

TECHNICAL MANUAL
OPERATOR'S MANUAL FOR
BODY ARMOR SET, INDIVIDUAL COUNTERMINE (BASIC)



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

1 OCTOBER 2001

HEADQUARTERS, DEPARTMENT OF THE ARMY

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WARNING SUMMARY

This warning summary contains general safety warnings and hazardous materials warnings that must be understood and applied during operation and maintenance of this equipment. Failure to observe these precautions could result in serious injury or death to personnel.

WARNING

Ballistic cover and face shield add weight to the helmet. The assembly shifts the balance point forward. A high risk of injury to the neck may be expected when the soldier wearing the helmet, helmet cover, and face shield is subjected to external forces or accelerations such as falls, jumping from heights, vehicular movement over rough terrain, or direct impact to the helmet.

WARNING

Use of the BASIC with MOPP gear increases the possibility of heat illness.

WARNING

Be sure that the fragmentation protective insert is not folded over inside the vest cover back half. Correct positioning is required to provide maximum available protection.

WARNING

Be sure to evaluate the fit of the overboots when worn with alternate military footwear before beginning a mission.

WARNING

The overboot increases the height of your heel and sole. Use caution when walking to avoid tripping or twisting your ankle.

WARNING

For first aid treatments, refer to FM 21-11

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LIST OF EFFECTIVE PAGES/WORK PACKAGES

Date of issue for original and changed pages/work packages is:

Original ..0..1 Oct 01

TOTAL NUMBER OF PAGES FOR FRONT AND REAR MATTER IS 10 AND TOTAL NUMBER OF WORK PACKAGES IS 19, CONSISTING OF THE FOLLOWING:

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HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, D.C., 1 October 2001

TECHNICAL MANUAL

OPERATOR'S MANUAL

BODY ARMOR SET, INDIVIDUAL COUNTERMINE (BASIC)

**REPORTING ERRORS AND RECOMMENDING
IMPROVEMENTS**

You can help improve this manual. If you find any mistakes or if you know of a way to improve the procedures, please let us know. Mail your letter or DA Form 2028 (Recommended Changes to Publications and Blank Forms) direct to: Commander, U.S. Army Soldier, Biological and Chemical Command, ATTN: AMSSB-RIM-E(N), 15 Kansas Street, Natick, MA 01760-5052. You may also send in your recommended changes via electronic mail. Our e-mail address is amssb-rim-e@natick.army.mil. A reply will be furnished to you.

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WP Sequence No.

WARNING SUMMARY

HOW TO USE THIS MANUAL

GENERAL INFORMATION 0001 00

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HOW TO USE THIS MANUAL

OVERVIEW

This manual contains operating instructions and operator preventive maintenance checks, and services (PMCS) for the Body Armor Set Individual Countermine (BASIC). This manual is divided into the following major sections:

Front Cover. Provides information about the equipment covered by the TM.

Warning Summary. Provides a summary of all warnings that apply throughout the manual.

Table of Contents. Lists chapters and work packages in order of appearance.

Chapter 1, Description and Theory of Operation. Provides descriptions, equipment data, and theory of operation information.

Chapter 2, Operator Instructions. Provides donning information, data label information, and operating instructions in both usual and unusual conditions.

Chapter 3, Maintenance Procedures. Provides fitting instructions, PMCS, and maintenance procedures.

Chapter 4, Supporting Information. Provides reference information, components of the end item (COEI), and expendable and durable item list.

NAVIGATION

This TM is in work package format. All of the work packages contained within the TM are listed in the table of contents in the order they appear by chapters. The work package sequence number (e.g. WP 0001 00) is listed for each work package in the table of contents. The work package sequence number is at the top of each page of the work package and is also a part of the page number for each work package (e.g., WP 0001 00-1). The page numbers appear at the bottom of each page.

OPERATION AND MAINTENANCE

Operation. Before you use the BASIC, familiarize yourself with the donning and doffing instructions (Chapter 2), operating instructions (Chapter 2), and fitting instructions (Chapter 3). Perform the before PMCS procedures (Chapter 3) prior to starting operation. Read and follow the operating instructions contained in chapter 2. Always follow the WARNINGS and CAUTIONS. Perform the PMCS before using the BASIC, while wearing the BASIC during your mission, and after removing the BASIC.

Maintenance. When you perform maintenance, look over the entire procedure before beginning. Make sure you have the necessary tools and materials. Always observe WARNINGS and CAUTIONS.

BODY ARMOR SET, INDIVIDUAL COUNTERMINE (BASIC)
GENERAL INFORMATION

SCOPE

This manual covers the basic fitting and use instructions for the Body Armor Set, Individual Countermine (BASIC), hereafter referred to as BASIC.

MAINTENANCE FORMS, RECORDS, AND REPORTS

Department of the Army forms and procedures used for equipment maintenance will be those prescribed by DA PAM 738-750, Functional Users Manual for the Army Maintenance Management System (TAMMS).

REPORTING EQUIPMENT IMPROVEMENT RECOMMENDATIONS (EIR)

If your BASIC needs improvement, let us know. Send an EIR. You, the user, are the only one who can tell us what you don't like about your equipment. Let us know why you don't like the design or performance. Put it on an SF 368 (Product Quality Deficiency Report). Mail it to the address specified in DA PAM 738-750, or as specified by the contracting activity. We will send you a reply.

LIST OF ABBREVIATIONS/ACRONYMS

AP	Anti-Personnel
BASIC	Body Armor Set Individual Countermine
BDU	Battle Dress Uniform
ICWB	Intermediate Cold/Wet Boot
MOPP	Mission-Oriented Protection Posture
OTV	Outer Tactical Vest
PASGT	Personnel Armor System for Ground Troops
SCALPS	Suit, Contamination Avoidance Liquid Protective
TAMMS	Total Army Maintenance Management System
TTPs	Tactics, Techniques, and Procedures

END OF WORK PACKAGE

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CHAPTER 1
DESCRIPTION AND THEORY OF OPERATION
FOR
BODY ARMOR SET, INDIVIDUAL COUNTERMINE
(BASIC)

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BODY ARMOR SET, INDIVIDUAL COUNTERMINE (BASIC)
EQUIPMENT DESCRIPTION AND DATA

EQUIPMENT CHARACTERISTICS, CAPABILITIES, AND FEATURES

The BASIC is designed to provide protection to the soldier conducting countermine clearing operations by reducing the effects of blast and fragments from small to medium anti-personnel (AP) mines and booby traps. Although the BASIC enhances the protection to the soldier, the suit will not protect the wearer against the detonation of all AP mines; injury or death can occur from the effects of a detonated mine while wearing the BASIC. The BASIC provides varying levels of ballistic protection to distinct zones of the body and balances the levels of increased protection against the soldier's ability to accomplish countermine tasks. The standard precautions taken by a soldier during minefield clearing operations must still be applied when wearing the BASIC.

The BASIC is intended to be worn by soldiers when conducting area clearance countermine operations in accordance with FM 20-32 and applying appropriate tactics, techniques, and procedures (TTPs).

Only the types of boots and clothing listed in WP 0008 00 should be used with the BASIC components.

The BASIC is equipped with straps and hook and pile fasteners that enable the components to be easily removed in an emergency from an injured soldier.

LOCATION AND DESCRIPTION OF MAJOR COMPONENTS

The BASIC is made up of the following ballistic components:

- a. Helmet Cover (Ballistic)
- b. Face Shield
- c. Mine Protective Overboots
- d. Anti-Fragmentation Trousers (Ballistic)
- e. Vest Cover (Ballistic)
- f. Armor Chest Plate (Ballistic)
- g. Upper Arm Protector (Ballistic)
- h. Lower Arm Protector (Ballistic)
- i. Collar (Ballistic)
- j. Armor Groin Plate with Carrier (Ballistic)

Components of BASIC System



Table 1. Sizes

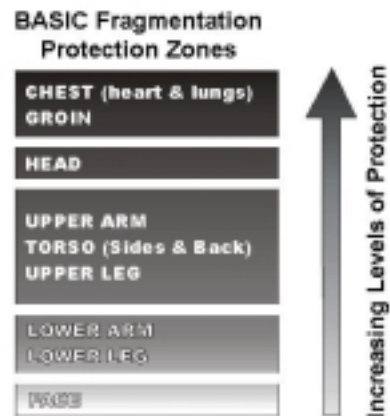
COMPONENT	SIZES AVAILABLE
Helmet Cover	Small, Medium, Large
Face Shield	One size fits all
Overboots	5,7,9,11,12
Trousers	Small, Medium, Large
Vest Cover	Small, Medium, Large
Armor Chest Plate	One size fits all
Upper Arm Protector	Small, Medium, Large
Lower Arm Protector	Small, Medium, Large
Collar	Small, Medium, Large
Armor Groin Plate	One size fits all
Groin Plate Carrier	One Size fits all

END OF WORK PACKAGE

**BODY ARMOR SET, INDIVIDUAL COUNTERMINE (BASIC)
THEORY OF OPERATION**

This work package discusses theory of operation and protective qualities of the BASIC system.

Armor plates are used to achieve the highest level of fragmentation protection for the chest and groin areas. Head area protection is achieved with a combined installation of the standard Personnel Armor System for Ground Troops (PASGT) helmet with a soft ballistic cover. The face shield does not provide the same level of protection provided by the helmet with cover. To provide optimal visual clarity, the face shield is constructed with a clear polycarbonate lens which provides reduced fragmentation protection. The neck, torso, arm and leg areas provide a range of ballistic protection through the use of multiple layers of ballistic materials which form a strong yet pliable barrier against mine fragments. The feet are protected with component materials designed to deflect blast and fragments away from the feet.



END OF WORK PACKAGE

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CHAPTER 2
OPERATOR INSTRUCTIONS
FOR THE
BODY ARMOR SET, INDIVIDUAL COUNTERMINE
(BASIC)

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OPERATION UNDER USUAL CONDITIONS
DONNING AND ADJUSTMENT

This work package contains instructions for donning and adjusting the BASIC.

