

INCH-POUND

A-A-55219

2 July 1993

COMMERCIAL ITEM DESCRIPTION

TROUSERS, MEN'S (ENLISTED, WHITE)

The General Services Administration has authorized the use of this Commercial Item Description in preference to MIL-T-87067.

Abstract. This document covers the requirements for white polyester bell bottom trousers. The trousers are intended for wear by male personnel of the Navy.

SALIENT CHARACTERISTICS

General Description. The trousers shall be of single needle construction with a sewn on waistband, belt loops, hook and eye closure, a left over right front fly with slide fastener, two straight side seam pockets, unfinished bell bottoms and double welt back hip pockets with button and buttonhole tab on left hip pocket (reference figure 1). The seat seam shall be stitched with a double needle seat seamer, with an outlet in the back seat seam. The trousers shall have a front and back lining extending from the waistband to the bottom of the pockets, with back darts sewn through lining and basic material; the dart in the lining slit open. All exposed edges shall have overedge stitching.

Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this document should be addressed to: Defense Personnel Support Center, Clothing and Textiles Directorate, Attn: DPSC-FSSC, 2800 South 20th Street, Philadelphia, PA 19101-8419, by using the Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.

AMSC N/A

FSC 8405

DISTRIBUTION STATEMENT A.

Approved for public release;
distribution is unlimited.

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The waistband shall be made of basic material with an interlining, stabilizer and lining. The finished width shall be 1-1/2 ($\pm 1/8$) inches with a topstitch 1/16 inch from waist seam through lining. The right front fly shall be lined from the top of the waistband to approximately 1/2 inch beyond inseam, and shall have a sewn in or integrated buttonhole tab.

The trouser shall have 7 belt loops for sizes up to and including 37, 8 loops for size 38 and above. The belt loops shall be bartacked 1/16 to 1/8 inch from top of waistband before folding down even with top edge of waistband. The bottom of belt loops shall fold 5/16 to 7/16 inch below waistband joining seam, with a bartack 1/8 inch from folded edge. The finished belt loop shall be 5/16 to 3/8 inch wide, and 1-3/4 ($\pm 1/8$) inches long between top fold and bottom bartack. The placement of the belt loops shall be as follows:

- a loop in the center of the right and left fronts,
- a loop adjacent to each side seam on back,
- a loop centered on the right and left backs,
- a loop centered on back seat seam,
- a loop positioned on right front (for sizes 38 and above) 1-1/4 to 1-3/4 inches from edge of left fly when closed.

The side seam pockets shall be bartacked above and below the opening, which shall measure 6-1/4 ($\pm 1/4$) inches. The front of pocket opening shall be topstitched 3/16 to 1/4 inch from edge. Side pocket facing and bearer pieces shall be of basic fabric.

The double welt back hip pocket shall finish 5-1/4 ($\pm 1/8$) inches wide, with a 1/8 to 3/16 inch welt edge. The pocket shall finish 5-3/4 to 6-1/4 inches deep, with the label centered and stitched on four sides to pocket, facing the wearer. The hip pocket on wearer's left shall have a buttonhole tab finishing 1-1/4 ($\pm 1/8$) inches long, formed from a piece of stripping folded in half with a bartack at the pointed end catching the base of the triangle and a second bartack across the abutted edges 5/8 ($\pm 1/16$) inch from the first bartack, forming a slit buttonhole. All bartacks shall be made by machine, and shall finish 3/8 to 1/2 inch long. The back hip pockets shall have vertical bartacks at both ends. The base of the fly opening shall have a bartack at the junction of the crotch seam and on the "J" stitching line, which shall not extend beyond the crotch seam.

The finished trousers shall be pressed at the top. The legs shall be pressed flat (pants inside out) with front legs on top of back, inseams and outseams open and flat, and creases along back edge of outseams. Inseams and outseams shall remain open after pressing.

