MIL-C-44077B

3 November 1988

SUPERSEDING
MIL-C-44077A

11 December 1985

MILITARY SPECIFICATION

COVERALLS, COMBAT VEHICLE CREWMEN'S

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

1. SCOPE

- 1.1 Scope. This document covers requirements for coveralls made of fireesistant material.
- 1.2 Classification. The coveralls shall be of one type in the following izes (see 6.2).

Schedule of sizes

Short	Regular	Long
X-Small	X-Small	X-Small
Small	Small	Small
Medium	Medium	Medium
Large	Large	Large
X-Large	X-Large	X - Large

Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this document should be addressed to: U.S. Army Natick Research, Development, and Engineering Center, Natick, MA 01760-5014 by using the self-addressed Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.

AMSC N/A FSC 8415

DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.

2. APPLICABLE DOCUMENTS

2.1 Government documents.

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

SPECIFICATIONS

FEDERAL

T-T-881 - Twine, Cotton, Seine
V-F-106 - Fasteners, Slide, Interlocking
JJ-W-155 - Webbing, Textile, (Cotton, Elastic)
DDD-L-20 - Label: For Clothing, Equipage, and Tentage
(General Use)
PPP-B-636 - Boxes, Shipping, Fiberboard

MILITARY

MIL-F-10884 Fasteners, Snap Fastener Tapes, Hook and Loop, Synthetic MIL-F-21840 - Loads, Unit: Preparation of Semiperishable MIL-L-35078 Subsistence Items; Clothing, Personal Equipment and Equipage; General Specification For Thread, Polyester Core, Cotton-, Rayon-, or MIL-T-43548 Polyester-Covered Thread, Aramid MIL-T-43636 Webbing, Tape, Textile, Aramid Fiber MIL-W-43685 MIL-T-43709 : - Tape, Textile Aramid MIL-T-44100 - Thread, Para-Aramid, Spun, Intermediate Modulus MIL-C-83429 - Cloth, Plain and Basket Weave, Aramid

STANDARDS

FEDERAL

FED-STD-751 - Stitches, Seams and Stitchings

MILITARY

MIL-STD-105 - Sampling Procedures and Tables for Inspection by Attributes MIL-STD-129 - Marking for Shipment and Storage MIL-STD-147 - Palletized Unit Loads

MIL-STD-731 - Quality of Wood Members for Containers and Pallets

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

2.2 Other publications. The following documents form a part of this specification to the extent specified herein. Unless otherwise specified, the issues of the documents which are DOD adopted shall be those listed in the issue of the DODISS specified in the solicitation. Unless otherwise specified, the issues of documents not listed in the DODISS shall be the issues of the nongovernment documents which are current on the date of the solicitation.

AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)

D 3951 - Standard Practice for Commercial Packaging

(Copies should be obtained from the American Society for Testing and Materials, 1916 Race Street, Philadelphia, PA 19103-1187.)

COLOR ASSOCIATION OF THE UNITED STATES, INC.

Department of Defense Standard Shades of Sewing Threads

(Copies should be obtained from the Color Association of the United States, Inc., 343 Lexington Ave., New York, NY 10016-0927.)

(Nongovernment standards and other publications are normally available from the organizations which prepare or which distribute the documents. These documents also may be available in or through libraries or other informational . services.)

2.3 Order of precedence. In the event of a conflict between the text of this specification and the references cited herein, the text of this specification shall take precedence. Nothing in this specification, however, shall supersede applicable laws and regulations unless a specific exemption has been obtained.

3. REQUIREMENTS

- 3.1 <u>Guide samples</u>. Samples, when furnished, are solely for guidance and information to the contractor (see 6.3). Variation from the document may appear in the sample, in which case the document shall govern.
- * 3.2 First article. When specified in the contract or purchase order, a sample shall be subjected to first article inspection (see 4.3, 6.2, and 6.4).

3.3 Materials.

- 3.3.1 Basic material. The basic cloth for the coveralls shall be plain weave Olive Green 106 conforming to type II, class 3 of MIL-C-83429.
- 3.3.2 Fastener tapes. The fastener tapes shall be Green 3421, 1 and 2 inch wide hook and pile tapes conforming to type I, class 2 of MIL-F-21840.
- 3.3.3 Elastic webbing. The elastic webbing shall be bleached or unbleached and shall conform to type I of JJ-W-155 in the following classes (with exceptions as indicated):
 - Class 1 (Except that the water repellent and mildew resistant treatments are not required) sleeve and leg bottoms

Class 6 - Waist tunnel

- 3.3.4 Cord. The cord beading used for welts of pocket openings and the front openings shall conform to type I, size 18 of T-T-881.
- 3.3.5 Webbing. The webbing for the retrieval strap tab, the retrieval strap, and holster loop shall conform to type II of MIL-W-43685 with the following exceptions:
 - a. The webbing for the retrieval strap shall be natural in color.
- b. The webbing for the liner snap fastener tabs may be natural in: color; however, the same color (OG 106 or natural) must be used for all of the ing the company of snap fastener tabs within a single garment.
- 3.3.6 Slide fasteners. The slide fasteners shall be brass with a black chemical finish and conform to size M of V-F-106 in the following types and styles (see operation 2 for length requirements):

Type I, style 3 - Drop seat, and sleeve and leg side openings Type I, style 7 - All pockets

Type I, style 15 - Front opening

- 3.3.6.1 Slide fastener tapes. The material for the slide fastener tapes shall be aramid, dyed to match the basic material and shall show "good" fastness to laundering. The tapes shall be of sufficient lengths to comply with respective slide fastener attachment operations. Color matching of the fastener tape under incandescent lamplight at 2300 ± 100K shall be exempt.
 - 3.3.6.2 Colorfastness. The finished tape shall show fastness to light and laundering equal to or better than the standard sample. When no standard sample is available, the tape shall show "fair" fastness to light after 20 standard fading hours, and "good" fastness to laundering.

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- * 3.3.6.3 Slide fastener thongs. The slide fastener thongs shall be 1/4-inch wide tape, Olive Green 106 conforming to MIL-T-43709. To prevent fraying, the thong tape ends shall be either seared or ultrasonically cut.
 - 3.3.7 Thread, aramid and para-aramid. The thread shall be aramid, sizes B and E conforming to MIL-T-43636. Para-aramid spun staple thread, size T-35 conforming to MIL-T-44100, may be used as an alternate to aramid sizes B and E. The color of the aramid and para-aramid threads shall be Olive Drab No. S-1, C.A. 66022, and shall show fastness to laundering equal to or better than the standard sample. When no standard sample is available, the thread shall show "good" fastness to laundering.
 - 3.3.7.1 Polyester thread. Cotton, covered polyester core thread, conforming to ticket No. 50, 2 ply of MIL-T-43548 may be used as an alternate thread for bartacking. The thread shall be dyed Olive Drab S-1, C.A. 66022, and shall show fastness to laundering equal to or better than the standard sample. When no standard sample is available, the thread shall show "good" fastness to laundering.
 - 3.3.8 Snap fasteners. The snap fasteners shall be brass, finish 2, male and female, consisting of stud and eyelet size 1 or 2 with button size 1 or 2 and socket, conforming to style 2A of MIL-F-10884, except an uncapped button may be used to attach the socket.
 - 3.3.9 <u>Labels</u>. Each coverall shall have an identification label, a size label, and instruction label, conforming to type VI of DDD-L-20. The color of the label cloth shall be Medium Green, Cable No. 70034, 70130, or 70131, and the fastness to laundering requirements of DDD-L-20 shall apply.
 - 3.3.9.1 <u>Identification label</u>. The identification label shall conform to class 1.
 - 3.3.9.2 <u>Size label</u>. The size label shall conform to class 2 and shall contain the following information for each respective size. Descriptive information shall be printed in letters and numerals not less than 10-point and as follows:

X-Small - Short	X-Small - Regular	X-Small - Long
Height: Below 67 in. Chest: Below 33 in. Stock No.	Height: From 67 to 71 in. Chest: Below 33 in. Stock No.	Height: Over 71 in. Chest: Below 33 in. Stock No.
NATO Size: 6070/7484	NATO Size: 7080/7484	NATO Size: 8090/7484

Small - Short	Small - Regular	Small - Long
Height: Below 67 in. Chest: From 33 to 37 in. Stock No. NATO Size: 6070/8494	Chest: From 33 to	Chest: From 33 to
Medium - Short	Medium - Regular	Medium - Long
Height: Below 67 in. Chest: From 37 to 41 in.	Height: From 67 to 71 in. Chest: From 37 to 41 in. Stock No.	Chest: From 37 to
Stock No. NATO Size: 6070/9404	Stock No. NATO Size: 7080/9404	Stock No. NATO Size: 8090/9404
Large- Short	Large - Regular	Large - Long
Height: Below 67 in. Chest: From 41 to 45 in. Stock No. NATO Size: 6070/0414	Chest: From 41 to 45 in. Stock No.	Chest: From 41 to
X-Large - Short.	X-Large - Regular	X-Large - Long
Height: Below 67 in.		Height: Over 71 in.

3.3.9.3 Instruction label. The instruction label shall conform to class 3 and shall contain the following information:

COVERALLS, COMBAT VEHICLE CREWMEN'S

These coveralls are of low-flammability.

No other special flame resistant treatments are required.

- 1. Wear as outer garment or as under-layer in cold climates.
- 2. Pockets are designed to accommodate operational equipment and personal effects.
- Wear liner for added insulation.
- 4. Brush snow or frost from garments before entering heated shelters.
- 5. Dry liner and coveralls separately when damp or wet.

- 6. For thorough cleaning, return to laundry unit for machine washing in accordance with established procedures. Coverall may be hand laundered; make sure that all soap is thoroughly rinsed out.
- 7. WARNING: Launder with slide fasteners and hook and pile fasteners engaged.

 Do not press hook and pile fasteners.
- 8. DO NOT STARCH. STARCH OR ANY OTHER TREATMENT THAT LEAVES A RESIDUE WILL DETERIORATE FLAME RESISTANCE.

DO NOT REMOVE THIS LABEL

- 3.3.9.4 Combination identification-instruction label. The identification label (class 1) and the instruction label (class 3) may be combined into one label. When combined, the item nomenclature shall not be repeated. The combination label shall conform to the requirements of the class 3 label.
- 3.4 <u>Design</u>. The coveralls feature a drop seat with slide fastener closure at sides and hook and pile tape at top edge, a retrieval strap (loop) located at a hook and pile closure at lower end of back yoke, and neck tab. There are nine pockets having slide fastener openings and welt pieces (two chest patch types, two front inside hanging, two thigh inside hanging, two shin inside hanging, and a left sleeve utility pocket, elastic at sleeve and leg bottoms, with slide fastener side opening, and an elastic waist tunnel).
- 3.5 Patterns. Standard patterns which provide an allowance of 1/2 inch for all double-lapped and double-stitched seams, and 3/8 inch for all other seams, unless otherwise specified, will be furnished by the Government. The Government patterns shall not be altered in any way and are to be used only as a guide for cutting the contractor's work patterns. The working patterns shall be identical to the Government patterns.
- 3.5.1 Pattern parts. The component parts shall be cut from the material specified below and in accordance with the pattern parts indicated.

TABLE I. List of pattern parts

Component	Pattern nomenclature	Cut parts
Basic material	Front	2
	Back yoke	1
	Upper back	1
	Lower back	2
	Front sleeve	2
	Back sleeve	2

TABLE I. List of pattern parts (cont'd)

Component	Pattern nomenclature	Cut parts
Basic material		
(cont'd)	Collar 1/	2
	Chest pocket	2
	Front pocket	2 2 2
	Shin pocket	2
	Ankle patch	
	Front sleeye elbow patch	2
	Back sleeve elbow patch	2 2 2
	Knee patch	, 2
	Seat patch	
	Waist tunnel	2 1
	Upper back facing	1
	Neck tab	2
	Thigh pocket	. 2
	Utility pocket	<u> </u>
	Pencil pocket upper	1
	Pencil pocket lower	1.
	Slide fastener cover	· 1
	Drop seat zipper facing	<u> </u>
	Front zipper facing	• 1 •
	Sleeve zipper facing	2.
	Retrieval strap marker, front	-
	Retrieval strap marker, back	• -

^{1/} Collar may be cut in one piece with seam allowances along back edge deducted.