1. **Helmet.** Be sure helmet assembly is put together (see WP 0010 00) prior to donning the BASIC.

2. **Overboots.**

a. Be sure you have the correct size overboot for the type and size boot you are wearing, see WP 0008 00.

b. Unfasten the buckles of the overboot and fully extend the tongue.

c. Place your boot into the overboot. Be sure your boot heel is seated at the back of the overboot for a secure fit.



- d. Fasten the overboot buckles and tighten the web straps until the overboot fits snugly over your boot.



WARNING

The overboot increases the height of your heel and sole. Use caution when walking to avoid tripping or twisting your ankle.

- e. Walk around briefly then re-adjust the overboot, but do not get it uncomfortably tight. It may be necessary to re-adjust during use.

3. Trousers.

NOTE

Assistance may be needed to don and properly adjust the trousers.

- a. Be sure you have the correct size trousers, see WP 0008 00.

NOTE

Steps b through g are best performed while standing.

- b. Hold the trousers in front of you with the inside facing you.

NOTE

A label located on the suspender strap points out the front end, which passes through the center front trouser loops.

- c. Fasten the suspenders so that they will crisscross at the back, and come straight down over the front of each shoulder to the trouser, by passing the ends through the loops on the top edge of the trousers and fastening the hook and loop fasteners.

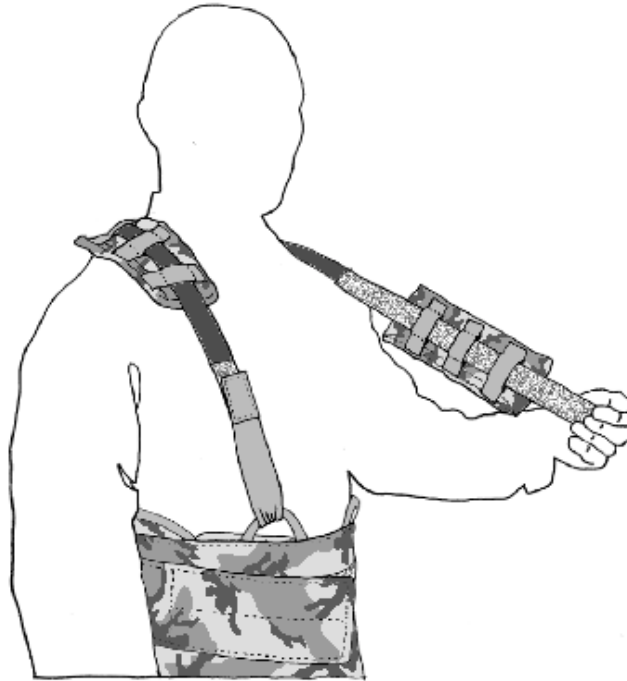


CENTER OPENING

- d. While holding the trousers in front of you with the inside facing you, pass your head through the center opening and pass your arms through the side openings of the suspenders.
- e. Wrap the trousers around your waist and secure with the waist belt.

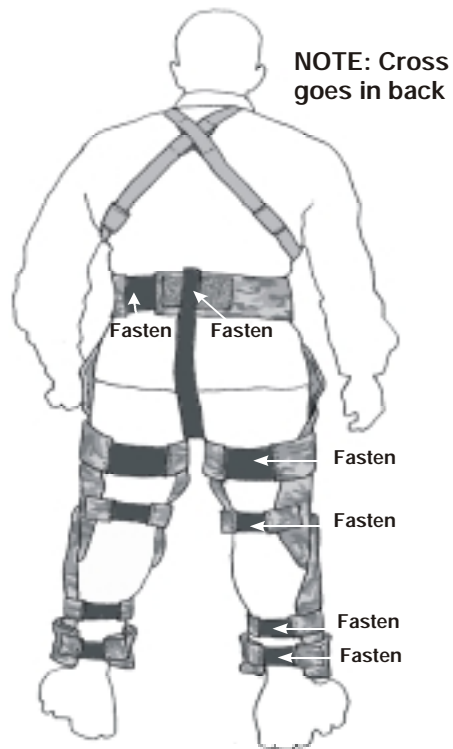
NOTE

Be sure pad is installed with the padded surface toward the shoulder for maximum comfort.



f. Install shoulder pads onto suspenders by, one at a time, unfastening each suspender, sliding the pad into position, and re-fastening the suspender.

g. Pull the elastic strap at the end of the groin protector back between the thighs and attach at the center back of the waist belt using the hook and pile fastener.



NOTE

If trousers are adjusted too low, they will restrict your movements.

h. Adjust the height of the trousers so that the groin protector is placed firmly against the groin area, and where movement is not restricted.

NOTE

Trouser leg may be cuffed to adjust length before fastening the bottom leg strap.

i. Beginning at the top of your thigh, the assistant fastens the leg straps around the back of the trousers. Complete one leg before fastening the other.

j. Verify trouser length is just below the top edge of the overboot.

k. Walk briefly, then adjust the leg straps so that the trousers fit securely, but do not restrict movement. Additional adjustments may be needed during a mission.

4. **Vest cover.** The vest cover will be worn over either the PASGT vest (with the collar up) or Interceptor Body Armor, Outer Tactical Vest (OTV). If wearing the OTV, assemble your OTV base vest without the collar, throat protector, groin protector, and small arms protective insert (SARI) plates located in the front and back OTV pockets. The PASGT vest does not require dismantling.

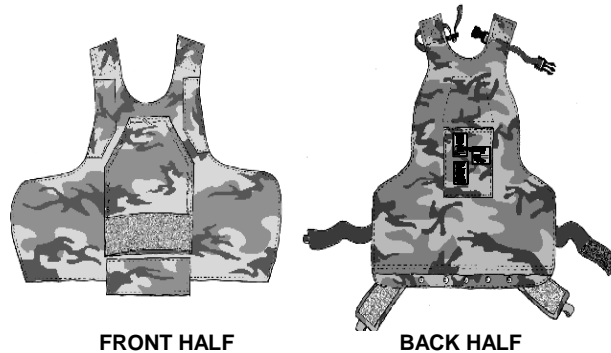
WARNING

For maximum protection against antipersonnel mines, wear the vest cover with your PASGT Vest or Interceptor Body Armor. The BASIC must be worn with either the Interceptor Body Armor or the PASGT Vest.

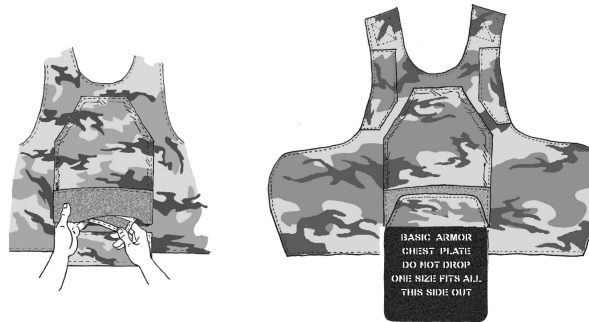
NOTE

Assistance may be needed to don and properly adjust the vest cover.

a. Be sure you have the correct size vest cover, see WP 0008 00, and that you have a front and back vest cover half. The front half has a pocket on the outside that is closed by means of a flap with hook and pile fastener to place the chest plate, and a flap, low on the front where the groin plate is attached. The back half has an open pocket on the inside, approximately mid back; the pocket is for the storage of this manual.



b. Open the chest plate pocket on the front half at the bottom edge, and insert armor chest plate, with the curve to the front, into the pocket of the vest cover. Secure the chest plate by closing the flap at the bottom of the pocket with the hook and pile fastener.



c. Be sure the fragmentation protective insert is in the back half of the vest cover by opening the bottom edge of the vest cover back half. If not in place, or improperly placed, perform the following steps:

NOTE

Skip step 2 if insert is not installed and you are installing an insert.

(1) Open vest cover back half at the bottom edge.

(2) Separate the protective insert from the vest cover. It is attached from both sides using hook and pile fasteners.

NOTE

Proper alignment is needed to allow the articulation of the insert and to prevent any folds in the material.

(3) Position protective insert so that it aligns with the hook and pile fasteners.

WARNING

Be sure that the fragmentation protective insert is not folded over inside the vest cover back half. Correct positioning is required to provide maximum available protection.

(4) Check for correct installation, then close the vest cover back half with the hook and pile fasteners.

d. Fasten the vest cover halves together at the shoulder tabs with the hook and pile fasteners.

e. Place your head through the center opening with the chest plate to the front.

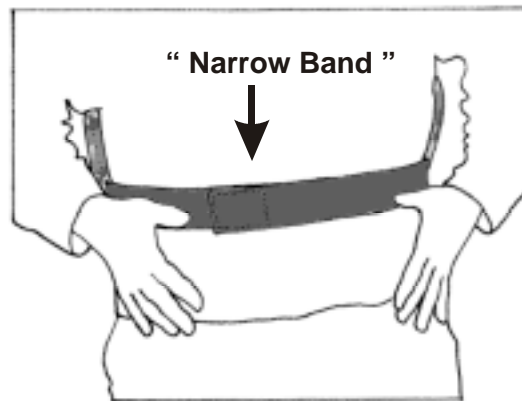
NOTE

Correct position of the vest cover is to have the neckline of the cover at the bottom edge of the PASGT collar or OTV neckline.

Vest is properly adjusted when the back half is against the PASGT collar or OTV neckline.

f. Adjust the hook and pile fasteners at each shoulder of the vest cover until the front neckline of the vest cover is at the bottom edge of the PASGT collar or OTV neckline and the back vest cover is against the PASGT collar or OTV neckline.

g. Wrap the narrow elastic band that is attached to the edges of the vest cover back half, around the mid section and under the front half of the vest cover.