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Basic Material. The basic material for the trousers shall be a 100% polyester 2/1 right hand twill, texturized by the false twist process. The yarn shall be 2 plies of semi dull, 150 denier, octalobal cross section, 33 (\pm 3) filaments per ply polyester. The cloth shall match shade White 3006 and shall be given one of the following soil release finishes approved by the Navy Clothing and Textile Research Facility:

<u>Compound</u>	<u>Company</u>
Zelcon 4951	E.I. DuPont de Nemours & Co. Wilmington, DE 19898
FC-258	Minnesota Mining & Mfg. Co. St. Paul, MN
Milease HPA	ICI Americas, Inc. Wilmington, DE 19897

The finished cloth shall conform to the requirements specified in Table I when tested as specified.

TABLE I - BASIC MATERIAL REQUIREMENTS

Characteristic	Test Method	Requirement (Minimum)
Fiber identification	<u>1/</u>	As stated above
Weight	ASTM Method D3776 Option C	6.7 oz./sq. yd.
Yarns per inch	ASTM Method D3775	67 ends/inch <u>2/</u> 57 picks/inch
Breaking strength	ASTM Method D5034	200 lbs. warp 150 lbs. filling
Dimensional stability	Test Method 5556 <u>3/</u>	+3.0% Max. warp & +2.0% Max. filling <u>4/</u>
Discoloration to light	AATCC TM 16 Option A	"Good" <u>5/6/</u>

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TABLE I - BASIC MATERIAL REQUIREMENTS CONT'D.

Characteristic	Test Method	Requirement (Minimum)
Discoloration to Laundering & Bleaching	AATCC TM 61 Test 4A	Class 4 <u>7/8/</u>
Discoloration to Perspiration	AATCC TM 15	Class 4 <u>9/</u>
Resistance to Staining	AATCC TM 130 & AATCC TM 61 Test 3A	3.0 Rating <u>10/</u> <u>11/12/</u>

- 1/ Unless otherwise specified, a certificate of compliance shall be submitted and will be acceptable for the stated requirements.
- 2/ Samples shall be conditioned as directed in "D1776 Practice for Conditioning Textiles for Testing" prior to testing.
- 3/ Federal Test Method Standard 191A.
- 4/ Use the following temperatures and washing times:

<u>CYCLE</u>	<u>TEMPERATURE DEGREE F (DEGREE C)</u>	<u>TIME (MIN)</u>
1 Suds	120° F (48.9° C)	5
2 Suds	160° F (71.1° C)	5
3 Rinse	160° F (71.1° C)	3
4 Rinse	140° F (60.0° C)	3
5 Rinse	120° F (48.9° C)	3
6 Rinse	100° F (37.8° C)	3

- 5/ Or shall show colorfastness equal to the standard sample.
- 6/ Exposure time of 40 standard fading hours
- 7/ The percentage of available chlorine of total volume shall be 1.0. Steel balls shall be omitted. Use the multifiber test fabric.
- 8/ Only the stain on the polyester fibers of the transfer cloth shall be evaluated.
- 9/ The test for colorfastness to alkaline solution shall also apply.
- 10/ There shall be three 4x8 inch specimens taken from different warp and filling yarns.
- 11/ The test specimens shall be stained in accordance with AATCC 130-1990, with the following exceptions: 3 drops of Graphite multi-grade motor oil (SAE 10W - 40) supplied as GFM, shall be used in lieu of five drops of mineral oil. Test specimens shall be evaluated against "NCTRF Stain Release Replica", available from the procuring office after award of contract.

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12/The test specimens shall be laundered in accordance with AATCC 61-1989, Test No. 3A, with the following exceptions:

- a. The total liquor volume shall be 500ml.
- b. 15 grams per liter of AATCC (124 WOB) detergent shall be used.
- c. A total of 50 stainless steel balls shall be used.
- d. No multifiber test fabric or bleached cotton fabric is required.
- e. At the end of the cycle, rinse in running water at 105° F. for 5 minutes; no scouring is required.
- f. Hydroextract the test specimen to remove excess moisture. Air dry or oven dry at 220° F.

Trouser Lining Material. The material for lining the trousers shall be 32 gauge, 100% nylon tricot knit fabric with a front knitting bar of round cross section 30 denier, 10 filaments and a back knitting bar of tri-lobal cross section 40 denier, 13 filaments. Both yarns shall have permanent built-in anti-static protection. The knit pattern shall be front bar 1-0/0-1 and back bar 1-0/4-5. The finished cloth shall be White, shade 3006, and shall conform to the requirements specified in Table II when tested as specified.

