

# **TM 10-8470-208-10**

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**TECHNICAL MANUAL  
OPERATOR MANUAL  
FOR  
IMPROVED OUTER TACTICAL VEST  
(IOTV)  
AND  
IMPROVED OUTER TACTICAL VEST  
GEN II (IOTV GEN II)  
PART OF THE  
INTERCEPTOR BODY ARMOR SYSTEM**

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

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**HEADQUARTERS, DEPARTMENT OF THE ARMY**

**01 MARCH 2010**



## **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. Also included are explanations of safety and hazardous material icons used within the technical manual.

### **FIRST AID DATA**

For first aid information, refer to FM 4-25.11.

### **WARNING DESCRIPTIONS**

#### **WARNING**

Ensure the sizes of the front and back carrier match by comparing data plate information. Ensure the sizes of the attachable items match the sizes of the front and back carriers by comparing data plate information. Failure to do so could affect performance, causing injury or death to the servicemember.

#### **WARNING**

Ensure there are no kinks in the quick-release cable. Failure to do so could adversely affect the function of the quick-release, causing injury or death to the service member.

#### **WARNING**

Pressing, starching, dry cleaning, or the use of fabric softener will degrade the IBA. Failure to following these instructions could result in harm to the soldier.

#### **WARNING**

(IOTV ONLY) Ensure the quick-release cable is routed through the two grommets of the cable stop, or a malfunction may occur. It does not matter which cable is routed through which grommet.

#### **WARNING**

Proper routing of the cable release assembly is critical to the proper operation of the vest during an emergency doffing. The left-hand side plate carrier (left side plate carrier for IOTV or left-hand universal side plate carrier for IOTV Gen II) should be attached first, followed by the right. Failure to follow these directions could result in injury or death.

**WARNING DESCRIPTIONS – CONTINUED**

**WARNING**

Do not include the flap of the back yoke when attaching the deltoid protector to the vest. Doing so may prevent the cable release from operating correctly.

**WARNING**

During pre-combat inspections, check that side plate strap has an additional turn with the strap through the buckle for added security. Without the strap being properly secured, the plate could fall out, leaving the servicemember vulnerable to small-arms fire or fragmentation.

**WARNING**

Ensure front and back carrier soft ballistic protection overlaps under the arm when donning the vest.

**WARNING**

The emergency release system should be used during emergencies or instructional purposes only. Using the cable release method to routinely doff the vest could result in damage to the hard armor plates. Damage to the hard armor plates could result in injury or death to the wearer.

**WARNING**

Do not machine wash or dry. Failure to follow these instructions may render your IBA useless against ballistic threats.

**WARNING**

Do not machine wash or dry the ESAPI/ESBI inserts. Failure to follow these instructions may degrade the ESAPI/ESBI ballistic protection.

**WARNING**

Service members must ensure they have the correct protective inserts. The ESAPI and ESBI have green covers and provide a higher level of protection than the Small Arms Protective Insert (SAPI) which has a black cover. ESAPI should be worn by all personnel in-theater. If a service member has the older black SAPI plates, they should be turned in and replaced with green ESAPI plates. Failure to ensure the correct plate while conducting combat operations may result in injury or death.

**WARNING DESCRIPTIONS – CONTINUED**

**WARNING**

Fabric repair in this work package does not apply to the fabric on the soft ballistic inserts. Any damage to the soft ballistic inserts is cause for turn in. Failure to follow these instructions could result in degraded ballistic protection.

**END OF WORK PACKAGE**

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## LIST OF EFFECTIVE PAGES/WORK PACKAGES

**NOTE:** Zero in the "Change No." column indicates an original page or work package.

Date of issue for the original manual is:

Original 01 March 2010

**TOTAL NUMBER OF PAGES FOR FRONT AND REAR MATTER IS 26 AND TOTAL NUMBER OF WORK PACKAGES IS 162, CONSISTING OF THE FOLLOWING:**

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HEADQUARTERS  
DEPARTMENT OF THE ARMY  
WASHINGTON, D.C., 01 March 2010

**TECHNICAL MANUAL**  
**OPERATOR MANUAL**  
  
**FOR**  
**IMPROVED OUTER TACTICAL VEST (IOTV)**  
**AND**  
**IMPROVED OUTER TACTICAL VEST GEN II (IOTV GEN II)**  
  
**A PART OF THE**  
**INTERCEPTOR BODY ARMOR SYSTEM**

**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) directly to: Commander, TACOM Life Cycle Management Command, ATTN: AMSTA-LCL-MPP/TECH PUBS, 1 Rock Island Arsenal, Rock Island, IL 61299-7630. You may also send in your recommended changes via electronic mail or by fax. Our fax is DSN 793-0726, and Commercial 309-782-0726. Our e-mail address is [TACOMLCMC.DAFOR2028@us.army.mil](mailto:TACOMLCMC.DAFOR2028@us.army.mil). A reply will be furnished to you.

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## HOW TO USE THIS MANUAL

### HOW TO OBTAIN TECHNICAL MANUALS

When a new system is introduced to the Army inventory, it is the responsibility of the receiving units to notify and inform the Unit Publications Clerk that a Technical Manual is available for the new system. Throughout the life cycle of the new system, the Publications Proponent will also provide updates and changes to the Technical Manual.

To receive new Technical Manuals or change packages to fielded Technical Manuals, provide the Unit Publications Clerk the full Technical Manual number, title, date of publication, and number of copies required. The Unit Publications Clerk will then justify the request through the Unit Publications Officer. When the request is approved, DA Form 12-R is used to order the Technical Manual from the Army Publishing Directorate (APD). Obtain the form and request a publications account from the APD Web site at <http://www.apd.army.mil>. Once on the Website click on the "Orders/Subscriptions/Reports" tab. From the dropdown menu, select "Establish an Account," then select "Tutorial" and follow the instructions in the tutorial presentation.

Complete information for obtaining Army publications can be found in DA PAM 25-33.

### Organization of This Manual

In this manual, primary chapters appear in upper case/capital letters; work packages are presented in numeric sequence, e.g., 0001, 0002; paragraphs within a work package are not numbered and are presented in a titled format. For a first level paragraph, titles are in all bold, upper case, capital letters, e.g., **FRONT MATTER**. Subordinate paragraph titles will have the first letter of the first word of each principle word all upper case, capital letters, all bold, e.g., **Manual Organization and Page Numbering System**. The location of additional material that must be referenced is clearly marked. Illustrations supporting maintenance procedures/text are located underneath, or as close as possible to, their referenced paragraph. Notes, Cautions, and Warning are located directly above the procedure to which they apply.

**FRONT MATTER.** Front matter consists of front cover, warning summary, title block, table of contents, and how to use this manual page.

**CHAPTER 1 - GENERAL INFORMATION, EQUIPMENT DESCRIPTION, AND THEORY OF OPERATION.** Chapter 1 contains introductory information on the Interceptor Body Armor (IBA) as well as theory of operation.

## HOW TO USE THIS MANUAL – CONTINUED

**CHAPTER 2 - OPERATOR INSTRUCTIONS.** Chapter 2 contains information on assembling, donning, doffing and operating the IBA system.

**CHAPTER 3 – PREVENTIVE MAINTENANCE CHECKS AND SERVICES.** Chapter 3 identified preventive maintenance checks and services information.

**CHAPTER 4 – MAINTENANCE INSTRUCTIONS.** Chapter 4 provides maintenance procedures, preparations for storage and shipment authorized at the service level.

**CHAPTER 5 - SUPPORTING INFORMATION.** Chapter 5 contains references, Components of End Items List (COEI), Basic Issue Items List (BII), and expendable and durable items list.

**REAR MATTER.** Rear matter consists of alphabetical index, DA Form 2028, authentication page, and back cover.

**Manual Organization and Page Numbering System.** The manual is divided into eight major chapters that detail the topics mentioned above. Within each chapter are work packages covering a wide range of topics. Each work package is numbered sequentially starting at page 1. The work package has its own page numbering scheme and is independent of the page numbering used by other work packages. Each page of a work package has a page number of the form XXXX-YY where XXXX is the work package number (e.g. 0010 is work package 10) and YY represents the number of the page within that work package. A page number such as 0010-1/ 2 blank means that page 1 contains information but page 2 of that work package has been intentionally left blank.

**Finding Information.** The table of contents permits the reader to find information in the manual quickly. The reader should start here first when looking for a specific topic. The table of contents lists the topics, figures, and tables contained within each chapter and the work package sequence number where it can be found.

An Alphabetical Index can be found at the back of the manual; specific topics are listed with the corresponding work package number.

## WARNINGS, CAUTIONS, AND NOTES

A warning identifies a clear danger to the person doing that procedure.

A caution identifies risk of damage to the equipment.

A note is used to highlight essential procedures, conditions, or statements or convey important instructional data to the user.





## **CHAPTER 1**

# **GENERAL INFORMATION, EQUIPMENT DESCRIPTION, AND THEORY OF OPERATION FOR IMPROVED OUTER TACTICAL VEST (IOTV) AND IMPROVED OUTER TACTICAL VEST GEN II (IOTV GEN II)**



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**OPERATOR MAINTENANCE**  
**IMPROVED OUTER TACTICAL VEST**  
**IMPROVED OUTER TACTICAL VEST GEN II**  
**GENERAL INFORMATION**

---

**SCOPE**

This technical manual provides operator instructions for the Improved Outer Tactical Vest (IOTV), IOTV Gen II, Enhanced Small Arms Protective Insert (ESAPI), Enhanced Side Ballistic Inserts (ESBI), and ancillary equipment of the Interceptor Body Armor (IBA) system.

**MAINTENANCE FORMS, RECORDS, AND REPORTS**

Department of the Army forms and procedures used for equipment maintenance will be those prescribed by (as applicable) DA PAM 750-8, The Army Maintenance Management System (TAMMS) Users Manual; DA PAM 738-751, Functional Users Manual for the Army Maintenance Management Systems - Aviation (TAMMS-A); or AR 700-138, Army Logistics Readiness and Sustainability.

**REPORTING EQUIPMENT IMPROVEMENT RECOMMENDATIONS (EIR)**

If your Improved Outer Tactical Vest or Improved Outer Tactical Vest Gen II needs improvement, let us know. Send us 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. If you have Internet access, the easiest and fastest way to report problems or suggestions is to go to <https://aeps.ria.army.mil/aepspublic.cfm> (scroll down and choose the "Submit Quality Deficiency Report" bar). The Internet form lets you choose to submit an Equipment Improvement Recommendation (EIR), a Product Quality Deficiency Report (PQDR or a Warranty Claim Action (WCA). You may also submit your information using an SF 368 (Product Quality Deficiency Report). You can send your SF 368 via e-mail, regular mail, or facsimile using the addresses/facsimile numbers specified in DA PAM 750-8, The Army Maintenance Management System (TAMMS) Users Manual. We will send you a reply.

**CORROSION PREVENTION AND CONTROL (CPC)**

Corrosion Prevention and Control (CPC) of Army materiel is a continuing concern. It is important that any corrosion problems with any items be reported so that the problem can be corrected and improvements can be made to prevent the problem in future items.

Plastics, composites, and rubbers can also degrade. Degradation is caused by thermal (heat), oxidation (oxygen), solvation (solvents), or photolytic (light, typically UV) processes. The most common exposures are excessive heat or light. Damage from these processes will appear as cracking, softening, swelling, and/or breaking.

SF Form 368, Product Quality Deficiency Report should be submitted to the address specified in DA PAM 750-8, The Army Maintenance Management System (TAMMS) Users Manual.

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**OPERATOR MAINTENANCE**  
**IMPROVED OUTER TACTICAL VEST**  
**IMPROVED OUTER TACTICAL VEST GEN II**  
**GENERAL INFORMATION**

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**DESTRUCTION OF ARMY MATERIEL TO PREVENT ENEMY USE**

Destruction of Army materiel to prevent enemy use shall be in accordance with TM 750-244-1-2.

**PREPARATION FOR STORAGE AND SHIPMENT**

Refer to WP 0009 for storage and shipping procedures.

**NOMENCLATURE CROSS REFERENCE LIST**

**Table 1. Nomenclature Cross-Reference List.**

<b>COMMON NAME</b>	<b>OFFICIAL NOMENCLATURE</b>
100 mile-per-hour Tape	Pressure Sensitive Adhesive Tape
Ballistic Collar	Yoke/Collar Assembly
Cable Release Assembly	Improved Outer Tactical Vest
	Cord Cable Assembly
Duct Tape	Pressure Sensitive Adhesive Tape
Hard Armor Protective Inserts	Small Arms Protective Inserts
Hard Armor Protective Inserts	Enhanced Small Arms Protective Inserts
Hard Armor Protective Inserts	X-Small Arms Protective Insert
Hard Armor Protective Inserts	Enhanced Side Ballistic Inserts
Internal Elastic Band	Body Armor Waistband
Lower Back Protector	Kidney Protector Body Armor
Rigger's Tape	Pressure Sensitive Adhesive Tape

**OPERATOR MAINTENANCE  
IMPROVED OUTER TACTICAL VEST  
IMPROVED OUTER TACTICAL VEST GEN II  
GENERAL INFORMATION**

**LIST OF ABBREVIATIONS AND ACRONYMS**

**Table 2. List Of Abbreviations And Acronyms.**

<b>ABBREVIATION / ACRONYM</b>	<b>DEFINITION</b>
BII	Basic Issue Item
CIF	Central Issue Facility
COEI	Component of End Item
ea	Each
EIR	Equipment Improvement Recommendation
ESAPI	Enhanced Small Arms Protective Inserts
ESBI	Enhanced Side Ballistic Inserts
FM	Field Manual
ft	Foot
lb	Pound(s)
MOLLE	Modular Lightweight Load-Carrying Equipment
NIIN	National Item Identification Number
NSN	National Stock Number
P/N	Part Number
PMCS	Preventive Maintenance Checks and Services
SAPI	Small Arms Protective Inserts
SF	Standard Form
TM	Technical Manual
WP	Work Package
XS	Extra-Small
S	Small
M	Medium
ML	Medium-Long
L	Large
LL	Large-Long
XL	Extra Large
XLL	Extra Large-Long
2XL	Extra Extra Large
3XL	Extra Extra Extra Large
4XL	Extra Extra Extra Extra Large

**END OF WORK PACKAGE**



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**OPERATOR MAINTENANCE**  
**IMPROVED OUTER TACTICAL VEST**  
**IMPROVED OUTER TACTICAL VEST GEN II**  
**EQUIPMENT DESCRIPTION AND DATA**

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**EQUIPMENT CHARACTERISTICS, CAPABILITIES, AND FEATURES**

The Interceptor Body Armor (IBA) system is a modular system that consists of a vest, hard armor, and attachments (ancillary equipment) that increase area of coverage and level of protection.

The IBA system is issued to Soldiers in a variety of configurations. Some vests are issued with ancillary equipment while with other vests, ancillary equipment is issued separately. Therefore, the term ancillary equipment, as used in this manual, is used to describe the attachments to the base vest configuration. Refer to the Components of End Item (COEI) list and Basic Issue Items (BII) lists for the IOTV and IOTV Gen II to determine which attachments are issued with each configuration.

**Vest**

The IBA vest comes in three basic configurations: the Outer Tactical Vest (OTV), the Improved Outer Tactical Vest (IOTV) and the Improved Outer Tactical Vest (IOTV) Gen II. This manual covers the IOTV and IOTV Gen II configurations.

The IOTV and IOTV Gen II consist of a front piece and a back piece held together by a cable release assembly. The IOTV and IOTV Gen II design distributes the weight of the IBA system more evenly than previous versions of IBA.

**Hard Armor**

There are two types of hard armor, Enhanced Side Ballistic Inserts (ESBI) and Enhanced Small Arms Protective Inserts (ESAPI). The ESAPI plates provide additional levels of protection to the front and the back of the Soldier.

**Ancillary Equipment**

Ancillary equipment for the IOTV and IOTV Gen II includes the yoke/collar assembly, deltoid protectors, groin protector and lower back protector. When added to the vest, these items increase the area of ballistic protection. Some items of ancillary equipment may be issued as a part of the base vest assembly, depending on the configuration. Refer to the COEI and BII for this information.

**Interoperability**

The IOTV and IOTV Gen II are compatible with Modular Lightweight Load-carrying Equipment (MOLLE) components. The IOTV and IOTV Gen II are also compatible with the Land Warrior System.

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**OPERATOR MAINTENANCE**  
**IMPROVED OUTER TACTICAL VEST**  
**IMPROVED OUTER TACTICAL VEST GEN II**  
**EQUIPMENT DESCRIPTION AND DATA**

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## **LOCATION AND DESCRIPTION OF MAJOR COMPONENTS**

The information in this section applies to both IOTV and IOTV Gen II systems. Features discussed are common to both configurations. Differences between models will be discussed in the next section. All graphics in this section show an IOTV but features indicated are common to both systems.

