

MIL-B-3461G
30 September 1979
SUPERSEDING
MIL-B-003461F
3 June 1977
USED IN LIEU OF
MIL-B-3461E
30 June 1973

MILITARY SPECIFICATION

BUTTON, INSIGNIA, METAL, UNIFORM AND CAP

This specification is approved for use by all Departments and Agencies of the Department of Defense.

1. SCOPE

1.1 Scope.- This specification covers metal uniform and cap buttons with embossed designs used by the Military Departments.

1.2 Classification.- Buttons shall be of the following types, styles, classes, subclasses and sizes, as specified (see 1.2.1, 6.2, 6.5 and 6.6).

Type I - Button, Insignia, Metal Uniform

Style 1 - Air Force, Silver Plated

Style 2 - Army

Class A - Army, Gold Plated, Solid Design

Class B - Army, Gold Plated, Pierced Design

Class C - Army, Corps of Engineers, Gold Plated,
Pierced Design

Class D - Army, JROTC Division, Gold Plated,
Solid Design

Class E - Army, Nickel Plated, Pierced Design
(See 1.2.1 and 6.6)

Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be used in improving this document should be addressed to: Director, The Institute of Heraldry, US Army, Cameron Station, Alexandria, VA 22314, by using the self-addressed Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.

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- Style 3 - Marine Corps
 - Class A - Gold Plated
 - Subclass 1 - High Contour (Officers)
 - Subclass 2 - Low Contour (Enlisted Personnel)
- Style 4 - Navy
 - Class A - Gold Plated
 - Class B - Bronze
 - Class C - Silver Plated
- Style 5 - Coast Guard (see 6.3)
 - Class A - Gold Plated
 - Class B - Bronze
- Type II - Button, Insignia, Metal Cap
 - Style 1 - Air Force, Silver Plated
 - Style 2 - Army
 - Class A - Army, Gold Plated, Solid Design
 - Class B - Army, Gold Plated, Pierced Design
 - Class C - Army, Corps of Engineers, Gold Plated, Pierced Design
 - Class D - Army, JROTC Division, Gold Plated, Solid Design
 - Class E - Army, Nickel Plated, Pierced Design (See 1.2.1 and 6.6)
 - Style 3 - Marine Corps
 - Class A - Gold Plated
 - Subclass 1 - High Contour (Officers)
 - Subclass 2 - Low Contour (Enlisted Personnel)
 - Class B - Black Enameled
 - Subclass 1 - High Contour (Officers)
 - Subclass 2 - Low Contour (Enlisted Personnel)
 - Style 4 - Navy
 - Class A - Gold Plated
 - Class B - Bronze
 - Class C - Silver Plated
 - Style 5 - Coast Guard (See 6.3)
 - Class A - Gold Plated
 - Class B - Bronze
 - Style 6 - Coast Guard Auxiliary (See 6.3)
- Type III - Button, Insignia, Metal, Cuff Link, Air Force

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1.2.1 Sizes.- Button sizes shall be as shown in table I. Sizes shall be given in lignes where 40 lignes equal one inch.

TABLE I Sizes (in Lignes)1/-

Army	Army Corps of Engineers	Air Force	Marine Corps	Navy	Coast Guard	Coast Guard Auxil	Army JROTC	Army ^{2/} Special
20	25	20	22	22-1/2	22-1/2	22-1/2	25	25
25	30	25	27	28	28	28	30	36
30	36	30	40	35	35	35	36	
36		36		40	40			
		45						

1/ A tolerance of plus or minus 1 ligne will be permitted.

2/ These are the sizes available for the types I and II, style 2, class E buttons and are restricted for use by The United States Army Band and Ceremonial Units of the 3rd Infantry.

2. APPLICABLE DOCUMENTS.

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

SPECIFICATIONS

FEDERAL

- UU-P 553 - Paper, Wrapping, Tissue
- PPP-B-636 - Box, Shipping, Fiberboard
- PPP-B-676 - Boxes, Setup
- V-T-276 - Thread, Cotton

STANDARDS

FEDERAL

FED-STD-151 - Metal, Test Methods

MILITARY

- MIL-STD-105 - Sampling Procedures and Tables for Inspection by Attributes
- MIL-STD-129 - Marking for Shipment and Storage

DRAWING

THE INSTITUTE OF HERALDRY

- 4-4-92 - Buttons, Insignia, Metal, Uniform and Cap

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

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3. REQUIREMENTS

3.1 Standard samples.— Unless otherwise specified (see 6.2), a standard sample of the finished button required shall be furnished by the contracting officer. With the exception of the standard samples of the Coast Guard, Coast Guard Auxiliary and Army 20 ligne buttons the standard samples furnished shall be used for matching color and finish only.

3.2 First article.— When specified (see 6.2), before production is commenced a sample of the finished button shall be submitted or made available to the contracting officer or his authorized representative for inspection and tests as specified in 4.2. The approval of the first article authorizes the commencement of production but does not relieve the contractor of responsibility for compliance with the provisions of this specification. The first article shall be manufactured in the same facilities to be used for the manufacture of the production items.

3.3 Materials.— Materials shall conform to the referenced specifications and the requirements specified herein.

3.3.1 Copper base alloys.— Copper base alloys shall be rolled, polished, free from pits, scale (including red oxide), dents, nicks, cracks, scratches, segregations and foreign inclusions that will not be removed in later processing. When tested as specified in 4.4.1, the chemical composition of the applicable copper base alloy shall be as specified in table II.

TABLE II Chemical composition of copper base alloys.—

Alloy	Copper	Nickel 1/	Lead (max)	Iron (max)	Manganese (max)	Zinc	Others (max)
Yellow brass	64.0-68.5		.15	.05		Remain-	.15
Red brass	84.0-86.0		.05	.05		der	.15
Nickel silver	63.0-66.5	16.5-19.5	.10	.25	.50	Remain-	
Low brass	78.5-81.5		.05	.05		der	.15
Free cutting brass	60.0-63.0		3.75	.35		Remain-	.50
						der	total

1/ Cobalt counting as nickel.

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3.5.2 Stamping, trimming and piercing.- The embossed die shall be struck in a manner to ensure a well defined die struck outline. The button shall be trimmed and when applicable pierced to the die struck outline of the area specified. All edges shall be clean smooth and free from burrs, drag, step and rough edges. The stamping and trimming and when applicable the piercing operation shall not damage or distort the design or alter the shape of the button.

3.6 Detail of components.-

3.6.1 Type I (Uniform buttons).-

3.6.1.1 Shells and liners.- Except for oxidized silver buttons, all shells and when applicable liners, shall be fabricated from the red brass specified in 3.3.1. Shells for oxidized silver buttons shall be fabricated from nickel silver specified in 3.3.1. The thickness of the shells shall be as specified on drawing 4-4-92. When liners are required, the liners shall be 0.011 plus or minus 0.002 inch thick with 80 lines plus or minus 5 lines to the inch. Each liner shall have a raised platform to support the areas of embossed design on the shell and to ensure the proper positioning of the liner. The raised platform shall not be visible after assembly. Except for raised embossed areas, style 2, class D shells shall be flat across the face. The rim of the face of the shell shall be burnished to produce a 30 to 40 degree angled bevel as shown on drawing 4-4-92.