TABLE II - TROUSER LINING MATERIAL REQUIREMENTS

Characteristic	Test Method	Requirement (Minimum)
Fiber identification	<u>1/</u>	As stated above
Weight	ASTM Method D3776 Option C	2.7 oz./sq. yd.
Wales per inch	ASTM Method D3887	32
Courses per inch	ASTM Method D3887	68
Bursting strength	ASTM Method D3787	100 lbs.
Dimensional stability	AATCC TM 135 Washing method 1-IV Drying method B	+5.0% Max. wale & +2.5% Max. course
Discoloration to perspiration	AATCC TM 15	Class 4 <u>2/</u>
Discoloration to laundering & bleaching	AATCC 61 Test 4A	Class 4 <u>3/</u>

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- 1/ Unless otherwise specified, a certificate of compliance shall be submitted and will be acceptable for the stated requirements.
- 2/ The test for colorfastness to alkaline solution shall also apply.
- 3/ The percentage of available chlorine of total volume shall be 1.0. Steel balls shall be omitted. Use the multifiber test fabric.

Pocketing, Waistband Lining, Right Fly Lining and Left Fly Interlining. The material for the waistband lining, right fly lining, left fly interlining and pocketing shall be 2/1 twill or plain weave, bleached white, with a minimum weight of 4.3 oz./sq. yd. when tested as specified in ASTM Method D3776, Option C (a 15% minus tolerance will be permitted for 100% polyester cloth). The spun yarn for the cloth shall contain from 47% to 100% polyester, and any remaining percentage cotton or rayon. When 100% polyester fabric is used, the yarn shall be either staple or texturized filament polyester. As an alternate for the left fly interlining, the basic material may be used.

Waistband Interlining. The material for interlining the waistband shall be bleached or unbleached cotton buckram conforming to type II of A-A-50186. As an alternate, a nonwoven interlining conforming to type IV of A-A-50186 may be used.

Waistband Stabilizer. The material for the waistband stabilizer shall be an unbleached plain weave consisting of polyester, cotton, or any combination of these fibers. The color shall be natural, and the finished material shall conform to the requirements specified in Table III when tested as specified.

TABLE III - WAISTBAND STABILIZER REQUIREMENTS

Characteristic	Test Method	Requirement (Minimum)
Weight	ASTM Method D3776 Option C	6.3 oz./sq. yd.
Thickness	ASTM Method D1777	0.026 ± 0.006 inch
Stiffness (filling dir.)	ASTM Method D1388	min. 0.100 max. 0.200 inch/lbs.
Dimensional stability	AATCC TM 96 Washing Method IC Drying Method D	2.0% Max. warp 1/

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1/ Test piece shall measure full width of stabilizer and 22 inches long.

Thread. The thread used for stitching and seaming shall be a cotton covered polyester core, color white, conforming to type I of A-A-50199. Seaming and tacking shall use Ticket No. 50 or 70, 2 ply; overedging shall use Ticket No. 70, 2 ply; button sewing shall use Ticket No. 50, 2 ply. As an alternate, white cotton machine thread conforming to A-A-52094 may be used. Seaming shall use Ticket No. 40 or 50, 3 ply; overedging shall use Ticket No. 70, 2 ply; button sewing shall use Ticket No. 24, 4 ply.

Gimp. The gimp for reinforcing the right front fly buttonhole shall be 100% cotton, bleached white, conforming to type I or II, Ticket No. 8 of A-A-50198.

Button. The button for the left hip pocket and fly-tab closure shall be melamine plastic, shade White BA, C.A. 62031, 22 line, flat, glossy finish with 4 sewing holes.

Slide Fastener. The slide fastener for closing the front fly shall be non-separating, non-reversible, with a cam lock slider, short tab pull and bottom stop. The size shall be light special, and the tape shall be cotton or a polyester/cotton blend, approximating the shade of the basic material. The chain, slider and bottom stop shall be made of brass, except for the semi-automatic pin lock cover and spring, which shall be stainless steel.