### **Vest**

**Front Carrier.** The front carrier (Figure 1) has two shoulder straps with attached buckles. On the right shoulder is the aft guide channel used for routing of the cable release. The left shoulder has a hook and loop fastener attachment point and is referred to as the medical access point.

In the center of the neckline is the location for rank placement. Behind the rank placement is a pocket for storage of the quick release handle of the cable assembly. There is also a location for the name tape placement on the right side of the chest area.

MOLLE webbing is sewn on the vest for attaching items such as MOLLE pouches.

There is a pull tab attached to the front flap for raising the flap. Lifting the flap exposes the hook and loop fastener tapes used to attach the side plate carriers. On the inside of the front carrier, there is webbing for attaching the ballistic groin protector. The data plate containing essential information is also located on the inside of the front carrier.

**Front Ballistic Insert.** The front ballistic insert is located inside the front carrier and provides ballistic protection. The front ballistic insert has loop fastener tape and a data label.



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**OPERATOR MAINTENANCE**  
**IMPROVED OUTER TACTICAL VEST**  
**IMPROVED OUTER TACTICAL VEST GEN II**  
**EQUIPMENT DESCRIPTION AND DATA**

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**LOCATION AND DESCRIPTION OF MAJOR COMPONENTS – CONTINUED**



Figure 1. Front Carrier (IOTV Shown).

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**OPERATOR MAINTENANCE  
IMPROVED OUTER TACTICAL VEST  
IMPROVED OUTER TACTICAL VEST GEN II  
EQUIPMENT DESCRIPTION AND DATA**

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**LOCATION AND DESCRIPTION OF MAJOR COMPONENTS – CONTINUED**

**Back Carrier.** On the upper portion of the Back carrier (Figure 2) are the shoulder strap guides used for routing the shoulder straps of the front carrier. There is a casualty drag strap located on the upper center portion of the carrier. There is webbing with hook and loop material for securing the strap. Keep the strap secured when not in use to prevent snagging.

There are two flaps (Figure 3); a smaller upper access panel and a larger, lower access panel. The upper access panel has slits for routing the shoulder straps. In the upper compartment, there is a series of webbing used for attaching the front carrier to the back carrier.

There is a right shoulder webbing loop, a center cable guide, and the left shoulder webbing loop. The two olive drab straps with an attached buckle are for use with the Land Warrior System. There is a cable retention loop located on the left side for storing the excess cable.

Under the lower flap, there is additional webbing to attach the elastic internal waist band and the side plate carriers. There is a cable retaining pocket on the very bottom of the pocket for stowing excess cable.

**Back Ballistic Insert.** The back ballistic insert is located inside the back carrier and provides ballistic protection. The back ballistic insert has loop fastener tape and a data label.

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**OPERATOR MAINTENANCE**  
**IMPROVED OUTER TACTICAL VEST**  
**IMPROVED OUTER TACTICAL VEST GEN II**  
**EQUIPMENT DESCRIPTION AND DATA**

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**LOCATION AND DESCRIPTION OF MAJOR COMPONENTS – CONTINUED**



Figure 2. Back Carrier (IOTV Shown).

**OPERATOR MAINTENANCE**  
**IMPROVED OUTER TACTICAL VEST**  
**IMPROVED OUTER TACTICAL VEST GEN II**  
**EQUIPMENT DESCRIPTION AND DATA**

**LOCATION AND DESCRIPTION OF MAJOR COMPONENTS – CONTINUED**



Figure 3. Back Carrier Cable Routing (Upper and Lower Access Panels Removed for Clarity).

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**OPERATOR MAINTENANCE**  
**IMPROVED OUTER TACTICAL VEST**  
**IMPROVED OUTER TACTICAL VEST GEN II**  
**EQUIPMENT DESCRIPTION AND DATA**

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**LOCATION AND DESCRIPTION OF MAJOR COMPONENTS – CONTINUED**

**Side Plate Carriers.** Both the IOTV and IOTV Gen II have two side plate carriers (Figure 4) but of different design. The side plate carriers attach the front and back carriers, help distribute the load of the vest and carry the ESBI plates.

The side plate carriers are attached to the back vest using the quick release system and with the front carrier using hook and loop fastener tape.

**NOTE**

IOTV is used in Figure 4 as a representational sample. The IOTV Gen II side plate carriers are universal and have removable Side Plate Pouches. The functionality and location of the components are the same.

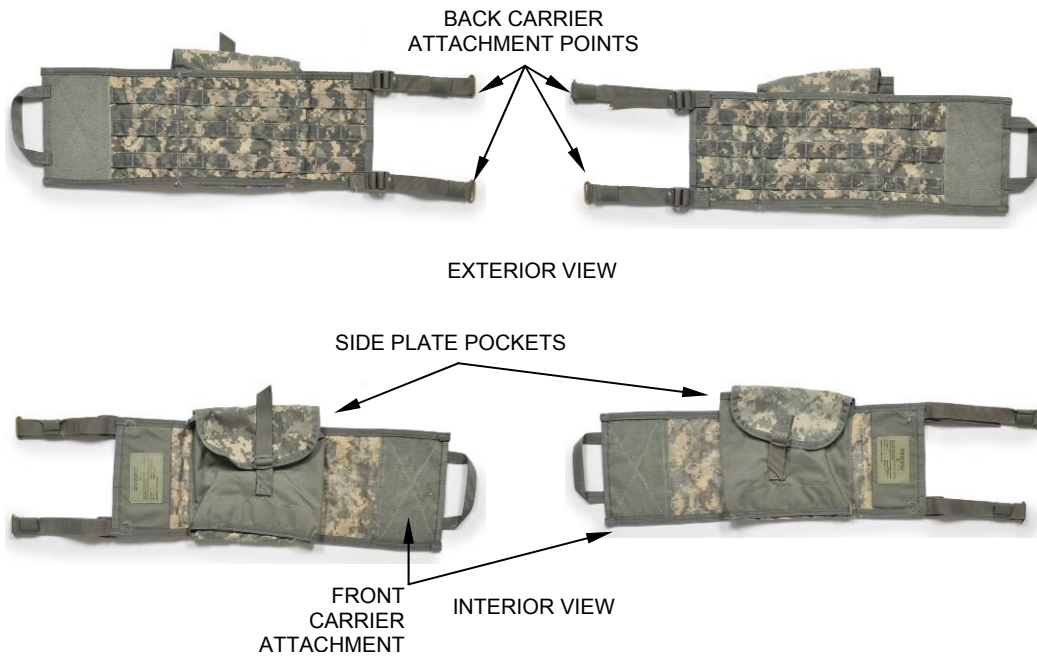


Figure 4. Side Plate Carriers (IOTV).



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**OPERATOR MAINTENANCE**  
**IMPROVED OUTER TACTICAL VEST**  
**IMPROVED OUTER TACTICAL VEST GEN II**  
**EQUIPMENT DESCRIPTION AND DATA**

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**LOCATION AND DESCRIPTION OF MAJOR COMPONENTS – CONTINUED**

**Internal Elastic Bands.** The IOTV and IOTV Gen II vests both come with a left and right internal elastic band (Figure 5). The elastic bands help distribute the weight of the equipment and keep the vest secured when the front carrier is lifted up for medical access. The internal elastic bands only attach to the back carrier and attach to each other on the front using hook and loop fastener tape.

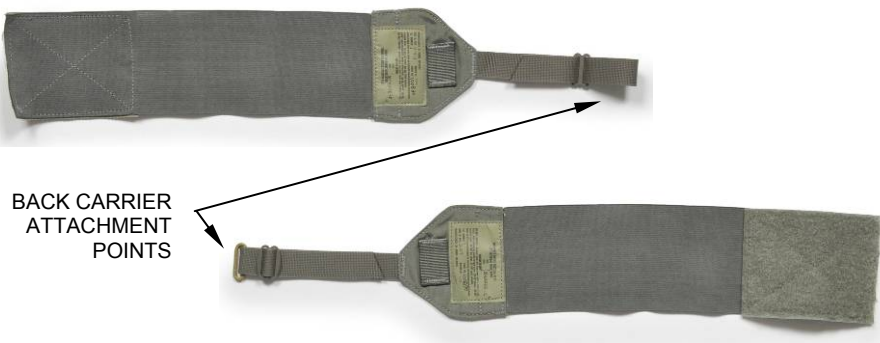


Figure 5. Internal Elastic Bands.

**Cable Release Assembly** - The cable release assembly (Figure 6) comes in four different sizes, depending on the vest size. The assembly features the quick release handle that the user pulls to activate the quick release function. The data plate is located on the handle. The assembly includes the two cables; one slightly longer than the other.

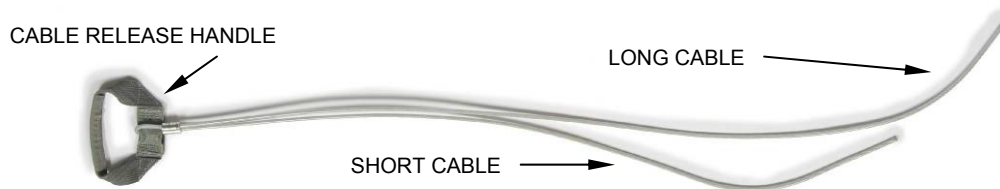


Figure 6. Cable Release Assembly.

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**OPERATOR MAINTENANCE**  
**IMPROVED OUTER TACTICAL VEST**  
**IMPROVED OUTER TACTICAL VEST GEN II**  
**EQUIPMENT DESCRIPTION AND DATA**

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**LOCATION AND DESCRIPTION OF MAJOR COMPONENTS – CONTINUED**

**Ancillary Equipment**

The IOTV and IOTV Gen II ballistic protection can be extended with the ancillary equipment. Ancillary equipment for the IOTV and IOTV Gen II consist of the yoke/collar assembly, deltoid protector, groin protector and lower back protector.

Each item of ancillary equipment consists of a soft ballistic insert and a carrier component.

**Yoke/Collar Assembly.** The yoke/collar assembly (Figure 7) comes in two separate pieces: the front and back. The yoke/collar assembly provides additional ballistic protection to the neck and shoulders.

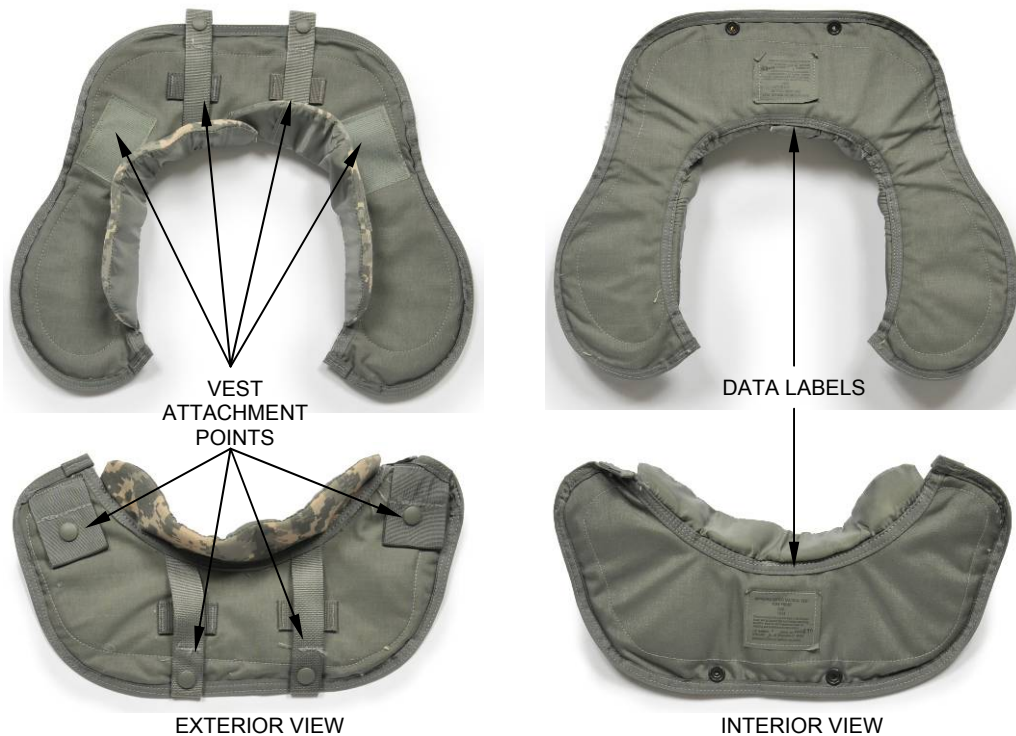


Figure 7. Yoke/Collar Assembly.

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**OPERATOR MAINTENANCE**  
**IMPROVED OUTER TACTICAL VEST**  
**IMPROVED OUTER TACTICAL VEST GEN II**  
**EQUIPMENT DESCRIPTION AND DATA**

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**LOCATION AND DESCRIPTION OF MAJOR COMPONENTS – CONTINUED**

**Deltoid Protector.** The deltoid protectors (Figure 8) provide additional ballistic protection to the shoulders and upper arms. They attach to the shoulder sections of the IOTV and IOTV Gen II vest and use a nylon webbing to keep the protectors wrapped around the arm.

**Groin Protector.** The groin protector (Figure 8) provides addition protection for the femoral arteries and pelvis. The groin protector attaches to the inside of the front carrier using two nylon straps and snap fasteners.



Figure 8. Deltoid and Groin Protectors.



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**OPERATOR MAINTENANCE**  
**IMPROVED OUTER TACTICAL VEST**  
**IMPROVED OUTER TACTICAL VEST GEN II**  
**EQUIPMENT DESCRIPTION AND DATA**

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**LOCATION AND DESCRIPTION OF MAJOR COMPONENTS – CONTINUED**

**Lower Back Protector.** The lower back protector (Figure 9) provides additional protection for the lower spine and pelvis. The lower back protector attaches to the inside of the back carrier using two nylon straps and snap fasteners.



Figure 9. Lower Back Protector.

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**OPERATOR MAINTENANCE  
IMPROVED OUTER TACTICAL VEST  
IMPROVED OUTER TACTICAL VEST GEN II  
EQUIPMENT DESCRIPTION AND DATA**

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**LOCATION AND DESCRIPTION OF MAJOR COMPONENTS – CONTINUED**

**Hard Armor**

There are two types of hard armor plates: ESBI and ESAPI.

**ESBI** - The two ESBI (Figure 10) provide side protection against 7.62 mm bullets. The concave side is worn toward the body.

**ESAPI** - The two ESAPI (Figure 10) provide protection for the chest and back against 7.62 mm bullets. The concave side is worn toward the body.



Figure 10. ESBI and ESAPI Plates.

**DIFFERENCES BETWEEN MODELS**

The IOTV and IOTV Gen II vest are completely interchangeable. Any component of the IOTV can be interchanged with any IOTV Gen II component of the same size. The IOTV Gen II vest provides several design improvements but the sizing and interface between components are identical.

**Vest**

The IOTV Gen II vest has solid fabric for the interior of the vest. The IOTV vest has a mesh material for the interior of the vest.

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**OPERATOR MAINTENANCE**  
**IMPROVED OUTER TACTICAL VEST**  
**IMPROVED OUTER TACTICAL VEST GEN II**  
**EQUIPMENT DESCRIPTION AND DATA**

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**DIFFERENCES BETWEEN MODELS – CONTINUED**

**Front Carrier.** The IOTV Gen II vest has added equipment attachment rings at the left and right shoulders (Figure 11, Item 2). These rings are designed for attachment of the Tactical Assault Panel (TAP) and other equipment.

The IOTV Gen II front carrier also has several improvements to the quick release system. The IOTV Gen II front carrier cable routing channels and cable release handle pocket are designed to minimize the chance of misrouting. The loop tape for the rank is larger on the IOTV Gen II vest (Figure 11, Item 1).



Figure 11. Differences between IOTV and IOTV Gen II Front Carriers.

**Cable Release Assembly.** The IOTV Gen II cable release attaches to the cable release handle on the side instead of the center as on the IOTV. The IOTV Gen II no longer requires a cable stop.

**Side Plate Carriers.** The IOTV vest has a left and a right side plate carrier with integrated pockets to hold the ESBI plates. The side plate carriers for the IOTV Gen II are universal and have removable pouches for the ESBI plates. Additionally, the IOTV Gen II universal side plate carriers have a stiff plastic liner that provides better support and load distribution.

