is required for work performed)	Semi-Gloss White	27875
Inside of doors which open outward	Exterior match	
FLOORS Linoleum covered	As specified by procuring activity	
Not linoleum covered	Lusterless Gray Color including grit when grit is specified for a particular area	36118
Cabinet/Console exteriors	Semi-Gloss Green	24410
Control/Display Panels Interior and Exterior (covered)	Semi-Gloss Gray	24692
Exterior (no cover)	Exterior match	
Controls	Gloss Black or Semi-Gloss Gray	17038 26231
Panel Lettering Interior and Exterior (covered) panels	Semi-Gloss Black	27038
Exterior (no cover) panels	Lusterless Black Lusterless White	37038* 37875*
Interior surfaces of other containers, cabinets, or shelter, if painting is required	Gloss White	17875

* As specified by the procuring activity.

MIL-STD-1473A(MI)

10 February 1976

5.4.4.2 Pipe, Hose, and Tube Lines - The function, content and, if applicable, the hazard and direction of flow, of pipe, hose, and tube lines used in missile systems and systems-peculiar equipment that is required exclusively for test, maintenance, servicing and/or operation as an integral part of the functional system, shall be color coded (and marked) in accordance with MIL-STD-1247. All lines external to these systems shall be color coded in accordance with MIL-STD-101.

5.4.4.3 Training Aids - Color coding primarily for graphic and demonstrator-type training aids utilized in operational and maintenance guided missile training shall be in accordance with MS33546 and MIL-STD-709.

5.4.4.4 Other - Items of other categories utilized in missile systems shall be marked in accordance with applicable requirements herein.

5.5 Electrical and Electronic Equipment and Items

5.5.1 Communications-Electronic Shelters

5.5.1.1 Color - Communications-electronic shelters shall be painted as follows:

5.5.1.1.1 Exteriors - Exterior painted surfaces shall be lusterless green solar heat-reflecting paint produced in accordance with MIL-E-46061 or MIL-E-52798. (Also see Table II.)

5.5.1.1.2 Interiors - Interior colors of mobile communication-electronic equipment enclosures, occupied by personnel during operation, maintenance, or control, shall conform to Table II.

5.5.1.2 Marking - Marking shall conform to Table II and other applicable requirements of this standard.

5.5.2 Cables

5.5.2.1 Electrical Cable and Cord - Color coding and identification marking of electrical cable and cord shall conform to MIL-STD-686.

5.5.2.2 Cable for Transmission of Telephone, Telegraph, and Teletype Signals - Color coding and marking of cables for transmission of telephone, telegraph, and teletype signals (including singles, pairs, multiples and quads used in other applications such as intercommunication, loudspeaker and microphone cables) shall be in accordance with MIL-STD-685.

MIL-STD-1473A(MI)

10 February 1976

5.5.2.3 Vehicular Use - Color and marking of high-tension and low-tension cables for vehicular use shall conform to MIL-C-3702 and MIL-C-13486, respectively.

5.5.2.4 Thermocouples - Color and identification coding for all single and duplex thermocouple wires and all thermocouple extension wires shall conform to MIL-STD-637.

5.5.3 Electronic Items - Marking of electronic items, except marking for shipment and as otherwise specified by an applicable Government document covering the item on which the marking appears, shall conform to MIL-M-13231.

5.5.4 Electronic Parts - Electronic parts shall be color coded in accordance with MIL-STD-1285.

5.5.5 Resistors - Resistor color code shall conform to MIL-STD-1285.

5.5.6 Warning Markings

5.5.6.1 Electronic Equipment - Warning labels on electronic equipment shall be in accordance with MIL-STD-454, Req. 1.

5.5.6.2 Radio Frequency Hazard - The Radio Frequency Radiation Hazard Warning Symbol shall be in accordance with ANSI C95.2-1966.

5.5.6.3 Laser Hazard - Placarding of potentially hazardous areas should be accomplished in accordance with local standing operating procedures for Class III (Medium power) and Class IV (High power) lasers. A warning label shall be affixed permanently to all Class II (Low power), III, IV lasers and laser systems.