NOTE

Assistance may be required to align the tabs.

h. Fasten the tabs at the sides of the vest cover front half, to the back half using the hook and pile fasteners.

i. Wrap the wide elastic band that is attached to the outside of the vest cover back half over the front of the vest cover front half and secure using the hook and pile fasteners.



5. **Armor Groin Plate.** The Armor groin plate attaches to the outside of the vest cover, below the chest plate. The groin plate is a one size fits all item.

NOTE

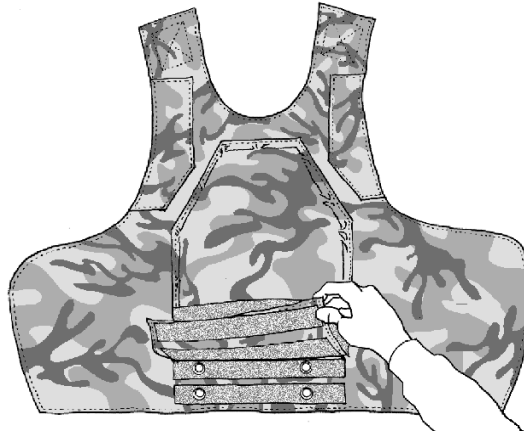
The back of the cloth carrier has two snaps, be sure the outwardly curved section of the groin plate is opposite the snaps.

- a. Insert the groin plate into the cloth carrier and close using the hook and pile fasteners.

**NOTE**

There are two rows of snap and pile combinations, an upper and lower position. Position the plate so that it is not too low to impede movement.

b. Lift the flap on the front of the vest cover and attach the groin plate by means of the hook and pile fasteners and snaps to one of the rows. Be sure the snaps from the cloth carrier to the vest cover are secured to prevent the plate coming loose during operations.

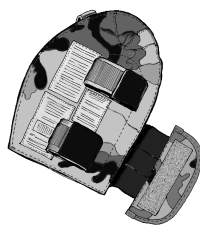


c. Close the vest cover flap over the groin plate using the hook and pile fasteners.

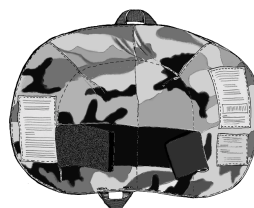
d. Pull the elastic strap that is attached to the bottom of the groin plate carrier back between your legs and attach to the outside of the back vest cover half using the hook and pile fastener. Adjust the slack in the strap so the groin plate does not impede movement.



5. Arm Protectors. The arm protectors are in two pieces, an upper and lower section. Assistance is needed to properly don the arm protectors.

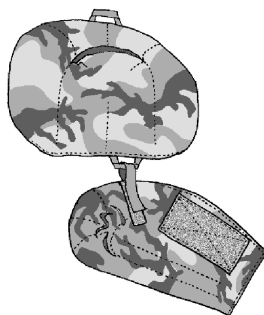


LOWER



UPPER

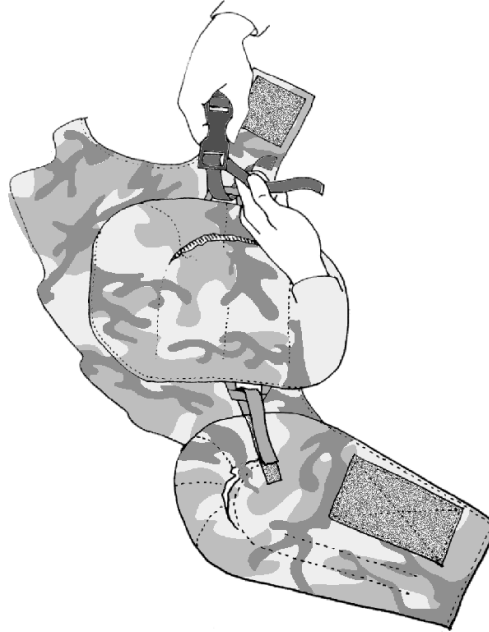
- a. Be sure you have the correct size arm protectors, see WP 0008 00.
- b. Begin with either the right or left set of arm protectors.
- c. Connect the lower arm protector to the upper arm protector by passing the strap from the lower arm through the loop at the bottom edge of the upper arm protector and fasten with the hook and loop fastener.



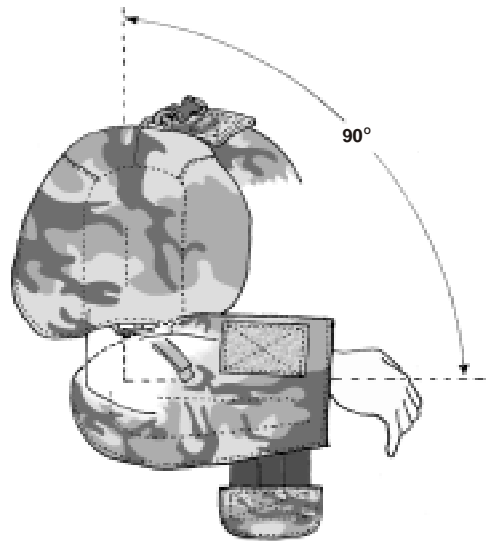
- d. Disconnect the buckle of the strap at the shoulder of the protective vest cover, and loosen the adjustment of the buckle
- e. Pass the strap from the vest cover, through the upper loop of the upper arm protector and fasten the buckle.

NOTE

If upper protector is positioned below elbow crease it will restrict movement.



f. Adjust the position of upper arm protector, so that the bottom edge of the upper arm protector is just above the crease of the elbow with the arm bent to approximately 90 degrees.

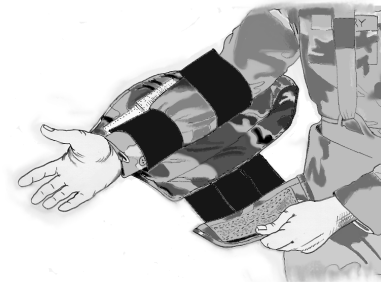


g. Fasten the upper protector around the upper arm using the strap and fasten with the hook and loop fastener.

NOTE

If lower protector is positioned below wrist crease, it will restrict movement.

h. Loosen the strap that attaches the lower to upper arm protector if necessary to make position adjustments. With the arm bent to approximately 90 degrees, and palm up, position the lower arm protector under the forearm, with the straight edge positioned just above the wrist crease.



i. Fasten the lower protector using the two elastic bands and fasten with the hook and pile fasteners. Reposition the arm protector if necessary.

j. Wrap the ballistic material of the lower arm protector around the forearm and secure using the elastic band with the wide tab and the hook and pile fastener.

6. **Collar.** The BASIC System collar is worn around the neck over the PASGT or OTV neckline.

- a. Be sure you have the correct size collar. See WP 0008 00.
- b. Wrap the collar around the neck so that the hook and pile fasten is on the right side of the neck.



- c. Fasten the collar using the hook and pile fastener.
- d. Position the collar so that it covers the neck to just below the ears, but allows free movement of the neck and chin.

WARNING

Ballistic cover and face shield add weight to the helmet. The assembly shifts the balance point forward. A high risk of injury to the neck may be expected when the soldier wearing the helmet, helmet cover, and face shield is subjected to external forces or accelerations such as falls, jumping from heights, vehicular movement over rough terrain, or direct impact to the helmet.

7. Helmet.

Don helmet assembly and secure with the PASGT chinstrap. The face shield is raised and lowered by pressing the ribbed section of the release hinge, and moving the face shield to the desired position.

END OF WORK PACKAGE

**OPERATION UNDER USUAL CONDITIONS
DOFFING INSTRUCTIONS**

This work package contains information about doffing the BASIC.

CAUTION

Hook and pile fasteners should be re-closed after items are removed to prevent damage to fasteners.

NOTE

Assistance may be required to remove the BASIC.

1. Close hook and pile fasteners after each item is removed.
2. Remove the PASGT helmet with helmet cover and face shield assembly.
3. Remove collar.
4. Remove lower and upper arm protectors.
5. Remove Armor groin plate with carrier.
6. Remove vest cover and PASGT (or OTV) vest.
7. Remove trousers, leaving the suspenders attached.
8. Remove overboots.

END OF WORK PACKAGE

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**OPERATION UNDER USUAL CONDITIONS, LOCATION AND
CONTENTS OF DATA PLATES/DECALS/LABELS**

This work package contains information about the location and contents of the data plates, decals, and labels found on the BASIC.

<p>BODY ARMOR SET, INDIVIDUAL COUNTERMINE ARMOR GROIN PLATE COVER</p> <p>One Size Fits All</p> <p>Contract Number DAAN02-98-C-4008</p> <p>NSN-8470-01-472-3536</p> <div></div> <p>Generation # _____</p> <p>Lot # _____</p> <p>Date of Manufacture _____</p>
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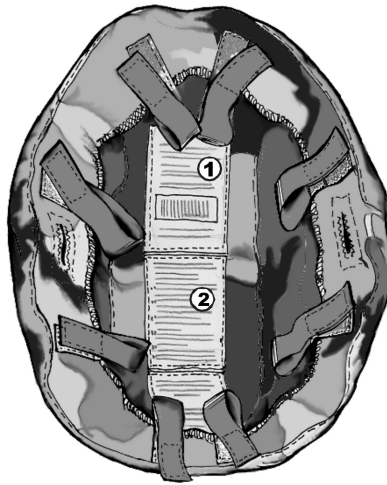
Typical Label 1

The hand washing instruction for each component shall be as follows.