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**OPERATOR MAINTENANCE**  
**IMPROVED OUTER TACTICAL VEST**  
**IMPROVED OUTER TACTICAL VEST GEN II**  
**EQUIPMENT DESCRIPTION AND DATA**

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**DIFFERENCES BETWEEN MODELS – CONTINUED**

**Internal Elastic Bands.** On the IOTV, one of the internal elastic bands is semi-permanently attached to the back carrier. On the IOTV Gen II, both internal elastic bands are detached.

**Lower Back Protector.** The IOTV lower back protector has MOLLE webbing and a pocket. The IOTV Gen II does not.

**EQUIPMENT DATA****IOTV**

<b>Component</b>	<b>Data</b>
<b>Vest</b>	

Sizes.....	XS, S, M, ML, L, LL, XL, XLL, 2XL, 3XL, 4XL
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Protection .....	9 mm, Fragmentation
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**Right and Left Side Plate Carriers**

Sizes.....	XS-S, M-L, XL-2XL, 3XL-4XL
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**Right and Left Internal Elastic Bands**

Sizes.....	XS-S, M-L, XL-2XL, 3XL-4XL
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**Cable Release Assembly**

Sizes.....	XS-S, M-L, XL-2XL, 3XL-4XL
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**Yoke/Collar Assembly**

Sizes (Front).....	One Size
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Sizes (Back) .....	XS, S, M, L, XL, 2XL, 3XL, 4XL
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Protection .....	Fragmentation
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**Groin Protector**

Sizes.....	S-ML, L-4XL
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Protection .....	9 mm, Fragmentation
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**Lower Back Protector**

Sizes.....	One Size
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Protection .....	9 mm, Fragmentation
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**Deltoid Protectors**

Sizes.....	XS-S, M-L, XL-4XL
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Protection .....	9 mm, Fragmentation
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**OPERATOR MAINTENANCE**  
**IMPROVED OUTER TACTICAL VEST**  
**IMPROVED OUTER TACTICAL VEST GEN II**  
**EQUIPMENT DESCRIPTION AND DATA**

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**EQUIPMENT DATA – CONTINUED****IOTV Gen II**

<b>Component</b>	<b>Data</b>
Vest	
Sizes.....	XS, S, M, ML,L, LL, XL, XLL, 2XL, 3XL, 4XL
Protection .....	9 mm, Fragmentation

**Universal Side Plate Carriers**

Sizes..... XS-S, M-L, XL-2XL, 3XL-4XL

**Universal Side Plate Pouch**

Sizes..... One Size

**Right and Left Internal Elastic Bands**

Sizes..... XS-S, M-L, XL-2XL, 3XL-4XL

**Cable Release Assembly**

Sizes..... XS-S, M-L, XL-2XL, 3XL-4XL

**Yoke/Collar Assembly**

Sizes (Front)..... One Size  
 Sizes (Back)..... XS, S, M, L, XL, 2XL, 3XL, 4XL  
 Protection ..... Fragmentation

**Groin Protector**

Sizes..... S-ML, L-4XL  
 Protection ..... 9 mm, Fragmentation

**Lower Back Protector**

Sizes..... One size  
 Protection ..... 9 mm, Fragmentation

**Deltoid Protectors**

Sizes..... XS-S, M-L, XL-4XL  
 Protection ..... 9 mm, Fragmentation

**OPERATOR MAINTENANCE**  
**IMPROVED OUTER TACTICAL VEST**  
**IMPROVED OUTER TACTICAL VEST GEN II**  
**EQUIPMENT DESCRIPTION AND DATA**

**EQUIPMENT DATA – CONTINUED****HARD ARMOR BALLISTIC INSERTS****ESBI**

Sizes..... One Size  
 Protection ..... Armor Piercing 7.62 mm

**ESAPI**

Sizes..... XS, S, M, L, XL  
 Protection ..... Armor Piercing 7.62 mm

**System Weight****Table 1. IOTV System Weight Chart (in pounds).**

<b>Finished Component</b>	<b>XS</b>	<b>S</b>	<b>M</b>	<b>ML</b>	<b>L</b>	<b>LL</b>	<b>XL</b>	<b>XLL</b>	<b>2XL</b>	<b>3XL</b>	<b>4XL</b>
<b>Base Vest Assembly:</b>	9.01	9.33	9.86	10.60	10.97	11.24	11.98	12.51	13.52	15.80	16.17
<b>Front Yoke/Collar Assembly:</b>	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56
<b>Back Yoke/Collar Assembly:</b>	0.80	0.83	0.88	0.88	0.91	0.91	0.96	0.96	1.02	1.17	1.17
<b>Groin Protector Assembly:</b>	0.72	0.72	0.72	0.72	0.87	0.87	0.87	0.87	0.87	0.87	0.87
<b>Lower Back Protector</b>	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67
<b>Deltoid Protector:</b>	1.00	1.00	1.20	1.20	1.20	1.20	1.45	1.45	1.45	1.45	1.45
<b>ESBI Plates (x2)</b>	5.10	5.10	5.10	5.10	5.10	5.10	5.10	5.10	5.10	5.10	5.10
<b>ESAPI Plates (x2)</b>	7.60	9.50	10.90	10.90	12.50	12.50	14.20	14.20	14.20	14.20	14.20
<b>Total System Weight</b>	<b>26.46</b>	<b>28.71</b>	<b>31.09</b>	<b>31.83</b>	<b>33.98</b>	<b>34.25</b>	<b>37.24</b>	<b>37.77</b>	<b>38.84</b>	<b>41.27</b>	<b>41.64</b>

**OPERATOR MAINTENANCE  
IMPROVED OUTER TACTICAL VEST  
IMPROVED OUTER TACTICAL VEST GEN II  
EQUIPMENT DESCRIPTION AND DATA**

**EQUIPMENT DATA – CONTINUED**

**Table 2. IOTV Gen II System Weight Chart (in pounds).**

<b>Finished Component</b>	<b>XS</b>	<b>S</b>	<b>M</b>	<b>ML</b>	<b>L</b>	<b>LL</b>	<b>XL</b>	<b>XLL</b>	<b>2XL</b>	<b>3XL</b>	<b>4XL</b>
<b>Base Vest Assembly:</b>	9.61	9.93	0.56	11.30	1.72	11.99	12.78	13.31	14.32	16.60	16.97
<b>Front Yoke/Collar Assembly:</b>	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56
<b>Back Yoke/Collar Assembly:</b>	0.80	0.83	0.88	0.88	0.91	0.91	0.96	0.96	1.02	1.17	1.23
<b>Groin Protector Assembly:</b>	0.72	0.72	0.72	0.72	0.87	0.87	0.87	0.87	0.87	0.87	0.87
<b>Lower Back Protector</b>	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.67
<b>Deltoid Protector:</b>	2.00	2.00	2.40	2.40	2.40	2.40	2.90	2.90	2.90	2.90	2.90
<b>ESBI Plates (x2)</b>	5.10	5.10	5.10	5.10	5.10	5.10	5.10	5.10	5.10	5.10	5.10
<b>ESAPI Plates (x2)</b>	7.60	9.50	10.90	10.90	12.50	12.50	14.20	14.20	14.20	14.20	14.20
<b>Total System Weight</b>	<b>27.06</b>	<b>26.31</b>	<b>31.69</b>	<b>32.53</b>	<b>34.73</b>	<b>35.00</b>	<b>38.04</b>	<b>38.57</b>	<b>39.64</b>	<b>42.07</b>	<b>42.50</b>

**END OF WORK PACKAGE**





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**OPERATOR MAINTENANCE**  
**IMPROVED OUTER TACTICAL VEST**  
**IMPROVED OUTER TACTICAL VEST GEN II**  
**THEORY OF OPERATION**

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## **THEORY OF OPERATION**

Different field scenarios will require different levels of protection for the servicemember. Unit commanders will prescribe the level of protection required for a mission.

The most basic configuration of the IOTV and IOTV Gen II consists of the front and rear carriers with soft ballistic inserts, two side plate carriers with side plate pouches, elastic internal waistband, and the quick release cable.

The ancillary equipment provides protection for areas not covered by the basic configuration. The yoke and collar assembly provides protection for the shoulders and neck. The deltoid protectors provide protection for the shoulders and upper arms. The groin protector provides protection for the femoral arteries and pelvis. The lower back protector provides protection for the lower spine and pelvis.

The next level of protection includes installing hard armor plates. Leave the soft ballistic protection in the vest when installing the hard armor and ensure the soft ballistic protection remains flat and smooth. Insert the side ballistic plates into the side plate pockets.

The IBA is designed to protect the servicemember from small-arms fire to include 7.62 mm and 9 mm bullets as well as fragmentation.

Each component of the IOTV is compatible with each piece of IOTV Gen II.

### **Quick-Release Function**

The IOTV and IOTV Gen II vest have a quick release function designed to be used during emergency situations only. With the IOTV or IOTV Gen II assembled with some or all of the accessories, the quick release function can be used to doff the vest rapidly in emergency situations. Such situations could include needing quick access for medical attention, or needed to remove the vest quickly to swim.

Once the function has been used, the vest can be reassembled easily to provide ballistic protection.

## **END OF WORK PACKAGE**



**CHAPTER 2**

**OPERATOR INSTRUCTIONS**

**FOR**

**IMPROVED OUTER TACTICAL VEST (IOTV)**

**AND**

**IMPROVED OUTER TACTICAL VEST GEN II (IOTV GEN II)**



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**OPERATOR MAINTENANCE**  
**IMPROVED OUTER TACTICAL VEST**  
**IMPROVED OUTER TACTICAL VEST GEN II**  
**OPERATION UNDER USUAL CONDITIONS – ASSEMBLY**

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**INITIAL SETUP****References:**

WP 0002  
WP 0008

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**ASSEMBLY AND PREPARATION FOR USE****Inventory**

Proper sizing of the IOTV and IOTV Gen II is critical to its ability to protect you from ballistic threats. This includes ensuring each component of your IBA system is the correct size.

**NOTE**

Any component of the IOTV is compatible with any component of the IOTV Gen II. When conducting inventory, any combination of components will make up a system as long as all components are present and properly sized.

1. Inventory system using Table 1.
  - a. Go to the first row in Table 1.
  - b. The first column lists the name of the component to be inventoried.
  - c. The second column indicates the quantity of that item required to make a complete IBA system (IOTV or IOTV Gen II configuration).
  - d. The third and fourth columns have pictures of each component for either the IOTV or IOTV Gen II. These columns also have notes to help identify the differences between the IOTV and IOTV Gen II versions of each component.
2. Check the interior side of each component for a data label.
3. Ensure each component is the correct size for your system as indicated in Table 2.
  - a. On the first row, find the size of your IOTV or IOTV Gen II.
  - b. As you inventory each component, find that component in the left-most column of Table 2.
  - c. The correct size for each component is listed at the intersection of the row the individual component is listed on and the column that lists the size of your vest.
4. If a component is not the correct size or if it does not have a data label, turn it in for a properly sized component.
5. Inspect each component using Table 1, WP 0008, Preventive Maintenance Checks and Services.

## OPERATOR MAINTENANCE

## IMPROVED OUTER TACTICAL VEST

## IMPROVED OUTER TACTICAL VEST GEN II

## OPERATION UNDER USUAL CONDITIONS – ASSEMBLY

## ASSEMBLY AND PREPARATION FOR USE - CONTINUED

## NOTE

The following table shows pictures of each component and notes major differences between systems for easy identification. Refer to WP 0002, Differences Between Models section for more details on how to identify the different components.

Table 1. IOTV and IOTV Gen II Inventory.

Component	QTY	IOTV	IOTV Gen II
Front Carrier	1	 <p>Mesh interior. IOTV Front Carrier must also have a cable stop below.</p>	 <p>Solid fabric interior. Equipment attachment rings on shoulders (exterior fabric).</p>
		 <p>Cable Stop.</p>	
Front Ballistic Insert	1		Same as IOTV
Back Carrier	1	 <p>Mesh interior.</p>	Solid fabric interior.

## OPERATOR MAINTENANCE







## IMPROVED OUTER TACTICAL VEST

## IMPROVED OUTER TACTICAL VEST GEN II

## OPERATION UNDER USUAL CONDITIONS – ASSEMBLY

## ASSEMBLY AND PREPARATION FOR USE – CONTINUED

Table 1. IOTV and IOTV Gen II Inventory – Continued.

Component	QTY	IOTV	IOTV Gen II
Back Soft Ballistic Inserts	1		Same as IOTV
Side Plate Carrier	2	 Plate pocket attached. Must have one each of right and left side plate carrier.	 Stiff throughout. Plate pouch is detachable. Neither is side-specific.
Internal Elastic Band (One each of left and right)	2	 One is semi-permanently attached.	Same as IOTV but both are completely separable.
Cable Release Assembly	1	 Cable comes out middle of handle.	Cable comes out side of handle.
Front Yoke/Collar	1		Same as IOTV.

## OPERATOR MAINTENANCE






## IMPROVED OUTER TACTICAL VEST

## IMPROVED OUTER TACTICAL VEST GEN II

## OPERATION UNDER USUAL CONDITIONS – ASSEMBLY

## ASSEMBLY AND PREPARATION FOR USE – CONTINUED

Table 1. IOTV and IOTV Gen II Inventory – Continued.





Component	QTY	IOTV	IOTV Gen II
Back Yoke/Collar	1		Same as IOTV.
Groin Protector	1		Same as IOTV
Groin Protector Soft Ballistic Inserts	1		Same as IOTV
Lower Back Protector	1	 Pouch.	No pouch.
Lower Back Protector Ballistic Insert	1		Same as IOTV.



**OPERATOR MAINTENANCE**  
**IMPROVED OUTER TACTICAL VEST**  
**IMPROVED OUTER TACTICAL VEST GEN II**  
**OPERATION UNDER USUAL CONDITIONS – ASSEMBLY**

**ASSEMBLY AND PREPARATION FOR USE – CONTINUED**

**Table 1. IOTV and IOTV Gen II Inventory – Continued.**

<b>Component</b>	<b>QTY</b>	<b>IOTV</b>	<b>IOTV Gen II</b>
Deltoid Protector	<b>2</b>		Same as IOTV.
Deltoid Protector Soft Ballistic Inserts	<b>2</b>		Same as IOTV.
ESBI Plate	<b>2</b>		Same as IOTV
ESAPI Plate	<b>2</b>		Same as IOTV

## OPERATOR MAINTENANCE

## IMPROVED OUTER TACTICAL VEST

## IMPROVED OUTER TACTICAL VEST GEN II

## OPERATION UNDER USUAL CONDITIONS – ASSEMBLY

## ASSEMBLY AND PREPARATION FOR USE – CONTINUED

Table 2. IOTV and IOTV Gen II Component Sizing Chart.

Vest Size	XS	S	M	ML	L	LL	XL	XLL	2XL	3XL	4XL
Front Carrier & Soft Ballistic Insert	XS	S	M	ML	L	LL	XL	XLL	2XL	3XL	4XL
Back Carrier & Soft Ballistic Insert	XS	S	M	ML	L	LL	XL	XLL	2XL	3XL	4XL
Cable Release Assembly	XS-S	XS-S	M-LL	M-LL	M-LL	M-LL	XL-XLL	XL-XLL	2XL-4XL	2XL-4XL	2XL-4XL
Internal Elastic Band	XS-S	XS-S	M-LL	M-LL	M-LL	M-LL	XL-2XL	XL-2XL	XL-2XL	3XL-4XL	3XL-4XL
Side Plate Carriers	XS-S	XS-S	M-LL	M-LL	M-LL	M-LL	XL-2XL	XL-2XL	XL-2XL	3XL-4XL	3XL-4XL
Universal Side Plate Pouch (IOTV Gen II Only)	U	U	U	U	U	U	U	U	U	U	U
Front Yoke/Collar	U	U	U	U	U	U	U	U	U	U	U
Back Yoke/Collar	XS	S	M-ML	M-ML	L-LL	L-LL	XL-XLL	XI-XXL	2XL	3XL	4XL
Groin Protector & Soft Ballistic Insert	XS-ML	XS-ML	XS-ML	XS-ML	L-4XL	L-4XL	L-4XL	L-4XL	L-4XL	L-4XL	L-4XL
Lower Back Protector & Soft Ballistic Insert	U	U	U	U	U	U	U	U	U	U	U
Deltoid Protectors & Soft Ballistic Inserts	XS-S	XS-S	M-L	M-L	M-L	M-L	XL-4XL	XL-4XL	XL-4XL	XL-4XL	XL-4XL
ESAPI Plates	XS	S	M	M	L	L	XL	XL	XL	XL	XL
ESBI Plates	U	U	U	U	U	U	U	U	U	U	U

END OF TASK

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**OPERATOR MAINTENANCE**  
**IMPROVED OUTER TACTICAL VEST**  
**IMPROVED OUTER TACTICAL VEST GEN II**  
**OPERATION UNDER USUAL CONDITIONS – ASSEMBLY**

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**ASSEMBLY AND PREPARATION FOR USE – CONTINUED**

**Assemble IOTV or IOTV Gen II**

**WARNING**

Ensure the sizes of the front and back carrier match by comparing data plate information. Ensure the sizes of the attachable items match the sizes of the front and back carriers by comparing data plate information. Failure to do so could affect performance, causing injury or death to the servicemember.