^{3.6 &}lt;u>Construction</u>. The construction shall conform in all respects to the requirements specified in table II and herein. Figure 1 is furnished solely for guidance and information. Should variation from the document appear in figure 1, the document shall govern.

^{3.6.1} Stitches, seams, and stitching. All stitches, seams, and stitching shall conform to FED-STD-751. The type of seam, stitching, and stitches per inch shall be as specified in table II. Seam allowances shall be maintained with seams sewn so that no raw edges, run-offs, pleats, puckers, or open seams occur. When two or more methods of seams or stitches are given for the same operation, any one may be used. Where stitch type 401 is used, the looper (underthread) shall be on the inside of the coverall.

- * 3.6.1.1 Type 301 stitching. Ends of all stitching shall be backstitched or overstitched not less than 1/2 inch, except where ends are turned under or caught in other seams or stitching. Ends of a continuous line of stitching shall be overlapped not less than 1/2 inch except on labels where a minimum of a three stitch overlap is required. Thread tensions shall be maintained so that there will be no loose stitching resulting in loose bobbin or top thread, or excessively tight stitching resulting in puckering of the materials sewn. The lock shall be embedded in the materials sewn.
 - 3.6.1.1.1 Repairs of type 301 stitching. Repairs of type 301 stitching shall be as follows:
 - a. When thread breaks, skipped stitches, run-offs, or bobbin run-outs occur during stitching, the stitching shall be repaired by restarting the stitching a minimum of 1/2 inch back of the end of the stitching. 1/
 - b. Except for prestitching, thread breaks or two or more consecutive skipped or run-off stitches noted during inspection of the item shall be repaired by overstitching. The stitching shall start a minimum of 1/2 inch in back of the defective area, continue over the defective area and continue a minimum of 1/2 inch beyond the defective area on to the existing stitching. Loose or excessively tight stitching shall be repaired by removing the defective stitching, without damaging the materials, and restitching in the required manner. 1/
 - 1/ When making the above repairs the ends of the stitching are not required to be backstitched.
 - 3.6.1.2 Type 401, 502, and 503 stitching. Thread tension shall be maintained so that there will be no loose stitching. All repairs shall be in accordance with 3.6.1.1.1a and b. Thread tension shall be maintained so that there will be no loose or excessively tight stitching resulting in puckering of the materials sewn. Type 301 stitching may be used to repair 401 stitching.
 - 3.6.2 Bartacking. The bartacks shall measure 3/8 to 1/2 inch in length.
- * 3.7 Manufacturing operations requirements. The coverall shall be made in accordance with operation requirements specified in table II. The contractor is not required to follow the exact sequence of operations. Any additional basting or holding stitches used to facilitate manufacture are permissible provided that the thread is removed or does not show on the finished coverall.

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	TABLE II.		SEAM AND	STITCHES	1	THREAD	
J	MANUFACTURING OPERATIONS REQUIREMENTS	STITCH TYPE	STITCHING	PER	NEED! F	DOBBIN/	a ve
리	Cutting.						
a D	a. Cut the coveralls in strict accordance with the patterns furnished which show size, shape, direc-				,	:	
₹ ¥	pockets,						
. તે		: : : : : : : : : : : : : : : : : : :					
ָ		₹ . * . * .					
o o	one piece or material except waist tunnel pieces, pocket pieces, reinforcement piece at base of front	:	e e e e e e e e e e e e e e e e e e e				
O	olosure, upper back facing, front zipper facing, drop seat zipper facings, and sleeve zipper facings.						
≥ 0	which may be cut from ends. Parts cut from ends	:			 ل ه در ين		
20	hall approximate the shade of the coverall.	. —					
o H	c. Cut the welt pieces for the slide fastener open- ings (excluding front closure) from the basic		·				
E 3	material on the bias, filling, or warp direction. The welt nieces shall be 1-1/2 to 1-5/8 inches in with	-					
ב ולט מ	and shall extend the same length as the respective				- 		
מ	de l'ascener capes.	•				-	
ታ ተን	d. The cord pieces shall be cut of sufficient lengths to correspond to respective slide fastener welts.		,				
Ð	e. Cut the aramid webbing for the retrieval strap				·		
0	opening tab 3 inches + 1/4 inch in length. Cut six	. · · · · .					
⊣ «	liner snap fastener tabs 3 inches + 1/4 inch from						
3							
		,					
		-					
				<u> </u>			
1							

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	TABLE II. (cont	lt'd)		SEAM AND	STITCHES	Ī	THREAD	
ġ	MANUFACTURING OPERATIONS REQUIREMENTS	IREMENTS	STITCH	TYPE	PER	NEEDLE	0088N/	COVED
-:	Cutting. (cont'd)		1 7 1				+	
	f. Cut the slide fastener pull thongs of sufficient lengths to finish 3 inches + 1/4 inch when folded in half. To prevent fraying either ultrasonically cut sear each fastener thong tape end.	ongs of sufficient ich when folded in trasonically cut or						
	g. Cut the chest pocket loops of sufficient lengths to finish 1-1/4 to 1-1/2 inches when folded in half.	sufficient lengths in folded in half.			• •			
	h. Cut the elastic webbing in the	following lengths:						
	Sleeves	Waist tunnel				.		
	7 inches 10-1/2 inches (all sizes)	X-Small - 6 Small - 7 Medium - 8 Large - 9 X-Large - 10			•			
	i. Cut the reinforcement pieces for t closure to finish 2-3/4 inches + 1/8 i 2-1/2 inches + 1/8 inch wide tapering + 1/8 inch.	he base of nch by to 2-1/4 1		• 7 - •				
	<pre>j. Cut the hook and pile fastener following widths and lengths: Use</pre>	tape pieces in the Length				 _		
	c and pile sces for strieval trap	To correspond with marks on pattern						
	opening				•			
LATIC	14 T 1 C V E 600		7					

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Outting Court of								H1111-0-	-440[[]				
TABLE II. (cont.d) SITCH SERVAND SITCHS		COVER											
TABLE II. (cont.d) SITCH SERVAND SITCHS	READ	OBBIN/							•				
TABLE II. (cont'd) Cutting. (cont'd) Dee Width (inches) To correspond for top seat For top panel For top	TH	1	i .										
Cutting: (cont.id) Cutting: (cont.id) Dise Cutting: (cont.id) Dise Hook portion For top Geo of Hook pieces Hook pieces Hook pieces Hook portion For collar Hook pieces To correspond With marks on Pattern Hook portion For collar Hook portion For top ends For lower back For top ends For for collar Hook portion For collar Hook portion For collar Hook portion For top ends For lower back For top ends For lower back For lower back For for collar For for collar For for collar For top ends For lower back For lower back For lower back For for collar For for collar For lower back For lower back For lower back For for collar For lower back For lower back For lower back For for collar For lower back For lower	STITCHES	,											
Cutting, (cont'd) Use Wilder (inches) Length Hook portion 2 To correspond with marks on pattern Pile piece of with marks on pattern Hook portion 2 To correspond with marks on pattern Hook portion 2 To correspond with marks on pattern Hook portion 2 To correspond with marks on pattern Hook portion 2 To correspond with marks on pattern For top ends 2 To correspond with marks on pattern For top seats (2) To correspond with marks on pattern Lengths of slide fasteners (excluding tape). Breast pockets (2) To To correspond with marks on pattern Lengths of slide fasteners (excluding tape). Breast pockets (2) To To correspond with marks on pattern Lengths of slide fasteners (excluding tape). Breast pockets (2) To To correspond with marks on pattern Lengths of slide fasteners (excluding tape). Breast pockets (2) To To correspond with marks on pattern Lengths of slide fasteners (excluding tape). Breast pockets (2) To To correspond with marks on pattern Lengths of slide fasteners (excluding tape). Broad pockets (2) To To correspond with marks on pattern Lengths of slide fasteners (excluding tape). Breast pockets (2) To To correspond with marks on pattern Lengths of slide fasteners (excluding tape). Breast pockets (2) To To correspond with marks on pattern Lengths of slide fasteners (excluding tape).	SEAM AND	STITCHING							i.				
TABLE II, (cont'd) Cutting, (cont'd) Use Cutting, (cont'd) Hook portion For top Gas of Grob seat Hook pieces Hook pieces For collar Hook portion Collower back pieces Hook portion Collower back pieces Hook portion Collower back pieces Pile protion Collower back pieces Pile portion Collower back Collower back Collower back Collower back Pile portion Collower back Collower back		STITCH TYPE			, tels			ţ					
Cutting. (conting of the book portion of the bane) Hook portion of the block portion of lower pleases Pile portion of the book pleases Sieeve opes Shin pocke	(F)	MENTS		Length	To correspond with marks on pattern	To correspond	with marks on pattern	To correspond with marks on pattern	To correspond with marks on pattern	To correspond with marks on pattern	tape).	ches ches ches ches ches	
Cutting. (conting of the book portion of the bane) Hook portion of the block portion of lower pleases Pile portion of the book pleases Sieeve opes Shin pocke	TABLE II. (cont'	IRING OPERATIONS REQUIRE		Width (inches)	N.	-	٠.	•	α.	N .	asteners (exoluding	12-172 17-172 1-172 1-172 1-172 1-172 1-172	ľ
,		MANUFACTU		Use	Hook portion for top edge of drop seat	panel Pile piece	for neck tab	Hook pieces for collar	Hook portion for top ends of lower back pieces	Pile portion for drop seat	Lengths of slide f		
		9	÷	· · · ·		- ,				· · · · · · · · · · · · · · · · · · ·	ί,	 	

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STITCH STITCHES PER TYPE INCH
to the
, cd
b. Replace any part damaged during the manufacturing process by a needle chew, out, tear, or hole. (A darn or mend in seam allowance will be acceptable.)

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	TABLE II. (cont'd)		SEAW AND	STITCHES	=	THREAD	
è	MANUFACTURING OPERATIONS REQUIREMENTS	TYPE	TYPE	PER	NEEDLE	DOBBIE/	COVER
ب	Attach thongs to slide fasteners (sixteen each coverall; see operation 1.f.).						
		301 or bartack	SSa-1	10-12 28 per bartack	αд	<u>д</u> д	
	off center tolerance) in the lengthwise direction. The top end of the stitching shall finish 3/8 to 5/8 inch from the end of the metal pull tab. The bartack shall measure 1/4 to 3/8 inch in length.		<i>^</i>				
6.	Make neck tab.		,				
	a. Join plies of neck tab, leaving the end to be joined to collar, open. Turn tab and raise stitch	301 or	SSe-1(a)	10-12	ED 63	æ	
	3/16 to 1/4 inch from folded edge.		SSe-2(b)	10-12	υш	о да	<u> </u>
	b. Join pile portion of fastener tape to each side of tab (as indicated by marks on pattern) with the stitching 1/16 to 1/8 inch from edges	301	LSbj-1	10-12	m	ø	
7.	Make collar.						
	a. Position the two hook pieces of the fastener tape to the under collar (as indicated by marks on pattern)	301	LSb j-1	10-12		ф	
	and stitch on four sides.						
	2 & Z	301	LSb1-2	10-12	<u>м</u>	ρ	· · · · · · · · · · · · · · · · · · ·
	tab shall finish toward the back of collar.						
	c. Join under collar and top collar pieces along top and side edges: turn, work out moints and edges and	301 or	SSe-2(a)	10-12	М	Ф	
		301	SSe-2(b)	10-12 10-12	ым	ДД	

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	TABLE II. (cont'd)		SEAM AND	STITCHES	1	THREAD	
	71048	STITCH	STITCHING	PER	Ĺ	/HIBBOO	
٦			3/1	ECH	MEEOLE	LOOPER	COVER
<u>-</u>	Make collar. (cont'd)			•			
	Or	,					
	When collar is cut in one piece, fold collar in half lengthwise and stitch side edges, trim corners, turn, work out points and edges, and stitch 3/16 to 1/4 inch from side and top edges.						
<u> </u>	Make welt pleces (see operation 1.d.).		ŧ				
	a. Fold welt pleces in half widthwise; insert the cording at folded edges and single stitch 1/8 to 3/16 inch from folded edge.	301	SSbf-3(a)	10-12	μ	ф	
	b. Overedge stitch back raw edges of welt pieces together.	502 or 503	SSa-1	6-10	្រ	េ	
	NOTE: Welt pleces including cording may be cut in strips and placed on rolls; however, there shall be no piecing visible on the finished coveralls.				·		
6	Attach welt pieces to fastener tapes (see operation 1.c.).	٠					
	Position welt pieces to the face side of respective fastener tapes with the back edges of tape extending 1/16 to 1/8 inch beyond raw edges of welt pieces and join plies together 1/4 to 5/16 inch from back edges of tapes.	301 or 401		10-12	m	Ø	
			÷				
		, ,					