HAND WASH ONLY

- 1) Remove armor plate
- 2) Scrape dirt/mud/dust from armor groin plate cover using a brush that will not cut fabric
- 3) Wash item in warm water using mild soap or detergent
- 4) Rinse thoroughly in clean warm water
- 5) Dry item in shade or indoors
- 6) **DO NOT** USE CHLORINE, BLEACH, YELLOW SOAP, CLEANING FLUIDS OR SOLVENTS - WILL DISCOLOR/ DETERIORATE THE ITEM
- 7) **DO NOT** DRY IN DIRECT SUNLIGHT, DIRECT HEAT OR NEAR OPEN FLAME
- 8) **DO NOT** LAUNDER OR DRY ITEM IN FIXED COMMERCIAL HOME-TYPE LAUNDRY EQUIPMENT

Typical label 2



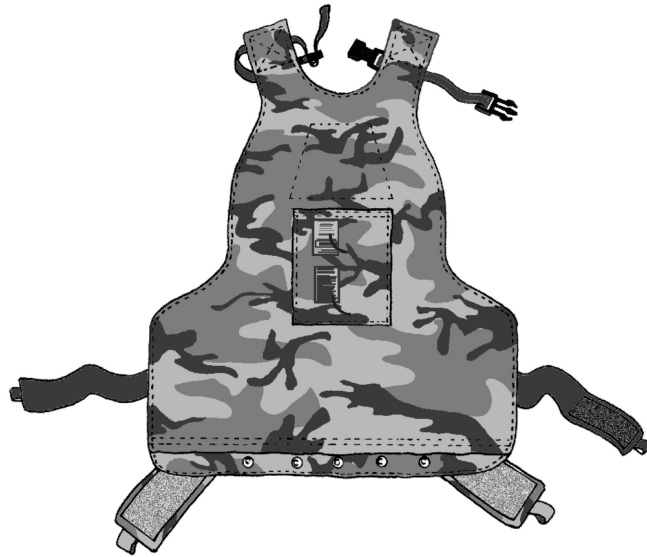
Location of typical labels on helmet cover



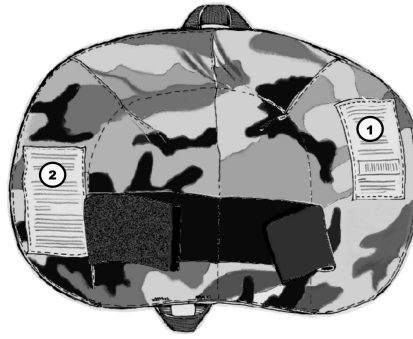
Location of typical labels on collar



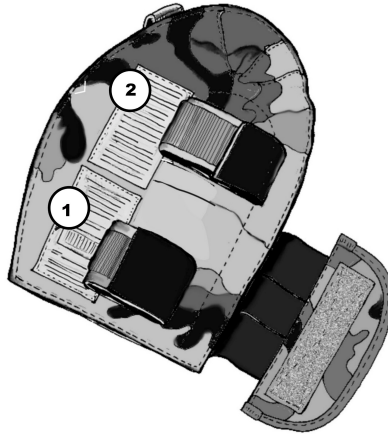
Location of typical labels on inside of vest cover front half



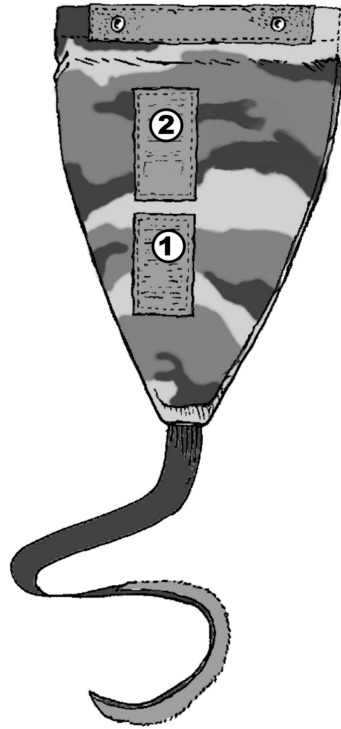
Location of Typical labels on vest cover back half



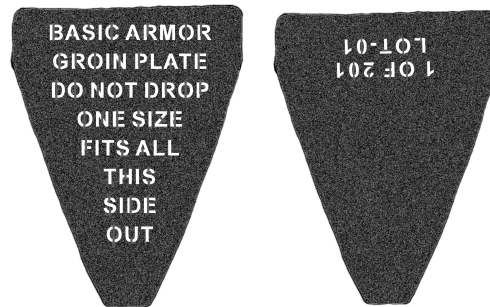
Location of typical labels on upper arm protector



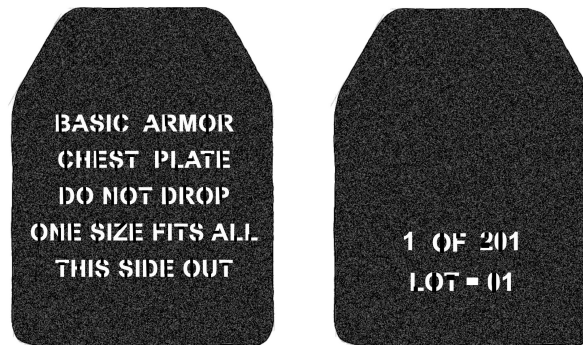
Location of typical labels on lower arm protector



Location of typical labels on groin plate carrier



Groin Plate Labels



Chest Plate Labels

END OF WORK PACKAGE

**OPERATION UNDER USUAL CONDITIONS, LOCATION AND
CONTENTS OF DATA PLATES/DECALS/LABELS**

1. Cold weather conditions (FM 21-11).

a. The BASIC may be worn over the Extended Weather Clothing System (ECWCS) when conditions warrant protection from a cold environment. The BASIC is donned over the ECWCS, which may require the use of larger BASIC component sizes than under normal conditions. Also the protective overboot will not fit over the Extreme Weather overboot. Use the Intermediate Cold/Wet boot (See Table 3, WP 0008 00).

b. Cold conditions add the risk of cold injuries such as hypothermia, chilblain, trench foot, frostnip, and frostbite. Seek medical attention if any of these conditions occur. When the BASIC is stored under cold conditions, it will act as a heat sink and draw body heat from the user. Additionally, the extra layers may trap moisture close to the body increasing the likelihood of cold related injuries.

c. Cold Stress prevention.

(1) Be able to recognize cold weather stress and injuries.

(2) When using cold weather gear, keep it clean, wear it in loose layers, and stay dry.

(3) Avoid overheating, perspiration will cause loss of insulation value, and the body will cool quicker.

(4) If the BASIC has been stored in a cold area, warm it prior to use to prevent a cold-soak/loss of body heat condition.

(5) Drink plenty of water. Dehydration reduces work capacity, appetite, and alertness, which can lead to cold stress injuries.

(6) Work using the buddy system. Check each other for signs of cold injury.

(7) Rotate periods of work based on cold exposure.

2. Hot weather conditions (FM 21-11).

a. Hot conditions add the threat of heat related illness. These include heat cramps, heat rash, heat exhaustion and heat stroke. All of these conditions require medical attention, and heat exhaustion and heat stroke require immediate medical attention. Table 1 contains the recommended work and rest times and recommended water intake.

b. Reduce the risk of heat related illness by:

(1) Increase water intake. Intake should be 1 to 1.5 quarts per hour while working, up to 12 quarts per day.

(2) Replace salt loss by eating all meals.

(3) Rotate periods of work based on heat exposure.

(4) When possible, work during coolest part of the day.

Table 1. Temperature Specifications/ Recommended Work Schedules/Rest Periods/Water Intake

Temperature (F)	Relative Humidity	Water Intake per Hour (qt.)*	Hourly Work/Rest Schedule Minutes	Maximum Work Time in 24 Hour Cycle minutes
≤77	Low-High	3/4	40/20	160
77-90	Low-Moderate (≤74.5%)	3/4	40/20	160
77-90	High (>75%)	1	30/30	120
90-100	Low-High	1	30/30	120
100-105	Low-Moderate (≤74.5%)	1	30/30	120
100-105	High (>75%)	1	20/40	80
105-108	Low-High	1	20/40	80
108-110	Low (≤50%)	1	20/40	80
108-110	Moderate-High (>50.5%)	1.5	10/50	40
>110	Low-High	1.5	NFW**	NFW**

* Individual requirements will vary by ± 0.25 qt.
 ** (NFW) No Further Work. Stop Mine Clearing Operations and Remove BASIC.

3. NBC Environment.

a. The BASIC is donned over the MOPP gear, which may require the use of larger sizes than under normal conditions. Don all components of MOPP gear except for the protective boots.

b. Remove face shield from helmet assembly (WP 0011 00) since the NBC protective mask interferes with the face shield.

WARNING

Use of the BASIC with MOPP gear increases the possibility of heat illness.

c. Don BASIC. See WP 0004 00.

d. Don BASIC and Suit, Contamination Avoidance, Liquid Protection (SCALPS) over your overboots.

The BASIC P3I is decontaminable for disposal only; not to be reused. If exposed to CB agents MOPP IV posture must be maintained until BASIC P3I has been safely disposed. (FM 3-5, Tactics of Chemical Warfare)

4. Water Conditions.

Working near water, especially near deep water poses additional risk due to the weight of the BASIC. If immersed in deep water, follow these procedures:

a. Remove and discard helmet assembly.

b. If shore, boat, or other means of safety is close (a few feet) swim to the safe location.

c. If step b is not possible, drop the chest and groin plate. Remove overboots. Remove the remainder of the BASIC, and form the components into a ball and utilize the flotation available from these components.

END OF WORK PACKAGE

CHAPTER 3
OPERATOR MAINTENANCE INSTRUCTIONS
FOR THE
BODY ARMOR SET, INDIVIDUAL COUNTERMINE
(BASIC)

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Table 2. Sizing Information for Protective Overboot over combat boots

Combat Boot Size	Protective Overboot Style
4-6	5
6-8	7
8-10	9
10-12	11
11-13	12

3. Protective Overboot over Intermediate Cold/Wet Boots (ICWB). Due to the thick ICWB sole, the BASIC overboot only fits over an ICWB boot that is one size smaller. Refer to table 3 for the recommended overboot size.

Table 3. Sizing Information for Protective Overboot over ICWB.