**NOTE**

The term “interior fabric” or “interior surface” means the side of any component of the IBA system that faces the soldier when worn. The term “exterior fabric” or “exterior surface” means the side of any component of the IBA system that faces away from the soldier. The term “inside surface,” “inside fabric” or “inside” means the area of any IBA component that is between the exterior and interior surfaces. The inside or inside surface of an IBA component is the portion that touches the soft ballistic inserts.

**Inserting Soft Ballistic Inserts.**

1. Place the carrier on a clean surface with the exterior surface facing down.
2. Place the soft ballistic insert on top of the carrier with the data label facing up (Figure 1).



Figure 1. Placing Carrier Exterior Fabric Down.

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**OPERATOR MAINTENANCE**  
**IMPROVED OUTER TACTICAL VEST**  
**IMPROVED OUTER TACTICAL VEST GEN II**  
**OPERATION UNDER USUAL CONDITIONS – ASSEMBLY**

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**ASSEMBLY AND PREPARATION FOR USE – CONTINUED**

3. Separate the hook and loop fastener tape on the interior fabric of the carrier.
4. Fold the shoulders and sides of the soft ballistic insert in toward the center (Figure 2).



Figure 2. Inserting Soft Ballistics.

5. Place soft ballistics inside the carrier.
6. Using your hand, smooth the soft ballistic insert so that it fits snugly inside the carrier and does not bulge or fold (Figure 3).

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**OPERATOR MAINTENANCE**  
**IMPROVED OUTER TACTICAL VEST**  
**IMPROVED OUTER TACTICAL VEST GEN II**  
**OPERATION UNDER USUAL CONDITIONS – ASSEMBLY**

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**ASSEMBLY AND PREPARATION FOR USE – CONTINUED**



Figure 3. Inserting Soft Ballistics (Actual Vest Material is Not See-Through).

7. Re-seal the hook and loop fastener tape, ensuring that the tape and fabric are smooth and have no folds or puckers.
8. Repeat steps 1-7 for the back carrier.

**OPERATOR MAINTENANCE****IMPROVED OUTER TACTICAL VEST****IMPROVED OUTER TACTICAL VEST GEN II****OPERATION UNDER USUAL CONDITIONS – ASSEMBLY****ASSEMBLY AND PREPARATION FOR USE – CONTINUED**

9. Repeat steps 1-3 and 5-7 for the deltoid protectors, lower back protector, and groin protector. Refer to Figure 4 for an example of how to insert soft ballistic into ancillary equipment.



Figure 4. Inserting Soft Ballistics into Lower Back Protector.

**END OF TASK****Inserting Hard Armor.**

1. Place the carrier on a clean surface with the exterior surface facing down.
2. Separate the hook and loop fastener tape on the interior fabric of the carrier.
3. If installed, lift the soft ballistic insert to reveal the hard armor pocket.
4. Unfasten the nylon strap at the bottom of the hard armor pocket (Figure 5).

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**OPERATOR MAINTENANCE**  
**IMPROVED OUTER TACTICAL VEST**  
**IMPROVED OUTER TACTICAL VEST GEN II**  
**OPERATION UNDER USUAL CONDITIONS – ASSEMBLY**

---

**ASSEMBLY AND PREPARATION FOR USE – CONTINUED**



Figure 5. Opening Hard Armor Protective Insert Pocket.

5. Place ESAPI plate into the hard armor pocket with the concave side up (Figure 6).



Figure 6. Inserting Hard Armor Protective Insert.

---

**OPERATOR MAINTENANCE**  
**IMPROVED OUTER TACTICAL VEST**  
**IMPROVED OUTER TACTICAL VEST GEN II**  
**OPERATION UNDER USUAL CONDITIONS – ASSEMBLY**

---

**ASSEMBLY AND PREPARATION FOR USE – CONTINUED**

6. Reattach the nylon webbing on the hard armor pocket (Figure 7). The webbing should be tightened enough to hold the hard armor in the pocket firmly with no slipping.



Figure 7. Re-sealing the Hard Armor Protective Insert Pocket.

7. Smooth the soft ballistic inserts inside the carrier, ensuring there are no folds or buckles.
8. Re-seal the hook and loop fastener tape on the interior of the carrier, ensuring there are no folds or puckers.
9. Repeat steps 1-8 for the back carrier.

**END OF TASK**

**Installing the Yoke/Collar Assembly.**

1. Lay the front and back carrier on a flat surface with interior surface up.
2. Position the front collar half on the front carrier and slip the side straps of collar through the mating loops on carrier (Figure 8). Secure the snap fasteners.
3. Weave remaining straps through the mating loops and secure the snap fasteners (Figure 8).



**OPERATOR MAINTENANCE****IMPROVED OUTER TACTICAL VEST****IMPROVED OUTER TACTICAL VEST GEN II****OPERATION UNDER USUAL CONDITIONS – ASSEMBLY****ASSEMBLY AND PREPARATION FOR USE – CONTINUED**

Figure 8. Attaching Front Collar.

**OPERATOR MAINTENANCE****IMPROVED OUTER TACTICAL VEST****IMPROVED OUTER TACTICAL VEST GEN II****OPERATION UNDER USUAL CONDITIONS – ASSEMBLY****ASSEMBLY AND PREPARATION FOR USE – CONTINUED**

4. Position the back collar half on the back carrier and secure the sides of collar with the hook and loop fastener tape (Figure 9).
5. Weave remaining straps through the mating loops and secure the snap fasteners (Figure 9).



Figure 9. Attaching Back Collar.

**END OF TASK****Assembling Base Vest Assembly.**

1. (IOTV ONLY) Route the cables through the grommets on the cable stop. It does not matter which cable goes through which grommet (Figure 10).



Figure 10. Routing Cable through Cable Stop.

**OPERATOR MAINTENANCE****IMPROVED OUTER TACTICAL VEST****IMPROVED OUTER TACTICAL VEST GEN II****OPERATION UNDER USUAL CONDITIONS – ASSEMBLY****ASSEMBLY AND PREPARATION FOR USE – CONTINUED****WARNING**

Ensure there are no kinks in the quick-release cable. Failure to do so could adversely affect the function of the quick-release, causing injury or death to the service member.

Ensure the appropriate sized cable assembly is used according to the vest size.

(IOTV ONLY) Ensure the quick-release cable is routed through the two grommets of the cable stop, or a malfunction may occur. It does not matter which cable is routed through which grommet.

2. Insert the cable through the release cable pocket and route through the right shoulder (Figure 11).
  - a. (IOTV ONLY) Continue to route cable through the release cable webbing channel on the right shoulder of the front carrier (Figure 11).



Figure 11. Routing the Cable Release Assembly on Front Carrier.

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**OPERATOR MAINTENANCE****IMPROVED OUTER TACTICAL VEST****IMPROVED OUTER TACTICAL VEST GEN II****OPERATION UNDER USUAL CONDITIONS – ASSEMBLY**

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**ASSEMBLY AND PREPARATION FOR USE – CONTINUED**

3. Stow the cable-release handle in the cable release handle pocket and secure with the hook and loop patches inside the pocket.
4. Adjust right shoulder buckle so that the reducer buckle is even with the cable webbing channel (Figure 12).



Figure 12. Adjusting Left Shoulder Webbing Length.

5. Align the front and back carriers with the interior side down, right shoulder to right shoulder and left shoulder to left shoulder (Figure 13).
6. Route the right side buckles and cables from the front carrier through the shoulder strap guide of the back carrier. Route the left side buckle of the front carrier through the shoulder strap guide of the back carrier (Figure 13).



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**OPERATOR MAINTENANCE**  
**IMPROVED OUTER TACTICAL VEST**  
**IMPROVED OUTER TACTICAL VEST GEN II**  
**OPERATION UNDER USUAL CONDITIONS – ASSEMBLY**

---

**ASSEMBLY AND PREPARATION FOR USE – CONTINUED**



Figure 13. Connecting Front and Back Carriers.

7. Open the upper access panel by separating the hook and loop fastener tape.
8. Route both lengths of the cable release through the opening at the top of the upper access panel (Figure 13, Item 1).
9. Route the two webbing loops under the upper access panel through the metal buckles on the front carrier shoulder straps (Figure 14, Items 1 and 2).
10. Route the short cable release through the portion of the right hand webbing loop that sticks out of the buckle (Figure 14, Item 2).
11. Continue routing the release cable through the center cable routing channel (Figure 14, Item 3) and through the left hand webbing loop that sticks out of the buckle (Figure 14, Item 3).

**NOTE**

There are two olive-drab green straps with buckles attached to the ends under the upper flap of the back carrier. Do not use these buckles during assembly. They are to only be used with the Land Warrior System.

12. Insert the remaining portion of the release cable into the release cable stowage channel on the left side of the vest, ensuring the cable extends a minimum of 1½ inches past the left hand webbing loop (Figure 14, Item 4).

**OPERATOR MAINTENANCE**  
**IMPROVED OUTER TACTICAL VEST**  
**IMPROVED OUTER TACTICAL VEST GEN II**  
**OPERATION UNDER USUAL CONDITIONS – ASSEMBLY**

**ASSEMBLY AND PREPARATION FOR USE – CONTINUED**

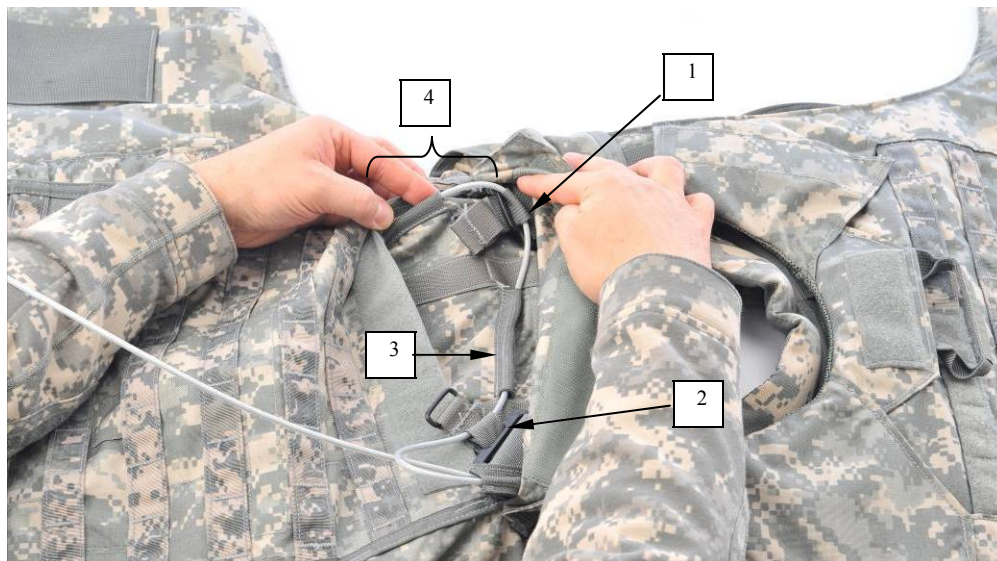


Figure 14. Routing Short Release Cable.

13. Route longer release cable through opening in lower access panel (Figure 15).



Figure 15. Routing Long Release Cable through the Lower Access Panel.

14. Release the upper access panel, ensuring the seam is flat with no folds or puckers.

**OPERATOR MAINTENANCE****IMPROVED OUTER TACTICAL VEST****IMPROVED OUTER TACTICAL VEST GEN II****OPERATION UNDER USUAL CONDITIONS – ASSEMBLY****ASSEMBLY AND PREPARATION FOR USE – CONTINUED****NOTE**

Most IOTV back carriers have one of the internal elastic bands semi-permanently attached. IOTV Gen II back carriers do not.

15. Route the 1-inch nylon webbing one internal band (Figure 16, Item 3) through the internal elastic band routing channel (Figure 16, Item 1) and then through the wing channels (Figure 16, Item 2). Ensure the data label side is facing the vest.
16. If the second internal elastic band is not semi-permanently attached, repeat step 15 for the opposite side.

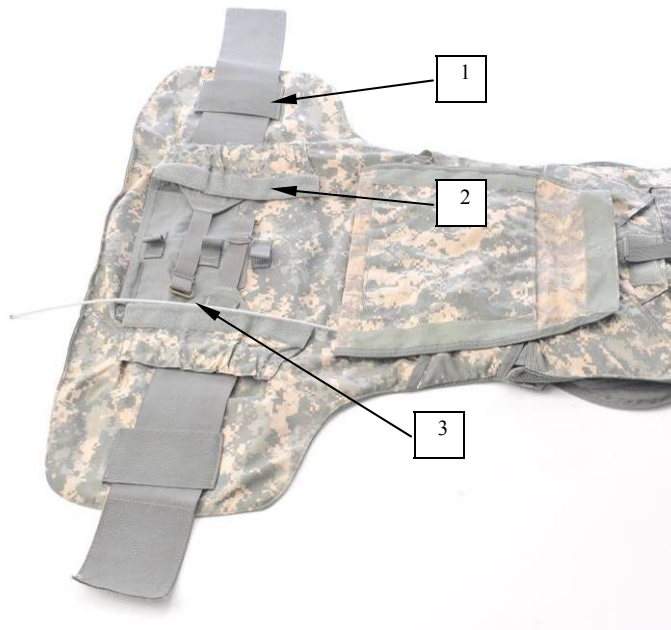


Figure 16. Installing the Internal Elastic Bands.

**OPERATOR MAINTENANCE****IMPROVED OUTER TACTICAL VEST****IMPROVED OUTER TACTICAL VEST GEN II****OPERATION UNDER USUAL CONDITIONS – ASSEMBLY****ASSEMBLY AND PREPARATION FOR USE – CONTINUED****NOTE**

For the IOTV, the side plate carriers are labeled for left or right side use. Use the left side plate carrier for the left side and the right side plate carrier for the right side.

For the IOTV Gen II, the side plate carriers are universal and can be used on either side.

17. Route the two, 1-inch nylon webbings on one of the side plate carriers (Figure 17, Item 2) through the wing channels (Figure 17, Item 1). Ensure the data label side is facing the vest.
18. Repeat step 17 for the opposite side.

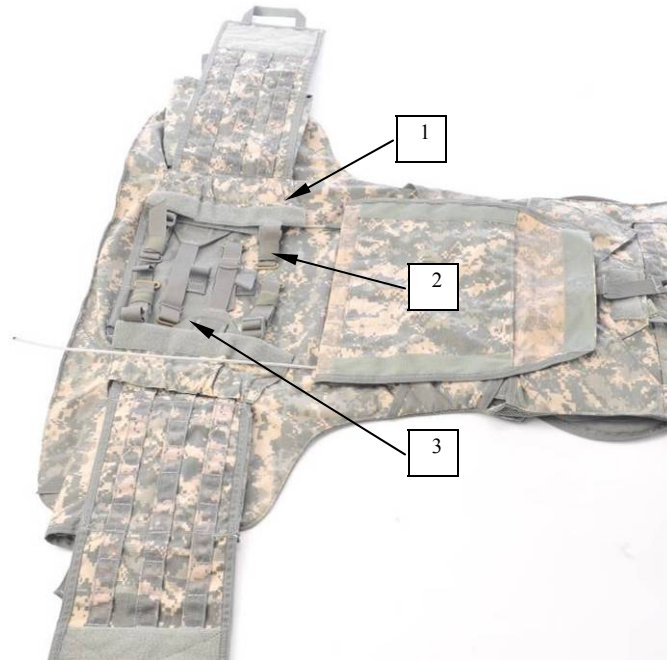


Figure 17. Installing the Side Plate Carriers.



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**OPERATOR MAINTENANCE**  
**IMPROVED OUTER TACTICAL VEST**  
**IMPROVED OUTER TACTICAL VEST GEN II**  
**OPERATION UNDER USUAL CONDITIONS – ASSEMBLY**

---

**ASSEMBLY AND PREPARATION FOR USE – CONTINUED**

**WARNING**

Proper routing of the cable release assembly is critical to the proper operation of the vest during an emergency doffing. The left-hand side plate carrier (left side plate carrier for IOTV or left-hand universal side plate carrier for IOTV Gen II) should be attached first, followed by the right. Failure to follow these directions could result in injury or death.