3.6.1.2 Back and shanks.- Backs and shanks shall be fabricated from low brass specified in 3.3.1. The thickness of the backs and shanks shall be as specified on drawing 4-4-92. Except for type I, style 2, classes A (20 ligne), D and E, type I, style 4, classes A, B and C, sizes 22-1/2 and 35 ligne and type I, style 5, classes A and B, sizes 22-1/2, 35, and 40 ligne buttons, the type of shank shall be as specified (see 6.2). The type I, style 2, class A (20 ligne) shall have a tunnel shell self shank. The type I, style 2, classes D and E buttons, the type I, style 4, classes A, B and C, sizes 22-1/2, 35, and 40 ligne and type I, style 5, classes A and B, sizes 22-1/2 and 35 ligne buttons shall have a hopper back.

3.6.1.3 Assembly.-

3.6.1.3.1 Pierced shells and liners.- Pierced shells and liners shall be assembled with the lines of the liner parallel, within 5

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degrees, for buttons larger than 25 lignes and 10 degrees for buttons 25 lignes or smaller, to the horizontal center line of the design on the shell and with the liner fitted against the back of the design on the shell within 1/32 inch. Further assembly shall be as specified in 3.6.1.3.2.

3.6.1.3.2 Shells, liners, button backs and shanks.- Final assembly shall be as shown on drawing 4-4-92. The position of the shank, self-shank or hopper back shall be such that if a rod is inserted in the eye of either shank or self-shank or hopper back buttons, the rod shall be parallel to the lines of the background of the design of the 22, 22-1/2, 25 and style 3, 27 ligne buttons and at right angles to the parallel lines on the design of all other uniform buttons. A variation of 10 degrees maximum will be permitted.

3.6.1.3.3 Hopper back.- When tested as specified in 4.4.8, the button shall not abrade or break the sewing thread.

3.6.1.4 Fastening devices.- When an attaching device is required (see 6.2), the attaching device shall be as specified herein.

3.6.1.4.1 Toggles, split pin or ring.- When split pin or ring type toggles are specified (see 6.2), the toggles shall be furnished detached. Split pin or ring type toggles shall be made from hard-drawn steel wire, zinc coated to withstand salt spray test specified in 4.4.3, for a period of 96 hours without indication of red rust. Split pin or ring type toggles shall conform to the applicable design and dimensions shown on drawing 4-4-92.

3.6.1.4.2 Toggles, bodkin.- When bodkin toggles are specified (see 6.2), the toggles shall be made from hard drawn nickel wire specified in 3.3.1, and shall have a nickel plated brass cap. The toggles shall conform to the applicable design and dimensions shown on drawing 4-4-92. The cap may be made from any type brass.

3.6.1.4.3 Washers, button.- Button washers, when specified (see 6.2), shall be nickel plated, yellow brass conforming to the applicable design and dimensions shown on drawing 4-4-92.

3.6.1.4.4 Links.- Links for connecting matched pairs of uniform buttons, when required (see 6.2), shall be either chain or pin type as specified. The pin type link shall be furnished detached.

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3.6.1.4.5 Link, chain.- The chain link shall consist of six links conforming to the applicable design and dimensions shown on drawing 4-4-92, and formed from red brass specified in 3.3.1. The links shall not be soldered but shall be given a hot nickel plating after which a 24 karat gold electroplated finish (english finish) shall be applied. The breaking strength of the chain shall be not less than 15 pounds and shall not deform or break when tested as specified in 4.4.4.

3.6.1.4.6 Link, pin.- The pin link shall be made from any type brass round wire with a 24 karat gold plated finish and shall conform to the applicable design and dimensions shown on drawing 4-4-92.

3.6.2 Type II (Cap buttons).- Unless otherwise specified (see 6.2), all cap buttons shall be furnished with a screw tube.

3.6.2.1 Shells and liners.- The shells and when applicable the liners shall be as specified in 3.6.1.1.

3.6.2.2 Backs, screwpost and screw tube.- Backs shall be made from low brass specified in 3.3.1, and the thickness of the back shall be as specified on drawing 4-4-92. The screw post and screw tube shall be made from free cutting brass specified in 3.3.1, and shall conform to the details and dimensions shown on drawing 4-4-92. Except for style 3 (Marine Corps) buttons all type II buttons shall have a regular back. Style 3 buttons shall have a depressed back.

3.6.2.3 Assembly.- Type II button shall be assembled as specified in 3.6.1.3, except the shank positioning requirements shall not apply. Screwposts shall be centered on and soldered or swedged to the back of the button.

3.6.3 Type III buttons.- Cuff link buttons shall be made from nickel silver specified in 3.3.1, and shall conform to the details and dimensions on drawing 4-4-92.

3.7 Finish.-

3.7.1 Plating.-

3.7.1.1 Gold and silver plating.- Gold and silver plating shall be electrodeposited using gold specified in 3.3.2 or silver specified in 3.3.3, as applicable. Plating shall be uniform and

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continuous over the entire plated surface. Except for the type III buttons, when gold plating is required, only the face of the shell, and when applicable the face of the liner shall be plated. All surfaces of the type III buttons and the shells of the silver plated button shall be plated. When tested as specified in 4.4.5, the average quantity of gold or silver on the button sample unit tested shall be not less than the amount specified in table III. In addition, no one dozen buttons shall contain less than 90 percent of the quantity of gold or silver specified in table III, when tested as specified in 4.4.5. Except as otherwise specified (see 3.6.1.4.5), the use of a white metal under plating shall not be permitted for gold plated items.

Table III Weight of gold or silver (grains) per dozen buttons.-

Ligne size	Air Force Silver	Marine Corps Gold	Navy		Coast Guard Auxiliary		Solid Design Gold	Army		Corps of Engineers Gold	JROTC Go
			Gold	Silver	Silver	Gold		Pierced Design Gold	Gold		
20	6.0	--	--	--	--	--	1.0	--	--	--	--
20 <u>1/</u>	20.0	--	--	--	--	--	--	--	--	--	--
22	--	1.0	--	--	--	--	--	--	--	--	--
22-1/2 <u>4/</u>	--	--	1.0	10.0	6	2.0	--	--	--	--	--
25 <u>2/</u>	--	--	--	--	--	--	--	1.5	1.5	--	--
25	12.0	--	--	--	--	--	1.0	--	--	0.5	--
25 <u>3/</u>	--	--	--	--	--	--	--	0.5	0.5	--	--
27	--	1.5	--	--	--	--	--	--	--	--	--
28	--	--	1.25	--	8	2.5	--	--	--	--	--
30 <u>2/</u>	--	--	--	--	--	--	--	2.25	2.25	--	--
30	18.0	--	--	--	--	--	1.5	--	--	0.75	--
30 <u>3/</u>	--	--	--	--	--	--	--	0.75	0.75	--	--
35	--	--	2.0	24.0	12	4.0	--	--	--	--	--
36 <u>2/</u>	--	--	--	--	--	--	--	3.0	3.0	--	--
36	24.0	--	--	--	--	--	2.0	--	--	1.0	--
36 <u>3/</u>	--	--	--	--	--	--	--	1.0	1.0	--	--
40	--	3.25	2.5	30.0	--	5.0	--	--	--	--	--
45	36.0	--	--	--	--	--	--	--	--	--	--

1/ Cuff link button

2/ Pierced design shell

3/ Pierced design liner

4/ When the button is to be procured for use on the service cap frame or shoulder mark, the gold content specified shall not apply however the button front and rim shall be 24 karat gold electroplated.