ICWB Size	Protective Overboot Style
3-4	5
4-6	7
6-8	9
8-10	11
9-11	12

WARNING

Be sure to evaluate the fit of Overboots when worn with alternate military footwear before beginning a mission.

The protective overboot may be worn over other standard military footwear when proper fit can be obtained. There are certain types of footwear that the protective overboot cannot be worn over, such as the vapor barrier boot. Be sure that the overboot fits properly before conducting a mission.

4. **Vest Cover and Collar.** The BASIC vest cover and collar are available in three sizes and are intended to be worn over the basic PASGT vest or the OTV. The collar comes with the vest cover in the same sizes, but may be mixed with other sizes to achieve the best fit. The users chest circumference is measured at the fullest part of the chest. Refer to table 4 for the recommended vest cover and collar size.



Table 4. Sizing Information for Vest Cover and Collar

Chest Circumference (Inches)	Vest Cover/Collar Size
less than 36	Small
36-42	Medium
greater than 42	Large

5. **Upper and lower arm protectors.** BASIC upper and lower arm protectors come in three sizes. They are intended to be worn over the sleeves of Battle Dress Uniforms (BDU) or over exposed arms when short sleeve garments are worn. A long sleeve garment should be worn to minimize the chafing of the skin on the arms. Predicted sizes from the outseam measurement will be the same for both the upper and lower protectors, however, upper and lower protectors of different sizes may be mixed to achieve a better fit. Sleeve outseam is measured from the top of the shoulder joint, to the wrist using a tape measure. Be sure the arms are hanging to the side and slightly bent when obtaining the measurement. Refer to table 5 for the recommended arm protector size.



Table 5. Sizing Information for Upper and Lower Arm Protector

Sleeve Outseam (inches)	Arm Protector Size
less than 22	Small
22-24	Medium
greater than 24	Large

6. **Anti-Fragmentation Trouser.** The BASIC Anti-Fragmentation Trouser comes in three sizes. The Trouser is intended to be worn over BDUs. The Trouser inseam is derived from measuring from the crotch to the ground (or floor) and subtracting 2 inches to derive the inseam measurement. Refer to table 6 for the recommended trouser size.



Table 6. Sizing Information for Anti-Fragmentation Trousers

Inseam (inches)	Trouser Size
less than 30	Small
30-32	Medium
greater than 32	Large

END OF WORK PACKAGE

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**OPERATOR MAINTENANCE
PREVENTIVE MAINTENANCE CHECKS AND SERVICES**

INTRODUCTION

General

Preventive maintenance checks and services (PMCS) are performed to keep the BASIC in operating condition. The checks are used to find, correct, or report problems. Operator is to do the PMCS jobs as shown in the PMCS table. PMCS is to be done before and after use of the BASIC.

Before you use the BASIC, do the PMCS.

During use of BASIC periodically perform PMCS.

After you have used the BASIC, perform PMCS.

PMCS COLUMN DESCRIPTION

ITEM - The order the PMCS should be performed and a reference number for maintenance forms.

INTERVAL - Tells when the check should be performed.

ITEM TO BE CHECKED OR SERVICED - Tells which item to perform the PMCS procedure on.

PROCEDURE - Tells the procedure to perform. If item cannot be repaired, it must be replaced.

EQUIPMENT NOT READY IF: - Tells what conditions render the BASIC unfit to perform the mission.

Table 1. Preventive Maintenance Checks and Services

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY IF:
1	Before	Vest Cover/ Trousers/ collar/ overboots/ groin plate carrier	<p>Check for:</p> <p>1) Tears, cuts, or snags and soiling. For tears less than 1 inch refer to WP 0013 00 for repair procedures. If tears are over 1 inch, refer to higher level maintenance for repair.</p> <p>Soiling refer to WP 0012 00 00 for cleaning procedures.</p> <p>2) Exposure of yellow filler</p> <p>3) Lumping or bunching of ballistic materials</p>	<p>Cuts or tears are greater than 1 inch in size. Gray or dirty areas on ballistic filler which may conceal cuts or tears.</p> <p>Filler is exposed</p> <p>When lumping and/or bunching cannot be flattened or removed by smoothing with your hand</p>

Table 1. Preventive Maintenance Checks and Services (cont)

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY IF:
2	Before	Hook and Pile fasteners	Inspect hook and pile fasteners for tearing or damage. Refer damaged hook and pile fasteners to higher level maintenance for repair.	Fasteners are damaged such that they will not fasten securely causing improper fit
3	Before	Straps/ Elastic Webbing	Inspect straps and elastic webbing for damage. If damaged, refer to higher level maintenance for repair.	Straps or webbing are damaged and will not function properly causing improper fit
4	Before	Face shield	Inspect for cracks and scratches	Face shield is scratched such that it is difficult to see clearly through it, or it is cracked.

Table 1. Preventive Maintenance Checks and Services (cont)

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY IF:
5	Before	Ballistic Plates	1) Shake the plate to see if it rattles 2) Check for individual chips on the black surface coating 3) Check for cracks.	1) Plate rattles 2) Chips are greater than 1 inch in diameter 3) Cracks are greater than 1 inch long or 1/16 inch wide in the inner ballistic material (white)
6	During	Fasteners/ Straps	Inspect for secure fit and proper function of straps/fasteners as well as damage	Straps or fasteners are damaged such that secure and proper fit cannot be maintained
7	After	BASIC	Inspect for explosive fragment hits	Fragments are embedded in the ballistic

Table 1. Preventive Maintenance Checks and Services (cont)

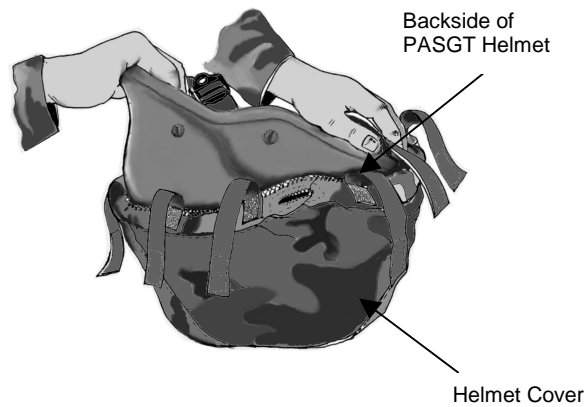
ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY IF:
8	After	Vest Cover/ Trousers/ collar/ overboots/ groin plate carrier	Check for tears, cuts, or snags. Refer any torn, cut, or snagged items to higher level maintenance for repair	filler (yellow material) or tears/ cuts, soiling from fragment hits are found Tears, cuts, or snags are found.

END OF WORK PACKAGE

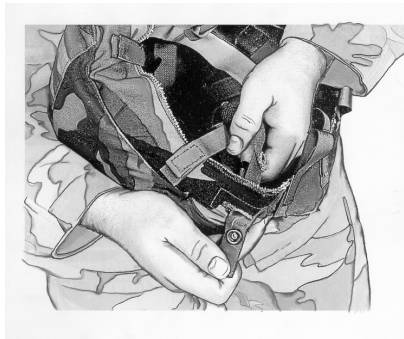
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c. Remove and stow standard camouflage cover (not the ballistic helmet cover) from helmet.

d. Slide the helmet into the ballistic cover, starting from the back of the helmet, and pull cover around the brim. Adjust the helmet cover until it overlaps the edge of the PASGT helmet evenly around the brim.



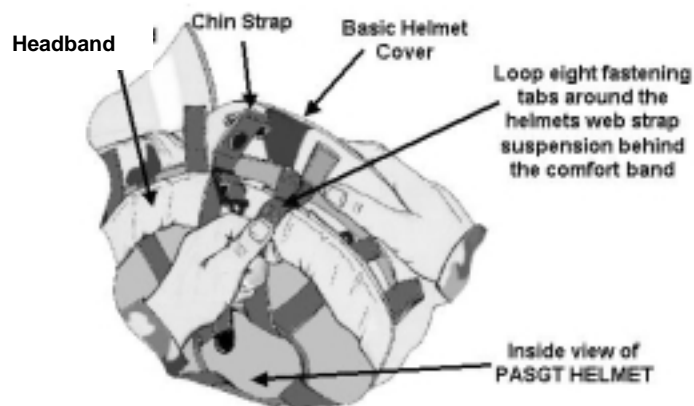
e. Unsnap the chinstrap from the PASGT helmet. Pass the ends of the chinstrap through the buttonholes of the helmet cover.



NOTE

Do not fasten the back 2 center tabs.

f. Loop each fastening tab of the helmet cover around the PASGT helmet's fixed web suspension, located behind the headband except for the two back center tabs.



DETAIL: Installing the PASGT helmet cover over the standard PASGT helmet cloth cover.

Face shield. The BASIC Face shield is installed over the PASGT helmet and BASIC Helmet Cover. Assemble the shield to the helmet before donning the rest of the BASIC system to avoid heat stress. Don the assembled helmet with shield only after you have donned the rest of the BASIC.

a. Loosen the black web strap as much as possible while keeping the strap through the buckle.

b. Center the "J" hooks on the strap, opposite of the shield, approximately two inches apart.

c. In a sitting position, place the PASGT helmet with cover on your legs, with the inside up and the front away from you.



d. With the face shield assembly upside down and in the deployed position (down), hook the black plastic gutter over the front lip of the helmet, then position the web strap around the helmet, with the adjusting buckle all the way to one side. See figure above.

e. Pass the two "J" hooks through the button holes at the back center of the helmet cover and hook them over the edge of the PASGT helmet.



DETAIL of "J" hooks: PASGT helmet shown upside down showing the "J" hooks through the button holes at the back center of the helmet.

f. Pass the back center tabs behind the helmet web strap suspension and attach the strap's hook fastener to the pile fastener on the ballistic cover.

g. Work the strap from the side opposite the buckle through the "J" hooks so that it is snug and lays flat.

h. Tighten the strap at the buckle while making sure the black plastic gutter remains centered on the front of the PASGT helmet and the seal lies smoothly with no folds of material bunched underneath.