19. Route the uppermost loop of 1-inch webbing through the rectangular ring at the end of the 1-inch nylon webbing on the right-hand side plate carrier and then through the left-hand side plate carrier. Refer to Figure 18 for the sequence.
20. If one of the internal elastic bands is semi-permanent attached, route the middle loop of 1-inch webbing through the rectangular ring at the end of the opposite internal elastic band. If both elastic bands are permanently detached, then route the loop of 1-inch webbing through one internal elastic band and then through the second internal elastic band. Refer to Figure 18 for sequence.
21. Route the lowermost loop of 1-inch webbing through the rectangular ring at the end of the 1-inch nylon webbing on the right-hand side plate carrier and then through the left-hand side plate carrier. Refer to Figure 18 for the sequence.
22. Ensuring the 1-inch nylon webbing does not come out of the rectangular rings, route the long release cable through all three loops from top to bottom (Figure 18).
23. Tuck the end of the release cable into the cable stowage pocket, ensuring a minimum of 1 ½ inches of cable extend past the last webbing loop (Figure 18).

## OPERATOR MAINTENANCE

## IMPROVED OUTER TACTICAL VEST

## IMPROVED OUTER TACTICAL VEST GEN II

## OPERATION UNDER USUAL CONDITIONS – ASSEMBLY

## ASSEMBLY AND PREPARATION FOR USE – CONTINUED

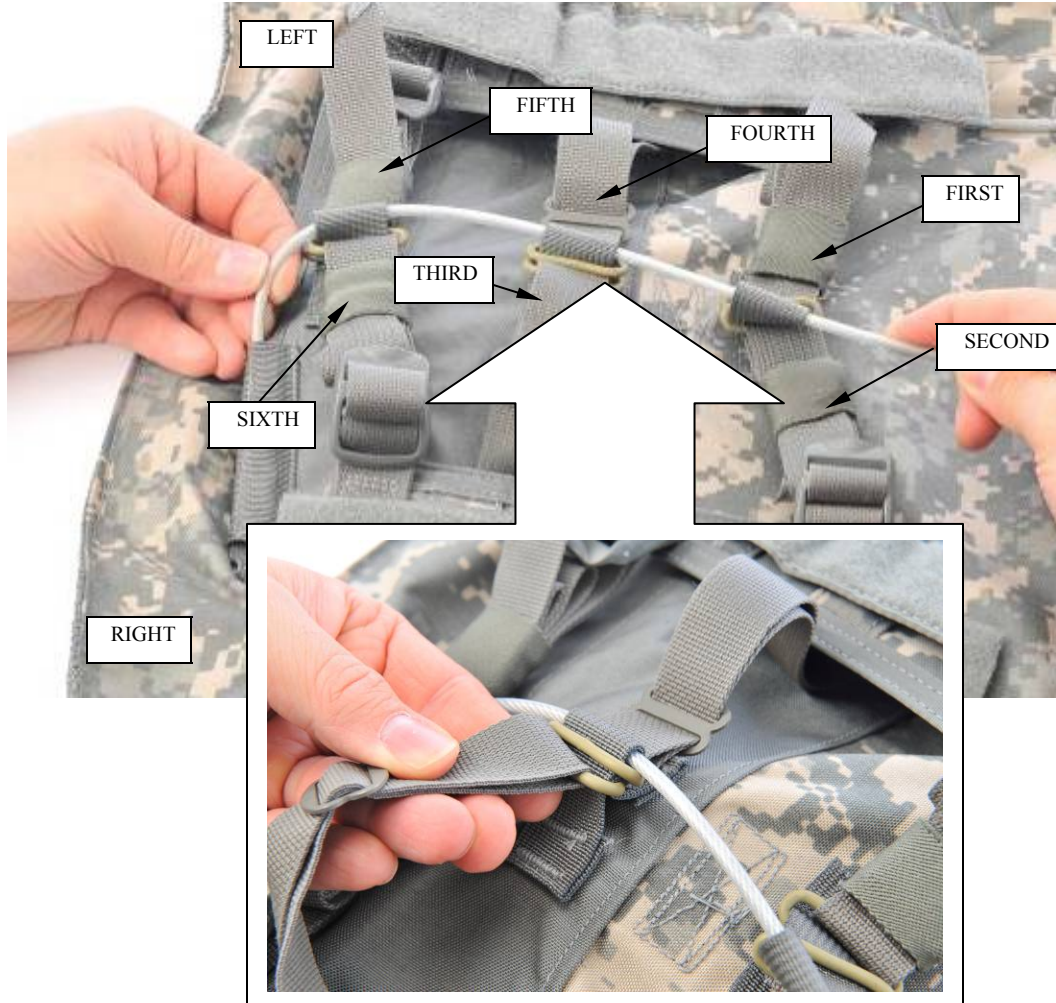


Figure 18. Routing Cable Release through Side Plate Carriers.

24. Gather any loose straps and secure using elastic keepers (Figure 19). The back pocket is now prepared to close.
25. Close and attach the back flap to the hook and loop strips, and tuck the bottom of the back flap up into the back flap pocket.

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**OPERATOR MAINTENANCE**  
**IMPROVED OUTER TACTICAL VEST**  
**IMPROVED OUTER TACTICAL VEST GEN II**  
**OPERATION UNDER USUAL CONDITIONS – ASSEMBLY**

---

**ASSEMBLY AND PREPARATION FOR USE – CONTINUED**



Figure 19. Long Release Cable Routing.

**END OF TASK**

**Installing the Ballistic Groin Protector and Lower Back Protector.**

**NOTE**

The following procedures are identical for the lower back protector and the groin protector. The lower back protector attaches to the back carrier. The groin protector attaches to the front carrier.

1. Lay carrier on flat surface with interior surface facing up.
2. Insert both straps on groin protector (Figure 20) or lower back protector into the webbing loops on the carrier.
3. Fold over and secure the snap fasteners.
4. Ensure the data label faces the body when worn.

---

**OPERATOR MAINTENANCE**  
**IMPROVED OUTER TACTICAL VEST**  
**IMPROVED OUTER TACTICAL VEST GEN II**  
**OPERATION UNDER USUAL CONDITIONS – ASSEMBLY**

---

**ASSEMBLY AND PREPARATION FOR USE – CONTINUED**



Figure 20. Attaching Groin Protector.

**Attaching the Deltoid Protectors.**

**WARNING**

Do not include the flap of the back yoke when attaching the deltoid protector to the vest. Doing so may prevent the cable release from operating correctly.

**NOTE**

Deltoid protectors are universal. There is no right or left deltoid protector.

1. Unhook and fully extend deltoid protector upper attachment strap. Route the strap over and under the shoulder of the vest. For maximum protection, ensure the deltoid protector overlaps where the front and back shoulder joins.
2. Use the same procedure for attaching both right and left deltoid protectors.
3. Secure the deltoid protector around the arm by pulling the loose end of the attachment strap around the arm and securing the hook and loop material.

**END OF TASK**

---

**OPERATOR MAINTENANCE**  
**IMPROVED OUTER TACTICAL VEST**  
**IMPROVED OUTER TACTICAL VEST GEN II**  
**OPERATION UNDER USUAL CONDITIONS – ASSEMBLY**

---

**ASSEMBLY AND PREPARATION FOR USE – CONTINUED**

**Inserting Side Hard Armor Plates (ESBI).**

**WARNING**

During pre-combat inspections, check that side plate strap has an additional turn with the strap through the buckle for added security. Without the strap being properly secured, the plate could fall out, leaving the servicemember vulnerable to small-arms fire or fragmentation.

1. Lay the back carrier on flat surface with the interior material up and side plate carriers folded out, exposing the side plate pockets. There are two methods to install the side ballistic plates.
2. Top Load Method (IOTV and IOTV Gen II):
  - a. The first method is to unfasten the hook and loop on the top flap of the side plate pocket and pull out the flap and insert the side ballistic plate.
  - b. Push the plate into pocket, fold the flap back into pocket and re-attach the hook and loop fastener tape.
3. Bottom Load Method (IOTV ONLY):
  - a. The second method is to unweave the webbing from the buckle on the bottom of the pouch.
  - b. Open the pouch and insert the plate with the concaved portion facing toward the inside.
  - c. Close the flap and weave the strap back through the buckle.
  - d. Route the end of the strap back through the buckle in the opposite direction to lock.
4. If using the X-Small ESAPI plates instead of ESBI plates, insert the plate into unbuckled bottom flap and into the opened top flap. Buckle the bottom flap closed, ensuring to put the additional loop through the buckle to secure the strap.

**END OF TASK**

**END OF WORK PACKAGE**

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**OPERATOR MAINTENANCE**  
**IMPROVED OUTER TACTICAL VEST**  
**IMPROVED OUTER TACTICAL VEST GEN II**  
**OPERATION UNDER USUAL CONDITIONS – DON, DOFF, ADJUST**

---

**INITIAL SETUP**

References:

WP 0004

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**DON**

There are two methods to don the IOTV and IOTV Gen II. The primary method is the over-the-head method. The alternate method is over-the-shoulder method.

Prior to donning your body, attach all the components necessary to meet mission requirements.

**NOTE**

When the IBA is worn and adjusted correctly, there will be at least ½-inch overlap of fabric where the front and back carriers join at the shoulder.

1. Place vest on shoulder using the over-the-head method.
  - a. Open the left shoulder of the vest (medical access point) and unstrap the shoulder strap.
  - b. Loosen the left shoulder strap.
  - c. Place the vest over your head. (Figure 1).



Figure 1. Over the Head Donning.

**0005-1**

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**OPERATOR MAINTENANCE****IMPROVED OUTER TACTICAL VEST****IMPROVED OUTER TACTICAL VEST GEN II****OPERATION UNDER USUAL CONDITIONS – DON, DOFF, ADJUST**

---

**DON – CONTINUED**

- d. Pull on the left shoulder strap until tightened.
- e. Secure left shoulder strap with hook and loop fastener tape and snap into place (Figure 2).



Figure 2. Adjusting Left Shoulder Strap.

- 2. Place vest on shoulder using the over-the-shoulder method.
  - a. Open the left shoulder of the vest (medical access point).
  - b. Completely separate the left shoulder strap from the front carrier.



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**OPERATOR MAINTENANCE****IMPROVED OUTER TACTICAL VEST****IMPROVED OUTER TACTICAL VEST GEN II****OPERATION UNDER USUAL CONDITIONS – DON, DOFF, ADJUST**

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**DON – CONTINUED**

- c. Slide the vest on over the right shoulder (Figure 3).



Figure 3. Donning Over-the-Shoulder.

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**OPERATOR MAINTENANCE****IMPROVED OUTER TACTICAL VEST****IMPROVED OUTER TACTICAL VEST GEN II****OPERATION UNDER USUAL CONDITIONS – DON, DOFF, ADJUST**

---

**DON – CONTINUED**

- d. To connect left shoulder straps, sandwich hook and loop strap on front carrier between the two hook and loop straps on back carrier (Figure 4).



Figure 4. Securing Left Shoulder Strap.

3. Secure the internal elastic band by lifting front carrier and pulling two halves of the band forward and connecting hook and loop fastener tape.
4. With the front carrier down, lift up the front flap to reveal the side plate carrier attachment points.

---

**OPERATOR MAINTENANCE****IMPROVED OUTER TACTICAL VEST****IMPROVED OUTER TACTICAL VEST GEN II****OPERATION UNDER USUAL CONDITIONS – DON, DOFF, ADJUST**

---

**DON – CONTINUED****WARNING**

Ensure front and back carrier soft ballistic protection overlaps under the arm when donning the vest.

5. Pull one of the side plate carriers around the body and attach to same side hook and loop panel in front. Repeat the step with the other half. Ensure the hook material is square with the pile material and do not overlap (Figure 5).



Figure 5. Securing Side Plate Carriers.

6. Close the front flap, secure with hook and loop tape, and tuck the bottom of the front flap up into the front flap pocket.
7. If wearing deltoid protectors, secure to arms using arm strap IAW WP 0004.

**END OF TASK**

---

**OPERATOR MAINTENANCE****IMPROVED OUTER TACTICAL VEST****IMPROVED OUTER TACTICAL VEST GEN II****OPERATION UNDER USUAL CONDITIONS – DON, DOFF, ADJUST**

---

**DOFFING**

There are three methods to doff the IOTV and IOTV Gen II. The primary method is the over-the-head method. The alternate method is over-the-shoulder method. This third method is the emergency release method.

**WARNING**

The emergency release system should be used during emergencies or instructional purposes only. Using the cable release method to routinely doff the vest could result in damage to the hard armor plates. Damage to the hard armor plates could result in injury or death to the wearer.

**NOTE**

Doffing the vest from the shoulder (over-the-head or over-the-shoulder) is the primary release method. Only use the cable-release in emergency situations or for instructional purposes.

1. If attached, remove the deltoid protector attachment straps from the arms.
2. Lift the front flap and detach side plate carriers by separating hook and loop fastener tape.
3. Lift front carrier and detach internal elastic bands at hook and loop interface.
4. Lift the vest over the head, or, separate the left shoulder strap and slide vest off the right shoulder.

**Doffing – Cable Release Method****WARNING**

The cable release function is only to be used in emergency situations and for instructional purposes.

When using the cable release function, do not allow the plates to fall to a solid floor, such as concrete or tile. The impact may damage the hard armor plates and could compromise the effectiveness of the plates. Doing so could cause serious injury or death to wearer.

Grasp the cable release handle on top center of the front carrier and pull. The vest will separate into front and back halves.

**END OF TASK**

---

**OPERATOR MAINTENANCE****IMPROVED OUTER TACTICAL VEST****IMPROVED OUTER TACTICAL VEST GEN II****OPERATION UNDER USUAL CONDITIONS – DON, DOFF, ADJUST**

---

**ADJUST**

1. Don vest.
  - a. When securing the internal elastic bands, ensure the hook and loop fastener tapes are matched and square.
  - b. When securing the side plate carriers to the front carrier, ensure the side plate carriers are squared on the hook and loop fastener tape. The hook and loop fastener tape should match as closely as possible.



Figure 6. Aligning Side Plate Carrier Attachment Points.

2. Have an assistant open the lower access panel on the back carrier.
3. The assistant should tighten straps until the vest fits firmly and comfortably on the body. Ensure all straps are adjusted evenly.

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**OPERATOR MAINTENANCE****IMPROVED OUTER TACTICAL VEST****IMPROVED OUTER TACTICAL VEST GEN II****OPERATION UNDER USUAL CONDITIONS – DON, DOFF, ADJUST**

---

**ADJUST – CONTINUED**

Figure 7. Adjusting Side Plate Carrier and Internal Elastic Band Straps.

4. Secure excess webbing in webbing keepers.
5. When completed, close the lower access panel and tuck the bottom up into the back flap pocket

**END OF TASK**

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**OPERATOR MAINTENANCE  
IMPROVED OUTER TACTICAL VEST  
IMPROVED OUTER TACTICAL VEST GEN II  
OPERATION UNDER UNUSUAL CONDITIONS**

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**INITIAL SETUP****References:**FM 3.11.3

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**INTERCEPTOR BODY ARMOR (IBA)**

The IBA is constructed to function in various temperature ranges and displays resistance to potentially caustic elements such as salt water.

**Hard Armor Ballistic Inserts**

The hard armor ballistic inserts are designed to be structurally and ballistically functional from -60 to 160 degrees Fahrenheit. The inserts are also designed for resistance to fluids such as diesel, gasoline and salt water. The inserts can be immersed in these fluids up to two hours before functionality is affected.

**Ballistic Inserts**

The soft armor is designed to meet 97.6% of the minimum performance of a dry sample when hot or cold, and 92.7% of the minimum performance of a dry sample when wet or diesel or gas soaked. Extreme heat or cold does not affect the ballistic inserts.

**Fording and Swimming**

Swimming or fording while wearing the IOTV or IOTV Gen II could be fatal because of the weight of the system. Before swimming or fording doff the IOTV or IOTV Gen II by using either the normal or cable release methods.

**Interim Chemical, Biological, Radiological and Nuclear (CBRN) Decontamination Procedures**

If the IBA is exposed to any Chemical, Biological, Radiological, and Nuclear (CBRN) elements dispose of it in accordance with FM 3.11.3.

**END OF WORK PACKAGE**





**CHAPTER 3**

**PREVENTITIVE MAINTENANCE CHECKS  
AND SERVICES  
FOR  
IMPROVED OUTER TACTICAL VEST (IOTV)  
AND  
IMPROVED OUTER TACTICAL VEST GEN II (IOTV GEN II)**



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**OPERATOR MAINTENANCE****IMPROVED OUTER TACTICAL VEST****IMPROVED OUTER TACTICAL VEST GEN II**

---

**PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS) – INTRODUCTION**

---

**INTRODUCTION**

Preventive Maintenance Checks and Services (PMCS) are performed to keep clothing items in good serviceable condition and ready for issue. Pay attention to **WARNING**, **CAUTION**, and **NOTE** statements. A **WARNING** indicates that someone could be hurt or killed. A **CAUTION** indicates that equipment could be damaged. A **NOTE** may make your maintenance or repair task easier.