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3.7.1.2 Nickel plating.-

3.7.1.2.1 Buttons.- Buttons shall be bright nickel plated. plating shall be a minimum of 0.0001 inch thick and shall be continuous over the plated surface.

3.7.1.2.2 Washers, link and toggles.- Washers, links and toggles (split pin, ring or bodkin) shall be bright nickel plated. The plating shall be a minimum of 0.0002 inch thick and shall be continuous over the plated surface.

3.7.2 Lacquering.- Except for enameled and nickel plated buttons, the front of all buttons shall be lacquered using lacquer specified in 3.3.6. The lacquer shall be baked for a period of not less than 1/2 hour at 300°F and shall be hard, level, continuous adherent and free from dust or other foreign inclusions. When tested as specified in 4.4.6.1, there shall be no change in appearance except for a slight yellowing around the highlights. When tested as specified in 4.4.7, the lacquer shall not flake or peel.

3.7.3 Enameling.- When required, enameling shall be accomplished using enamel specified in 3.3.5. The baked enamel shall be hard, level, continuous adherent, uniform in color and free from dust or other foreign inclusions. When tested as specified in 4.4.7, the enamel shall not flake or peel.

3.7.4 Individual finish and color requirements.- The color finish of the buttons shall match the color and finish of the applicable standard or approved sample. The details of the finish shall be specified in table IV.

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Table IV Finish.-

BUTTON	FINISH
Type I:	
Style 1	-- Silver plated, oxidized relieved satin finish and a mirror-like burnished rim.
Style 2:	
classes A, B, C & D	-- Gold plated, matte finish with polished highlights and a mirror-like burnished rim.
class E	-- Bright nickel plated with a mirror-like burnished rim.
Style 3,	
class A	-- Gold plated, polished finish and a mirror-like burnished rim.
Style 4:	
class A	-- Gold plated, matte finish with polished highlights and a mirror-like burnished rim.
class B	-- Bronze, oxidized, relieved satin finish.
class C	-- Silver plated, oxidized relieved satin finish and a mirror-like burnished rim.
Style 5:	
class A	-- Gold plated, matte finish with polished highlights and a mirror-like burnished rim.
class B	-- Bronze, oxidized, relieved satin finish.
Type II:	
Style 1	-- Silver plated, oxidized relieved satin finish and a mirror-like burnished rim.
Style 2:	
classes A, B, C & D	-- Gold plated, matte finish with polished highlights and a mirror-like burnished rim.
class E	-- Bright nickel plated with a mirror-like burnished rim.
Style 3:	
class A	-- Gold plated, matte finish with polished highlights and a mirror-like burnished rim.
class B	-- Dull black enamel finish.
Style 4:	
class A	-- Gold plated, matte finish with polished highlights and a mirror-like burnished rim.
class B	-- Bronze, oxidized, relieved satin finish.
class C	-- Silver plated, oxidized relieved satin finish and a mirror-like burnished rim.
Style 5:	
class A	-- Gold plated, matte finish with polished highlights and a mirror-like burnished rim.
class B	-- Bronze, oxidized, relieved satin finish.
Style 6	-- Silver plated, matte finish with polished highlights and a mirror-like burnished rim.
Type III	-- Silver plated, oxidized relieved satin finish and a burnished rim.

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3.8 Marking.- The contractor shall stamp his trade-mark or other identifying marks legibly on the back of each button. The height of the mark shall not exceed 1/16 inch.

3.9 Workmanship.- Buttons shall be clean, well made and shall meet the acceptable quality levels established by this specification. The button shall be free from burrs, fins, cracks, sharp or ragged edges and any defect which will affect appearance or serviceability.

4. QUALITY ASSURANCE PROVISIONS

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

4.2 First article inspection.- When a first article is required, testing shall be made on a completely fabricated button for all provisions of this specification applicable to the end product examinations and tests.

4.3 Sampling for inspection and acceptance.- Sampling for inspection and acceptance shall be in accordance with MIL-STD-105, except where otherwise indicated.

4.3.1 Inspection of components.-

4.3.1.1 Testing of components.- In addition to the quality assurance provisions of the subsidiary specifications and standards, inspection shall be performed on components and materials listed in Table V for test characteristics shown. The inspection level shall be S-1. The requirements are applicable to the lot average.

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Table V Components testing.-

Components and lots expressed in terms of	Characteristic	Rqm't para	Test method	#determ s/u	Results reported as	Sample Unit
Copper base alloy, as applicable	Chemical composition	3.3.1	4.4.1	2 com- posite	Nearest 0.1% ea.	4 ozs. of material for ea alloy or equal

4.3.1.2 Certification of compliance.- Materials listed below may be accepted on the basis of a contractor's certification of compliance for requirements specified in the applicable paragraphs of this specification.

Component	Characteristic	Rqm't para.
Gold for plating	Karat	3.3.2
Silver for plating	Fineness	3.3.3
Solder	Material identification	3.3.4
Enamel (organic)	Material identification	3.3.5
Lacquer	Material identification	3.3.6
Shell back and liners	Thickness	3.6.1
Split pin or ring type toggles	Material identification and type of coating	3.6.1.4.1
Bodkin toggle	Temper of wire and material identification of cap	3.6.1.4.2
Pin link	Material and finish identification	3.6.1.4.6

4.3.2 In-process inspection.- Inspection shall be made at any point or during any phase of the manufacturing process to determine whether operation or assemblies are as specified. The Government reserves the right to exclude from consideration for acceptance any material or service for which in-process inspection has indicated nonconformance. In-process inspection shall be conducted to see that accomplishment of the following is in accordance with the specification requirements.

Requirement, operation or assembly	Characteristics	Rqm't para
Gold plating	white metal underplating	3.7.1.1

4.3.3 Inspection of the end item.-

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4.3.3.1 Visual examination of buttons.- Examination shall be made at a distance of approximately 16 to 18 inches. The defects found during examination shall be classified in accordance with 4.3.3.1.1, 4.3.3.1.2 and 4.3.3.1.3. The lots shall be inspected in accordance with 4.3.3.1.4. The unit of product for the examinations in 4.3.3.1.1, 4.3.3.1.2 and 4.3.3.1.3, shall be one completely fabricated button and one toggle, split pin, ring, chain link, pin type link, washer and screw tube, as applicable.