END OF WORK PACKAGE

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**OPERATOR MAINTENANCE
FACE SHIELD DISASSEMBLY PROCEDURE**

INITIAL SETUP**Tools/Special Tools Personnel Required**

None

1

1. Remove face shield.

a. Loosen strap.

b. Unfasten the two helmet cover tabs at the back of the PASGT helmet.

c. Unhook shield hooks from helmet and pass them through the helmet cover.

d. Unhook front of face shield from the helmet and remove the shield.

2. Remove helmet cover.

a. Unfasten helmet cover tabs from around the helmet fixed web suspension.

b. Remove helmet cover from the PASGT helmet.

END OF WORK PACKAGE

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**OPERATOR MAINTENANCE
CLEANING INSTRUCTIONS**

INITIAL SETUP

Tools/Special Tools	Personnel required
None	1

Materials Required**References**

Cloth, cleaning (item 1, WP 0018 00)	None
Brush, soft bristle (items 2-4, WP 0018 00)	
Rag (item 5, WP 0018 00)	
Detergent, mild (items 6-7, WP 0018 00)	
Solvent, dry cleaning (item 8, WP 0018 00)	
Soap, mild (item 9, WP 0018 00)	
Measuring tape (item 10, WP 0018 00)	

1. The BASIC items listed below may be cleaned using the following instructions.

Helmet Cover
Trousers
Front and Rear Vest Cover Halves
Cloth Carrier for Groin Plate
Upper and Lower arm protectors
Collar

a. Remove Ballistic inserts from front and back vest cover halves and the cloth carrier for the groin plate.

b. Remove as much dirt/mud/dust from BASIC material as possible using brush (items 2,3 and 4, WP 0018 00).

CAUTION

Do not use chlorine bleach, yellow soap, cleaning fluids or solvents.

Do not launder or dry components of the BASIC in commercial or home type laundry equipment.

- c. Hand wash in warm water using mild soap (item 9, WP 0018 00) or mild detergent (items 6 and 7, WP 0018 00)

CAUTION

Do Not dry in direct sunlight, direct heat, or near an open flame.

- d. Dry item in shade or indoors.

2. Chest Plate and Groin Plate**CAUTION**

Never use a stiff bristle or wire brush.

- a. Remove loose dirt and lint from outer surface using a clean cloth (item 1, WP 0018 00) or soft bristle brush (item 3, WP 0018 00).

CAUTION

Do not submerge armor plates in water.

- b. Heavy grease or oil stains may be pre-spotted with dry cleaning solvent (item 8, WP 0018 00) and mild detergent (items 6-7, WP 0018 00) and scrubbed with a soft brush (items 2,3 and 4, WP 0018 00).

c. If needed, plates may be cleaned using a rag (item 5, WP 0018 00) or brush (items 2, 3 and 4, WP 0018 00) dipped in a solution of mild detergent (items 6 and 7, WP 0018 00).

d. Wipe armor plate(s) with damp cloths (item 1, WP 0018 00) until all soap or solvent is removed.

CAUTION

Do not dry in direct sunlight, direct heat,
or near an open flame.

e. Wipe plate(s) with dry cloth (item 1, WP 0018 00) and allow to air dry.

3. Face Shield.

CAUTION

Washing face shield without first rinsing
may scratch surface.

Do not use ammonia, alkaline cleaners,
abrasive compounds or solvents.

a. Rinse off any dirt/mud/dust for face shield using clean warm water.

b. Hand wash item using soft cloth (item 1, WP 0018 00) and mild soap (item 9, WP 0018 00) or mild detergent (items 6 and 7, WP 0018 00) solution.

c. Rinse with clean warm water until all soap or detergent is removed.

CAUTION

Do not rub the polycarbonate face shield.
Doing so may scratch the surface.

d. Pat the polycarbonate shield with a dry soft cloth (item 1, WP 0018 00) to pick up excess moisture, then allow to air dry.

4. Overboots

a. Brush off excess dirt with a soft brush (items 2, 3, or 4 WP 0018 00).

b. Wash overboot with warm water.

CAUTION

Do Not dry in direct sunlight, direct heat,
or near an open flame.

3. Air dry overboot.

END OF WORK PACKAGE

OPERATOR MAINTENANCE
GENERAL REPAIR

For repairs not contained herein, turn in for repair.

1. Tears or cuts less than one inch may be temporarily repaired using tape, item 10, WP 0018 00. Tape should extend at least 1/2 inch beyond the ends of the tear or cut. The suit will be referred to higher maintenance after the mission is completed.

END OF WORK PACKAGE

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**OPERATOR MAINTENANCE
PREPARATION FOR STORAGE**

INITIAL SETUP**Materials required**

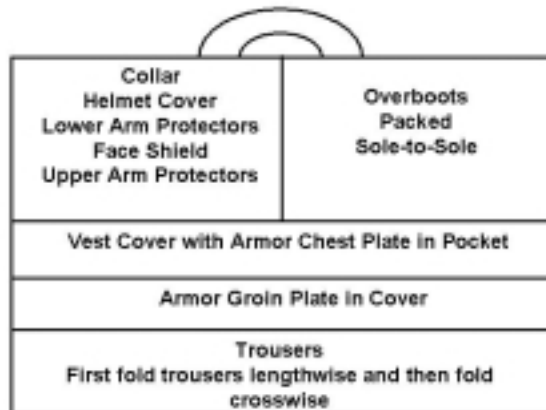
Cloth (item 1, WP 0018 00)
Sheet, plastic (item 11, WP 0018 00)

1. Clean all components (WP 0011 00) and secure all closures before storing.

CAUTION

Minimize folding or bunching of ballistic components. Repeated folding in the same location can increase the potential of abrading the ballistic components thus decreasing the item's service life.

2. The BASIC may be stored in a bag/container or Air Force Bag (item 1 WP 0017 00). The following steps provide folding instructions and suggested packing of the Air Force bag.



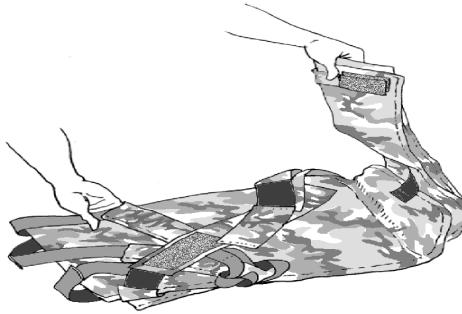
Carry Bag for BASIC Components

0014 00-1

3. Folding Instructions:

a. Trousers – Layer 1.

- (1) Fold lengthwise along crotch seam.



- (2) Then fold crosswise along knee.

- (3) Place in bottom of storage bag, or container.

b. Armor Groin Plate – Layer 2.

- (1) Place armor groin plate in carrier and secure closure.

NOTE

Closing hook and loop fasteners will eliminate snagging other materials.

(2) Engage groin plate carrier elastic webbing, hook fastening tape to groin carrier loop fastening tape.



Front View



Rear View

(3) Place armor groin plate in carrier on folded trouser

c. Vest Cover and Armor Chest Plate – Layer 3.

(1) Place armor chest plate in pocket and secure closure.

(2) Check that all other vest cover closures are secure.

(3) Lay vest cover with armor plate flat or with slightly rolled lengthwise edges on top of the groin plate.

d. Disconnect upper arm protectors from lower arm protectors.

NOTE

The ballistic inserts will cushion and protect the face shield visor.

e. Place (insert) face shield visor section between left and right upper arm protectors and place into one end of bag.

f. Place upper arm protectors and face shield, next to the PASGT helmet.

g. Place lower arm protectors (slightly rolled from engaged closures), helmet cover (folds naturally along lengthwise of center crown), and collar (folds naturally lengthwise along center front and back) on top of the upper arm protectors and face shield.

NOTE

Positioning the overboots sole-to-sole will assist in concentrating any attached dirt and debris to one area

h. Position overboots to have sole-to-sole contact. Place overboots beside the upper arm protectors.

i. Close the bag.

4. If not using Air Force bag, cover components with cloth (WP 0017 00) or plastic sheet (item 11, WP 0018 00).

END OF WORK PACKAGE

CHAPTER 4
SUPPORTING INFORMATION
FOR THE
BODY ARMOR SET, INDIVIDUAL COUNTERMINE
(BASIC)

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**SUPPORTING INFORMATION
REFERENCES**

This work package lists all field manuals, forms, technical manuals, and miscellaneous publications referenced in this manual.

FIELD MANUALS

FM 3-5	Tactics of Chemical Warfare
FM 20-32	Mine/countermine Operations
FM 21-11	First Aid for Soldiers

FORMS

DA Form 2028	Recommended changes to Publications and Blank Forms
SF 368	Product Quality Deficiency Report

TECHNICAL MANUALS

TM 10-8400-203-23	Unit and Direct Support Maintenance Manual for General Repair Procedures for Individual Equipment
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MISCELLANEOUS PUBS

DA PAM 738-750	Functional User's Manual for the Army Maintenance Management System (TAMMS)
MIL-B-41816	Boots, Cold Weather, Insulated, Rubber (Wet-Cold: Dry-Extreme Cold)
MIL-O-43995	Overshoes, Men's and Women's, Boot, Combat
MIL-B-44426	Boots, Intermediate Cold/Wet

END OF WORK PACKAGE

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**SUPPORTING INFORMATION—COMPONENTS OF END ITEM
AND BASIC ISSUE ITEMS LISTS**

INTRODUCTION**Scope**

This work package lists COEI and BII for the Body Armor Set, Individual Countermine (BASIC) to help you inventory items for safe and efficient operation of the equipment.