Hook and Eye. The hook and eye for the trouser waistband shall be North and Judd (Hook Flex H-49E50); Universal Fastener (Elite #3, #7, and #8 hook with #8 eye or #85 eye); Akim Co. (Junior Series - type JB, Slim-Slak with MB eye and Slik-Slak); Stimpson (P-536, D-4086, D-4457, D-4228) or equal. The finish shall be nickel plate, and the base metal shall be steel.

Sizes and Lengths. The trousers shall be provided in the following sizes and lengths:

Sizes: 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, and 46

Lengths: Short, Regular, Long and Extra Long

NOTE: The lengths (Short, Regular, Long, and X-Long) may be abbreviated as S, R, L and XL.

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Label. Each pair of trousers shall have a white, non-woven, commercial type label which shall be affixed to the center of the right hip pocketing, facing the wearer. The inscription shall show fastness to laundering and shall contain the following information:

NAME:
SERVICE NO.:
TROUSERS, MEN'S (ENLISTED, WHITE)
SIZE:
NATIONAL STOCK NUMBER:
FIBER CONTENT: Outer Shell: 100% Polyester
Lining: 100% Nylon
CONTRACT NO:
NAME OF CONTRACTOR/MANUFACTURER

LAUNDERING INSTRUCTION

Machine Wash - Hot Water
DO NOT USE CHLORINE BLEACH
Tumble Dry - Medium Heat, Remove Promptly
or Hang Dry

or

USE NAVTRNG MANUAL 414-01-45-81 - Formula II

Note: Abbreviations for applicable lengths may be used (EXAMPLE - 34R).

Each trouser shall be individually bar-coded with the type VIII, class 17 label/tag of DDD-L-20. This label/tag shall be located so that it is completely visible on each trouser and causes no damage to the item.

Defects. Bar-code omitted or not readable by scanner, Human-Readable Interpretation (HRI) omitted or illegible. Bar-coded type not as specified, code density not as specified.

Removable Size Ticket. Each trouser shall have a commercial type size ticket attached to the outside of the waistband above the left back pocket. The ticket shall be approximately 3 inches long and 1 inch high, made of a suitable plain white cardboard. The trouser size shall be printed or stamped on the upper left hand corner in black or blue ink. The lettering for the size shall be 1/4 inch in height. Abbreviations for lengths shall be allowed.

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Patterns. The government shall furnish a single size pattern. The contractor is responsible for grading patterns for additional sizes. The pattern generally provides for a seam allowance of 3/8 inch for joining seams, with the exception of a 1/4 inch seam allowance for pocket facing and assembly, and seat seam allowance of 1-1/4 inches at the waist, tapering to 3/8 inch at crotch. Commercial patterns may be used in lieu of the government furnished pattern provided they conform to the cited design and finished measurements.

Sizes and Measurements. The finished trousers shall conform to the measurements listed in Table IV. All measurements and tolerances are expressed in inches.

Workmanship. The finished trouser shall conform to the quality of product established by this document. The occurrence of defects shall not exceed the applicable acceptable quality levels.

Product Demonstration Model. When required, offerers shall submit samples of their intended production. The Product Demonstration Model shall consist of units independently developed. Product Demonstration Models shall be analyzed and evaluated by the government. Evaluation criteria and basis for award are contained in the solicitation. Product Demonstration Models shall be retained by the government. One (1) Product Demonstration Model approved by DPSC under the resultant contract shall serve as a manufacturing standard for the corresponding production items delivered under this contract. Offerers are advised that the Product Demonstration Model does not relieve the successful offerer of his responsibility to perform in accordance with the Commercial Item Description specified above.

Regulatory Requirements. The offeror/contractor is encouraged to use recovered materials in accordance with Public Law 94-580 to the maximum extent practicable.