Be sure to perform scheduled PMCS. Always perform PMCS in the same order so it becomes habit. With practice, you will quickly recognize problems with the equipment.

Use DA Form 2404, Equipment Inspection and Maintenance Worksheet, to record any discovered faults. Do not record faults that you fix!

**PMCS PROCEDURES**

**Table 1. Preventive Maintenance Checks and Services (PMCS).** Lists inspections and care required to keep your equipment in good operating condition. It is arranged so that you can perform before operation checks as you walk around the equipment.

**EXPLANATION OF PMCS TABLE COLUMNS:**

**Item Number.** Indicates the reference number. When completing DA Form 2404, Equipment Inspection and Maintenance Worksheet, include the item number for the item to check/service indicating a fault. Item numbers appear in the order you must perform the checks/services listed.

**Interval.** Indicates when you must perform the procedure in the procedure column.

**Before** - perform before equipment operation

**During** - perform during equipment operation

**After** - perform after equipment has been operated

**Weekly** - perform every week

**Monthly** - perform each month

**Hours** - perform at the noted hourly interval

**Item to Check/Service.** Indicates the item to be checked or serviced.

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**OPERATOR MAINTENANCE****IMPROVED OUTER TACTICAL VEST****IMPROVED OUTER TACTICAL VEST GEN II**

---

**PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS) – INTRODUCTION**

---

**PMCS PROCEDURES - Continued**

**Procedure.** Indicates the procedure you must perform on the item listed in Item to Check/Service column. You must perform the procedure at the time specified in the Interval column.

**Not Fully Mission Capable If.** Indicates faults which will prevent your equipment from performing its primary mission. If you perform procedures listed in Procedure column which show faults listed in this column, do not operate the equipment. Follow standard procedures for maintaining the equipment or reporting equipment failure.

**Other Special Entries.** Observe all special information and notes that appear in Table 1.

When a check/service procedure is required for both weekly and before intervals, it is not necessary to perform the procedure twice if the equipment is operated during the weekly period.

**COMMON CHECKS AND CLEANING****Cleaning**

Observe the cleanliness of clothing articles as part of the item's serviceability. Remove loose dirt, sand, and debris from all items.

**END OF WORK PACKAGE**

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**OPERATOR MAINTENANCE  
IMPROVED OUTER TACTICAL VEST  
IMPROVED OUTER TACTICAL VEST GEN II  
PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS)**

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**INITIAL SETUP****References:**

WP 0015

**Materials/parts:**

Cleaning Foam System, Outer Vest (WP 0015, Item 1)

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**General**

Preventive maintenance checks and services (PMCS) are performed to keep the IOTV and IOTV Gen II in operating condition. The checks are used to find, correct, and report problems. The operator is to do the PMCS tasks shown in PMCS.

Table 1. PMCS is to be done before and after use of the IBA system and monthly.

Before you use the IOTV or IOTV Gen II, perform PMCS.

After you have used the IOTV or IOTV Gen II, perform PMCS.

**PMCS Column Description**

Column (1) ITEM NO. The order the PMCS should be performed.

Column (2) INTERVAL. Tells when the check should be performed.

Column (3) ITEM TO BE CHECKED OR SERVICED. Tells which items to perform the PMCS procedure on.

Column (4) PROCEDURE. Tells which procedure is to be performed. If item cannot be repaired, it must be replaced.

Column (5) EQUIPMENT NOT READY/AVAILABLE IF. Tells what conditions render the IOTV or IOTV Gen II unfit to perform the mission.

**OPERATOR MAINTENANCE**  
**IMPROVED OUTER TACTICAL VEST**  
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**PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS)**

**PMCS PROCEDURES**

**NOTE**

Illustrations in this manual show, for the most part, the IOTV. Unless otherwise indicated, the procedures for the IOTV and IOTV Gen II are identical and the use of IOTV illustrations does not affect the procedure.

**Table 1. Preventive Maintenance Checks and Services for IOTV and IOTV Gen II.**

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/AVAILABLE IF
1	Before	Base Vest Assembly	<p><b>Soldier</b>  Inspect Base Vest Assembly.</p> <p>a. Open the vest assembly and lay it flat on a clean surface so the exterior of the vest is facing the ground and the interior of the vest is facing up.</p> <p>b. Inspect the interior fabric of the vest and collar/yoke assembly for any cuts, frays or abrasions, or any damage that may interfere with the proper function of the body armor.</p> <p>c. Inspect the interior fabric of the vest and collar/yoke assembly for any dirt, stains or debris. Brush off any dirt or debris with a brush or rag.</p>	<p>Any cuts, frays or abrasions, or any damage that may interfere with the proper function of the body armor.</p> <p>Any petroleum-based stains.</p>

**OPERATOR MAINTENANCE**  
**IMPROVED OUTER TACTICAL VEST**  
**IMPROVED OUTER TACTICAL VEST GEN II**  
**PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS)**

**PMCS PROCEDURES – CONTINUED**

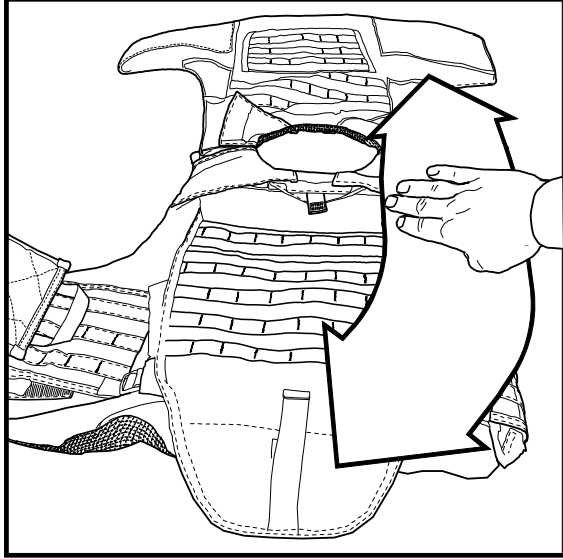
Table 1. Preventive Maintenance Checks and Services for IOTV and IOTV Gen II – Continued.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/AVAILABLE IF
	Before	Base Vest Assembly – Continued	<p>d. Run hands over entire surface of body armor to ensure ballistic inserts are flat. Smooth out any folds or bunching.</p> <p>e. Check the security of the hook and loop fasteners that close the inside fabric of the vest and that attach the ballistic inserts to the interior vest fabric.</p> <p>f. Run fingers or hand around collar/yoke assembly checking for creases or bunching in the ballistic fabric. Smooth out any folds or bunching.</p> <p>g. Turn vest over so that interior fabric faces down and the exterior fabric faces up (Figure 1).</p> <p>h. Inspect the exterior fabric of the vest and collar/yoke assembly for any cuts, frays or abrasions or any damage that may interfere with the proper function of the body armor.</p>	<p>Cannot be flattened.</p> <p>Hook and loop fastener tape does not function.</p> <p>Cannot be flattened.</p> <p>Any cuts, frays or abrasions, or any damage that may interfere with the proper function of the body armor.</p>

**OPERATOR MAINTENANCE**  
**IMPROVED OUTER TACTICAL VEST**  
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**PMCS PROCEDURES – CONTINUED**

Table 1. Preventive Maintenance Checks and Services for IOTV and IOTV Gen II – Continued.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/AVAILABLE IF
 <p style="text-align: center;">Figure 1. Smoothing Out IOTV.</p>				
2	Before	ESBI/ESAPI	<b>Soldier</b> Inspect ESAPI/ESBI plates (Figure 2). Turn in plates if:	a. Outer cover is damaged exposing the ceramic tile material.  b. Plate is cracked and you hear loose pieces rattling around when shaken.  c. Creaking or squeaking of ceramic tile heard when plate twisted by hand.  d. Composite backing is delaminating (backing material plies are separating).



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**PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS)**

**PMCS PROCEDURES – CONTINUED**

Table 1. Preventive Maintenance Checks and Services for IOTV and IOTV Gen II – Continued.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/AVAILABLE IF
	Before	ESBI/ESAPI – Continued		<p>e. Cracking of the ceramic tile is felt or heard as you firmly pinch the outer ½-inch perimeter of the plate.</p> <p>f. Plate has been hit by a bullet or fragment.</p>

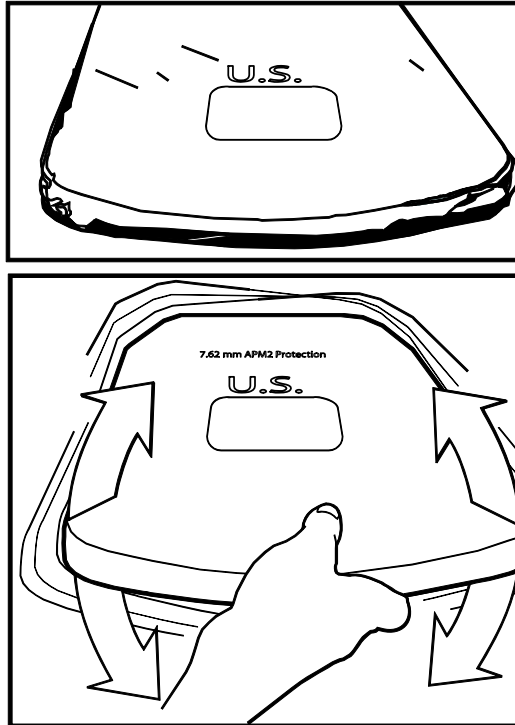


Figure 2. Inspect Plates.

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PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS)**

**PMCS PROCEDURES – CONTINUED**

Table 1. Preventive Maintenance Checks and Services for IOTV and IOTV Gen II – Continued.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/AVAILABLE IF
3	Before	IOTV or IOTV Gen II Vest	<b>Soldier</b> Don the IOTV a. Slip over head if the left shoulder is connected, or slide onto shoulders from right side if left shoulder strap is separated. b. To connect left shoulder straps, sandwich hook and loop fastener strap on front carrier between the two hook and loop fastener straps on back carrier. c. Secure snap fastener. d. Cover the buckle by folding over fabric flaps on carrier and securing hook and loop fastener.	

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**PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS)**

**PMCS PROCEDURES – CONTINUED**

Table 1. Preventive Maintenance Checks and Services for IOTV and IOTV Gen II – Continued.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/AVAILABLE IF
	Before	IOTV or IOTV Gen II Vest – Continued		

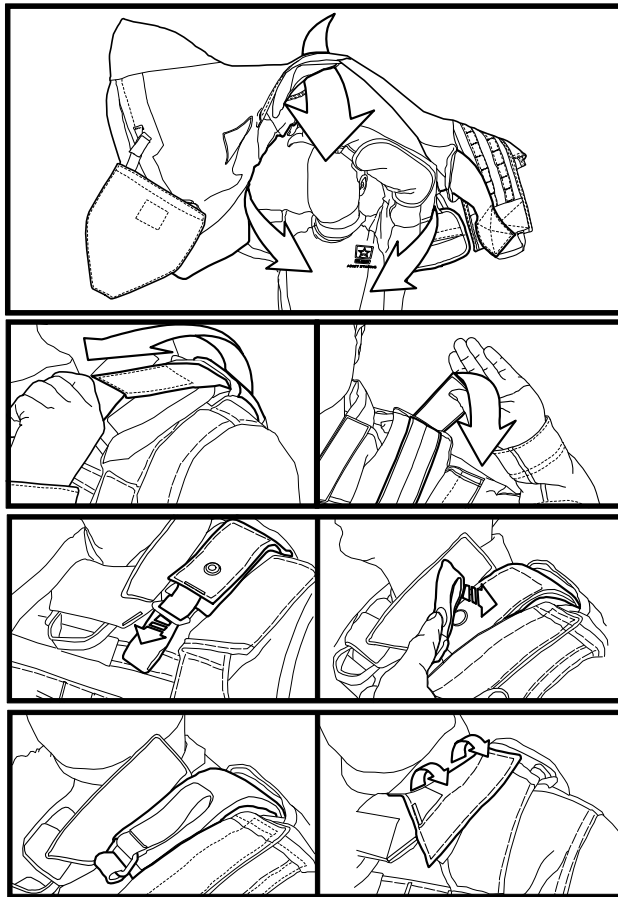


Figure 3. Donning IOTV (Over-the-Head Method).

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**PMCS PROCEDURES – CONTINUED**

Table 1. Preventive Maintenance Checks and Services for IOTV and IOTV Gen II – Continued.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/AVAILABLE IF
	Before	IOTV or IOTV Gen II Vest – Continued	<p>e. Secure internal elastic band by lifting front carrier and pulling two halves of the elastic band forward and connecting hook and loop fasteners (Figure 4).</p> <p>f. With the front carrier down, lift up the front flap to reveal the side plate carrier attachment points (Figure 5).</p> <p>g. Pull on of the side plate carriers around the body and attach to same side hook and loop fastener in front. Repeat with other side.</p> <p>h. Close the front flap, securing with hook and loop fasteners, and tuck the bottom of the front flap up into the front flap pocket.</p>	

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**PMCS PROCEDURES – CONTINUED**

Table 1. Preventive Maintenance Checks and Services for IOTV and IOTV Gen II – Continued.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/AVAILABLE IF
	Before	IOTV or IOTV Gen II Vest – Continued		

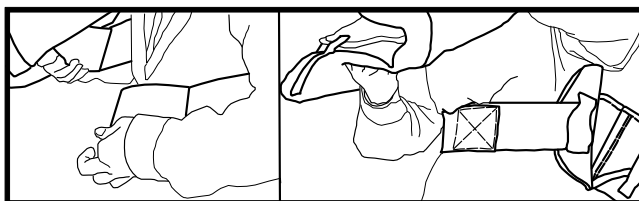



Figure 4. Securing Internal Elastic Bands.

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**PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS)**

**PMCS PROCEDURES – CONTINUED**

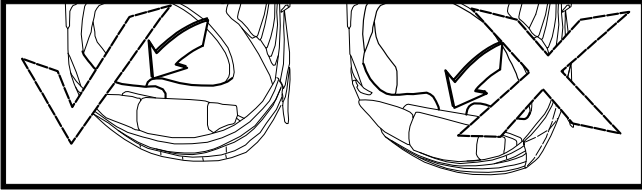
Table 1. Preventive Maintenance Checks and Services for IOTV and IOTV Gen II – Continued.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/AVAILABLE IF
	Before	IOTV or IOTV Gen II Vest – Continued		
				
Figure 5. Securing Side Plate Carriers.				

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**PMCS PROCEDURES – CONTINUED**

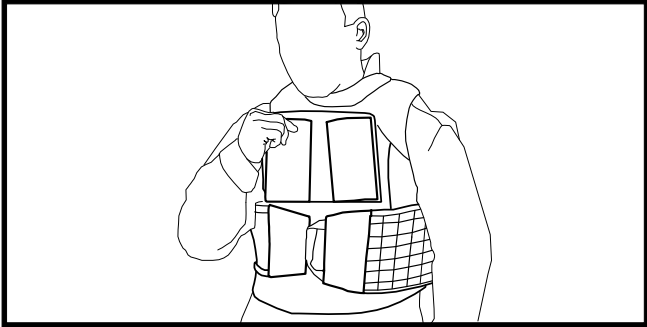
Table 1. Preventive Maintenance Checks and Services for IOTV and IOTV Gen II – Continued.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/AVAILABLE IF
4.	Before	IOTV or IOTV Gen II Vest	<b>Second Soldier</b> Check for proper fit of IOTV or IOTV Gen II.	
			a. Carrier should fit snugly with no gaps or folds in fabric. There should be a 1-inch overlap of the front and back carriers under the arm (Figure 6). Readjust if necessary.	Overlap is less than 1 inch.
 <p style="text-align: center;">Figure 6. Correct Side Ballistic Protection.</p>				
			b. Lift front cover. Side plate carriers should not overlap. Readjust if necessary.	

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**PMCS PROCEDURES – CONTINUED**

Table 1. Preventive Maintenance Checks and Services for IOTV and IOTV Gen II – Continued.

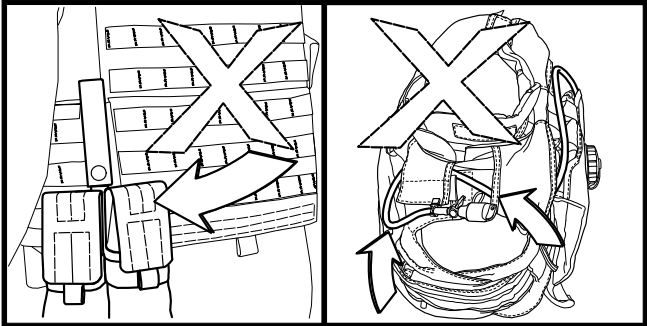
ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/AVAILABLE IF
	Before	IOTV or IOTV Gen II Vest – Continued		
 <p style="text-align: center;">Figure 7. Side Plate Carrier Check.</p>				
			c. Any additional pouches or gear should not cross front and back carriers, interfere with the cable release or connect the side plate carrier to the back carrier. Readjust if necessary.	