General

The COEI and BII information is divided into the following lists:

Components of End Item (COEI). This list is for information purposes only and is not authority to requisition replacements. These items are part of the Body Armor Set, Individual Countermine (BASIC). As part of the end item, these items must be with the end item whenever it is issued or transferred between property accounts. Items of COEI are removed and separately packaged for transportation or shipment only when necessary. Illustrations are furnished to help you find and identify the items.

Basic Issue Items (BII). There are no Basic Issue Items for the Body Armor Set, Individual Countermine (BASIC).

Explanation of Columns in the COEI List

Column (1) — National Stock Number (NSN). Identifies the stock number of the item to be used for requisitioning purposes.

Column (2) — Description, CAGEC, and Part Number. Identifies the Federal item name (in all capital letters) followed by a minimum description when needed. The stowage location of COEI and BII is also included in this column. The last line below the description is the CAGEC (commercial and Government entity code) (in parentheses) and the part number.

Column (3) — Unit of Issue (U/I). Indicates the count of the item as issued per the National Stock Number shown in column (2).

Column (4) — Qty Rqr. Indicates the quantity required.

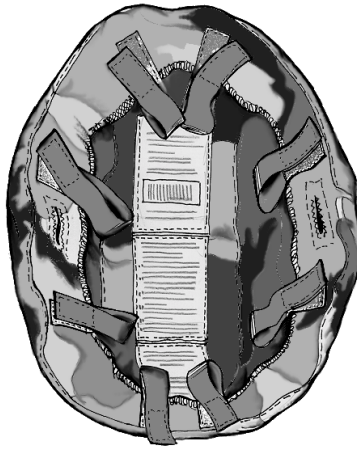


Table 1. Components of End Item List

(1) NATIONAL STOCK NUMBER	(2) DESCRIPTION, CAGEC, AND PART NUMBER	(3) U/I	(4) QTY RQR
8470-01-472-1904	Small Helmet Cover, Ballistic 4P613, CY00-002 SMALL	EA	1
8470-01-472-1905	Medium Helmet Cover, Ballistic 4P613, CY00-002 MEDIUM	EA	1
8470-01-472-1906	Large Helmet Cover, Ballistic 4P613, CY00-002 LARGE	EA	1



Table 1. Components of End Item List (Cont)

(1) NATIONAL STOCK NUMBER	(2) DESCRIPTION, CAGEC, AND PART NUMBER	(3) U/I	(4) QTY RQR
8465-01-467-0721	Face Shield 01365, PD/C0-99-14	EA	1



Table 1. Components of End Item List (Cont)

(1) NATIONAL STOCK NUMBER	(2) DESCRIPTION, CAGEC, AND PART NUMBER	(4) U/I	(5) QTY RQR
8470-01-472-3445	Small Ballistic Collar 4P613, C9Y00-011 SMALL	EA	1
8470-01-472-3448	Medium Ballistic Collar 4P613, C9Y00-011 MEDIUM	EA	1
8470-01-472-3449	Large Ballistic Collar 4P613, C9Y00-011 LARGE	EA	1

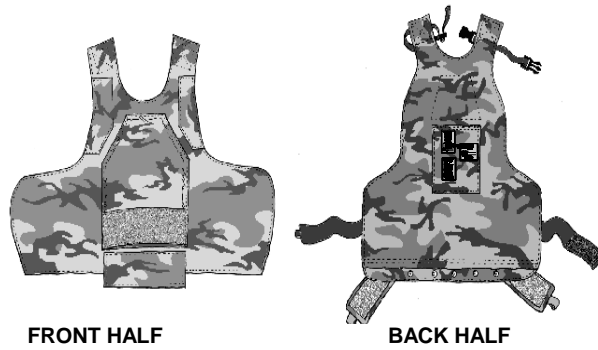


Table 1. Components of End Item List (Cont)

(1) NATIONAL STOCK NUMBER	(2) DESCRIPTION, CAGEC, AND PART NUMBER	(3) U/I	(4) QTY RQR
8470-01-472-3593	Small Ballistic Vest Cover including Kevlar insert in pack piece of vest cover 4P613, CY00-005	EA	1
8470-01-472-3595	Medium Ballistic Vest Cover including Kevlar insert in pack piece of vest cover 4P613, CY00-005	EA	1
8470-01-472-3596	Large Ballistic Vest Cover including Kevlar insert in pack piece of vest cover 4P613, CY00-005	EA	1

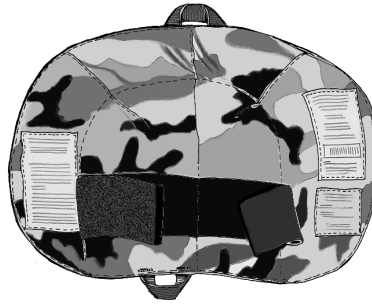
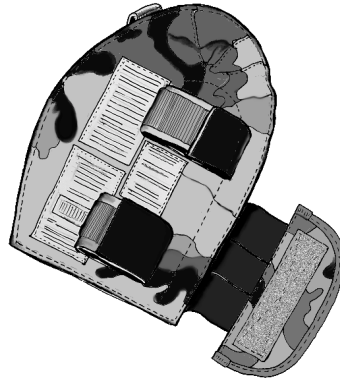


Table 1. Components of End Item List (Cont)

(1) NATIONAL STOCK NUMBER	(2) DESCRIPTION, CAGEC, AND PART NUMBER	(3) U/I	(4) QT Y RQ R
8470-01-472-3152	Small Ballistic Arm Protector, Upper Right Arm 4P613, CY00-008	EA	1
8470-01-472-3153	Medium Ballistic Arm Protector, Upper Right Arm 4P613, CY00-008	EA	1
8470-01-472-3154	Large Ballistic Arm Protector, Upper Right Arm 4P613, CY00-008	EA	1
8470-01-472-3247	Small Ballistic Arm Protector, Upper Left Arm 4P613, CY00-007	EA	1
8470-01-472-3249	Medium Ballistic Arm Protector, Upper Left Arm 4P613, CY00-007	EA	1
8470-01-472-3250	Large Ballistic Arm Protector, Upper Left Arm 4P613, CY00-007	EA	1

Table 1. Components of End Item List (Cont)



(1) NATIONAL STOCK NUMBER	(2) DESCRIPTION, CAGEC, AND PART NUMBER	(3) U/I	(4) QTY RQR
8470-01-472-3457	Small Ballistic Arm Protector, Lower Right Arm 4P613, CY00-010 SMALL	EA	1
8470-01-472-3458	Medium Ballistic Arm Protector, Lower Right Arm 4P613, CY00-010 MEDIUM	EA	1
8470-01-472-3461	Large Ballistic Arm Protector, Lower Right Arm 4P613, CY00-010 LARGE	EA	1
8470-01-472-3451	Small Ballistic Arm Protector, Lower Left Arm 4P613, CY00-009 SMALL	EA	1
8470-01-472-3455	Medium Ballistic Arm Protector, Lower Left Arm 4P613, CY00-009 MEDIUM	EA	1
8470-01-472-3456	Large Ballistic Arm Protector, Lower Left Arm 4P613, CY00-009 LARGE	EA	1



Table 1. Components of End Item List (Cont)

(1) NATIONAL STOCK NUMBER	(2) DESCRIPTION, CAGEC, AND PART NUMBER	(3) U/I	(4) QTY RQR
8470-01-478-3652	Body Armor Chest Plate 4P613, CY00-040	EA	1



Table 1. Components of End Item List (Cont)

(1) NATIONAL STOCK NUMBER	(2) DESCRIPTION, CAGEC, AND PART NUMBER	(3) U/I	(4) QTY RQR
8470-01-472-3538	Armor Groin Plate 4P613, CY00-12	EA	1

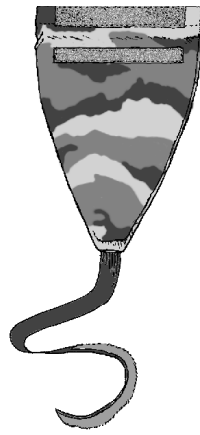


Table 1.
Components of End Item List (Cont)

(1) NATIONAL STOCK NUMBER	(2) DESCRIPTION, CAGEC, AND PART NUMBER	(3) U/I	(4) QTY RQR
8470-01-472-3536	Armor Groin Plate Carrier 4P613, CY00-013	EA	1



Table 1. Components of End Item List (Cont)

(1) NATIONAL STOCK NUMBER	(2) DESCRIPTION, CAGEC, AND PART NUMBER	(3) U/I	(4) QTY RQR
8470-01-472-3421	Small Trousers, Anti-Frag 4P613, CY00-004 SMALL	PR	1
8470-01-472-3426	Medium Trousers, Anti-Frag 4P613, CY00-004 MEDIUM	PR	1
8470-01-472-3435	Large Trousers, Anti-Frag 4P613, CY00-004 LARGE	PR	1



Table 1. Components of End Item List (Cont)

(1) NATIONAL STOCK NUMBER	(2) DESCRIPTION, CAGEC, AND PART NUMBER	(3) U/I	(4) QTY RQR
8470-01-472-4255	Size 5 - Overboots, Ballistic 4P613, CY00-003	PR	1
8470-01-472-4257	Size 7 - Overboots, Ballistic 4P613, CY00-003	PR	1
8470-01-472-4259	Size 9 - Overboots, Ballistic 4P613, CY00-003	PR	1
8470-01-472-4263	Size 11 - Overboots, Ballistic 4P613, CY00-003	PR	1
8470-01-472-4264	Size 12 - Overboots, Ballistic 4P613, CY00-003	PR	1

END OF WORK PACKAGE

0016 00-12

SUPPORTING INFORMATION
ADDITIONAL AUTHORIZATION LIST (AAL)

INTRODUCTION**Scope**

This work package lists additional items you are authorized for the support of the BASIC.

General

This list identifies items that do not have to accompany the BASIC and that do not have to be turned in with it. These items are all authorized to you by CTA, MTOE, TDA, or JTA.