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	TARE IT (contid)		SEAM AND	STITCHES	T H	THREAD	
NO.	TIONS	STITCH	STITCHING TYPE	PER	NEEDLE	DOBBIN/ LOOPER	COVER
0	Make and attach utility and pencil pocket.						
	tener cove	. 301	LSbj-2	10-12	Þ	ធ	
	Life Corulns and the other turned edge and stitch 1/8 to 3/16 inch from folded edge. Position slide fastener on underside of cover, with edge of chain even with the folded edge of the 7/8-inch fold						
	(inner edge) and stitch tape to cover with two rows of stitching 1/4 to 5/16 inch gage with the back row 1/16 to 1/8 inch from edge of fastener tape. Bridge of slide fastener shall finish toward top of sleeve.						
	NOTE: Although only stitch type LSbj-1 is shown in FED-STD-751, LSbj-2 indicates requirements for two rows of stitching.	,					
	b. Turn under top raw edge of upper pencil pocket 1/4 inch and hem. Turn under top raw edge of lower pencil pocket 1/4 inch and hem. Both hems shall measure 1/4 ± 1/16 inch.	301	EFb-1	10-12	д	ф	
	c. Position top edge of lower pencil pocket to bottom of upper pencil pocket as indicated by marks on pattern. Turn under side and bottom edges of the combined pencil pocket and stitch to the utility	301	LSd-1	10-12	FI	· 64	
	pocket as indicated by marks on pattern 1/16 to 3/16 inch from folded edge.						
	d. Place a vertical row of stitching through the center (1/8 inch off center tolerance) of upper and lower pencil pockets. Stitching shall be through all plies, forming two compartments in each pencil pocket.	301	SSv-1	10-12	m	ф	
		,					

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	COVER								
THREAD	DOBBIN/ LOOPER		ф	ы	ស	E	ф		
F	MEEDLE		Ø	ы	E4	БД	<u>ф</u>		
STITCHES	PER		28 per bartack	10–12	10-12.	10-12	28 per bartack	-	
SEAM AND	STITCHING TYPE		1	SSa-1	ſ	LSd-1	ı		
	STITCH TYPE		Bartack	301	301	301	Bartaok		
TABLE II. (cont'd)	MANUFACTURING OPERATIONS REQUIREMENTS	Make and attach utility and pencil pocket. (cont'd)	e. Place vertical bartacks on ends of pencil pocket openings, superimposed on rows of side stitching, and center stitching of upper and lower pencil pockets and at bottom of lower pencil pocket, at sides and center making total of nine bartacks.	f. Close bottom corners of utility pocket and stitch, forming a bellows bottom. Turn and work out edges and points.	g. Turn back inner side edge of utility pocket 7/8 inch and insert cording at folded edge and stitch 1/8 to 3/16 inch from folded edge. Position free part of slide fastener tape on turned portion, with edge of slide fastener chain even with inner turned edge of pocket and stitch tape to pocket with two rows of stitching 1/4 to 5/16 inch gage with the back row 1/16 to 1/8 inch from edge of tape.	h. Position pocket on left top sleeve on marks indicated on pattern. Turn under top, bottom, and side raw edges and stitch pocket to sleeve.	i. Bartack each end of slide fastener opening with a horizontal bartack extending from slide fastener cover to pocket. Bartack shall be 1/4 + 1/8 inch from top and bottom edges of pocket.		NATICK Form 903 1 Dec 76 EDITION OF 1 OCT 76 WILL BE USED UNTIL EXHAUSTED.
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a. Position front sleeve elbow patch to front (as indicated on patch throat showerest on the inside of pleave show patch to be an about of the seam allowances to the form the seam of the form the seaw of the seam of the se					
sleeves. Substitution front sleeve elbow patch to front (as sof patch turned in, and single stitch 1/16 to linch from turned edges. Position from taleeve elbow patch to back sleeve so patch turned in, and single stitch 1/16 to linch from turned edges. Indicated on pattern) with the back top and bottom so patch turned sleeve elbow patch to back sleeve loop patch to back sleeve ludges stitch 1/16 to linch from turned edges. Join sleeve pleces at underarm with a double- 401 Join sleeve pleces at underarm with a double- 401 Join sleeve pleces at underarm with a double- 401 Join sleeve pleces at underarm with a double- 401 Join sleeve pleces at underarm with a double- 401 Join sleeve pleces at underarm with a double- 401 Join sleeve pleces at underarm with a double- 5100 Join sleeve pleces at underarm with a double- 401 Join sleeve pleces at underarm with a double- 5100 Join sleeve pleces at underarm with a double- 5100 Join sleeve pleces at underarm with a double- 5100 Join sleeve pleces at underarm with a double- 5100 Join sleeve pleces at underarm with a double- 5100 Join sleeve pleces at underarm with a double- 5100 Join sleeve pleces at underarm with a double- 5100 Join sleeve pleces at underarm with a double- 5100 Join sleeve pleces at underarm with a double- 5100 Join sleeve pleces at underarm with a double- 5100 Join sleeve pleces at underarm with a double- 5100 Join sleeve pleces at underarm with a double- 5100 Join sleeve pleces at underarm with two rows of chapes 1/8 to 3/16 inch beyond the raw edges and the rows of stitching shall be 1/16 to 1/8 inch from folde edges and position at the stitching. Join sleeve he copening with the raw edge turned as the top of the opening will the raw edge turned as the top of the opening will the raw edge turned as the top of the opening will the raw edge turned as the top of the opening will the raw edge turned to 5100 Join sleeves and the raw edge turned to 5100 Join sleeves and the raw edge turned to 5100 Join sleeves and the raw edge turne		ф	αп	д	ф
sleeves. Sostion front sleeve elbow patch to front (as act on pattern) with the fronts, top and bottom from turned edges. Topic front turned in, and single stitch 1/16 to act on pattern) with the back top and bottom from turned edges. Topic patch turned in, and single stitch 1/16 to act of patch turned in, and single stitch 1/16 to act of patch turned in, and single stitch 1/16 to act of patch turned in, and single stitch 1/16 to act of patch turned in, and single stitch 1/16 to act of patch turned in, and single stitch 1/16 to act of patch turned in, and single stitch 1/16 to act of patch turned in, and single stitch 1/16 to act of patch turned seam, forming pleats of patch turned seam, forming pleats and double-stitched seam, forming pleats floor sleeve indicated on pattern. The outside of aleeve shall be toward bottom of aleeve the front sleeve shall ap the back sleeve opening (as indicated on pattern). Slash top of side sleeve opening (as indicated on pattern). Slash top of side sleeve opening (as indicated on pattern). Slash top of side sleeve opening (as indicated on pattern). Slash top of side sleeve opening (as indicated on pattern). Slash top of side sleeve opening (as indicated on pattern). Slash top of side sleeve opening (as indicated on pattern). Slash top of side sleeve opening (as indicated on pattern). Slash top of side sleeve opening (as indicated on pattern). Slash top of side sleeve opening (as indicated on pattern). Slash top of side sleeve opening (as indicated on pattern). Slash top of side sleeve opening (as indicated on pattern). Slash top of side sleeve opening (as indicated on pattern). Slash top of side sleeve opening (as indicated on pattern). Slash top of side sleeve opening (as indicated on pattern). Slash top of side sleeve opening (as indicated on pattern). Slash top of side sleeve opening (as indicated on pattern).	Ф		<u></u> ù ы	四 函	м
sleeves. sleeves. ostion front sleeve elbow patch to front (as an allowance of patch turned in, and single stitch 1/16 to inch from turned edges. to fact turned in, and single stitch 1/16 to inch from turned edges. to patch turned in, and single stitch 1/16 to inch from turned edges. to patch turned in, and single stitch 1/16 to inch from turned edges. To patch turned in, and single stitch 1/16 to inch from turned edges. Join sleeve pieces at underarm with a double- 401 I lap the back sleeve. Join sleeve pieces at back arm with a double- 401 I lap the back sleeve. Join sleeve pieces at back arm with a double- 401 I lap the back sleeve opening (as indicated on pattern). Slash top of side sleeve opening (as indicated on ern): Slash top of side sleeve opening (as indicated on ern): stated on pattern). Slash top of side sleeve opening (as indicated on ern): turn seam allowances to inside and position of a fastener to the inside of sleeve with two rows of chapes 1/8 to 3/16 inch beyond the raw edges he seam allowances. Join slide fastener to sleeve with two rows of chapes 1/8 to 1/8 inch from folded edges of the opening with the raw edge turned and caught in the sitching shall be 1/16 to 1/8 inch from folded edges se the top of the opening with the raw edge turned and caught in the stitching shall the ray and the rows of stitching shall the seam and the rows of stitching shall the sitching with the raw edge turned and caught in the sitching with the raw edge turned and caught in the stitching with the raw edge turned and caught in the sitching.	10-12	10-12	10-12	10-12	10-12
sleeves. Obsition front sleeve elbow patch to front (as sated on pattern) with the fronts, top and bottom as of patch turned in, and single stitch 1/16 to inch from turned edges. Position back sleeve elbow patch to back sleeve inchicated on pattern) with the back top and bottom of patch turned in, and single stitch 1/16 to inch from turned edges. Join sleeve pleces at underarm with a double-and and double-stitched seam. The front sleeve inch from turned edges. Join sleeve pleces at back arm with a double-and and double-stitched seam, forming pleats of pleats shall be toward bottom of sleeve the front sleeve shall lap the back sleeve of pleats shall be toward bottom of sleeve back shall be towerd bottom of sleeve shall ap the back sleeve opening (as indicated on pattern). Slash top of side sleeve opening (as indicated on era); turn seam allowances to inside and position e fastener on the inside of sleeve with two rows of ching 1/4 to 5/16 inch gage. The first row of ching shall be 1/16 to 1/8 inch from folded edges turned and sught in the sittching shall continue sis the top of the opening with the raw edge turned and caught in the sittching.	LSd-1	LSd-1	LSc-2	LSo-2	LSb-2
sleeves. Position front sleeve elbow paterated on pattern) with the front sated on pattern) with the front sated on pattern) with the last from furned edges. Position back sleeve elbow patel inch from turned edges. Fosition back sleeve elbow patel inch from turned edges. Join sleeve pieces at underarm and and double-stitched seam, for tioned as indicated on pattern. Join sleeve pieces at back arm and and double-stitched seam, for tioned as indicated on pattern. Join sleeve pieces at back arm and and double-stitched seam, for the front sleeve shall lap the seam shall terminate at the sleeve of pleats shall be toward bott the front sleeve shall lap the seam shall terminate at the sleeve of pleats shall the inside of sleeve of tapes 1/8 to 3/16 inch bey he seam allowances. Join slide fastener to sleeve we ching 1/4 to 5/16 inch gage. The seam allowances. Join slide fastener to sleeve we will shall be 1/16 to 1/8 inch leeves, and the rows of stitching shall in the stitching.	301	301	301 or 401		301
	ront sleeve elbow patch to front (as attern) with the fronts, top and bottom turned in, and single stitch 1/16 to turned edges.	back sleeve elbow patch to back sleeve i on pattern) with the back top and bottom the turned in, and single stitch 1/16 to a turned edges.	nderarm seam.	eeve pieces at back arm with a double- double-stitched seam, forming pleats as indicated on pattern. The outside ats shall be toward bottom of sleeve nt sleeve shall lap the back sleeve. all terminate at the sleeve opening (as, n pattern). Op of side sleeve opening (as indicated on urn seam allowances to inside and position ner on the inside of sleeve with the back pes 1/8 to 3/16 inch beyond the raw edges allowances.	ide fastener to sleeve with two rows of /4 to 5/16 inch gage. The first row of shall be 1/16 to 1/8 inch from folded edges and the rows of stitching shall continue top of the opening with the raw edge turned in the stitching.
3		301 LSd-1 10-12 B	301 LSd-1 10-12 B	301 LSd-1 10-12 B 301 LSd-1 10-12 B 301 or LSa-2 10-12 B 401	301 LSd-1 10-12 B 301 or LSo-2 10-12 B 401 301 or LSo-2 10-12 B 401 E 401 E