5.5.6.4 Safety - See Paragraph 5.9.

5.5.7 Test Equipment

5.5.7.1 Bench Use - Test equipment for bench use shall be smooth, Semi-Gloss Gray No. 26037.

5.5.7.2 Field Equipment - Test equipment for field testing shall be a smooth Lusterless Forest Green.

5.5.7.3 Flight Line Equipment - Test equipment for flight line use shall be smooth, Gloss Yellow No. 13538.

5.5.8 Hookup Wire - Identification coding of hookup wire shall conform to MIL-STD-681.

5.5.9 Connections - Connections for electric assemblies shall be marked in accordance with MIL-STD-195.

MIL-STD-1473A(MI)
10 February 1976

5.5.10 Reference Designation - Electrical and electronic reference designations shall conform to ANSI Y32.16-1968.

5.5.11 Communications Equipment - Communications equipment installed at fixed facilities, such as radio station equipment, telephone central office sets, etc., shall be painted Lusterless Forest Green or Lusterless Gray No. 36118. Tactical communications equipment shall be painted Lusterless Forest Green.

5.6 Aircraft

5.6.1 General - General color and marking of Army aircraft shall be as specified by the procuring activity. Marking of aircraft shall be designed to minimize the hazards to troops, maintenance personnel, and crew from rotating shafts, rotors, hoists, and suspension systems, down-wash, electrical shock, and other unsafe conditions. (Also see 4.3.)

5.6.2 Aircrew Stations

5.6.2.1 Displays - Design and configuration of marking for aircrew station displays shall conform to MIL-M-18012, MIL-STD-783 and MIL-STD-411.

5.6.2.2 Instrument and Range Markings - Instruments shall be marked in accordance with MIL-M-18012. (Also see 4.3.)

5.6.2.3 Cockpit Area Equipment - All surfaces in the cockpit area, except emergency equipment, shall be a smooth Lusterless Black No. 37038.

5.6.2.4 Emergency Equipment - Emergency equipment, when required, shall be smooth, Semi-Gloss Yellow No. 23538 or Lusterless Yellow No. 33538 as specified in the detail equipment or installation detail specification. Emergency controls shall be marked in accordance with MIL-M-18012.

5.6.3 Avionics Equipment - Avionics equipment shall be painted Lusterless Forest Green.

5.6.3.1 Externally Mounted Equipment - Externally mounted equipment shall be Lusterless Forest Green.

5.6.3.2 Internal Equipment - Internally mounted equipment cases and panels, except those in the cockpit area, shall be Lusterless Forest Green or Semi-Gloss Gray No. 26152 as specified in the detailed equipment or installation specification.

MIL-STD-1473A(MI)
10 February 1976

5.6.4 Hose, Pipe and Tube Lines - Colors and marking for identifying applicable functions, subsidiary functions, pressure, hazards, and direction of flow of pipe, hose, and tube lines used in aircraft and support equipment required for test, maintenance servicing or operation as an integral part of the function system shall conform to MIL-STD-1247.

5.6.5 Elastomeric Items - Age of sensitive elastomeric items shall be subject to age controls in accordance with ANA Bulletin No. 438.

5.7 Ammunition, Chemical, and Radiological Items -

5.7.1 Ammunition - Conventional and chemical ammunition shall be painted in accordance with MIL-STD-709. Marking shall be as specified by the procuring activity.

5.7.2 Chemical Warfare Equipment - Chemical warfare equipment shall be painted Lusterless Forest Green except that such equipment mounted on vehicles shall be painted the same color as the vehicle.

5.7.3 Contaminated Areas - The design and color of signs for contaminated areas shall be in accordance with MIL-STD-450. This does not apply to marking or shipping of material.

5.7.4 Gas Mask Canisters - Gas mask canisters shall be color coded in conformance with FED-STD-89.

5.7.5 Nuclear Reactor Systems - Valves, fittings, flanges, and unions used in nuclear reactor systems shall be marked in accordance with FED-STD-186.