4.3.3.1.1 Examination of buttons for defects in finish, design, material, construction, workmanship and markings.- Defects designated by an asterisk (*) shall be classified as major when seriously affecting appearance or serviceability and minor when affecting appearance or serviceability but not seriously.

Table VI Classification of defects.-

Examine	Defects	Classification		
		Major (*)	Minor	
Color and finish	Not as specified.....	x		
	Does not compare favorably with standard or approved sample....	x		
Button front	Any plated area broken, cut-through, peeled or blistered...	x	-	-
	Discoloration, stain or speck....	-	*	-
Lacquer	Missing when required.....	x	-	-
	Hazy, cloudy or powdering.....	-	-	x
	Foreign matter imbedded.....	-	-	x
	Not smooth, not uniform, not continuous or not adherent, i.e. flaking, blistering, peeling or has runs, sags, or drops.....	-	*	-
Enamel	Missing.....	x	-	
	Not adherent.....	x	-	
	Burnt.....	-	*	
	Bubbles, pits or cracks.....	-	*	
	Inclusion of foreign matter.....	-	*	
	Stained or darkened.....	-	*	
Design	Detail altered, does not conform to Government hub or standard sample.....	x		
	Warp, twist or distortion producing irregular surface contour or outlined.....	x		

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	Any significant detail obliterated	x	
	Any significant detail reduced, i.e., does not compare favorably with approved sample.....		*
	Evidence that grooved lines per inch of liners is not within specified tolerance (measure when in doubt).....		x
	Not type, style, class, subclass or size specified.....	x	
Metal	Surface spotted or open grained, i.e., appearing as pitted, porous or crystalized.....	x	
Piercing	Not pierced where specified.....	x	
	Edges not clean cut and smooth; not free from burrs, drag, step and rough edges.....	-	*
Assembly of pierced design button	Liner not positioned properly, i.e., parallel lines off horizontal more than 5 degrees, for buttons larger than 25 ligne and more than 10 degrees for buttons 25 ligne or less....	x	
	Liner not fitted against back of design on shell within specified tolerance.....		*
Workmanship	Metal mark, such as, dig, dent or scratch on polished surface or in background, noticeable at 16 inches.....	-	*
	Pinhole, crack or rupture.....	x	
	Solder spatter on front.....	x	
Assembly	Sharp edge, burr or fin appearing on front, edge or back of button		*
	Rolled edge not flush with back by more than 1/32 inch at any point.....		x
	Looseness, i.e., shell edge not closed in, securely clinching the back.....	x	-
	Edge cracked or split.....	x	-
Shank	Missing, out of position, or is not type specified.....	x	
	Eye of hopper back not formed as required.....		*

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	Bent, loose, deformed or otherwise impaired.....		*	
	Solder spatter on back exceeding 1/8 inch in maximum dimension...			X
	Sharp edge, fin or burr in eye of hopper back.....		*	
	Eye of shank improperly positioned by more than 10 degrees.....	-	*	
Threaded post	Missing.....	X		
	Bent, loose, deformed or otherwise impaired.....		*	
	Thread stripped, flattened or damaged.....	X		
	Not as specified.....	-		X
	Solder spatter on back exceeding 1/8 inch in maximum dimension...		-	X
Link; pin, chain and cuff	Deformed, twisted, bent or otherwise damaged.....	-	*	
	Not specified type.....	X		
	Missing.....	X		
	Not attached to button (except pin type link).....	-	-	X
	Sharp edge, fin or burr.....	-	*	
Toggles, bodkin	Toggle or cap missing.....	X	-	-
	Not type specified.....	-	-	X
	Cap loose.....	-	*	
	Deformed, bent, twisted or otherwise damaged.....	-	*	
	Sharp edge, fin burr.....	-	*	-
	Not attached to button.....	-	-	X
Marking	Missing or not as specified.....	-	-	X
	Illegible or misspelled.....	-	-	X
	Misplaced or incorrect size.....	-	-	X

4.3.3.1.2 Visual examination of unattached components (toggles, split pin or ring, chain link, pin type link, washer, button and screw tubes, as applicable.- The components which are not attached to the buttons shall be examined in accordance with the classification of defects shown in table VI and table VII.

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	Bent, loose, deformed or otherwise impaired.....	-	*	
	Solder spatter on back exceeding 1/8 inch in maximum dimension...			X
	Sharp edge, fin or burr in eye of hopper back.....		*	
	Eye of shank improperly positioned by more than 10 degrees.....	-	*	
Threaded post	Missing.....	X		
	Bent, loose, deformed or otherwise impaired.....		*	
	Thread stripped, flattened or damaged.....	X		
	Not as specified.....	-		X
	Solder spatter on back exceeding 1/8 inch in maximum dimension...		-	X
Link; pin, chain and cuff	Deformed, twisted, bent or otherwise damaged.....	-	*	
	Not specified type.....	X		
	Missing.....	X		
	Not attached to button (except pin type link).....	-	-	X
	Sharp edge, fin or burr.....	-	*	
Toggles, bodkin	Toggle or cap missing.....	X	-	-
	Not type specified.....	-	-	X
	Cap loose.....	-	*	
	Deformed, bent, twisted or otherwise damaged.....	-	*	
	Sharp edge, fin burr.....	-	*	-
	Not attached to button.....	-	-	X
Marking	Missing or not as specified.....	-	-	X
	Illegible or misspelled.....	-	-	X
	Misplaced or incorrect size.....	-	-	X

4.3.3.1.2 Visual examination of unattached components (toggles, split pin or ring, chain link, pin type link, washer, button and screw tubes, as applicable.- The components which are not attached to the buttons shall be examined in accordance with the classification of defects shown in table VI and table VII.

Table VII Classification of unattached components.-

Examine	Defects
Screw tube	Threads stripped, flattened or damaged. Not type specified. Opening obstructed, will not pass threaded post of corresponding size. Bent, damaged or deformed affecting service-ability.
Washer, button Toggles, split pin or ring, type link	Bent, damaged or defective affecting service-ability. Deformed, bent twisted or otherwise damaged. Not type specified. Sharp edge, burr or sliver. Loose fit to shank, i.e., may become detached in use. Attached to button.

4.3.3.1.3 Examinations of buttons and components for defects in dimensions.- Any dimension that is not within the specified tolerance shall be classified a defect.

4.3.3.1.4 Inspection levels and acceptable quality levels (AQL's).- The inspection levels and AQL's expressed in defects per hundred units shall be as follows:

	Inspection level	AQL's	
		Major	Minor
For defects applicable to 4.3.3.1.1	II	2.5	10.0
For defects applicable to 4.3.3.1.2	S-3	(one class)	2.5
For defects applicable to 4.3.3.1.3	S-2	(one class)	4.0

4.3.4 End item testing.- Testing of the completely fabricated button shall be performed in accordance with table VIII for the characteristics shown therein. The inspection level shall be S-1, the AQL shall be 6.5 defects per hundred units and the number of determinations per sample unit shall be one.