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	COVER						
THREAD	GOBBIN/ LOOPER		μ	ф	ω	ធ	д .
1	HEEDLE		д д	æ,	м	មា	Ф
STITCHES	PER		10-12 14-28 per tack	10-12	10-12	6-10	10-12
SEAM AND	STITCHING TYPE		SSbd-1	EFb-1	SSe-2 and OSf-1	SSa-1	SS3-1
	STITCH TYPE		301 or tack	301	301	502 or 503	301
TABLE II. (cont'd)		Make sleeves. (cont'd)	g. Position elastic webbing on the inside of sleeve below hem line with the ends of webbing 3/8 to 1/2 inch from edges of side sleeve opening, and tack in position 1/4 to 3/8 inch from raw ends.	h. Turn the bottom edge 1/4 inch toward the inside of the sleeve. Then turn in bottom of sleeve (as indicated on pattern) with the top side edges 1/8 to 3/16 inch in back of back edges of slide fastener scoops, and single stitch 1/16 to 1/8 inch from turned edge. The stitching shall continue along the width of hem at ends, and the elastic webbing shall not be caught in the stitching.	i. Fold sleeve facings face to face and stitch top and bottom ends together. Turn right side, work out corners and edges, and edge stitch 1/16 to 1/8 inch from turned edge. or Fold sleeve facings in half lengthwise, turn in raw edges at ends of facings and edge stitch top, front, and bottom edges 1/16 to 1/8 inch from turned edges.	j. Overedge back raw edges of facings.	k. Position a facing behind each slide fastener on under sleeve side. Place a row of stitching through all plies, 5/8 to 11/16 inch from edge of cord. Stitching shall be through all plies and shall start from the cording of the slide fastener, go across to the edge of the facing, continue the full length of the facing, and across bottom edge.
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	COVER										
THREAD	DOBBIN/				щщ	Д	, m		<u></u> д д д	ф.	
T H	MEEDLE	1		. <u>-</u>	αμ	Ф	Д		ឃមាយ	Ф	
STITCHES	PER				10-12 28 per bartack	10-12	10-12		10-12	10-12	
SEAM AND	STITCHING				0Sf-1	EFa-1	LSbj-1		SSe-2(a) SSe-2(b)	L.Sd1	
	STITCH TYPE			,	301 Bartack	301	301		301 or 401 and 301	301	•
TABLE II. (cont'd)		Make sleeves. (cont'd)	1. Secure a stud portion of snap fastener at each bottom end of side sleeve opening (as indicated on pattern) with the stud toward the inside of sleeve.	Make yoke, attach retrieval opening tab.	a. Make tab by folding 3 inches + 1/4 inch length of aramid tape in half and stitch 1/76 to 1/8 inch from folded edge, or with a 3/8 to 1/2 inch bartack.	b. Turn in bottom raw edge of yoke and stitch 3/16 to 1/4 inch from folded edge catching retrieval opening tab in stitching. One + 1/8 inch of the tab shall extend beyond the yoke and shall be centered + 1/2 inch on the yoke.	o. Position 1 inch wide pile portion of tape to inside bottom edge, as indicated on pattern. Stitch tape to yoke with the lines of stitching 1/16 to 1/8 inch from top and bottom edges of tape.	Make upper back.	a. Position back facing to the outside bottom edge of upper back and stitch along step and side edges, turn and edge stitch 1/16 to 1/8 inch from edges.	b. Fold the liner snap fastener tab in half so that they measure 1-1/2 inches + 1/8 inch. Turn in the top edge of facing and with the out ends of the liner snap fastener tabs positioned between the facing and upper back in accordance with the pattern markings, stitch 1/16 to 1/8 inch from the turned edge. Fold	A LEST COMMENTS.
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	TABLE II. (cont'd)		SEAM AND	STITCHES	1.1	THREAD	
	MANUFACTURING OPERATIONS REQUIREMENTS	TYPE	TYPE	PER	NEEDLE	100881N/	COVER
Make upp	Make upper back, (cont'd)				L		
the tab stitche shall f measure	the tab onto the facing and stitch with a row of stitches superimposed on the previous row. The tab shall finish 1 inch to $1-1/4$ inches in length when measured from the folded edge of the facing.	•	·				
c. Tun stitch	c. Turn top raw edge of upper back to outside and stitch $3/16$ to $1/4$ inch from turned edge.	301	EFa-1	10-12	Ф	ф	
d. Pos outsid single 1/8 in	d. Position the 1 inch wide hook portion of tape to outside of top edge (as indicated on pattern) and single stitch with the lines of stitching 1/16 to 1/8 inch from top and bottom edges of tape.	301	LSbj-1	10-12	щ	щ	
e. Portabe to and sirtape.	e. Position the 2-inch wide pile portion of fastener. tape to inside bottom edge (as indicated on pattern) and single stitch 1/16 to 1/8 inch from all edges of tape.	301	SSb-1 and LSbj-1	10-12	щ	ш.	
Fint: shall	Finished appearance. The retrieval strap opening all finish in the following lengths:						_
X-Small Small Medium Large X-Large	11 (+ 1/4 to 1/2 inch) 12 (+ 1/4 to 1/2 inch) 13 (+ 1/4 to 1/2 inch) 14 (+ 1/4 to 1/2 inch) 15 (+ 1/4 to 1/2 inch)						
Lap yo patter shall ing jo stitch at eac	Lap yoke on upper edge of back piece (as indicated on pattern) and double stitch. The rows of stitching shall be in line with and overlap the rows of stitching ing joining tape to yoke with one of the rows of stitching continued across width of double stitching at each end of strap opening.	301	LSa-2	10-12	ф	m	•
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THREMENTS STITCH TYPE INCH REEDLE LOODER COVER TYPE INCH STITCH STITCH STITCH STITCH TYPE INCH REEDLE LOODER COVER TYPE INCH REEDLE LOODER COVER TYPE INCH TYPE INCH STITCH STITCH TYPE INCH TYPE T	ŧ
Sees STITCH STITCHES STITCHES TYPE INCH NEEDL TYPE INCH NEEDL TYPE INCH NEEDL 10h, 301 LSd-2 10-12 B 10h, 401 LSd-2 10-12 B 401 LSd-2 10-1	
Sees STITCH STITCHES STAM AND STITCHES FER INCH NEEDL INCH NEEDL INCH NEEDL ICH, 301 LSd-2 10-12 B ICH, 401 LSd-2 ICH, 401	
SEAM AND STITCH STITCHING TYPE TYPE TYPE TYPE TYPE TYPE TYPE TYPE	
ach, 301 301 ng. d d d d d d d d d d d d d d d d d d d	
ad de sees	
ach lower ances. edges 1/2 inch, s with _ itching folded om the seam stitching. shall ther rm) and tess and fastener. cess and fastener. cess and fastener. cess and fastener.	
Attach seat reinforcement pleces. a. Position seat reinforcement pleces to each lower back piece with the raw edges of seam allowances. b. Turn in rounded edges and the diagonal edges at the crotch areas of reinforcement pieces 1/2 inches and stitch to the plies of lower back pieces with two rows of stitching. The first row of stitching shall be located 1/16 to 1/8 inch from the folded edge and the second row 5/16 to 3/8 inch from the edge. Join seat seam. Join seat seam from crotch to top edge of lower back with double-lapped and double-stitched seam catching seat reinforcement pieces in the stitching. The edges of the seat reinforcement pieces shall be aligned, and the seat seam may lap in either direction. Make drop seat. a. Slash lower back (as indicated on pattern) and tongue notch lower ends. Turn. seam allowances and tongue notch end to inside; position slide fastener to underside of slash opening with the back edges of tapes extending 1/8 to 3/16 inch beyond raw edge of slashed seam allowance.	
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				MIL-C-44			
	COVER						
THREAD	DOBBIN/ LOOPER	æ	æ	ρ		ы	μ
TH	MEEDLE		ф	E		阳	Δ
STITCHES	PER	10-12	10-12	10-12		·8-9	10-12
SEAM AND	STITCHING TYPE	1	EFa-1	SSe-2		SSa-1	ເຄີ 1-1
	STITCH TYPE	301	301	301		502 or 503	301
(Pitaco) II Alean	REQUIREMENT	Make drop seat. (cont'd) b. Join slide fastener to lower back with 2 rows of stitching 5/16 to 3/8 inch gage. The first row of stitching shall be 1/16 to 1/8 inch from folded edges of lower back, and the rows of stitching shall continue across the bottom of opening catching the turned edge of tongue notch with the first row of	stitching. c. Turn top raw edge of drop seat panel (include top ends of fastener tapes) to outside and stitch 1/4 to 5/16 inch from folded edge.	d. Fold facings face to face and stitch top and bottom ends together. Turn to right side, work out corners and edges, and edge stitch 1/8 to 3/16 inch from turned edges.	Fold drop seat facings in half lengthwise, turn in raw edges at ends of facing and edge stitch top, front, and bottom edges 1/8 to 3/16 inch from turned edges.	e. Overedge back raw edges of facings.	f. Position one facing behind each slide fastener near side seam. Place a row of stitching, 5/8 to 11/16 inch from edge of cord. Stitching shall be through all plies and shall start from the cording of the slide fastener across to the edge of the facing, continue the full length of facing, and across bottom edge.
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	COVER							
THREAD	DOBBIN/ LOOPER		Д	£ij	φ			·
TH	NEEDLE		ф	E	m			
STITCHES	PER INCH		10-12	6–10	10-12			·
SEAM AND	STITCHING TYPE		LSbj-1	SSa-1	LSbj-1		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
	STITCH TYPE		301	502 or 503	301		, ·	
TABLE II (cont'd)		Make drop seat, (cont'd)	g. Position the hook portion of 2 inch wide fastener tape to the outside top edge of lower back (as indicated on pattern) and stitch tapes 1/16 to 1/8 inch from all edges.	h. Overedge stitch top raw ends of lower back catch- ing the ends of slide fastener tapes.	i. Position a hook portion of fastener tape to each top end of upper back piece in line with hook portion of tape on drop seat panel (slide fasteners at sides closed), and the front edge 1/2 to 5/8 inch from beaded edge of welt. Single stitch tape to back 1/16 to 1/8 inch from all edges.	j. Secure 3 stud portions of snap fasteners to top of drop seat panel (as indicated on pattern) with the stud toward the inside of coverall.	Make chest pocket openings, attach pockets and labels (see operation 31). Finished appearance. The slider portion of slide fastener shall be located on the back end of pooket opening when fastener is closed.	a. Slash pocket opening and tongue notch ends, as indicated on pattern. Turn seam allowances and tongue notched end to inside; position slide fastener to the underside of slash opening with the back edges of tapes extending 1/8 to 3/16 inch beyond raw edges of slashed seam allowance.
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TABLE II. (cont.d) SITICHE Make chest pooket openings, attach pookets and labels Where chest pooket openings, attach pookets and labels Description 310. (cont.d) Stitching Preserved to from with a row of the stitching onlined across ends of opening asked in the stitching continued across ends of opening asked in the stitching continued across ends of opening asked in the stitching continued across ends of opening asked in the stitching continued across ends of opening asked in the stitching continued across ends of opening asked in the stitching continued across ends of opening asked in the stitching continued across ends of opening asked in the stitching opening on label on pattern, and account to provide a mar top of pooket and stitching solution asked of labels. Hence the stitching of the instruction label with laft and stitch on all four sides (for 1/8 label because the top edge of the instruction label, when used, shall be positioned as indicated for the instruction label. The continued of the instruction label, the bettom row of the identification the printing. For continued on pattern) with the top and side edges For continued on pattern) with the top and side edges For continued on pattern) with the top and side edges For continued on pattern) with the top and side edges For continued on pattern) with the top and side edges For continued on pattern) with the top and side edges For continued on pattern) with the top and side edges For continued on pattern) with the top and side edges For continued on pattern) with the top and side edges For continued on pattern) with the top and side edges For continued on pattern) with the top and side edges For continued on pattern) with the top and side edges For continued on pattern) with the top and side edges For continued on pattern) with the top and side edges For continued on pattern) with the top and side edges For continued on pattern with the top and side edges For continued on pattern) with the top and side edges For continued on patt	1 1	-						
STITCH STITCHES TYPE INCH NEEDLE INCH INCH ISB INCH I			+					
STITCH STITCHES TYPE INCH NEEDLE INCH INCH ISB INCH I	READ	OBBIN/		m	ø	ω.	A	Ф
SEAM AND STITCH STITCHING TYPE TYP	TH	1	1	Д	"	м	Æ	ps,
### ##################################	STITCHES			10-12	10-12	10-12	10-12	10-12
front 13 3 3 1 1 med 2 1 may 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	SEAM AND	STITCHING TYPE		ı	LSbj-1	LSbj-1	LSbj-1	LSd-1
		STITCH TYPE		301	301	301	301	301
		MANUFACTURING OPERATIONS REQUIREMENTS		b. Join slide fastener to front with a row of stitching 1/16 to 1/8 inch from folded edge of front with the stitching continued across ends of opening catching the tongue notch. The loops for pockets shall be positioned as indicated on pattern, and caught in the line of stitching joining fastener tape	c. Center identification label on left chest pocket (as worn) with top of label near top of pocket and stitch on all four sides.		-î -	coveralls side edges 1/16 to