5.7.6 Radioactive Material - Marking or labeling of commodities containing intentionally added radioactive materials shall be in accordance with MIL-STD-1458. Packages and containers shall be marked in accordance with MIL-STD-129. (Also see 4.3.)

5.8 Other Items - The standard color for exterior painted surfaces of other items of Army materiel intended for field use and not otherwise specified herein shall be Lusterless Forest Green unless otherwise directed by the procuring activity.

5.8.1 Antenna Radomes - If painting is necessary, antenna radomes shall be finished color Lusterless Forest Green or Lusterless White No. 37875.

MIL-STD-1473A(MI)
10 February 1976

5.8.2 Antenna Towers - Antenna towers for use under non-tactical conditions shall be painted in alternating bands of Gloss Orange No. 12197 and Gloss White No. 17875, with the band at each end colored orange. These bands should be of equal width, each band being approximately one-seventh the height of the tower, provided that each band shall have a width of not more than 40 nor less than 1-1/2 feet.

5.8.3 Armed Forces Radio and Television Network Equipment - Armed Forces Radio and Television Network equipment shall be painted Lusterless Forest Green or Lusterless Gray No. 36118.

5.8.4 Automatic Data Processing Equipment - Automatic Data Processing equipment shall be painted Lusterless Forest Green or Lusterless Gray No. 36118.

5.8.5 Bridging Equipment - Applicable exterior surfaces of bridging equipment shall be painted Lusterless Forest Green except as specified by the procuring activity. Stenciling and identification marking shall be Lusterless Black No. 37038. Bridging equipment covered by Treaty Agreements shall be finished in accordance with such color schemes of those agreements as specified by the procuring activity.

5.8.6 Cast Surfaces - Letters and numbers for cast surfaces and cast identification plates shall be in accordance with MIL-STD-445.

5.8.7 Fire Control Materiel - Colors used for identification of water, fuel and oil caps, filler and drain plugs, and lubricating points of fire control materiel shall be in accordance with MIL-STD-194. Identify purging ports in Gloss Gray No. 16187 and escape ports in Gloss Yellow No. 13538 on fire control optical instruments normally charged with nitrogen.

5.8.8 Ground Controlled Approach (GCA) Radar Equipment - GCA radar equipment for use at Army airfields shall be painted as follows:

- | | |
|----------------------------------|---|
| a. For use as tactical equipment | Lusterless Forest Green (including waveguide and antenna reflectors). Reflectors may be painted a non-conductive Lusterless Forest Green. |
| b. For use in CONUS | Per FAA Technical Standard Order TSO N26. |

5.8.9 Machine Tools - Machine tools and associated shop equipment shall be painted Gloss Gray No. 16187, except as follows:

MIL-STD-1473A(MI)

10 February 1976

a. At fixed facilities, such equipment may be painted Semi-Gloss Green No. 24272..

b. Emergency Stopping switches and bars on such equipment shall be painted Gloss Red No. 11105 or 11136.

5.8.10 Meteorological Equipment - Meteorological equipment shall be painted Lusterless Forest Green.

5.8.11 Nylon Webbing - Manufacturers' identification color coding of nylon webbing manufactured under MIL-W-4088 shall conform to MIL-STD-1480.

5.8.12 Petroleum and Related Products - Marking of Petroleum and related products shall conform to MIL-STD-290. With the exception of aircraft, vessels, power plants and heating systems, and where camouflage or concealment is not required, color and marking for identification of liquid petroleum products and hydrocarbon missile fuels stored in and dispensed from Government owned or operated bulk facilities shall be in accordance with MIL-STD-161.

5.8.13 Photographic and Audio-Visual Equipment - Photographic and audio-visual equipment shall be painted Lusterless Forest Green or Lusterless Black No. 37038 as appropriate.

5.8.14 Pipelines and Compressed Gas Cylinders - Pipelines and compressed gas cylinders shall be color coded as specified by MIL-STD-101.