Explanation of Columns in the AAL

Column (1) — National Stock Number (NSN). Identifies the stock number of the item to be used for requisitioning purposes.

Column (2) — Description, Commercial and Government Entity Code (CAGEC), and Part Number (P/N). Identifies the Federal item name (in all capital letters) followed by a minimum description when needed. The last line below the description is the CAGEC (in parentheses) and the part number.

Column (3) — Unit of Measure (U/M). Indicates the physical measurement or count of the item as issued per the National Stock Number shown in column (1).

Column (4) — Qty Recm. Indicates the quantity recommended.

Table 1. Additional Authorization List

(1) NATIONAL STOCK NUMBER	(2) DESCRIPTION, CAGEC, AND PART NUMBER	(3) U/M	(4) QTY RECM
8460-00-606-8366	Air Force Carry Bag, (Kit Bag, Flyers)	C	1

END OF WORK PACKAGE

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SUPPORTING INFORMATION
EXPENDABLE AND DURABLE ITEMS LIST

INTRODUCTION**Scope**

This work package lists expendable and durable items that you will need to operate and maintain the Body Armor Set, Individual Countermine (BASIC). This list is for information only and is not authority to requisition the listed items. These items are authorized to you by CTA 50-970, Expendable/Durable Items (Except Medical, Class V Repair Parts, and Heraldic Items), or CTA 8-100, Army Medical Department Expendable/Durable Items.

Explanation of Columns in the Expendable/Durable Items List

Column (1) — Item Number. This number is assigned to the entry in the list and is referenced in the narrative instructions to identify the item (e.g., Use brake fluid (item 5, WP 0098 00).

Column (2) — Level. This column identifies the lowest level of maintenance that requires the listed item (*include as applicable: C = Operator/Crew, O = Unit/AVUM, F = Direct Support/AVIM, H = General Support, D = Depot*).

Column (3) — National Stock Number (NSN). This is the NSN assigned to the item, which you can use to requisition it.

Column (4) — Item Name, Description, Commercial and Government Entity Code (CAGEC), and Part Number (P/N). This column provides the other information you need to identify the item.

Column (5) — Unit of Measure (U/M). This code shows the physical measurement or count of an item, such as gallon, dozen, gross, etc.

Table 1. Expendable and Durable Items List

(1) ITEM NUM BER	(2) LEV- EL	(3) NATIONAL STOCK NUMBER	(4) ITEM NAME, DESCRIPTION, CAGEC, PART NUMBER	(5) U/ M
1	C		Handi Cloth (Fuller Brush Company, Phone: 316-793-4541), Part number W97266, Cage code: 80572	ea
2	C		Stain Brush (Fuller Brush Company) Part number W97125 Cage Code: 80572	ea
3	C		Shoe Clean Brush, (Fuller Brush Company) Part number W97204 Cage code: 80572	ea
4	C		Brush, Handi Scrubber, Fuller Brush Company, part no. W97126, Cage code: 80572	ea
5	C		Rag	ea
6	C	7390-00-252-6797	Detergent, type II, cage code 053H7	ea
7	C	7930-00-291-8321	Sour Laundry, sodium fluorosilicate, type I, (Gurtler Chemicals, phone 708-331-2550) Cage code 0CA58	ea

Table 1. Expendable and Durable Items List (cont'd)

(1) ITEM NUM- BER	(2) LEV- EL	(3) NATIONAL STOCK NUMBER	(4) ITEM NAME, DESCRIPTION, CAGEC, PART NUMBER	(5) U/ M
8	C		Solvent, dry cleaning	ea
9	C		Soap, mild	ea
10	C		Tape measure (Reliable Sewing Machine Company, phone 781-341- 3991.	ea
11	C		Sheet, plastic	ea

END OF WORK PACKAGE

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SUPPORTING INFORMATION
OPERATOR RECORD OF HIT

OPERATOR
RECORD OF HIT

Name: _____

Rank: _____ Serial #: _____

Unit: _____

BASIC Size: _____ Date of Issue: __/__/__

Duty Being Performed When Hit: _____

Hit Caused by (circle): Mine (circle type: Blast

Fragmentation) Grenade Booby Trap Mortar

Artillery Other (describe): _____

Date of Hit: __/__/__

Estimated range from point of detonation: _____

Location of Hit(s) on BASIC System: _____

Continued to Perform Mission (circle one)? Yes No

Was Personal Injury Sustained (circle one)? Yes No

Description of Injury: _____

**OPERATOR
RECORD OF HIT (cont'd)**

Mail Record of Hit to postal address or responses to electronic mail address:

Postal Address:

Commander
U.S. Army Soldier and Biological Chemical
Command
ATTN: AMSSB-RIP-RSQ(N)
Kansas Street
Natick, MA 01760

Electronic Mail Address:

[http://www.sbccom.army.mil/products/cie/basic.
htm](http://www.sbccom.army.mil/products/cie/basic.htm)

END OF WORK PACKAGE

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By Order of the Secretary of the Army:

ERIC K. SHINSEKI
General, United States Army
Chief of Staff

Official:

A handwritten signature in black ink, reading "Joel B. Hudson". The signature is fluid and cursive, with the first letters of the first and last names being capitalized and prominent.

JOEL B. HUDSON
Administrative Assistant to the
Secretary of the Army
0128505

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THE METRIC SYSTEM AND EQUIVALENTS

LENGTH MEASURE

1 Centimeter = 10 Millimeters = 0.01 Meters = 0.3937 Inches
 1 Meter = 100 Centimeters = 1000 Millimeters = 39.37 Inches
 1 Kilometer = 1000 Meters = 0.621 Miles

WEIGHTS

1 Gram = 0.001 Kilograms = 1000 Milligrams = 0.035 Ounces
 1 Kilogram = 1000 Grams = 2.2 lb.
 1 Metric Ton = 1000 Kilograms = 1 Megagram = 1.1 Short Tons

LIQUID MEASURE

1 Milliliter = 0.001 Liters = 0.0338 Fluid Ounces
 1 Liter = 1000 Milliliters = 33.82 Fluid Ounces

SQUARE MEASURE

1 Sq. Centimeter = 100 Sq. Millimeters = 0.155 Sq. Inches
 1 Sq. Meter = 10,000 Sq. Centimeters = 10.76 Sq. Feet
 1 Sq. Kilometer = 1,000,000 Sq. Meters = 0.386 Sq. Miles

CUBIC MEASURE

1 Cu. Centimeter = 1000 Cu. Millimeters = 0.06 Cu. Inches
 1 Cu. Meter = 1,000,000 Cu. Centimeters = 35.31 Cu. Feet

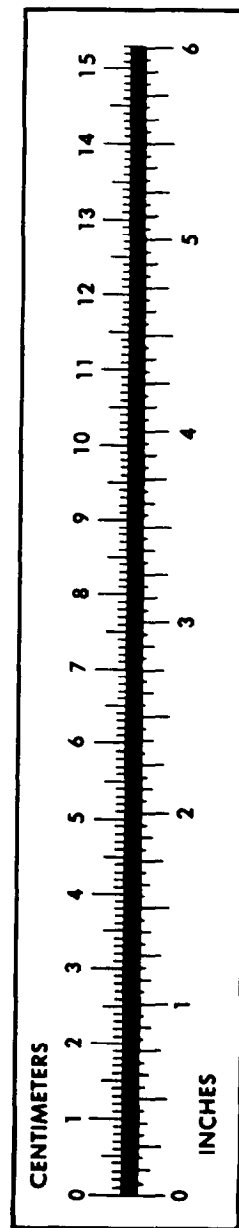
TEMPERATURE

$5/9(^{\circ}\text{F} - 32) = ^{\circ}\text{C}$
 212° Fahrenheit is equivalent to 100° Celsius
 90° Fahrenheit is equivalent to 32.2° Celsius
 32° Fahrenheit is equivalent to 0° Celsius
 $9/5^{\circ}\text{C} + 32 = ^{\circ}\text{F}$

APPROXIMATE CONVERSION FACTORS

TO CHANGE	TO	MULTIPLY BY
Inches	Centimeters	2.540
Feet	Meters	0.305
Yards	Meters	0.914
Miles	Kilometers	1.609
Square Inches	Square Centimeters	6.451
Square Feet	Square Meters	0.093
Square Yards	Square Meters	0.836
Square Miles	Square Kilometers	2.590
Acres	Square Hectometers	0.405
Cubic Feet	Cubic Meters	0.028
Cubic Yards	Cubic Meters	0.765
Fluid Ounces	Milliliters	29.573
its	Liters	0.473
arts	Liters	0.946
allons	Liters	3.785
Ounces	Grams	28.349
Pounds	Kilograms	0.454
Short Tons	Metric Tons	0.907
Pound-Feet	Newton-Meters	1.356
Pounds per Square Inch	Kilopascals	6.895
Miles per Gallon	Kilometers per Liter	0.425
Miles per Hour	Kilometers per Hour	1.609

TO CHANGE	TO	MULTIPLY BY
Centimeters	Inches	0.394
Meters	Feet	3.280
Meters	Yards	1.094
Kilometers	Miles	0.621
Square Centimeters	Square Inches	0.155
Square Meters	Square Feet	10.764
Square Meters	Square Yards	1.196
Square Kilometers	Square Miles	0.386
Square Hectometers	Acres	2.471
Cubic Meters	Cubic Feet	35.315
Cubic Meters	Cubic Yards	1.308
Milliliters	Fluid Ounces	0.034
Liters	Pints	2.113
Liters	Quarts	1.057
ers	Gallons	0.264
ms	Ounces	0.035
ograms	Pounds	2.205
Metric Tons	Short Tons	1.102
Newton-Meters	Pounds-Feet	0.738
Kilopascals	Pounds per Square Inch	0.145
ometers per Liter	Miles per Gallon	2.354
ometers per Hour	Miles per Hour	0.621



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