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HO. HARRACTORNING OPERATION GEOMETRY (1) Attach, coording and slide fastener to front opening and join crotch seams with the attching terminating allowance open. The to 3/16 inch front opening (as indicated on pattern); insert coording at folice deges with the base of front opening. Spread seam allowance open. The to 3/16 inch from toped ages of neck and extending to the noth at base of front opening. Spread seam allowance open. The to 3/16 inch from toped ages of open toped ages with the stitching probets in the line coorded front ages and the front edge of open to describe the front ages and the front edge of open to describe the first ages of the pookets in the stitching and front. The first ages to fronts 1/16 to 1/3 inch from from the pottom ages of ages and the front ages and the front edge of stitching. Both rows of stitching the obstep many ages of ages and front. The first ages to fronts 1/16 to 1/3 inch from from the pottom ages of ages of the pop of stitching and opening. The first ages of the pop of stitching across the top end, and oontine stitching across the top end.			 -				-440778		· · · · · ·		
TABLE II. (cont d) WHAUTACURHOUS OPERATIONS REQUIREMENTS TYPE TYPE Ording and salide fastener to front opening In edges at front opening (as indicated on it insert cording at folded edges with the top with top edge of neck and sarbading to the cord) In edges at front opening, and single stitch in with top edge of neck and stranding to the cord) In the opening at folded edges, should be seans with the stitching from folded edges. In ording a folded edges with the stitching from folded edges of neck and single stitch in the front opening. Spread seam of the front edges of chest pockets in the line topen. Thou the slide fastener on the inside of with the stitching shall extend front. The folder edges of chest pockets in the line topen. Thou the slide fastener tape and front, appear of front of stitching shall extend from from from from from thing shall extend from the bottom endes sitch of fastener tape and the bottom endes of crotch. Thun corner of bottom end, work out edges in the near deges of the top end, and continue is accoss the top end, and continue is accessed to force in the property of the force in the stitching access the top end, and continue is accessed to force in the force of crotch.		27.00									
TABLE II. (cont d) WHAUTACURHOUS OPERATIONS REQUIREMENTS TYPE TYPE Ording and salide fastener to front opening In edges at front opening (as indicated on it insert cording at folded edges with the top with top edge of neck and sarbading to the cord) In edges at front opening, and single stitch in with top edge of neck and stranding to the cord) In the opening at folded edges, should be seans with the stitching from folded edges. In ording a folded edges with the stitching from folded edges of neck and single stitch in the front opening. Spread seam of the front edges of chest pockets in the line topen. Thou the slide fastener on the inside of with the stitching shall extend front. The folder edges of chest pockets in the line topen. Thou the slide fastener tape and front, appear of front of stitching shall extend from from from from from thing shall extend from the bottom endes sitch of fastener tape and the bottom endes of crotch. Thun corner of bottom end, work out edges in the near deges of the top end, and continue is accoss the top end, and continue is accessed to force in the property of the force in the stitching access the top end, and continue is accessed to force in the force of crotch.	IREAD	DOBBIN/	200	ф	д	т -					
TABLE II. (cont'd) WHANUFACTURING OPERATION'S REQUIREMENTS. In crotch seams. In orotch seams. In edges at front opening (as indicated on sorotch seams) In orotch seams. In orotch seams. In orotch seams with the stitching terminating and single stitch corotch seams with the stitching terminating and store orotch seams with the stitching terminating and store of front opening. Spread seam see of front opening. Spread seam see open. In at base of front opening. Spread seam see open. In at base of front opening. Spread seam see open. In the stitching terminating and store tape and front. In at base of front opening of chest pockets in the line front edges of stitching shall extend from from first appear of fronts 1/16 to 1/2 inch from first tape and front 7/16 to 1/2 inch from first tape and front 7/16 to 1/2 inch from first tape and front 1/2 to 3/8 inch from or	-	ı		ш	ф	pp.					•
TABLE II. (cont'd) WANUFACTURING OPERATIONS REQUIREMENTS In crotch seams. In edges at front opening (as indicated on it in edges at front opening, and single stitch Is insert cording at folded edges with the top in with top edge of neck and extending to the base of front opening, and single stitch in the front folded edges. I crotch seams with the stitching terminating and speed of each open. I crotch seams with the stitching terminating in the front edges of scoops even with the rount edges of scoops even with the rount edges of scoops even with the front edges of scoops even with the front edges of scoops even with the front edges and the front edge of ohest pockets in the line rount edges and the front edge of ohest pockets in the line stapes to fronts 1/16 to 1/8 inch from first appear for fastener tape and front from first tapes and front 7/16 to 1/2 inch from first tapes and front 7/16 to 1/2 inch from first capes shall finish 1/2 to 3/8 inch from of crotch. The cord of stitching shall extended edges sitch up the folded edge; Then corner of bottom end, work out edges of the top end, and continue ages of the top end, and continue in a aross the top end, and continue in a series and stitch bottom ends stitch be edges of the top end, and continue in a series and stitch be edges of the top end, and continue in a series and series and series and continue in a series and series a	STITCHES	PER		10 – 12	10-12	10 - 12					
MANUFACTURING OPERATIONS REQUIREMENTS ording and slide fastener to front opening n crotch seams. in edges at front opening (as indicated on it insert cording at folded edges with the top in with top edge of neck and extending to the base of front opening, and single stitch in with top edge of neck and single stitch in the front opening. Spread seam se open. I crotch seams with the stitching terminating is open. I crotch seams with the stitching terminating is open. I thin the slide fastener on the inside of with the front edges of scoops even with the root edges of scoops even with the line with the front edges of scoops even with the line front astener tape and front. Appes to fronts 1/16 to 1/8 inch from back tapes and front 7/16 to 1/2 inch from first tape and front 7/16 to 1/2 inch from first stitching. Both rows of stitching shall extend tape and stitch bottom edges ner tapes shall finish 1/2 to 3/8 inch from or or or crotch. or acing face to face and stitch bottom ends is 1 und corner of bottom end, work out edges is 1 und corner of bottom end, work out edges of crotch. Turn corner of bottom end, work out edges consistent and edge stitch up the folded edge; raw edges of the top end, and continue is across the top end.	SEAM AND	STITCHING	1	SSbf-3(a (with cord)	SSa-1	SSt-2					
MANUFACTURING OPERATIONS RE ording and slide fastener. I in edges at front openir. i insert cording at folde in with top edge of neck a base of front opening, a location from folded edge re open. tion the slide fastener c with the front edges of rote open. tion the slide fastener c with the front edges of rote open. tion the slide fastener cape ar sapes to fronts 1/16 to 1, tapes and the chest tapes actohing the chest thing. Place a second rov tape and front 7/16 to 1, stitching. Both rows of s length of fastener tape ner tapes shall finish 1, of crotch. or or acing face to face and st Turn corner of bottom ners, and edge stitch up t raw edges of the top end ng across the top end.		STITCH		301	301	301	: :	;			
	TABLE II. (cont'd)	MANUFACTURING OPERATIONS REQUIREMENTS	to front	Turn in edges at front opening stern); insert cording at folded is even with top edge of neck and coh at base of front opening, and to 3/16 inch from folded edges.	b. Join crotch seams with the stitching terminating at notch at base of front opening. Spread seam allowance open.	ide fastener cront edges of and the front istener tape ar	Join tapes to fronts 1/16 to 1/8 inch from back edges of tapes catching the chest pockets in the line of stitching. Place a second row of stitching through tape and front 7/16 to 1/2 inch from first row of stitching. Both rows of stitching shall extend	the full length of fastener tape and the bottom edges of fastener tapes shall finish 1/2 to 3/8 inch from raw edge of crotch.		together. Turn corner of bottom end, work out edges and corners, and edge stitch 1/8 to 3/16 inch across the bottom; then edge stitch up the folded edge; turn in raw edges of the top end, and continue stitching across the top end.	

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	TABLE II. (cont'd)		SEAM AND	STITCHES	Ţ	THREAD	
NO.	MANUFACTURING OPERATIONS REQUIREMENTS	STITCH	STITCHING	PER	NEED! E	DOBBIN/	0 3 70
19.	Attach corand				4		
	d. Position bottom raw edge of reinforcement piece even with bottom edge of front slide fastener tape;	301	LSd-1	10-12	Φ	щ	
	turn in top and side edges of reinforcement piece, (turned edges of sides even with back edges of fastener tapes), and stitch reinforcement piece to tape at front 1/16 to 1/8 inch from folded edges.						
+	The stitching may be continued across bottom edge.	301	C To Se		ρ	ρ	
	together. Turn right side, work out edges and corners, and edge stitch 1/8 to 3/16 inch from turned edges.		and 0Sf-1	<u>.</u>	a 	9	
	O						
	tom ends tog t edges and cross the bo ge; turn in		:		<u> </u>		
	or top end, and continue stitching across the top end. f. Overedge back raw edges of facing.	- FAC COR.	0	ç	·	I	
		503	1822	0	ച	ы 	
		301	SSJ-1	10-12	м	A	
	tinue the full length of the facing and along curve of bottom edge.						
		•	-				
						·	
VI 7 1 1							

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THREAD	MIBBOO		<u>.</u>	<u>м</u>				αд		дд
1	2000	1025U		Д		m ————————————————————————————————————		<u>м</u> ы		m m
STITCHES	PER			10-12		10 - 12		10-14		10-14
SEAM AND	STITCHING			1		LSd-1		LSe-2		LSa-2
	STITCH			301		301		301 or 401		301 or 401
TABLE II. (cont'd)	MANUFACTURING OPERATIONS REQUIREMENTS	Make side opening in leg.	a. Slash side opening and tongue notch top end (as indicated on pattern); turn seam allowances and tongue notch to inside, and position slide fastener on the underside of back with the back edges of tapes 1/8 to 3/16 inch beyond the raw edges of seam allowances.	b. Join the slide fastener to leg with 2 rows of stitching 1/4 to 5/16 inch gage. The first row of stitching shall be 1/16 to 1/8 inch from folded edges of leg, and the rows of stitching shall continue across the top of opening.	Attach knee patch.	Turn in top and bottom edges of knee patch 3/8 inch (as indicated on pattern); position bottom edge to front (as indicated on pattern) and single stitch top and bottom edges 1/16 to 1/8 inch from turned edges. The stitching may be continued along outseam and inseam.	Join shoulder seam.	Join shoulder seams with double-lapped and double-stitched seams. The back shall lap the fronts.	Join outseams.	a. Lap step edge at bottom of upper back over upper ends of lower back (as indicated on pattern) and join outseams on one continuous operation with double-lapped and double-stitched seams forming leg pleats
	NO.	20.			21.		22.		- 23	