5.8.15 Rubber Products - If color or identification markings are used on rubber products, they shall conform to MIL-STD-190.

5.8.16 Reusable Shipping Transporters - Reusable shipping transporters (CONEX containers) shall be painted as follows:

- | | |
|--|--------------------------|
| a. Type I and type II containers | Lusterless Forest Green |
| b. Type II CH (controlled humidity) containers | Gloss Aluminum No. 17178 |

5.8.17 Small Arms - Marking for small arms weapons (including those used in aircraft armament subsystems) shall conform to MIL-W-13855.

5.8.18 Training Devices - Color and marking of training devices shall be in accordance with MIL-T-23991, as applicable.

MIL-STD-1473A(MI)
10 February 1976

5.8.19 Amphibious Craft - Color and marking of Army amphibious craft shall be as specified by the procuring activity.

5.9 Safety Color Markings and Signs

5.9.1 Safety Color Markings - Safety colors shall conform to Table III and to other requirements specified by the procuring activity. (Also see 4.3.)

5.9.2 Safety Sign Color and Marking - Danger, caution, safety notice, instruction, and directional signs and plates shall be in accordance with ANSI Z35.1-1972 except as specified below, and shall conform to other requirements specified by the procuring activity. (Also see 4.3.)

5.9.2.1 Danger Signs - Danger signs, used only where an immediate hazard capable of producing irreversible damage or injury exists, shall conform to Figure 1.

5.9.2.2 Caution Signs - Caution signs, used only to warn against potential hazards or to caution against unsafe practices, shall conform to Figure 2.

5.9.2.3 Safety Instruction Signs - Safety instruction signs, used where there is a need for general instructions and suggestions relative to safety measures, shall conform to Figure 3.

5.9.2.4 Directional Signs - Directional signs, where required to indicate the way to locations, shall conform to Figure 4.

MIL-STD-1473A(MI)
10 February 1976

TABLE III SAFETY COLORS

FED-STD-595
COLORS

EXAMPLES

Red 11105, 11136, 21105	Fire protection equipment and apparatus Danger Stop	Fire alarm boxes, firehose locations, fire report- ing telephone stations, fire extinguishers (unless painting unnecessary) High voltage; no smoking, matches, open light, keep out. Stop buttons for emergency stopping of machinery, emergency stop bars on hazardous machines
Yellow 13538, 13655 23655	Caution Physical hazards	Handrails, guardrails, top and bottom treads of stairways, containers of hazardous chemicals, waste containers for highly combustible materials Hook blocks on cranes, coverings and guards for guy wires; corner markers for storage piles; exposed and unguarded edges of platforms, pits, wells; and obstructions.
Green 14260, 24260	Safety equipment	Location of first aid equipment, stretchers, personnel deluge showers, protective masks, safety starting buttons
Black, White 17038, 17875 27038, 27875 37038, 37875	Housekeeping and traffic markings	Location and width of aiseways, deadends of aisles or passageways, location for refuse cans, white corners for rooms or passageways

(Continued)

TABLE III (Continued)

FED-STD-595 COLORS	FOR IDENTIFI- CATION OF	EXAMPLES
Blue 15102, 25102	Exterior of switch boxes and electrical controls which are the starting point or source for hazardous machinery or equipment	Items which may cut, crush, shock or injure
Orange 12246, 22246 32246	Dangerous parts of machines or energized equipment	(ANSI N2.1-1969 and Z53.1-1971)
Purple (Magenta) 17142, 27142	Radiation hazards (Ionizing)	

MIL-STD-1473A(MI)
10 February 1976

Wording Examples

Danger--High Voltage
 Danger--2300 Volts
 Danger--Keep Off, Electric Current
 Danger--Insufficient Clearance
 Danger--Crane Overhead
 Danger--No Smoking, Matches or Open Lights*
 Danger--Use No Open Light--Flammable
 Danger--No Smoking, Matches or Open Lights*
 *For signs reading "No Smoking," a rectangular sign using white letters on a red background shall be acceptable except in high hazard areas.