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TABLE IV - SIZES AND MEASUREMENTS

Size	Waist	Seat	Inseam - Unhemmed 3/				Knee	Leg 5/
	1/	2/	S	R	L	XL	4/	Bottom
26	26	34	32-1/2	34-1/2	36-1/2	38-1/2	17-1/2	20-1/2
27	27	35	32-1/2	34-1/2	36-1/2	38-1/2	17-1/2	20-1/2
28	28	36	32-1/2	34-1/2	36-1/2	38-1/2	18-1/4	21-1/4
29	29	37	32-1/2	34-1/2	36-1/2	38-1/2	18-1/4	21-1/4
30	30	38	32-1/2	34-1/2	36-1/2	38-1/2	19	22
31	31	39	32-1/2	34-1/2	36-1/2	38-1/2	19	22
32	32	40	32-1/2	34-1/2	36-1/2	38-1/2	19-3/4	22-3/4
33	33	41	32-1/2	34-1/2	36-1/2	38-1/2	19-3/4	22-3/4
34	34	42	32-1/2	34-1/2	36-1/2	38-1/2	20-1/2	23-1/2
35	35	43	32-1/2	34-1/2	36-1/2	38-1/2	20-1/2	23-1/2
36	36	44	32-1/2	34-1/2	36-1/2	38-1/2	21-1/4	24
37	37	45	32-1/2	34-1/2	36-1/2	38-1/2	21-1/4	24
38	38	46	32-1/2	34-1/2	36-1/2	38-1/2	21-3/4	24-1/2
39	39	47	32-1/2	34-1/2	36-1/2	38-1/2	21-3/4	24-1/2
40	40	48	32-1/2	34-1/2	36-1/2	38-1/2	22-1/4	25
41	41	49	32-1/2	34-1/2	36-1/2	38-1/2	22-1/4	25
42	42	50	32-1/2	34-1/2	36-1/2	38-1/2	23	25-1/2
43	43	51	32-1/2	34-1/2	36-1/2	38-1/2	23	25-1/2
44	44	52	32-1/2	34-1/2	36-1/2	38-1/2	23-1/2	26
45	45	53	32-1/2	34-1/2	36-1/2	38-1/2	23-1/2	26
46	46	54	32-1/2	34-1/2	36-1/2	38-1/2	24	26-1/2
Tol.	+3/4 -1/2	+3/4 -1/2	±1/2	±1/2	±1/2	±1/2	±1/2	±1/2

Note: Measurements for waist and seat shall be taken with slide fastener and waistband closed. All measurements shall be taken with trousers laid out smooth and flat.

- 1/ Waist: Double the measurement across the top edge of waistband from folded edge to folded edge.
 2/ Seat: Double the measurement taken from folded edge to folded edge one inch above fly bartack.
 3/ Inseam: Measurement taken along inseam from crotch seam to unfinished bottom of legs.
 4/ Knee: Double the measurement taken from folded edge to folded edge across the width of trouser leg. Location of knee measurements shall be the following distance from bottom of trousers:

Short	- 19 inches	Long	- 21 inches
Regular	- 20 inches	X-Long	- 22 inches

- 5/ Bottom: Double the measurement taken from folded edge to folded edge across unfinished bottom of leg.

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QUALITY ASSURANCE

Certification. The contractor shall certify that the product offered meets the salient characteristics of this description and that the product conforms to the producer's own drawings, specifications, standards and quality assurance practices. The government reserves the right to require proof of such conformance prior to the first delivery and thereafter as may be otherwise provided for, under the provisions of the contract. Reliance on contractor QA systems shall not relieve the contractor of the responsibility of ensuring that all products or supplies submitted to the government for acceptance comply with all requirements of the contract.

Examination. Trouser lots shall be inspected in accordance with "Sampling Procedures and Tables for Inspection by Attributes", ANSI/ASQC Z1.4, published by the American Society for Quality Control.

Visual Examination. The trousers shall be examined for the defects listed below. The lot size shall be expressed in units of trousers. The sample unit is one trouser. The inspection level shall be III and the acceptable quality level (AQL), expressed in terms of defects per hundred units, shall be 0.65.

Defects. The trousers shall be examined for the defects listed in Table V.

TABLE V - END ITEM VISUAL DEFECTS

Examination	Defect
Material and workmanship	<p>Component part full, tight, or twisted</p> <p>Hole, cut, tear, streak, color not as specified, misweave</p> <p>Permanent fold, pleat, or crease</p> <p>Measurement not as specified, an omitted part</p> <p>Seam; puckered, distorted, pleated, irregular or open, loose or tight stitch tension, broken or missing thread or stitch, needle chew</p>

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TABLE V - END ITEM VISUAL DEFECTS CONT'D.