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**PMCS PROCEDURES – CONTINUED**

Table 1. Preventive Maintenance Checks and Services for IOTV and IOTV Gen II – Continued.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/AVAILABLE IF
	Before	IOTV or IOTV Gen II Vest – Continued		
 <p style="text-align: center;">Figure 8. Check for Bridging.</p>				
5.	Before	Cable Release	<p>d. Check both shoulders for proper overlap. Front and back carriers should overlap a minimum of 1-inch. Readjust if necessary.</p> <p>e. Check the cable release handle pocket on the front of the vest. The cable release handle should be fully seated and should not be hanging out. (IOTV Only) Ensure the cable stop is present.</p> <p><b>Second Soldier</b> Check for proper cable release routing.</p> <p>a. Open top panel on back carrier.</p>	Cable stop is not present.

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PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS)**

**PMCS PROCEDURES – CONTINUED**

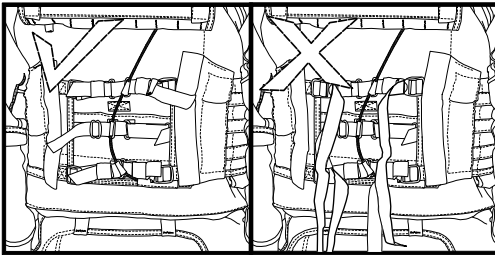
Table 1. Preventive Maintenance Checks and Services for IOTV and IOTV Gen II – Continued.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/AVAILABLE IF
	Before	Cable Release – Continued	<ul style="list-style-type: none"> <li>b. Ensure the long and short cables are not crossing and run freely through the vest. Readjust if necessary.</li> <li>c. Ensure the cable routes through both webbing loops (Figure 10, Items 1 and 2). Readjust if necessary.</li> <li>d. Ensure the cable extends at least 1 ½ inches past the left-most webbing loop (Figure 10, Item 1).</li> <li>e. Ensure the cable is not taped, tied or otherwise secured to the IOTV and the Land Warrior webbing is not to secure the cable release. Remove any tape or ties.</li> <li>f. Close top flap and open back flap.</li> <li>g. Ensure all six straps from the side plate carriers and internal elastic bands are attached to the three pieces of center webbing.</li> </ul>	Cable is too short.

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**PMCS PROCEDURES – CONTINUED**

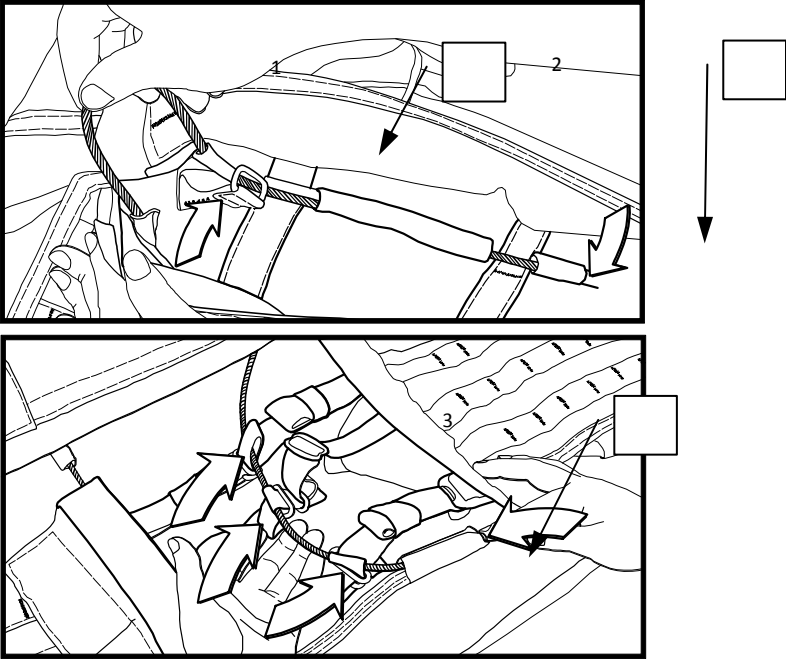
Table 1. Preventive Maintenance Checks and Services for IOTV and IOTV Gen II – Continued.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/AVAILABLE IF
	Before	Cable Release – Continued	<p>h. Ensure the cable extends at least 1½ inches past the last webbing loop (Figure 10, Item 3).</p> <p>i. Ensure the cable is not taped, tied or otherwise secured to the IOTV. Remove any tape or ties.</p> <p>j. Ensure all excess webbing is secured in the webbing retainer bands (Figure 9).</p>	Cable is too short.
 <p style="text-align: center;">Figure 9. Webbing Properly Stowed.</p>				

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**PMCS PROCEDURES – CONTINUED**

Table 1. Preventive Maintenance Checks and Services for IOTV and IOTV Gen II – Continued.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/AVAILABLE IF
6.	Before	IOTV or IOTV Gen II	<b>Second Soldier</b> Re-seal back flap.	
<div style="text-align: center;">  <p>Figure 10. Back Cable Routing.</p> </div>				
7.	Before	IBA	<b>Soldier</b> Ensure all components are attached to IOTV per unit SOP.	

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PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS)**

**PMCS PROCEDURES – CONTINUED**

Table 1. Preventive Maintenance Checks and Services for IOTV and IOTV Gen II – Continued.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/AVAILABLE IF
8.	After	IBA	<b>Soldier</b> Doff IOTV. <ol style="list-style-type: none"> <li>Lift front flap and detach side plate carriers by separating hook and loop fastener tapes.</li> <li>Lift front carrier and detach elastic band at hook and loop fasteners.</li> <li>Either lift the IOTV over the head or separate the left shoulder strap and slide IOTV off the right shoulder.</li> </ol>	
9.	After	ESAPI/ESBI	<b>Soldier</b> <ol style="list-style-type: none"> <li>Inspect ESAPI/ESBI plates. Turn in plates if:</li> </ol>	Outer cover is damaged exposing the ceramic tile material.  Plate is cracked and you hear loose pieces rattling around when shaken.  Creaking or squeaking of ceramic tile heard when plate twisted by hand.  Composite backing is delaminating (backing material plies are separating).  Cracking of the ceramic tile is felt or heard as you firmly pinch the outer ½-inch perimeter of the plate.  Plate has been hit by a bullet or fragment.
	After	ESAPI/ESBI – Continued		

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**PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS)**

**PMCS PROCEDURES – CONTINUED**

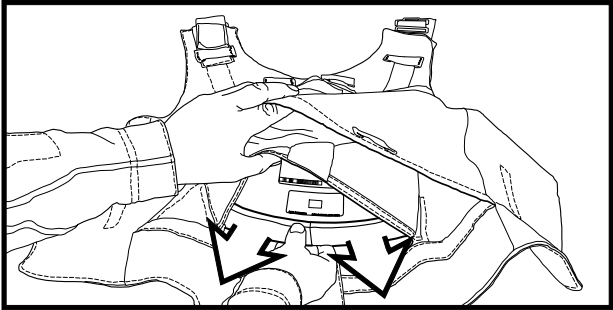
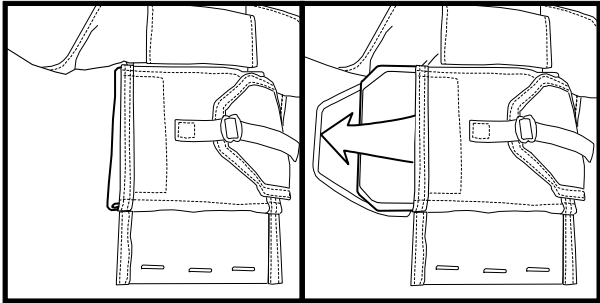
Table 1. Preventive Maintenance Checks and Services for IOTV and IOTV Gen II – Continued.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/AVAILABLE IF
			b. Clean your ESAPI/ESBI thoroughly before storing  c. Place the ESAPI/ESBI into the IOTV pockets in the same manner as when worn. This prevents loss of plates.	
			d. Store the IOTV system as flat as possible to avoid bunching of materials.	
			e. It is recommended that the system, when dry, be stored in a plastic bag to keep out dirt, dust and moisture	
10.	Monthly	IBA	<b>Soldier</b> Disassemble IOTV.  a. Remove SAPI/ESAPI plates from the front and back carriers, if installed (Figure 11).	

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**PMCS PROCEDURES – CONTINUED**

Table 1. Preventive Maintenance Checks and Services for IOTV and IOTV Gen II – Continued.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/AVAILABLE IF
	Monthly	IBA – Continued		
 <p style="text-align: center;">Figure 11. Removing ESAPI Plates.</p>				
			b. Remove ESBI plates from side carriers, if installed (Figure 12).	
 <p style="text-align: center;">Figure 12. Removing ESBI Plates.</p>				
			c. Remove the deltoid protectors, lower back protector and groin protector, if attached and remove ballistic inserts from each (Figure 13).	

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**PMCS PROCEDURES – CONTINUED**

Table 1. Preventive Maintenance Checks and Services for IOTV and IOTV Gen II – Continued.

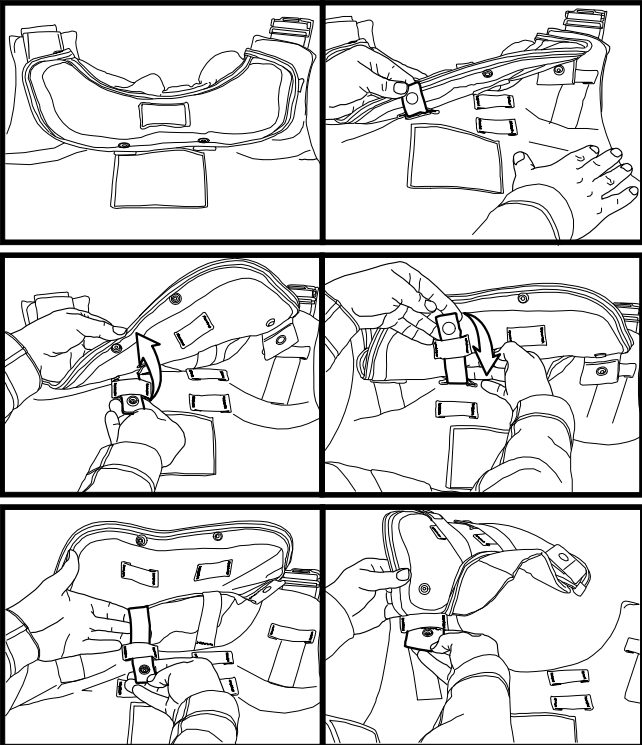
ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/AVAILABLE IF
	Monthly	IBA – Continued		
<div data-bbox="492 579 1131 1394" data-label="Image"> </div> <p style="text-align: center;">Figure 13. Removing Soft Ballistic Inserts.</p>				
			d. Remove yoke/collar from vest and remove yoke/collar ballistic inserts (Figure 14).	



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**PMCS PROCEDURES – CONTINUED**

Table 1. Preventive Maintenance Checks and Services for IOTV and IOTV Gen II – Continued.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/AVAILABLE IF
	Monthly	IBA – Continued		
 <p style="text-align: center;">Figure 14. Removing Yoke/Collar Assembly.</p>				
			e. Separate the front and back IOTV carriers by removing the cable release completely, and unsnapping and releasing the hook and loop fasteners on the left shoulder.	

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**PMCS PROCEDURES – CONTINUED**

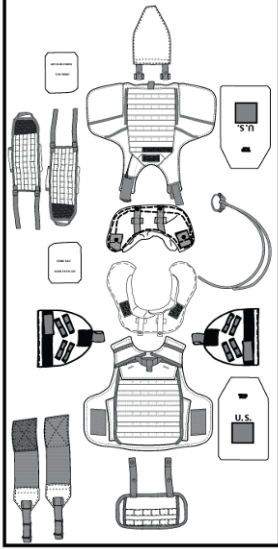
Table 1. Preventive Maintenance Checks and Services for IOTV and IOTV Gen II – Continued.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/AVAILABLE IF
	Monthly	IBA – Continued	f. Remove side plate carriers and internal elastic band.  g. Remove ballistic inserts from front and back carriers.	
11.	Monthly	IBA	<b>Soldier</b> Inventory the body armor.  a. Check the data label on each component to ensure each component is in the same size or size range (Figure 15 for IOTV, Figure 16 for IOTV Gen II).	Item sizes are mismatched.

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**PMCS PROCEDURES – CONTINUED**

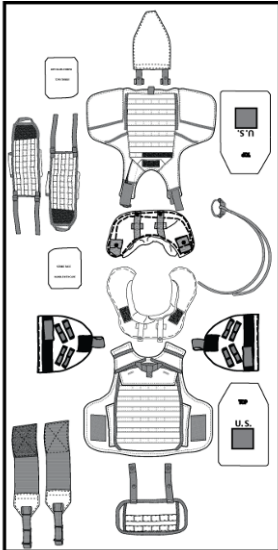
Table 1. Preventive Maintenance Checks and Services for IOTV and IOTV Gen II – Continued.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/AVAILABLE IF
	Monthly	IBA – Continued		
		<ul style="list-style-type: none"> <li>• Front Carrier <ul style="list-style-type: none"> <li>○ Front Ballistic Insert</li> </ul> </li> <li>• Back Carrier <ul style="list-style-type: none"> <li>○ Back Ballistic Insert</li> </ul> </li> <li>• Side Plate Carrier (Right &amp; Left)</li> <li>• Right &amp; Left Internal Elastic Band</li> <li>• Cable Release Assembly <ul style="list-style-type: none"> <li>○ Cable Stop</li> </ul> </li> <li>• Yoke/Collar Assembly</li> <li>• Lower Back Protector <ul style="list-style-type: none"> <li>○ Lower Back Protector Ballistic Insert</li> </ul> </li> <li>• Groin Protector <ul style="list-style-type: none"> <li>○ Groin Protector Ballistic Insert</li> </ul> </li> <li>• Deltoid Protector (x2) <ul style="list-style-type: none"> <li>○ Deltoid Protector Ballistic Insert (x2)</li> </ul> </li> <li>• ESAPI (x2)</li> <li>• ESBI (x2)</li> </ul>	 <p style="text-align: center;">Figure 15. IOTV Inventory.</p>	

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**PMCS PROCEDURES – CONTINUED**

Table 1. Preventive Maintenance Checks and Services for IOTV and IOTV Gen II – Continued.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/AVAILABLE IF
	Monthly	IBA – Continued		
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <ul style="list-style-type: none"> <li>• Front Carrier <ul style="list-style-type: none"> <li>○ Front Ballistic Insert</li> </ul> </li> <li>• Back Carrier <ul style="list-style-type: none"> <li>○ Back Ballistic Insert</li> </ul> </li> <li>• Universal Side Plate Carriers (x2) <ul style="list-style-type: none"> <li>○ Universal Side Plate Pockets(x2)</li> </ul> </li> <li>• Right &amp; Left Internal Elastic Band</li> <li>• Cable Release Assembly</li> <li>• Yoke/Collar Assembly</li> <li>• Lower Back Protector <ul style="list-style-type: none"> <li>○ Lower Back Protector Ballistic Insert</li> </ul> </li> <li>• Groin Protector <ul style="list-style-type: none"> <li>○ Groin Protector Ballistic Insert</li> </ul> </li> <li>• Deltoid Protector (x2) <ul style="list-style-type: none"> <li>○ Deltoid Protector Ballistic Insert (x2)</li> </ul> </li> <li>• ESAPI (x2)</li> <li>• ESBI (x2)</li> </ul> </div> <div style="width: 45%; text-align: center;">  </div> </div> <p style="text-align: center;">Figure 16. IOTV Gen II Inventory.</p>				
12.	Monthly	IBA Cloth Items	<b>Soldier</b> Inspect each cloth item for tears, punctures or abrasions.	Any tears, punctures or abrasions.
13.	Monthly	Soft Ballistic Inserts	<b>Soldier</b> Inspect soft ballistic inserts for any tear, puncture, abrasion or heavy discoloration.	Any damage or heavy discoloration.
14.	Monthly	IBA	<b>Soldier</b> Inspect each item for heavy staining.	

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**PMCS PROCEDURES – CONTINUED**

Table 1. Preventive Maintenance Checks and Services for IOTV and IOTV Gen II – Continued.