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	TABLE II. (cont'd)	10117	SEAM AND	STITCHES		THREAD		_
MANUFA	MANUFACTURING OPERATIONS REQUIREMENTS	TYPE	TYPE	MICH	HEEDLE	DOBBIN/	COVER	
Join outseams. (cont'd)	(cont'd)							-
(as indicated on pithe back. The knestiching, and the toward the bottom.	(as indicated on pattern) with the fronts lapping the back. The knee patches shall be caught in the stitching, and the outside fold of pleats shall be toward the bottom.							•
b. A bartack, placed at each opening. It stopening formed side seam and land the seam.	b. A bartack, 3/8 to 1/2 inch in length, shall be placed at each side of the flap for the drop seat opening. It shall be located at the top of the opening formed by the side edge of the flap and the side seam and positioned diagonally across the flap and the seam. The bartack shall be slanted from the upper back to the front piece.	Bartack	1	28 per bartack	<u>м</u>	μ,		
Set sleeves.							· <u> </u>	
a. Join sleeve	Join sleeve to armhole and overedge raw edges.	301 or	1 6	10-14	<u>м</u> г	μ	·	
	0.	502 or	EF d- 1	8 9	<u>ы</u> ы	n ea		
Join sleeve	and overedge simultaneously.	515 516 516	LSq-2	10 - 14	函	M		
b. Turn sleeve 3/16 to 1/4 ind	b. Turn sleeve seam toward body and raise stitch 3/16 to 1/4 inch from turned edge.	301 or 401	LSq-2(b)	10 – 14	ωы	μщ		
Make thigh pockets.	ets.		-					
Finished appearance. slide fastener shall be when fastener is closed.	parance. The slider portion of the shall be located on the back part is closed.							
a. Position s with the pocke	a. Position slide fastener to leg (face to face) with the pocket piece positioned on the inside of leg	301	LSbj-1	10-12	ф	ф		
		_					_	

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	(Fither) to Bloke		SEAM AND	STITCHES	1	HREAD	
Š,	HANUFACTURING OPERATIONS REQUIREMENTS	STITCH	STITCHING	PER	MEEDLE	DOBBIN/	8 3 4 0 0
S	Make thigh pockets. (cont'd)				1	2	
	(slash marks matching) and stitch tape through all plies the length of the slash mark.						
	b. Slash pocket opening through pocket and plies of leg (as indicated on pattern), tongue notch ends, turn fastener to inside, and join opposite edges of pocket opening to the respective tape on the inside of leg.	301	SSa-1	10-12	Ø	Œ	
	c. Turn in tongue notched ends and raise stitch leg 1/16 to 1/8 inch from turned edge at bottom of opening with the stitching continued along tongue notched ends.	301	LSq-2(b) and LSd-1	10-12	Ø	m	
	d. Pull pocket piece through opening, fold pocket in half forming bottom pleat (as indicated on pattern), and join sides. Turn pocket through opening to finished position.	301	SSa-1	10-12	m	ra,	
	e. Raise stitch leg at top of pocket opening through all plies including the pocket with the stitching 1/16 to 1/8 inch from turned edge and continuing along sides superimposed on the stitching.	301	LSq-2(b)	10-12	m	ф	
26.	f. Overedge stitch top raw edges of pockets together. Make shin pockets.	502 or 503	SSa-2	6-10	ធ	ធ	
	Finished appearance. The slider portion of the slide fastener shall be located on the back part when fastener is closed.						
	a. Position slide fastener to leg (face to face) with the pocket piece positioned on the inside of leg (slash marks matching) and stitch tape through all plies the length of the slash mark.	301	LSbj-1	10-12	EQ.	Д	

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	COVER		<u></u>				<u> </u>		
THREAD	DOBBIN/ LOOPER		to.	щ	α	·w	មា		m m
Ē	NEEDLE		ф	щ	ф	m	<u> </u>		д Ш
STITCHES	PER		10-12	10-12	10-12	10-12	6-10		10-12
SEAM AND	STITCHING TYPE		SSa-1	LSq-2(b) and . LSd-1	SSa1	LSq-2(b)	SSa-2	•	LSc-2
	STITCH TYPE		. 301	301	301	301	502 or 503		301 or
TABLE II. (cont'd)		Make shin pockets. (cont'd)	b. Slash pocket opening through pocket and plies of leg (as indicated on pattern), tongue notch ends, turn fastener to inside, and join opposite edges of pocket opening to the respective tape on the inside of leg.	o. Turn in tongue notched ends and raise stitch leg 1/16 to 1/8 inch from turned edge at bottom of opening with the stitching continued along tongue notched ends.	d. Pull pocket piece through opening, fold pocket in half forming bottom pleat (as indicated on pattern), and join sides. Turn pocket through opening to finished position.	e. Raise stitch leg at top of pocket opening through all plies including the pocket with the stitching 1/16 to 1/8 inch from turned edge and continuing along the sides superimposed on the stitching.	f. Overedge stitch top raw edges of pockets together.	Join inseams.	Join inseams in one continuous operation with a double-lapped and double-stitched seam forming pleats as indicated on pattern. The knee patches shall be caught in the stitching and the fronts shall lap the backs. The outside fold of pleats shall finish toward the bottom and the crotch and seat seams shall not be staggered more than 3/8 inch (measurement taken from center of seam).
	Š	26.						27.	_

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	TABLE II. (cont'd)		SEAM AND	STITCHES	1	THREAD	
Š	ATION	STITCH TYPE	STITCHING	PER	NEEDLE	1008BIN/	COVER
28	Attach retrieval strap.			·			
	a. Position aramid webbing retrieval strap to inside of coverall (as indicated on patterns). Leave a free	301	LSbj-1	10-12	Д	Ф	
	of strap a minimum of 12 inchestching strap to left front of co				, 		
	4)				-		
	0			_			
	Measure strap lengths as indicated per size:						
	11 - 10						-
· _ 	Small - 11 inches Medium - 12 inches						
	<u>-</u>						
	Continue stitching outer edge of strap starting at pattern marks on right back and around armhole to						
	right front leaving a 10-inch length of strap and cut.						
	b. Stitch inside edge of strap to coverall 1/16 to	301	LSbj-1	10-12	Ф	щ	
	areas. Stitching shall not be through chest pockets						
					•		
	n strap on fronts and	301	ı	10-12	B	м	
	on parterns. Ine stitching shall be superimposed on the stitching of strap at sides and top forming a	:			<u> </u>		
	pattern 2 to 2-1/4 inches in length with diagonal.				f		
	stitching from corner to corner crossing at center.			-			

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HREAD HOBBIN	NEEDLE LOOPER COVER	m m	pa .		æ
1 ~ 1			м	<u>-</u>	ω,
1 ~ 1		Д			
	1		Ω		м
STITCHES PER	LNCH LNCH	10-12	10-12		10-12.
SEAM AND	TYPE		•		LSbj-1
STITCH	TY PE	301	301		. 301
TABLE II. (cont'd) MANUFACTURING OPERATIONS REQUIREMENTS	Attach retrieval strap. (cont'd)	d. Overlap free ends of strap such a distance that when centered and superimposed on the continuous loop there will be no excess in either loop when the retrieval strap is pulled taut. Turn under ends of straps so that overlap is a minimum of 6-1/4 inches. Trim off any turn under in excess of 1/4 inch. Stitch overlap to continuous loop with a 6 to 6-1/4 inch box stitch with stitching 1/16 to 1/8 inch.	Two box X stitch patterns will be allowed as an alternative to join the ends of the retrieval strap. When the alternative stitch pattern is utilized, the distance between the box patterns shall not be more than 1/2 inch and not less than 1/8 inch from edges and diagonal stitching from corner coossing	at center. There shall be no piecing of the aramid webbing and the raw ends shall be seared. Make front pockets. Finished appearance. The slider portion of slide fastener shall be located at the top end of opening when fastener is closed.	a. Position the back edge of slide fastener tape to front (face to face) at slash mark, and join to front the length of the slash mark.
Č.	28.			29.	

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					IL-C-44077B		· · · · · · · · · · · · · · · · · · ·	
	COVER					•	٠	
THREAD	DOBBIN/		ra	Ω	· m	ддд		
7	NECOLE		æ	щ	щ	дый		,
STITCHES	PER		10-12	51-01	10-12	10-12		
SEAM AND	STITCHING		LSq-2(a)			SSe-2(a)		. ,
	STITCH		301	301	301	301 or 401 and 301		
TABLE II. (cont'd)	MANUFACTURING OPERATIONS REQUIREMENTS	Make front pockets. (cont'd)	b. Slash opening through pocket and front (as indicated on pattern), tongue notch ends, turn fastener to inside, and join opposite edge of pocket opening to the respective tape on the inside of front.	c. Position the top pocket portion to inside of coveralls to the slide fastener tape at front of pocket opening (as indicated on pattern) and, with the slide fastener tape extending 1/16 to 1/8 inch beyond raw edge of pocket, single stitch, tape and welt pieces only, through pocket the length of slash opening.	d. Turn in tongue notched ends; raise stitch fronts at sides of pocket opening with the stitching 1/16 to 1/8 inch from turned edges. The stitching shall continue across bottom and top ends of opening 1/16 to 1/8 inch from folded edges of tongue notches. The pocketing shall be turned toward the front of coverall and caught in the raised stitching along front side of pocket opening.	e. Turn pocket inside out at mark indicated on pattern, and join along back and bottom edges. Turn pocket, and edge stitch 3/16 to 1/4 inch.	f. Turn in raw edge of facing at inside back edge of underpocketing (as indicated on pattern), and stitch 1/16 to 1/8 inch from folded edge. The stitching shall continue across the width of facing at tongue notch at bottom of pocket opening.	
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	TABLE II. (cont'd)		SEAM AND	STITCHES	H.L	HREAD	
Š.		STITCH TYPE	STITCHING	P.ER	NEEDLE	DOBBIN/	COVER
65	Make front pockets. (cont'd)					_	
	g. With the pocket in its finished position, tack across bottom and top ends of pocket opening through all plies with the stitching superimposed on the lines of stitching securing tongue notched ends.	301 or tack		10-12 28 per tack	αα	αп	
30.	Finish leg bottoms.						
	a. Position ankle patch to leg bottom with the notches positioned on inseam and the bottom edges even.						
	b. Turn in ourved raw edges of patch 3/8 inch and single stitch 1/16 to 1/8 inch from turned edge.	301	LSd-1	10-12	<u>,</u>	Д	 -
	c. Position elastic webbing on the inside of leg below hemline with the ends of webbing 3/8 to 1/2 inch from edges of side leg opening, and tack in position 1/4 to 3/8 inch from raw ends.	301 or tack	SSpd-1	10-12 14-28 per tack	m	p)	
• .	d. Turn up the bottom edge of the leg cuff 1/4 inch toward the inside of the leg and then turn in bottom of leg (as indicated on pattern) with the top side edges 1/8 to 3/16 inch in back of back edges of slide fastener scoops, and single stitch 1/16 to 1/8 inch from turned edge. The stitching shall continue along the width of hem at ends, and the elastic webbing shall not be caught in the stitching.	301	EF2=_	10-12	ш	ф	
	e. Secure a stud portion of snap fastener at each bottom end of leg opening (as indicated on pattern). With the stud toward the inside of leg.						
							•
		•	•		·		

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	TABLE II. (cont'd)		SEAM AND	STITCHES	T	THREAD		
	MANUFACTURING OPERATIONS REQUIREMENTS	STITCH TYPE	STITCHING	PER	NEEDLE	5088IN/	COVER	
Att	Attach collar and size label (see operation 18).				1			γ
a. edg lal	a. With raw edge of undercollar and outside back edge even, stitch 3/8 inch from raw edges. The size label shall be centered on the inside back and caught in the joining seam.	301 or 401	SSa-1	10-12	យុខ	дд		
بة د 1	b. Turn in raw edge of top ply of collar and stitch to neck 1/16 to 1/8 inch from turned edge.	301	LSb-1	10-12	ф	Д		
c. 1/1(thre	c. Stitch the remaining three sides of the size label 1/16 to 1/8 inch from edge. Stitching shall not be through the printing.	301	LSbj-1	10-12	щ	pp.		
Σ	Make and attach tunnel pieces.				Ü			
to st	Finished appearance. The top ends of front pockets, the bottom of chest pockets, and the liner snap fast-ener tabs shall be caught in the stitching of tunnels to fronts. The webbing shall not be caught in the stitching along top and bottom edges of tunnel pieces.							
t T a	a. Fold the 1-3/4 inch piece of aramid tape for holster holder in half lengthwise and edge stitch 1/16 to 1/8 inch from edges.	301	SSa-1 and OSf-1	10-12	m	æ		
3. be n.	b. Turn under raw edges of holster holder 1/8 to 3/16 inch, position as indicated by marks on pattern, and bartack in place. The length of the bartack shall be 3/8 + 1/16 inch.	Bartack	1	28 per bartaok	Ф	ф		
c. the web	c. Center the elastic webbing on waist tunnel with the raw ends even, and tack in position the width of webbing 1/8 to 1/4 inch from ends. Turn pieces inside out.	301	t	28 per tack	ф	α		
	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	,						