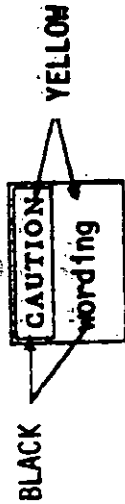


Sign Size (In)	Black Rectangular Panel (In)		Red Oval (In)		Word "Danger" Height of Letters (In)	Maximum Space Available for Sign Wording (In)	
	Height	Width	Height	Width		Height	Width
HORIZONTAL PATTERN							
7							
10	10	3-1/4	2-7/8	8-1/2	1-7/16	2-3/4	9-3/8
14	14	4-3/8	4-1/8	11-7/8	2-1/16	4-1/4	13-3/8
20	20	6-1/2	5-3/4	17	2-7/8	6-1/4	19-3/8
28	28	9-1/4	8-1/4	23-7/8	4-1/8	9-1/8	27-3/8
UPRIGHT PATTERN							
10	7	2-3/8	2-1/8	5-7/8	1-1/6	6-3/8	6-3/8
14	10	3-1/4	2-7/8	8-1/2	1-7/16	9-1/2	9-3/8
20	14	4-5/8	4-1/8	11-7/8	2-1/16	14	13-3/8
28	20	6-1/2	5-3/4	17	2-7/8	20-1/4	19-3/8

Figure 1. Danger Signs

Wording Examples

- Caution--Stop Machinery to Clean, Oil or Repair
- Caution--Close Clearance
- Caution--Goggles Must Be Worn When Operating This Machine
- Caution--Electric Fence
- Caution--Eye Protection Required in This Area
- Caution--Hearing Protection Required



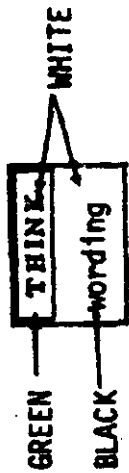
Sign Size (In)	Black Rectangular Panel (In)		Word "Caution" Height of Letters (In)	Maximum Space Available for Sign Wording Below Panel (In)	
	Height	Width		Height	Width
HORIZONTAL PATTERN					
7	10	2-1/4	1-5/8	3-1/4	9-3/8
10	14	3-1/4	2-1/4	5-1/2	13-3/8
14	20	3-3/4	2-3/4	9	19-3/8
20	28	4-1/4	3-1/4	14-1/2	27-3/8
UPRIGHT PATTERN					
10	7	1-5/8	1-1/8	7	6-3/8
14	10	2-1/4	1-5/8	10-1/2	9-3/8
20	14	3-1/4	2-1/4	15-1/2	13-3/8
28	20	3-3/4	2-3/4	24	19-3/8

Figure 2. Caution Signs

MIL-STD-1473A(MI)
10 February 1976

Wording Examples

- Walk-Don't Run - Avoid Injuries
- Lock Out Controls Before Making Repairs
- Report All Injuries



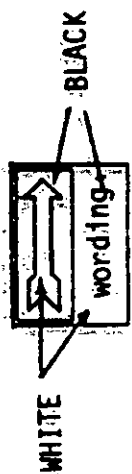
NOTE: The word "Think" as given here is only an illustration. Other wording may be used.

Sign Size (In)	Green Rectangular Panel (In)		Word "Think" Height of Letters (In)	Maximum Space Available for Sign Wording Below Panel (In)	
	Height	Width		Height	Width
7	2-1/4	9-3/8	1-5/8	3-1/2	9-3/8
10	3-1/4	13-3/8	2-1/4	5-1/2	13-3/8
14	3-3/4	19-3/8	2-3/4	9	19-3/8
20	4-1/4	27-3/8	3-1/4	14-1/2	27-3/8

Figure 3. Safety Instruction Signs

Wording Examples

To Exit (below arrow panel)
To First Aid for Symbol (below arrow panel)