Table VIII Testing of the end item.-

Characteristic	Rqm't para	Test method	Rqm't appl to Indi-vid-ual unit	Lot aver-age	Sample unit	Results reported as
Assembly: Hopper back	3.6.1.3.3	4.4.8	x	-	1 but- ton	Pass or fail
Toggles, split pin or ring resistance to salt spray	3.6.1.4.1	4.4.3	x	-	3 ea.	Pass or fail
Link chain, ten- sile strength	3.6.1.4.5	4.4.4	x	-	1	Pass or fail
Plating: Silver plating	3.7.1.1 & table III	Std comm'l 4.4.5.2 (in case of dispute)	x -	- x	12 but- tons	Nearest 0.1 grain
Gold plating: Shell	3.7.1.1 & table III	Std Comm'l 4.4.5.1 (in case of dispute)	x -	- x	12 but- tons	Near- est 0.1 grain
Liner		Std Comm'l 4.4.5.1 (in case of dispute)	x	x	12 but- tons	Near- est 0.1 grain
Nickel plating: Identification	3.7.1.2.1	Std comm'l	x	-	<u>1/</u>	Pass or fail
Thickness	3.7.1.2.2	Std comm'l	x	-	<u>1/</u>	Near- est 0.00001 inch
Lacquer tests: Liver of sulfur	3.7.2	4.4.6.1	x	-	1 but- ton	Pass or fail
Soldering (shank)	3.5.1	4.4.2.1	x	-	1 but- ton	Pass or fail
Soldering or swedging (screw post)	3.5.1	4.4.2.2	x	-	1 but- ton	Pass or fail
Enamel adherence test	3.7.3	4.4.7	x	-	1 but- ton	Pass or fail

1/ Sample unit shall be one button, attachment or component.

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4.3.5 Examination for count of buttons in intermediate containers.- Buttons packaged for shipment shall be examined to determine conformance with package markings and specified quantity. The sample unit for this examination shall be one box (interior package). Any box containing less than the specified or marked quantity of buttons shall be classified as a defect. When the buttons are carded the inspection level shall be S-2 and the AQL shall be 4.0 defects per hundred units. When the buttons are bulk packed the inspection level shall be S-1 and the AQL shall be 2.5 defects per hundred units. The lot size shall be the number of intermediate containers for carded buttons and the number of unit packages for bulk packed buttons.

4.3.6 Examination of preparation for delivery.- An examination shall be made to determine that packaging, packing and marking requirements of section 5 of this specification are complied with. Defects shall be scored in accordance with the list below. The sample unit shall be one shipping container fully prepared for delivery with the exception that it need not be sealed. The lot size shall be the number of shipping containers in the end item inspection lot. The inspection level shall be S-2 and the AQL shall be 2.5 defects per hundred units.

Examine	Defect
Markings, exterior and interior	Missing, incorrect, illegible or improper size, location, sequence or method of application.
Materials	Component missing, damaged or otherwise defective, affecting serviceability.
Workmanship	Inadequate application of components such as incomplete closure of envelope and container flaps, insecure seating of fastening device, tissue wrapping incomplete, voids inadequately filled and bulging or distortion of containers.
Weight	Net weight exceeds the requirements.

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4.4 Tests.-

4.4.1 Chemical composition test.- Chemical composition shall be determined in accordance with test method 111 of FED-STD-151. Results shall be evaluated to determine compliance with the requirements in 3.3.1.

4.4.2 Tests for soldered and swedged connections.-

4.4.2.1 Tests for shank type buttons.- The shank type button, except self shank and hopper back buttons, shall be placed in an appropriate testing device so that the shank is maintained in a vertical position. A steadily increasing compression load shall be applied directly upon the upright shank until the eye is noticeably elongated. Remove the compression load and examine the joint for failure to determine conformance with 3.5.1.

4.4.2.2 Test for screw post type buttons. The screw post type button (soldered or swedge button back), shall be placed in an appropriate testing device so that the screw post is maintained in a vertical position. A steadily increasing tension load to 50 pounds shall be applied directly upon the upright post. Remove the button from testing device and examine joint to determine conformance with 3.5.1.

4.4.3 Salt spray test.- The salt spray test shall be in accordance with test method 811 of FED-STD-151, to determine conformance with 3.6.1.4.1.

4.4.4 Chain link test.- The chain shall be placed in a suitable testing device and a steadily increasing direct tension load up to 15 pounds shall be applied to the chain to determine conformance with 3.6.1.4.5.

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4.4.5 Test for gold and silver content.- Standard commercial laboratory test methods shall be used to determine gold and silver content conformance with 3.7.1. In case of gold or silver content dispute, the procedure specified in 4.4.5.1 and 4.4.5.2, as applicable shall be used.

4.4.5.1 Gold content.- Boil 12 shells or 12 liners, as applicable, with 60 ml. 1:1 nitric acid (HNO₃) in a 400 ml. beaker using a small flame or hot plate. Continue boiling until all metals, except gold, are in solution. Dilute to 200 ml. with hot water. Filter through a rapid ashless filter paper and wash several times with hot water. Take the filter paper with fold (cutting off any excess filter paper), wrap in a 2x2 inch piece of silver-free lead foil, and roll into a ball. Place cupel in a muffle furnace for one hour at 1000 degrees C. Remove from the furnace, and examine hollow for flakes of gold, impurities and discolored gold bead. If any of these conditions are noted, add additional lead shot and return cupel to the muffle furnace for one hour. Otherwise, cool the gold bead and weigh.

4.4.5.2 Silver content.- Boil 12 shells or 12 Air Force cuff link buttons, as applicable, with 60 ml. 1:1 nitric acid (HNO₃) in a 400 ml. beaker using a small flame or hot plate. Continue boiling until all metals are in solution. Dilute in volumetric flask to 1000 ml. Pipette a 200 ml. aliquot from the flask into a 400 ml. beaker. Heat to boiling and add HCL (3:100) drop-by-drop from a pipette until precipitation is complete (1 ml. of HCL solution precipitates about 0.038 grams of silver). When solution has cooled and precipitate has settled, determine whether precipitation is complete by adding a few drops of the HCL (3:100). If solution remains clear, filter on a weighed porcelain Gooch crucible. Wash the precipitate several times with HNO₃ (1:200) and finally with cold water. Protect the silver chloride precipitate from the light. Dry in an oven for not less than two hours, cool and weigh the silver chloride. The silver content shall be calculated as follows:

Quantity of silver/doz.