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_						77B				
	COVER			•		,				
THREAD	DOBBIN/		м	A	•					
	NEEDLE		<u>м</u>	a						
STITCHES	PER		10-12	10-12						
SEAM AND	STITCHING TYPE		LSd-1	0Sf-1	·		1			
	STITCH TYPE	-	. 301	301		•	- 67		,	
TABLE II. (cont'd)	~,,	Make and attach tunnel pieces. (cont'd)	d. Position waist tunnel to the inside of fronts (as indicated on pattern) and with the top and bottom raw edges of tunnel turned in 3/8 inch and with liner snap fastener tabs positioned as indicated by marks on pattern, single stitch to fronts 1/16 to 1/8 inch	from turned edge catching raw ends of fastener tabs in stitching. e. Fold the snap fastener tabs onto the tunnel and top stitch 1/16 to 1/8 inch from folded edge. The finished length of the tab shall be 1 inch to 1-1/4 inches.	f. Secure the socket portion of snap fastener at each liner snap fastener shall be centered on the tab and shall face the wearer when coveralls are worm.	Prepare for packing.	a. Trim all thread ends and remove loose threads.	b. Remove all spots, stains, and shade or size markings.	c. Close all slide fasteners.	
	ģ	32.				33.			•	

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3.8 Finished measurements. The coverall shall conform to finished measurements shown in table III.

TABLE III. Finished measurements (in inches)

	Short	Regular	Long	Tolerance
Half chest 1/				
X-Small	20-1/2	20-1/2	20-1/2	<u>+</u> 1/2
Small	22-1/2	22-1/2	22-1/2	
Medium	24-1/2	24-1/2	24-1/2	
Large	26-1/2	26-1/2	26-1/2	•
X-Large	28-1/2	28-1/2	28-1/2	
Sleeve length 2/				
X-Small	18-1/2	19-1/2	20-1/2	+ 1/2
Small	18-1/2	19-1/2	20-1/2	
Medium	18-1/2	19-1/2	20-1/2	
Large	18-1/2	19-1/2	20-1/2	
X-Large	18-1/2	19-1/2	20-1/2	•
· · · · · · · · · · · · · · · · · · ·	· •	k yes		:
1/2 Waist (relaxed) <u>3</u> /		t.	1 1	•
X-Small	16 ;	16	16	<u>+</u> 3/4
Small	18	18 🛴	≟ 18	-
Medium	20	20	୍ର 20	
Large	22	22	22	
X-Large	24	<u>2</u> 4	-24	•
* * * * * * * * * * * * * * * * * * *	• • •			
Inseam 4/	; -	*	* .	•
X-Small	28.	3.0	32	<u>+</u> 1/2
Small	28	30:	32	_
Medium	28	3 0°	32	
Large	28	<u>3.</u> 0:	32	
X-Large	28	300	32	

^{1/} Measure from folded edge to folded edge at bottom of armhole.

^{2/} Measure from base of armhole to bottom edge of sleeve. Individual coverall sleeves shall not differ in length by more than 1/2 inch.

^{3/} Measure from side edge to side edge between rows of waist tunnel stitching.

Measure from seam line at base of crotch to bottom of leg. Individual coverall inseams shall not differ in length by more than 1/2 inch.

- 3.9 Workmanship. The finished coveralls shall conform to the quality of product established by this document and the occurrence of defects shall not exceed the applicable acceptable quality levels.
 - 4. QUALITY ASSURANCE PROVISIONS
- 4.1 Responsibility for inspection. Unless otherwise specified in the contract or purchase order, the contractor is responsible for the performance of all inspection requirements as specified herein. Except as otherwise specified in the contract or purchase order, the contractor may use his own or any other facilities suitable for the performance of the inspection requirements specified herein, unless disapproved by the Government. The Government reserves the right to perform any of the inspections set forth in this document where such inspections are deemed necessary to assure supplies and services conform to prescribed requirements.
- * 4.1.1 Responsibility for compliance. All items must meet all requirements of sections 3 and 5. The inspection set forth in this document shall become a part of the contractor's overall inspection system or quality program. The absence of any inspection requirement in the document shall not relieve the contractor of the responsibility of assuring that all products or supplies submitted to the Government for acceptance comply with all requirements of the contract. Sampling in quality conformance does not authorize submission of known defective material, either indicated or actual, nor does it commit the Government to acceptance of defective material.
- * 4.1.2 Responsibility for dimensional requirements. Unless otherwise specified in the contract or purchase order, the contractor is responsible for assuring that all specified dimensions have been met. When dimensions cannot be examined on the end item, inspection shall be made at any point or at all points in the manufacturing process necessary to assure compliance with all dimensional requirements.
- * 4.1.3 Certificates of compliance. When certificates of compliance are submitted, the Government reserves the right to inspect such items to determine the validity of the certification.
- * 4.2 Classification of inspections. The inspection requirements specified herein are classified as follows:
 - a. First article inspection (see 4.3).
 - b. Quality conformance inspection (see 4.4).
- * 4.3 First article inspection. When a first article is required (see 6.2), it shall be examined for the defects specified in 4.4.2 and 4.4.3. The presence of any defect shall be cause for rejection of the first article.

- 4.4 Quality conformance inspection. Unless otherwise specified, sampling for inspection shall be performed in accordance with MIL-STD-105.
- 4.4.1 Component and material inspection. In accordance with 4.1, components and materials shall be inspected in accordance with all the requirements of referenced documents unless otherwise excluded, amended, modified, or qualified in this document or applicable purchase document.
- * 4.4.2 End item visual examination. The end item shall be examined for the defects listed in table III. The lot size shall be expressed in units of coveralls. The sample unit shall be one coverall. The inspection level shall be II and the acceptable quality level (AQL), expressed in terms of defects per hundred units, shall be 2.5 for major defects, 15.0 for major and minor A defects combined, and 40.0 for total (major, minor A, and minor B combined) defects.

TABLE IV. End item visual defects

Examine	Defect	Classif Major	Mi	ion nor B
Material defects	Hole, cut, tear, or needle chew: On outside:	. 1.		. 1
	-up to 1/8 inch in diameter or length -more than 1/8 inch up to 1/4 inch	,		X
	inclusive -more than 1/4 inch On inside:	r X	. X	ų.
	-up to 1/4 inch in diameter or length -more than 1/4 inch up to 1/2 inch			X
·	inclusive -more than 1/2 inch Mend, darn, or patch: On outside:	Х .	Х	
	-any On inside (except on seam allowance): -1/4 inch up to 1/2 inch in diameter or length	х		х
	-more than 1/2 inch		X	Λ
	Friction burn: -when fibers are broken use "hole, cut, tear, or needle chew" classification Drill hole exposed on outside			X

		Classif	icat	ion
-	,	Major	Mi	nor
Examine	Defect		A	В
Material defects				
(cont'd)	Weakening defects:			
	Smash	· . X		
•	Multiple float or loose slub:			
	-on outside	•	X	
	-on inside			X
	Slub or shade bar:			
	-on outside		X	
	-on inside			X
NOTE:	Only knots and slubs that exceed the	,		
	limits specified in the basic cloth	3		٠.
	document and are clearly visible when			
•	examined at a distance of 3 feet shall	(+ ,	•	•
	be scored as defects in evaluating the	<i>:</i>		
•	quality of the coveralls.			
Shaded parts	Any outside part shaded (except those cu	t 2 % % %		
•	from ends)		X	
Cleanness	Any spot or stain on outside	-		X
•	One or more shade or size markings not removed			x
	Thread ends not trimmed	•	٠.	42
	1/4 inch or more (largest dimension	•	•	
	in any direction)	-	x	
Component and	Any component or required operation	•		
assembly	omitted (unless otherwise classified herein)	x		
	•	A		
	Any operation not performed as speci-			
	fied (unless otherwise classified herein)			X
Cutting	Any component part not cut in con-			
	formance with directional lines			
•	indicated on patterns or not in			
	accordance with specification			
	requirements	X		

		Classi	fica	tion
		Major	M:	Inor
Examine	Defect		A	В
Seams and stitching	Accuracy of seaming:			
	Seam twisted, puckered, or pleated * Part of garment caught in unrelated		X	
	operation or stitching	X		
	Ends of stitching, when not caught	-		
	in other seams or stitching, back- stitched less than 1/4 inch		х	
			•	
,	Stitching overlapping end(s) of thread	•		v
•	break less than 1/2 inch			X
	Ends of a continuous line of stitch-	_		
	ing overlapped less than 1/2 inch	•		
	(except label stitching)	•		X
, .	Ends of stitching on label overlapped	•		
	with less than three stitches			X
: •	Gage of stitching:			
•	Irregular, i.e., unevenly gaged or			
	corresponding stitchings not uniform			
	(to be scored only when condition	. *		
	exists along major portion of seam)	1		
•	Not within range of gage specified or	A STATE OF		
	varies more than 1/16 inch when no			
	range is specified	, <u>,</u>		X
	Stitches broken or missing:	4, , , ,		
•	-up to 1/4 inch inclusive	· . :		X
	-more than 1/4 inch to 1/2 inclusive		X	
	-more than 1/2 inch	X		
	Raw edges (except ends of exposed welts			
•	and slide fasteners):			
	-more than 1/4 inch long			X
	Seam or stitch type not as specified			X
	Stitches per inch more than maximum			
	or less than minimum specified			X
	Stitch tension:			
	Loose tension, resulting in a loose seam	x		
	Loose tension (exposed loops of top or bottom threads):			
	-on outside		X	
	-on inside			X

		Classi		
Examine	Defect	Major	M1ı A	nor B
				
Seams and stitching (cont'd)	Tight tension (stitches break when strain is applied in the direction of the seam or stitching)	X	•	
	Run-offs (on edge or raised stitching): -1/4 inch up to 1/2 inch inclusive -more than 1/2 inch		x	X
Slide fasteners	One or more defective, affecting function	. X		
	Not type, size, or style specified		X	
	Slider on reverse side Pocket slider not closing in direction specified	· ; X	X	
	Any other slider not closing in direction specified	X		:
Slide fastener thongs	One or more omitted Less than 2-3/4 inches or more than		X	
	3-1/4 inches long Line of stitching or bartack joining ends, off center by more than			X
	1/16 inch, or the top end of the stitch- ing finishing less than 3/8 inch or more than 5/8 inch from end of metal pull tab		::	x
Waist tunnel	Elastic webbing caught in the stitch- ing of top and bottom edges		x	
Front opening	Top ends of slide fastener or cord- ing not caught in collar joining seams Top ends of slide fastener or cording		x	
	stops less than 1/4 inch or more than 1/2 inch from collar joining seam Cord edges of fronts not abutted		x	
·	or overlapping 1/16 inch or more when fastener is closed		x	