Sign Size (In)	Black Rectangular Panel (In)		White Arrow (In)					Maximum Space Available for Sign Wording (In)		
	Height	Width	Overall Length	Arrow Head Height	Arrow Head Width	Arrow Shaft Height	Arrow Tail Height	Arrow Tail Width	Height	Width
6-1/2	3-1/4	13-3/8	12-5/8	2-3/4	3	1-1/8	2-3/8	3-1/4	2-1/4	13-3/8
9	4-1/2	19-3/8	18-5/8	3-3/4	4-1/8	1-5/8	3-1/4	4-1/2	3-3/8	19-3/8
12	6	27-3/8	26-5/8	5-1/8	5-5/8	2-1/8	4-3/8	6	4-3/4	27-3/8
15	7-1/2	35-3/8	34-5/8	6-3/8	6-7/8	2-5/8	5-1/2	7-1/2	6-1/4	35-3/8

Figure 4. Directional Signs

MIL-STD-1473A(MI)
10 February 1976

Custodians:

Army: MI

Review Activities:

Army: GL, MD, Mk, TM, HEL

User Activities:

Army: EL, MD, AT, AV, ME

Preparing Activity

Army: MI

Defense Supply Agency:

GS

ES

Project No. MISC A928

MIL-STD-1473A(MI)
10 February 1976

APPENDIX

GUIDANCE DOCUMENTS

10. SCOPE

The documents listed in this appendix provide supplementary information and criteria on color and marking of Army materiel that may be used, as applicable.

20. MILITARY PUBLICATIONS

20.1 Regulations

- AR 58-1 Joint Procedures for Management of Administrative Use Motor Vehicles
- AR 385-30 Safety Color Code Markings and Signs
- AR 700-64 Radioactive Commodities in the DoD Supply System
- AR 750-X Painting, Camouflage Painting and Marking of Army Materiel

20.2 Specifications

- MIL-P-514 Plates, Identification, Instruction and Marking, Blank

20.3 Technical Bulletins

- TB 9-1300-228-10 Conventional and Guided Missile Ammunition Packing Materiel: Reworking to Comply with Federal Cataloging Requirements
- TB 9-1300-246/1 Identification of Ammunition Employing the New Color Coding Standard
- TB 746-92-1 Painting and Marking of Guided Missiles and Rockets
- TB 746-92-2 Color and Marking of HAWK Guided Missile System Ground Support Equipment
- TB 746-92-3 Color and Marking of PERSHING Missile and Ground Support Equipment

MIL-STD-1473A(MI)
10 February 1976

TB 746-93-1	Color and Marking of Military Vehicles, Construction Equipment, and Materials Handling Equipment
TB 746-93-2	Painting and Marking of Army Aircraft
TM 55-6600-200-20	Marking of Instruments and Interpretation of Markings
TB 746-93-4	Painting of Vessels
TB 746-95-1	Color and Marking of Towed Artillery
TB MED 279	Control of Hazards to Health from Laser Radiation

MIL-STD-1473A(MI)
10 February 1976

INDEX

	<u>Paragraph</u>	<u>Page</u>
A.		
Aircraft-----	5.6	18
Aircrew Station-----	5.6.2	18
Ammunition-----	5.7.1	19
Amphibious Craft-----	5.8.19	21
Antenna Radomes-----	5.8.1	18
Antenna Towers-----	5.8.2	19
Armed Forces Radio and TV Network Equipment--	5.8.3	19
Arms, Small-----	5.8.17	20
Army Medical Department (Railroad Equipment)-----	5.3.2.4	11
Artillery, Towed-----	5.4.1	12
Audio-Visual Equipment-----	5.8.13	20
Automatic Data Processing Equipment-----	5.8.4	19
Avionics Equipment-----	5.6.3	17
B		
Bridging Equipment-----	5.8.5	19
C		
Cables-----	5.5.2	15
Communications-----	5.5.2.2	15
Electrical-----	5.5.2.2	15
Thermocouples-----	5.5.2.4	16
Vehicles-----	5.5.2.3	16
Cannister, Gas Mask-----	5.7.4	18
Cast Surfaces-----	5.8.6	19
Chemical Warfare Equipment-----	5.7.2	18
Communication Equipment-----	5.5.11	17
Compressed Gas Cylinders-----	5.8.14	20
Connections (Elec.)-----	5.5.9	16
Construction Equipment-----	5.1.2.3	10
Contaminated Areas-----	5.7.3	18
Controls-----	4.1.2 and 4.2.3	5 6
D		
DEFINITIONS-----	3	5
DETAIL REQUIREMENTS-----	5	6
Displays-----	4.1.2 and 4.2.3	5 6