Buttons in grains + wt. AgCL x 15.4324 x .7526 x 5

4.4.6 Tests for lacquered buttons.-

4.4.6.1 Liver of sulfur test.- Buttons to be tested shall be immersed in a two percent by weight of dry liver of sulfur (sulfurated) and distilled water solution, at a temperature of

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100 degrees F. to 110 degrees F.; for a period of 5 minutes. The buttons shall then be removed and rinsed in warm, then cold, then hot water, after which they shall be wiped gently with an absorbent cellulose material, allowed to air dry at room temperature for a period of one hour and then examined to determine conformance with 3.7.2.

4.4.7 Adherence test.- A sharp, pointed instrument shall be drawn or wriggled around the beveled edge of the button or across a similar flat polished section, cutting through the enamel to the metal. During this test observe the enamel coating to determine conformance with 3.7.3.

4.4.8 Test for hopper backs.- Hopper back buttons shall be hand sewn to any cloth material with four double cotton threads conforming to type IA3 or IB3, 4 ply of V-T-276. The sewn button shall be twisted 180 degrees in opposite directions, five times in each direction and then examined to determine compliance with 3.6.1.3.3.

5. PREPARATION FOR DELIVERY

5.1 Packaging.- Packaging shall be level A or C, as specified (see 6.2).

5.1.1 Level A.-

5.1.1.1 Unit packaging.-

5.1.1.1.1 Uniform buttons (plated).- Except for type I, style 3 buttons uniform buttons with chain links attached, and type III buttons, two gross (288) of 20, 22-1/2, 25, 28 and 30 ligne button or one gross (144) of 35, 36, 40 and 45 ligne on one type, style, class, subclass or size only shall be bulk packed in a set-up paperboard box conforming to type I, variety 1, class A, style 4 of PPP-B-676. Closure shall be in accordance with the appendix of the box specification.

5.1.1.1.1.1 Type I, style 3 and type III buttons.- Twenty four uniform buttons with or without toggles or twenty four cap buttons of one type, style, class, subclass and size shall be evenly spaced and mounted on a white bristol board card having a minimum thickness of 0.010 inch. The buttons shall be mounted by forcing the button shank through precut holes in the bristol

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board. Before the buttons are mounted, the card shall first be covered with a sheet of white glazed paper having a minimum basis weight of 55 pounds per ream and then by a sheet of white anti-tarnish tissue paper conforming to type II, class 1 of UU-P-553. The two sheets shall be of equal size with the edges aligned and shall be of sufficient size to fold over and completely inclose the face of the buttons with an overlap of not less than 2 inches. The sheets shall extend beyond each end of the card so that after the button faces are inclosed, the extended ends can be folded over to cover the protruding shanks. At the option of the manufacturer twenty four (24) Navy or Coast Guard cap buttons shall be packaged in a suitably sized transparent polyethylene bag of 0.0015 inch thickness (+ 20 percent tolerance). The bag shall be formed with heat sealed seams that are straight, continuous and parallel to each other and the formed edges of the bag. The final closure of the bag shall be heat sealed with the seal made as close as possible to the open end. Prior to or during the heat sealing operation, all excess air within the bag shall be expelled. Twelve such packages, totaling 288 buttons, shall be packed in a set-up paperboard box conforming to type I, variety 1, class A, style 4 of PPP-B-676. Closure shall be in accordance with the appendix of the box specification.

5.1.1.1.1.2 Cuff link or uniform buttons with link chain attached.- One pair of cuff links or one pair of uniform buttons with link chain attached shall be mounted on a piece of white bristol board card not less than 0.010 inch thick. Each card shall be completely inclosed in a wrap consisting of two thicknesses of anti-tarnish tissue paper conforming to type II, class 1 of UU-P-553.

5.1.1.1.1.3 Accessories for plated buttons.- Except for Navy screw post tubes, when split pins, toggle rings, screw post tubes or link pins are required with plated buttons, 144 toggle rings, split pins or screw tubes or 72 pin links shall be placed in an end opening style kraft paper envelope. The envelope shall be made from 60 pound minimum basis weight kraft paper and shall be securely sealed and placed within the applicable intermediate container before closure is effected. For Navy screw post tubes, 24 tubes shall be packaged in a suitable sized transparent polyethylene bag of 0.0015 inch thickness (+ 20 percent tolerance). The bag shall be formed with heat sealed seams that are straight, continuous and parallel to each other and the formed edges of the bag. The final closure of the bag shall be heat sealed with the seal made as close as possible to the open end. Prior to or

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during the heat sealing operation, all excess air within the bag shall be expelled. Twelve (12) such packages, totaling 288 screw post tubes, shall be placed within the applicable containers before closure is effected.

5.1.1.1.2 Unplated buttons.- Two gross (288) of unplated buttons of one type, style, class, subclass, size and shank length shall be bulk packed in a snug-fitting, set-up paperboard box conforming to type I, variety 1, class A, style 4 of PPP-B-676. Box closure shall be in accordance with the appendix of the box specification.

5.1.1.1.2.1 Accessories for unplated buttons.- When split pins, toggle rings, screw post tubes or link pins are required with unplated buttons, 288 toggle rings, split pins or screw tubes or 144 pin links shall be placed in an end opening style kraft paper envelope. The envelope shall be made from 60 pound minimum basis weight kraft paper and shall be securely sealed and placed within the applicable intermediate container before closure is effected.

5.1.1.1.3 Accessories (split pins, toggle rings, pin type links, button washers or screw tubes).- When ordering separately in bulk 1440 split pins, toggle rings or button washers or 720 pin links or 500 screw tubes shall be bulk packed in a snug-fitting paperboard box conforming to type I, variety 1, class A, style 4 of PPP-B-676. Box closure shall be accomplished in accordance with the appendix of the box specification.

5.1.1.2 Intermediate packaging.-

5.1.1.2.1 Cuff link or uniform buttons with chain link attached.- One hundred pair of cuff link or uniform buttons with chain links attached, packaged as specified in 5.1.1.1.1.2, shall be packaged in a snug-fitting set-up paperboard box conforming to type I, variety 1, class A, style 4 of PPP-B-676. Box closure shall be in accordance with the appendix of the box specification.

5.1.2 Level C.- Buttons and accessories shall be packaged to afford adequate protection against deterioration and damage during shipment from the supply source to the first receiving station. The supplier's commercial method may be used, provided it meets these requirements.

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5.2 Packing.- Packing shall be level A, B or C, as specified (see 6.2).

5.2.1 Level A.- Buttons of one type, style, class, subclass, size and shank length or back packaged as specified in 5.1.1, shall be packed in a snug-fitting fiberboard shipping container conforming to class weather resistant, V3s or V3c of PPP-B-636. Closure shall be in accordance with the appendix of the applicable container specification. The quantity of buttons per shipping container shall be as specified in table IX.

5.2.2 Level B.- Buttons of one type, style, class, subclass, size and shank length or back, packaged as specified in 5.1.1, shall be packed in a snug-fitting fiberboard box conforming to class Domestic, grade 275 of PPP-B-636. Closure shall be in accordance with the appendix of the container specification. The quantity of buttons per shipping container shall be in accordance with table IX.