Examination	Defect
Material and workmanship	Any twisted or caught part of trouser in any unrelated row of stitching Pressing omitted or not as specified Twill line not consistent throughout Button or hook and eye missing or broken, or positioned so as to cause a bulge or misaligned waistband
Shade Variations	Shaded part, off shade, wrong shade, or shade variation Thread color not as specified
Cleanness	Spot, stain, thread ends not trimmed Rancid odor
Label	Omitted, incorrect, illegible or misplaced

Dimensional Examination. The finished trousers shall conform to the dimensions specified. Any dimension that is not within the established tolerance shall be classified as a defect. The sample unit shall be one trouser; the inspection level shall be S-3 and the AQL, expressed in terms of defects per hundred units, shall be 2.5.

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 acceptable quality level (AQL), expressed in terms of defects per hundred units, shall be 2.5.

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EXAMINATION	DEFECT
Marking (exterior and interior)	Omitted; incorrect; illegible; of improper size, location, or method of application.
Materials	Any component missing, damaged, or not as specified.
Workmanship	Inadequate application of components such as: incomplete closure of container flaps, loose strapping, improper taping, or inadequate stapling.
Content	Number of items per container is more or less than required. NSN shown on one or more items not as specified on shipping container.
Palletization	Length, width, or height exceeds specified maximum requirements. Pallet type not as specified. Load not bonded as specified.

End Item Performance Testing. The finished trousers shall conform to the requirements listed in Table I.

Preservation, Packing, and Marking. The preservation, packing, and marking shall be as specified in the contract or order.

Source of Government Documents. Copies of Military and Federal documents are available from:

Standardization Documents Order Desk
Bldg. 4D
700 Robbins Avenue
Philadelphia, PA 19111-5094

Sources of Nongovernment Documents.

ANSI/ASQC Z1.4 - Sampling Procedures and Tables For Inspection By Attributes

(Applications for copies should be addressed to American National Standards Institute, 11 West 42nd Street, New York, NY 10036-8002.)

American Society for Testing and Materials, Standard Test Methods referenced in this document.

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(Applications for copies should be addressed to American Society For Testing and Materials, 1916 Race Street, Philadelphia, PA 19103-1187.)

American Association of Textile Chemists and Colorists, Test Methods referenced in this document.

(Applications for copies should be addressed to American Association of Textile Chemists and Colorists, P.O. Box 12215, Research Triangle Park, N.C. 27709-2215.)

Custodian:
Navy - NU

Civil Agency Coordinating
Activity:
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Preparing Activity:
DLA - CT