MIL-STD-1473A(MI)
10 February 1976

E	<u>Paragraph</u>	<u>Page</u>
Elastomeric Items-----	5.6.5	18
Electronic, Items-----	5.5.3	16
Electronic, Parts-----	5.5.4	16
		19
F		
Fire Control Materiel-----	5.8.7	19
G		
GENERAL REQUIREMENTS-----	4	5
Ground Controlled Approach (GCA) Radar Equipment	5.8.8	19
Ground Support Equipment-----	5.4.3	13
H		
Hookup Wire-----	5.5.8	16
I		
Identification, General-----	4.2.1	6
L		
Labeling-----	4.2.4	6
Laser Hazards-----	5.5.6.3	16
Launchers, Multiple Rocket-----	5.4.1	12
Lettering-----	4.2.4	6
Lines (Hose, Pipe and Tubes) Aircraft-----	5.6.4	18
Lines (Hose, Pipe and Tubes) Missiles-----	5.4.4.2	15
Liquid Propellant Containers-----	5.4.4.1	13
M		
Machine Tools-----	5.8.9	19
Marking, General-----	4.2	6
Materials Handling Equipment-----	5.1.2.3	10
Meteorological Equipment-----	5.8.10	20
Missiles, Guided-----	5.4.2	12
N		
Nuclear Reactor System-----	5.7.5	18
Numerical Design-----	4.3	6
Numerical Designation (Colors)-----	4.1.1	5
Nylon Webbing-----	5.8.11	20

MIL-STD-1473A(MI)
10 February 1976

	<u>Paragraph</u>	<u>Page</u>
O		
Off-The-Shelf Equipment-----	4.1.3	5
P		
Petroleum Products-----	5.8.12	20
Photographic Equipment-----	5.8.13	20
Pipeline-----	5.8.14	20
R		
Radioactive Material-----	5.7.6	18
Radio Frequency Hazards-----	5.5.6.2	16
Railroad Equipment-----	5.3	10
Reference Designation (Elec.)-----	5.5.10	17
REFERENCED DOCUMENTS-----	2	1
Resistors-----	5.5.5	16
Rubber Products-----	5.8.15	20
S		
Safety, Color Markings-----	5.9.1	21
Safety, Sign Color and Marking-----	5.9.2	21
SCOPE-----	1	1
Shelters, Communication-Electronics-----	5.5.1	15
Shipments, Marking for-----	4.2.2	6
Specific Items, Color/Marking-----	4.3	6
Storage, Marking for-----	4.2.2	6
T		
Test Equipment (Elec.)-----	5.5.7	16
Transporters, Shipping, Reusable-----	5.8.16	20
Training Devices-----	5.8.18	20
V		
Vehicles-----	5.1	6
Administrative-----	5.1.2.1	6
Combat-----	5.1.2.2	6
Tactical-----	5.1.2.2	6
Vessels-----	5.2	10
W		
Warning Markings (Elec.)-----	5.5.6	16

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.

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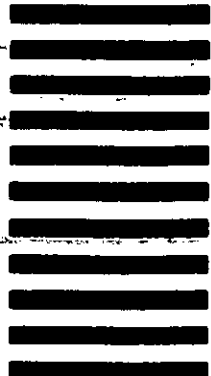
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5. PROBLEM AREAS

a. Paragraph Number and Wording:

b. Recommended Wording:

c. Reason/Rationale for Recommendation:

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