	-	Classi		ion
Examine	Defect	Major		nor B
Welts at slide fastener openings	Piecing of welt pieces visible at one or more slide fastener open-		٠	
	ings (when applicable) Cording at folded edges not extend-			X
	ing the full length of slide fastener opening		x	
	Ends of tapes and welts not caught in the line of stitching at tongue		л	
	notched ends of openings Corded edges not abutted or over-		X	
	lapping 1/15 inch or more when	,		
· · · ;	fastener is closed		X	
Retrieval strap	Length of continuous loop not as specified	·	X	
	Dimensions and locations of box stitches of retrieval strap not as		•	
	specified		X	
Collar	Twisted or puckered Points not of uniform shape, affect-	X		
	ing appearance		X	
:	Points uneven in length by more than 1/4 inch		X	
	Ends insecurely stitched at edges of front opening		X	
Back yoke	Not lapped on upper back	X		
	Yoke not overlapped to cover entire fastener tape on upper back		X	
	Retrieval strap opening not as speci- fied in operation 14 (finished	•		
	appearance) Hook and pile portions of fastener tapes not positioned as specified (i.e., hook portion positioned at the inside bottom edge of yoke and the pile		x	
	portion positioned at the outside top edge of upper back)		x	

		Classif		
Examine	Defect	Major	Mi: A	nor B
Back yoke (cont'd)	Rows of stitching joining yoke and upper back not in line with over-lapping the stitching joining pile portion of tape to yoke			<u>х</u>
Drop seat	Hook portion positioned at the lower inside edge of upper back and the pile portion positioned at the outside of top edge of lower back Hook portions of fastener tape at ends of upper back out of alignment with hook portion on drop seat panel by more than 1/4 inch or positioned less than 1/2 inch or more than 5/8 inch from front edge of welts		x	X
Shoulder and side seams	Backs not lapping fronts	. •	•	x
Neck tab	Not finishing toward the back of collar	:	٠.,	. x
Inseams and outseams	Fronts not lapping backs Outside fold of pleats not toward bottom		. ` :	x ,
Thigh and shin pockets	Bottom pleat missing in one or both pockets			x
Sleeve and leg openings	Elastic webbing caught in the hemming operation Hem less than 7/8 inch or more than 1-1/8 inches wide	1	х х	
Labels	Missing, incorrect, or illegible: -size -identification, instruction, or combination identification-	x		
	instruction (where applicable)		X	

TABLE IV. End item visual defects (cont'd)

Examine	Defect	Clas Majo			ion Lnor B
Labels (cont'd)	Not stitched on all four sides			х	-
	Stitching through printing			X	
	Size label off center by more than				
	1/2 inch, or any other label not				٠
	positioned as specified	•		X	. :
Elbow and seat	Uneven at top by 1/8 to 1/4 inch	· ,			
patches	inclusive	1.1			X
	Uneven at top by more than 1/4 inch	-		X	
Snap fasteners	Any part of assembly missing, mismatched,	3 . ŽI		,	
-	broken, cracked, bent, not securely	* .			
	clinched, affecting function:				
	-two or more snap fasteners	: X		,	
	-one snap fastener			. X	1
	One or more clinched too tightly	•			
•	cutting surrounding fabric	X		<i>:</i> .	
	Loose (i.e., socket or stud spins		. :	:,;	4 2
	freely or wobbles in connection portions)		. •	; . X	· ! ;
	One or more having rough or sharp edge	X	_		٠,
	More than 3 splits in eyelet or button	, ,	•	•	. :
	barrel	,		X	

^{4.4.3} End item dimensional examination. The end item shall be examined for conformance to the measurements specified in table III. Any dimension not within the specified tolerance shall be classified as a defect. The lot size shall be expressed in units of coveralls. The sample unit shall be one coverall. The inspection level shall be S-3 and the AQL, expressed in terms of defects per hundred units, shall be 4.0.

4.4.4 Packaging examination. The fully packaged end items shall be examined for the defects listed below. The lot size shall be expressed in units of shipping containers. The sample unit shall be one shipping container fully packaged. The inspection level shall be S-2 and the AQL, expressed in terms of defects per hundred units, shall be 2.5.

Examine	Defect
Workmanship	Inadequate application of components, such as incomplete sealing or closure of flap, improper taping. loose strapping, or inadequate stapling Bulged or distorted container Open and non-continuous heat sealed seams and closure of polyethylene bags Alternate polyethylene bags not provided with tuck or reverse flap, as specified Incorrectly fabricated bag
Content	Number of unit packs per shipping container is

4.4.5 Palletization examination. The fully packaged and palletized end items shall be examined for the defects listed below. The lot size shall be expressed in units of palletized unit loads. The sample unit shall be one palletized unit load, fully packaged. The inspection level shall be S-1 and the AQL, expressed in terms of defects per hundred units, shall be 6.5.

more or less than specified

Examine	Defect
Finished dimensions	Length, width, or height exceeds specified maximum requirements
Palletization	Pallet pattern not as specified Interlocking of loads not as specified Load not bonded as specified
Weight	Exceeds maximum load limits
Marking	Omitted; incorrect; illegible; of improper size, location, sequence, or method of application

PACKAGING

5.1 Preservation. Preservation shall be level A or Commercial as specified (see 6.2).

- 5.1.1 Level A. Each pair of coveralls with sleeves and legs fully extended and with slide fasteners closed, shall be laid flat, front down. Fold the leg bottoms up approximately 15 inches. Next bring the leg portion up even with the lower edge of the collar and fold the sleeve one on top of the other across the back. The length shall then be folded in half. Each completely folded coverall shall measure approximately 21 inches by 15 inches. Each folded coverall shall be unit packed in a close-fitting clear polyethylene film bag of 0.0015-inch thickness (+ 20 percent tolerance). The polyethylene bag shall be formed with heat sealed seams that are straight and continuous and parallel to each other and to the formed edges of the bag. The final closure of the bag shall be heat sealed with the heat seal made as close as possible to the open end. The bag may be fabricated from polyethylene film tubing or sheeting. A 1/4-inch diameter hole shall be made at one corner of the polyethylene bag to allow excess air to escape. Alternatively, the final closure of the polyethylene bag may be accomplished by means of a tuck or reverse flap.
- 5.1.2 <u>Commercial</u>. Coveralls shall be preserved in accordance with ASTM D 3951.
- 5.2 Packing. Packing shall be level A, B, or Commercial as specified (see 6.2).
- 5.2.1 Level A packing. Ten coveralls of one size only, preserved as specified in 5.1, shall be packed in a fiberboard shipping container conforming to style RSC-L, grade V2s of PPP-B-636. The inside of each container shall be fitted with a box liner conforming to type CF, class weather-resistant, variety DW, grade V15c of PPP-B-636. Level A unit packs shall be packed flat, alternated end for end, one in length, one in width and ten in depth. Inside dimensions of each container shall be approximately 21-1/2 inches in length, 15-1/2 inches in width, and 15 inches in depth. Approximate dimensions are furnished as a guide only. Each shipping container shall be closed in accordance with method III, waterproofed in accordance with method V, and reinforced as specified in the appendix of PPP-B-636, except that the inspection shall be in accordance with 4.4.4. Shipping containers shall be arranged in unit loads in accordance with MIL-L-35078 for the type and class of load specified (see 6.2). When unit loads are strapped, strapping shall be limited to nonmetallic strapping, except for type II, class F loads.
- 5.2.2 Level B packing. Ten coveralls of one size only, preserved as specified in 5.1, shall be packed in a fiberboard shipping container conforming to style RSC-L, type CF (variety SW) or SF, class domestic, grade 275 of PPP-B-636. The inside of each container shall be fitted with a box liner conforming to type CF, class domestic, variety DW, grade 275 of PPP-E-636. Level A unit packs shall be packed flat, alternated end for end, one in length, one in width, and ten in depth within a container. Inside dimensions of each container shall be approximately 21-1/2 inches in length, 15-1/2 inches in width, and 15 inches in depth. Approximate dimensions are furnished as a guide only. Each container shall be closed in accordance with method II as specified in the appendix of PPP-B-636, except that the inspection shall be in accordance with 4.4.4.

- 5.2.2.1 Weather-resistant fiberboard container. When specified (see 6.2), the shipping container shall be a grade V3c, V3s, or V4s fiberboard box fabricated in accordance with PPP-B-636 and closed in accordance with method III as specified in the appendix of PPP-B-636, except that the inspection shall be in accordance with 4.4.4.
- 5.2.3 Commercial packing. Coveralls, preserved as specified in 5.1, shall be packed in accordance with ASTM D 3951.
- 5.3 Palletization. When specified (see 6.2), coveralls packed as specified in 5.2.2 and 5.2.3, shall be palletized on a 4-way entry pallet in accordance with load type Ia of MIL-STD-147. Pallet types shall be type I (4-way entry), type IV, or type V in accordance with MIL-STD-147. Pallets shall be fabricated from groups I, II, III, or IV of MIL-STD-731. Each prepared load shall be bonded with primary and secondary straps in accordance with bonding means K and L or film bonding means O or P. Pallet pattern shall be number 3 in accordance with appendix of MIL-STD-147. Interlocking of loads shall be effected by reversing the pattern of each course.
- 5.4 Marking. In addition to any special marking required by the contract or purchase order, unit packs, shipping containers, and palletized unit loads shall be marked in accordance with MIL-STD-129 or ASTM D 3951, as applicable.
 - 6. NOTES
- 6.1 <u>Intended use</u>. The coveralls are intended for wear by combat vehicle crewmen of the Department of Defense.
 - 6.2 Ordering data. Acquisition documents should specify the following:
 - a. Title, number, and date of this document.
 - b. Size required (see 1.2).
 - c. When a first article is required (see 3.2, 4.3, and 6.4).
 - d. Selection of applicable levels of preservation and packing (see 5.1 and 5.2).
 - e. Type and class of unit load specified (see 5.2.1).
 - f. When weather-resistant grade fiberboard shipping containers are required for level B packing (see 5.2.2.1).
 - g. When palletization is required (see 5.3).
- 6.3 Sample. For access to samples, address the contracting activity issuing the invitation for bids.
- 6.4 First article. When a first article is required, it shall be inspected and approved under the appropriate provisions of FAR 52.209. The first article should be a preproduction sample. The contracting officer should specify the appropriate type of first article and the number of units to be furnished. The contracting officer should include specific instructions in all acquisition instruments regarding arrangements for selection, inspection, and approval of the first article.

6.5 Subject term (key word) listing.

Combat vehicle crewmen Coveralls, combat Coveralls, fire-resistant

6.6 Changes from previous issue. The margins of this document are marked with an asterisk to indicate where changes (additions, modifications, corrections, deletions) from the previous issue were made. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations and relationship to the last previous issue.

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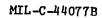
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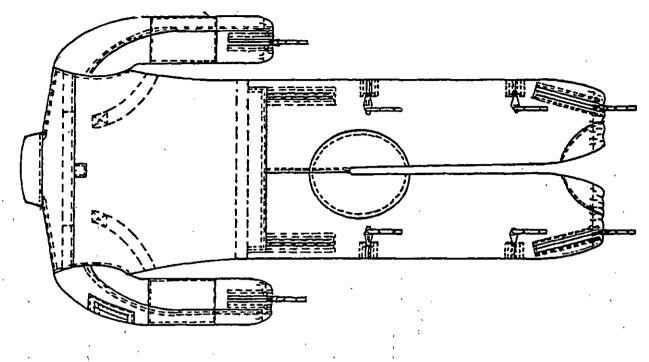
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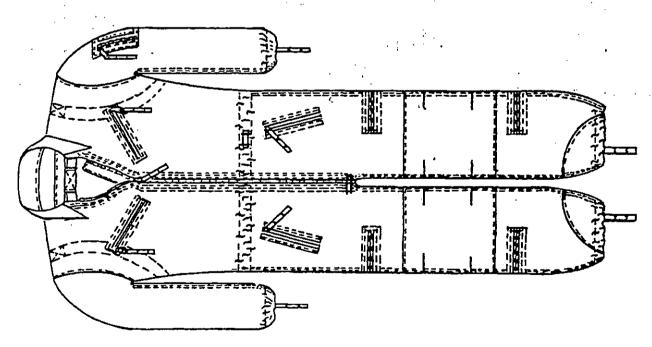
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STANDARDIZATION DOCUMENT IMPROVEMENT PROPOSAL (See Instructions – Reverse Side)				
1. DOCUMENT NUMBER	2. DOCUMENT TITLE	,		
MIL-C-44077B	Coveralls, Combat Vehicle Crewm	en's		
34 NAME OF SUBMITTING ORGAN	ZATION	4. TYPE OF ORGANIZATION (Mark one)		
		VENDOR		
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b. AODREGS (Street, City, State, ZIP	oda)	-1		
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