Project No.
8405-0211

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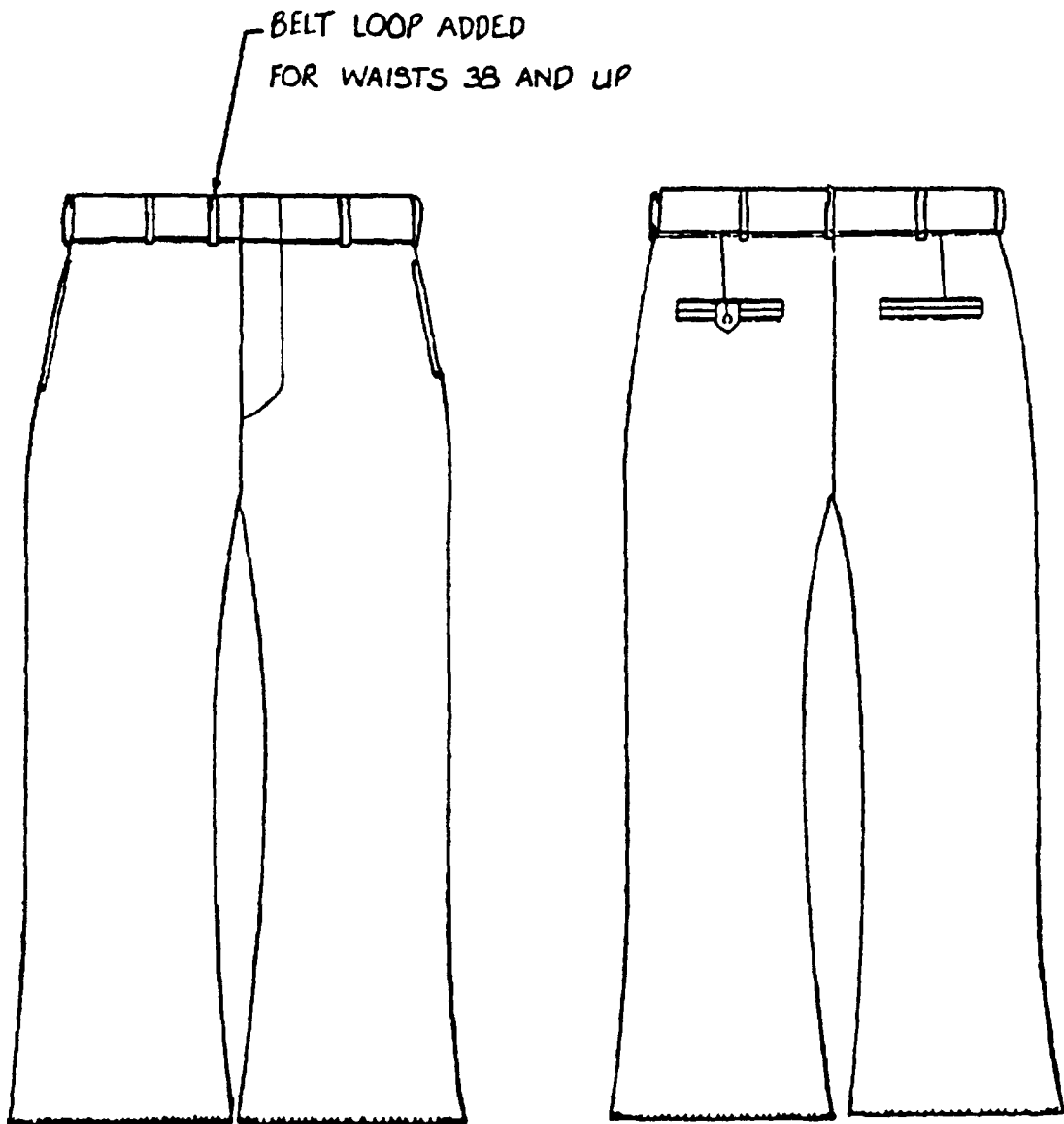


FIGURE 1 -
TROUSERS, MEN'S (ENLISTED WHITE)

STANDARDIZATION DOCUMENT IMPROVEMENT PROPOSAL

INSTRUCTIONS

1. The preparing activity must complete blocks 1, 2, 3, and 8. In block 1, both the document number and revision letter should be given.
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I RECOMMEND A CHANGE:

1. DOCUMENT NUMBER
A-A-55219

2. DOCUMENT DATE (YYMMDD)
93/07/02

3. DOCUMENT TITLE

Trousers, Men's (Enlisted, White)

4. NATURE OF CHANGE (Identify paragraph number and include proposed rewrite, if possible. Attach extra sheets as needed.)**5. REASON FOR RECOMMENDATION****6. SUBMITTER**

a. NAME (Last, First, Middle Initial)

b. ORGANIZATION

c. ADDRESS (Include Zip Code)

d. TELEPHONE (Include Area Code)

7. DATE SUBMITTED
(YYMMDD)

(1) Commercial

(2) AUTOVON
(If applicable)

8. PREPARING ACTIVITY

a. NAME

Defense Personnel Support Center
ATTN: DPSC-FSSD (12-3-D)

b. TELEPHONE (Include Area Code)

(1) Commercial

(2) AUTOVON

c. ADDRESS (Include Zip Code)

2800 South 20th Street
P.O. Box 8419
Philadelphia, PA 19101-8419

IF YOU DO NOT RECEIVE A REPLY WITHIN 45 DAYS, CONTACT
Defense Quality and Standardization Office
5203 Leesburg Pike, Suite 1403, Falls Church, VA 22041 3466
Telephone (703) 756-2340 AUTOVON 289 2340