Table IX Number of buttons per shipping container.-

	Size	#buttons per ship- ping container	Type of unit pack- aging	Gross per shipping container
Style 1 - Air Force				
Hopper back.....	25	13,824	Bulk	96
Hopper back.....	36	6,048	Bulk	42
Short shank.....	36	6,048	Bulk	42
Short shank.....	25	13,824	Bulk	96
Regular shank.....	36	6,048	Bulk	42
Screw post, cap.....	25	5,184	Carded	36
Regular shank.....	45	3,168	Bulk	22
Style 2 - Army (Pierced & solid) and Corps of Engineers				
Short shank.....	36	6,048	Bulk	42
Short shank.....	30	13,824	Bulk	96
Short shank.....	25	13,824	Bulk	96
Hopper back.....	36	6,048	Bulk	42
Hopper back.....	30	13,824	Bulk	96
Regular shank w/toggle.....	30	13,824	Bulk	96
Hopper back.....	25	13,824	Bulk	96

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	Size	#buttons per ship- ping container	Type of unit pack- aging	Gross per shipping container
Screw post, cap.....	25	5,184	Carded	36
Style 2 - Army, JROTC Division				
Regular shank	36	6,912	Bulk	48
Short shank.....	25	17,280	Bulk	120
Hopper back.....	36	6,912	Bulk	48
Hopper back.....	25	17,280	Bulk	120
Hopper back.....	30	13,824	Bulk	96
Style 3 - Marine Corps				
Regular shank.....	40	2,880	Carded	20
Regular shank.....	27	8,640	Carded	60
Screw post, cap.....	27	8,640	Carded	60
Styles 4, and 5, and 6- Navy, Coast Guard, and Coast Guard Auxiliary				
Regular or short shank.....	40	4,032	Bulk	28
Hopper back.....	35	6,048	Bulk	42
Hopper back.....	22-1/2	13,824	Bulk	96
Hopper back.....	40	4,032	Bulk	28
Screw post, cap.....	22-1/2	5,184	Carded or bagged	36

5.2.3 Level C.- Buttons packaged as specified in 5.1, shall be packed in such a manner to insure carrier acceptance and safe delivery at destination at the lowest transportation rates available for such supplies. Shipping containers shall be in accordance with the rules and regulations of carriers applicable to the mode of transportation.

5.3 Marking.- In addition to any special marking required by the contractor or order, unit packages, interior packages and shipping containers shall be marked in accordance with MIL-STD-129.

5.3.1 Polyethylene bagged packages.- Polyethylene bagged packages shall have the required information legibly printed or

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stamped in black directly on the bag across the center face or on a white paper label inserted within the bag, so as to permit ready identification. The bag or label shall indicate the following information:

STOCK NUMBER
NOMENCLATURE
SIZE
QUANTITY

6. NOTES

6.1 Intended use.— The buttons covered by this specification are intended to be worn on certain uniforms of the United States Military Services.

6.2 Ordering data.— Purchasers should exercise any desired options offered herein, and procurement documents should specify the following:

- (a) Title, number and date of this specification.
- (b) Type, style, class, subclass (when applicable) and size of button required (see 1.2).
- (c) When standard samples will not be furnished (see 3.1).
- (d) When first articles are required (see 3.2).
- (e) When a Government hub will not be furnished (see 3.4).
- (f) When the contractor is required to furnish his dies to the Government upon completion of the contract (see 3.4.1).
- (g) The type of back and when applicable the length of shank required (see 3.6.1.2).
- (h) The type of attaching device required, when applicable (see 3.6.1.4).
- (i) When a screw tube will not be required with cap buttons (see 3.6.2).
- (j) Selection of applicable levels of packaging and packing (see 5.1 and 5.2).

6.2.1 Contract data requirements.— Data conforming to Department of Defense Data Item Descriptions DI-R-4803, DI-R-4805, DI-T-4901, DI-T-4902, DI-T-4903 and DI-T-4904 will usually be required for delivery in connection with this specification for Marine Corps procurements. For other than Marine Corps procurement, the cognizant procuring activity will provide comparable

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Data Item Descriptions. When so required, such data will be specified for delivery on a DD-1423 included in the contract.

6.3 Coast Guard.- The Coast Guard and Coast Guard Auxiliary standard samples (see 3.1) may be obtained by addressing the following: Commanding Officer, U.S. Coast Guard Supply Center (Attn: Code 310), 830 Third Avenue, Brooklyn, New York 11232.

6.4 Army gold plated (20 ligne) solid design button.- Standard samples of the Army gold plated (20 ligne) solid design button may be obtained by addressing the following: Director, The Institute of Heraldry, US Army, Attn: DAAG-HDT, Cameron Station, Alexandria, VA 22314.

6.5 Hopper back button.- Army and Air Force hopper back buttons have been designed as sew-on type only and will replace the long, regular and shortshank as the standard. These buttons are not to be used with toggles, bodkins or rings. The Navy hopper back button is designed to be both a sew-on type and a bodkin secure type, where applicable.

6.6 Army standard button.- The standard button for the Army will be a solid design button. Pierced design buttons with the various backs may be sold commercially but will not be Government procured. The Army Class E buttons are restricted to use by the U.S. Army Band and Cerimonial units of the 3rd Infantry.

Custodians:

Army - IH
Air Force - 11
Navy - SA

Review Activities:

Air Force - 99, 45
Navy - SA,MC
DLA - CT

User Activities:

Navy - CG

Preparing Activity:

The Institute of Heraldry,
United States Army

Project No. 8455-0304

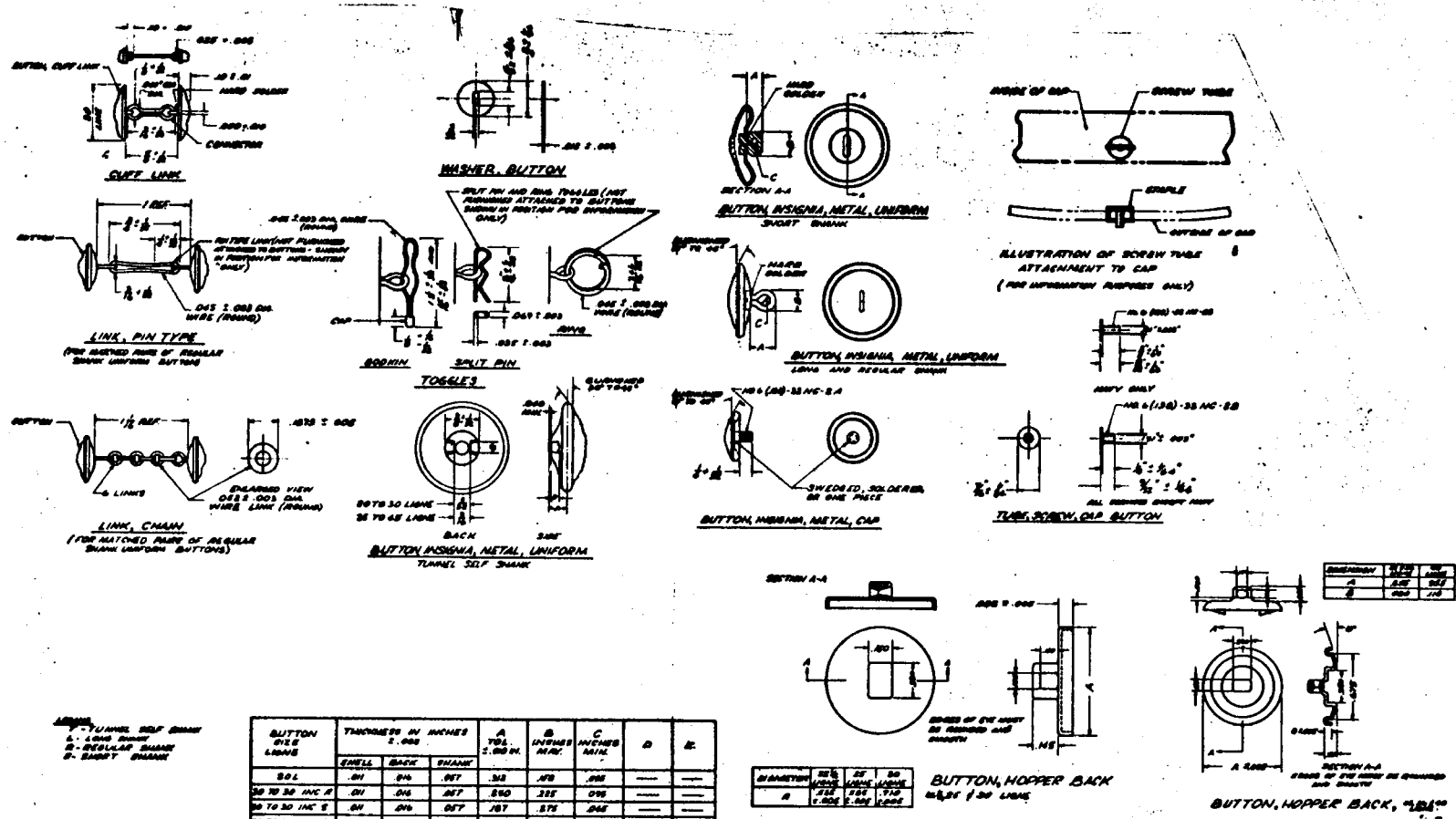


FIGURE 1

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LEGEND
 1 - TUNNEL SELF SHANK
 A - LONG SHANK
 B - REGULAR SHANK
 C - SHORT SHANK

BUTTON SIZE LINKS	THICKNESS IN INCHES ± .002			A INCHES ± .002 IN.	B INCHES MIN.	C INCHES MAX.	D	E
	SMALL	BACK	SHANK					
30 L	.01	.016	.027	.343	.173	.095	---	---
30 TO 30 INC A	.01	.016	.027	.250	.225	.095	---	---
30 TO 30 INC B	.01	.016	.027	.187	.275	.045	---	---
30 TO 30 INC T	.01	.016	---	.250	---	---	.225	.225
35-36 R	.016	.020	.072	.240	.243	.129	---	---
35-36 S	.016	.020	.072	.210	.200	.045	---	---
35-36 T	.016	.020	---	.220	---	---	.090	.185
40-45 R	.020	.025	.075	.240	.243	.075	---	---
40-45 S	.020	.025	.075	.210	.240	.045	---	---
40-45 T	.020	.025	---	.240	---	---	.090	.185

DRY METAL FINISHES	32 LIGHT	32 LIGHT	32 LIGHT
	.001	.001	.001
	.001	.001	.001

NOTE: TOLERANCE OF ± .010 FOR HOPPER BACK BUTTONS IS APPLICABLE TO GENERAL "EYE" DIMENSIONS.

DIAMETER	NO. OF LINKS	NO. OF LINKS	NO. OF LINKS
A	1	2	3

UNLESS OTHERWISE SPECIFIED TOLERANCES FOR HOPPER BACK: F. 0.10

BUTTONS, INSIGNIA, METAL, UNIFORM & CAP

This is a miniature copy of THE INSTITUTE OF HERALDRY Drawing No. 4-4-92 revision dated 6 MAY 1977. This copy is for information only. The dwg referenced in para 2.1 governs.

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AIR FORCE



MARINE CORPS



COAST GUARD



NAVY

FIGURE 2 - Buttons, Insignia, Metal, and Cap; Air Force, Marine Corps, Coast Guard and Navy

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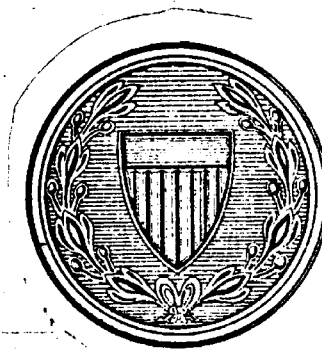


ARMY



PIERCED

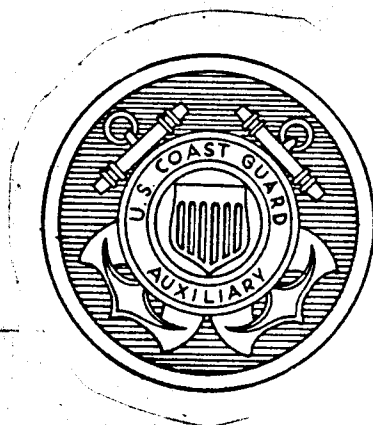
CORPS OF ENGINEERS
ARMY



JROTC DIVISION
ARMY

FIGURE 3 - Buttons, Insignia,
Metal, Uniform and
Cap; Army

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US COAST GUARD
AUXILIARY

FIGURE 4 - Buttons, Insignia, Metal,
Uniform; Coast Guard Auxiliary

STANDARDIZATION DOCUMENT IMPROVEMENT PROPOSAL

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DOCUMENT IDENTIFIER (Number) AND TITLE

MIL-B-3461G Button, Insignia, Metal, Uniform and Cap

NAME OF ORGANIZATION AND ADDRESS OF SUBMITTER

VENDOR USER MANUFACTURER

1. HAS ANY PART OF THE DOCUMENT CREATED PROBLEMS OR REQUIRED INTERPRETATION IN PROCUREMENT USE? IS ANY PART OF IT TOO RIGID, RESTRICTIVE, LOOSE OR AMBIGUOUS? PLEASE EXPLAIN BELOW.

A. GIVE PARAGRAPH NUMBER AND WORDING

B. RECOMMENDED WORDING CHANGE

C. REASON FOR RECOMMENDED CHANGE(S)

2. REMARKS

SUBMITTED BY (Printed or typed name and address - Optional)

TELEPHONE NO.

DATE

DD FORM 1426
1 OCT 76

EDITION OF 1 JAN 72 WILL BE USED UNTIL EXHAUSTED.