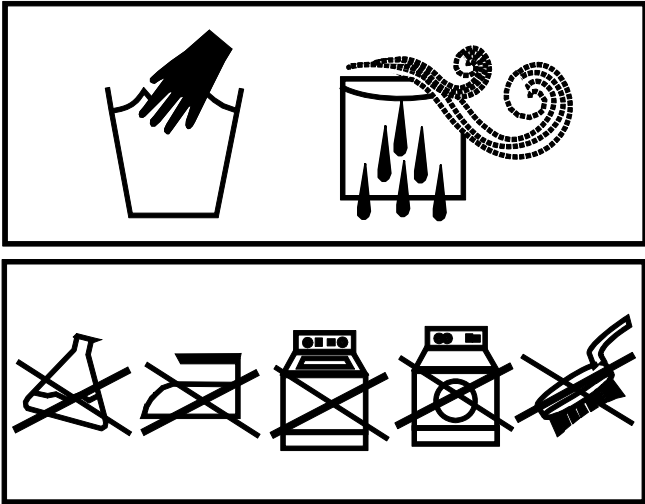
ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/AVAILABLE IF
	Monthly	IBA – Continued	<p>a. Apply foaming cleanser (issued with IOTV) to stain and scrub using applicator head (Figure 17). If foaming cleanser is not available, use a mixture of mild detergent and water and scrub with a soft bristle brush.</p> <p>b. Wait 1 minute and wipe excess foam away with a cloth.</p>	
				

Figure 17. Cleaning IOTV.

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**PMCS PROCEDURES – CONTINUED**

Table 1. Preventive Maintenance Checks and Services for IOTV and IOTV Gen II – Continued.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/AVAILABLE IF
	Monthly	IBA – Continued		
 <p style="text-align: center;">Figure 18. Cleaning Restrictions.</p>				
		<p style="text-align: center;"><b>WARNING</b></p> <p style="text-align: center;"><b>WASHING IOTV COMPONENTS IN HOT WATER WILL DAMAGE THE FABRIC. WASH IOTV COMPONENTS IN COLD WATER ONLY.</b></p>		
15.	Monthly	Soft Ballistic Inserts	<p><b>Soldier</b></p> <p>Wash all components, except ESAPI/ESBI, soft ballistic inserts and cable assembly (Figure 18).</p> <p>a. Remove dirt from outer surface using a cloth or soft bristle brush.</p>	

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**PMCS PROCEDURES – CONTINUED**

Table 1. Preventive Maintenance Checks and Services for IOTV and IOTV Gen II – Continued.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/AVAILABLE IF
	Monthly	Soft Ballistic Inserts – Continued	b. Hand wash IOTV outer-shell and component carrier covers only in cold or warm water, with mild detergent or soap.  c. Air dry all components away from direct heat or sun.	
16.	Monthly	ESAPI/ESBI	<b>Soldier</b> Clean ESAPI/ESBI plates.  a. Remove loose dirt and lint from the outer surface of the ESAPI/ESBI using a cloth or soft bristle brush. Never use a stiff bristle brush.  b. Wet the ESAPI/ESBI in a sink or shower using warm, not hot, water.  c. Apply a mild soap or detergent to the soiled areas and scrub with a cloth or soft bristle brush. Scrub only long enough to remove soil.  d. Heavy grease/oil stains may be pre-spotted with a detergent mixture and scrubbed with a soft brush.  e. Rinse the ESAPI/ESBI with warm water until all suds are completely gone.	

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**PMCS PROCEDURES – CONTINUED**

Table 1. Preventive Maintenance Checks and Services for IOTV and IOTV Gen II – Continued.

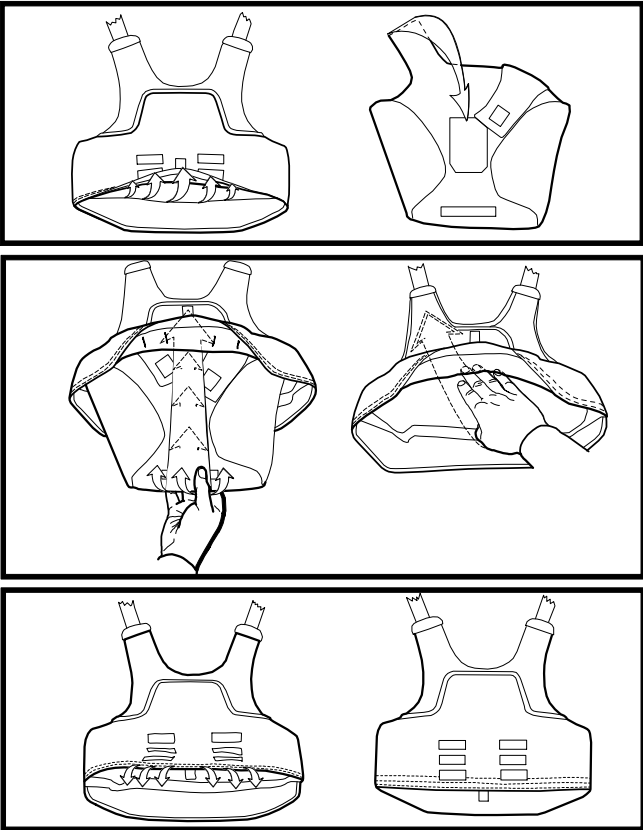
ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/AVAILABLE IF
	Monthly	ESAPI/ESBI – Continued	f. Let the plate dry by itself, away from heat or open flame.	
17.	Monthly	Soft Ballistic Inserts	<b>Soldier</b> Clean soft ballistic inserts, and cable assembly with a damp cloth.	
18.	Monthly	IBA	<b>Soldier</b> Install soft ballistic inserts in carrier (front, back, lower back protector, groin protector, yoke/collar, and deltoid protector).  a. Lay the carrier on a flat surface with inner side (or side with label) facing up (Figure 19).  b. Separate hook and loop seam and install soft ballistic insert with the label side facing up.  c. Position insert, aligning the hook and loop tapes and ensuring the carrier material is smooth and flat after the installation.  d. Re-seal seam of the insert pocket.	Seam does not re-seal.



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**PMCS PROCEDURES – CONTINUED**

Table 1. Preventive Maintenance Checks and Services for IOTV and IOTV Gen II – Continued.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/AVAILABLE IF
	Monthly	IBA – Continued		
 <p>Figure 19. Installing Soft Ballistic Inserts.</p>				

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**PMCS PROCEDURES – CONTINUED**

Table 1. Preventive Maintenance Checks and Services for IOTV and IOTV Gen II – Continued.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/AVAILABLE IF
19.	Monthly	Cable Release Assembly	<p><b>Soldier</b></p> <p>Install cable release assembly.</p> <p><b>a. (IOTV ONLY)</b> Route the cables through the grommets on the cable stop. It does not matter which cable goes through which grommet.</p> <p><b>b.</b> Insert the cable through the cable release handle pocket and route through the right shoulder (Figure 20).</p> <p style="text-align: center;"><b>NOTE</b></p> <p>On the IOTV Gen II, the cable release routing channel is sewn as one piece throughout the front carrier. The second step in Figure 19 is only required for the IOTV.)</p> <p><b>c. (IOTV ONLY)</b> Continue to route cable through the release cable webbing channel on the right shoulder of the front carrier (Figure 20).</p> <p><b>d.</b> Stow the cable-release handle in the cable release handle pocket and secure with the hook and loop patches inside the pocket.</p>	

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**PMCS PROCEDURES – CONTINUED**

Table 1. Preventive Maintenance Checks and Services for IOTV and IOTV Gen II – Continued.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/AVAILABLE IF
	Monthly	Cable Release Assembly – Continued	e. Adjust right shoulder buckle so that the reducer buckle is even with the cable webbing channel.	

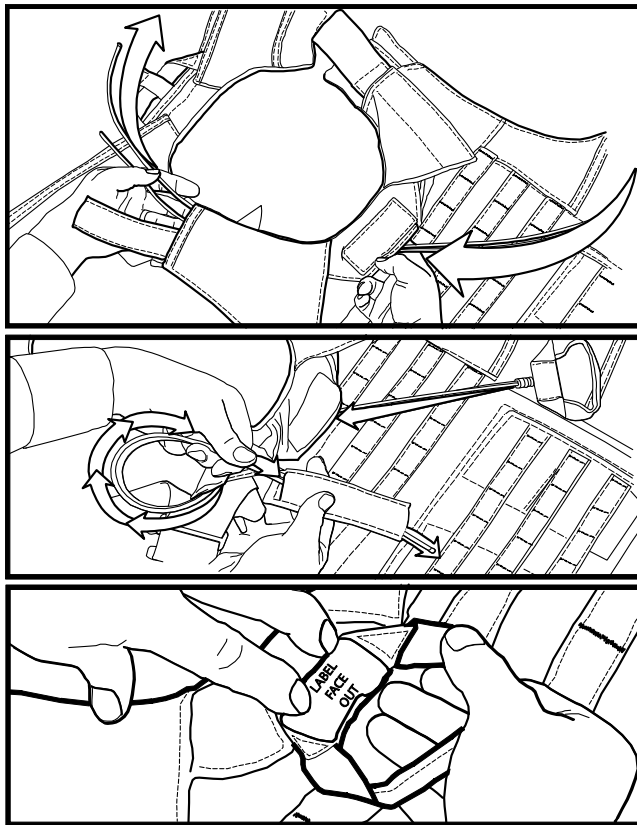


Figure 20. Installing Cable Release on Front Carrier.

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**PMCS PROCEDURES – CONTINUED**


Table 1. Preventive Maintenance Checks and Services for IOTV and IOTV Gen II – Continued.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/AVAILABLE IF
20.	Monthly	Vest	<p><b>Soldier</b></p> <p>Assemble the front and back carriers.</p> <p>a. Lay both back and front carriers on a flat surface with like shoulder together (right to right, left to left) (Figure 21).</p> <p>b. Route the left shoulder of the front carrier into the left shoulder of the back carrier. Repeat for right side.</p> <p>c. Open the upper access panel on the back carrier. The buckle from the front carrier shoulder straps should now be in the back carrier.</p> <p>d. Route both lengths of the cable release through the opening at the top of the upper access panel.</p>	

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**PMCS PROCEDURES – CONTINUED**

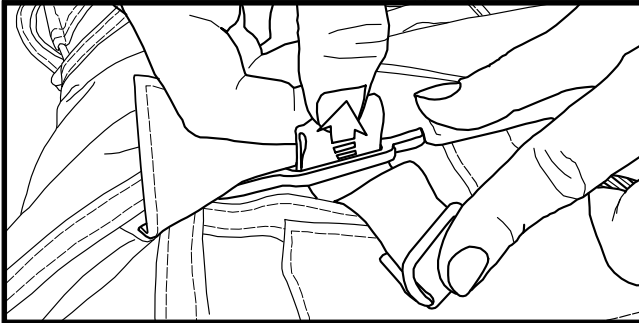
Table 1. Preventive Maintenance Checks and Services for IOTV and IOTV Gen II – Continued.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/AVAILABLE IF
	Monthly	Vest – Continued		
 <p style="text-align: center;">Figure 21. Connecting Front and Back Carriers.</p>				
			e. For both shoulders, insert strap loops into the front carrier shoulder buckles (Figure 22).	

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**PMCS PROCEDURES – CONTINUED**

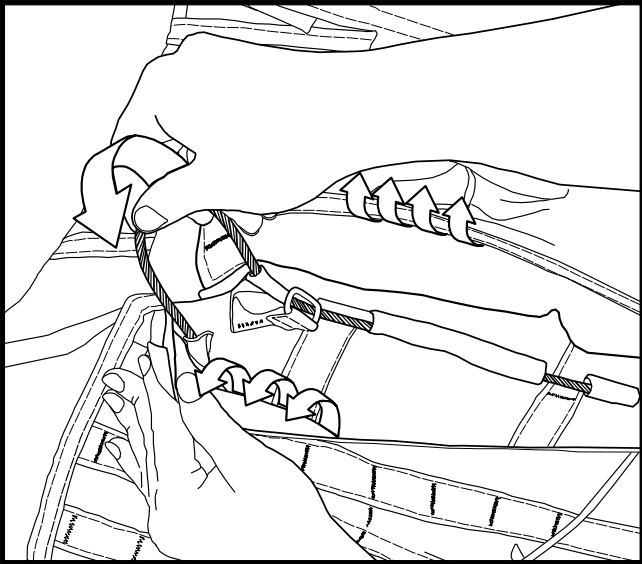
Table 1. Preventive Maintenance Checks and Services for IOTV and IOTV Gen II – Continued.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/AVAILABLE IF
	Monthly	Vest – Continued		
 <p>Figure 22. Routing Strap Loops into Front Carrier Shoulder Buckles.</p>				
			<p>f. Route the short cable release through the portion of the right hand webbing loop that sticks out of the buckle (Figure 23).</p> <p>g. Continue routing the release cable through the center cable routing channel and through the left hand webbing loop that sticks out of the buckle.</p> <p>h. Secure upper access panel at hook and loop seam.</p>	

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**PMCS PROCEDURES – CONTINUED**

Table 1. Preventive Maintenance Checks and Services for IOTV and IOTV Gen II – Continued.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/AVAILABLE IF
	Monthly	Vest – Continued		
 <p style="text-align: center;">Figure 23. Routing Cable Release (Upper Panel).</p>				
21.	Monthly	Internal Elastic Bands	<p><b>Soldier</b></p> <p>Install the internal elastic bands and side plate carriers (Figure 24).</p> <ol style="list-style-type: none"> <li>Lay back carrier flat with label side facing down.</li> <li>Route the 1-inch strap of the right internal elastic band through the webbing loop and wing channel on the right side of the carrier. Repeat for left side.</li> </ol>	

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**PMCS PROCEDURES – CONTINUED**

Table 1. Preventive Maintenance Checks and Services for IOTV and IOTV Gen II – Continued.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/AVAILABLE IF
	Monthly	Internal Elastic Bands – Continued	<p>c. Ensure the internal elastic bands are flat and the labels are facing down (toward the carrier). Route the free end of the 1-inch webbing on the right internal elastic band through the metal ring on the center webbing loop.</p> <p>d. Route the end of the webbing back through the buckle leaving at least 2 inches of excess.</p> <p>e. Route the right side plate carrier through the right wing channel, positioning the metal rings near the webbing loops. The label should be facing the carrier. Repeat for the left side.</p> <p>f. Starting at the top center webbing loop, place the metal ring on the left side plate carrier over the top center webbing. Place the metal ring from the right side plate carrier over the center webbing.</p> <p>g. Place the metal ring from the left internal elastic band over the middle webbing loop.</p>	



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**PMCS PROCEDURES – CONTINUED**

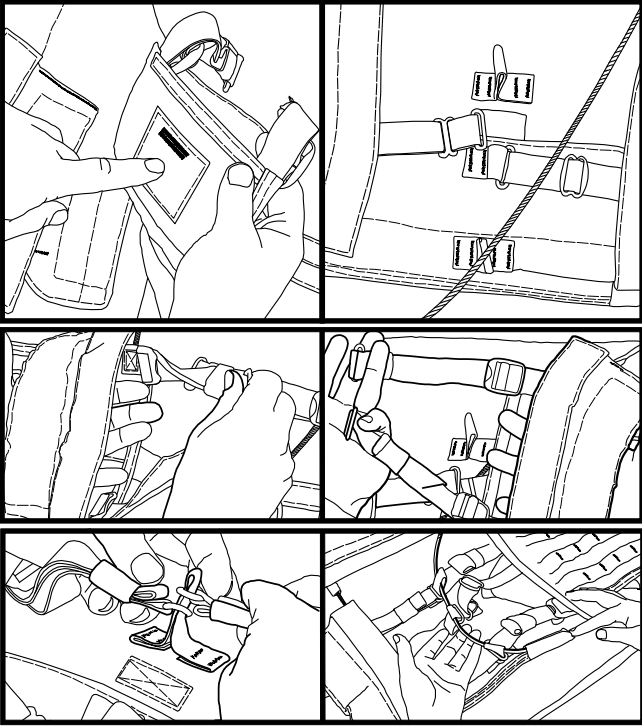
Table 1. Preventive Maintenance Checks and Services for IOTV and IOTV Gen II – Continued.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/AVAILABLE IF
	Monthly	Internal Elastic Bands – Continued	<ul style="list-style-type: none"> <li>h. Place the metal ring from the left side plate carrier over the bottom center webbing. Place the metal ring from the right side plate carrier over the bottom center webbing.</li> <li>i. Route the cable release through the center webbing loops from top to bottom.</li> <li>j. Place end of release cable in the retention pocket.</li> <li>k. Gather any loose straps and secure using elastic keepers.</li> <li>l. Close back pocket and tuck the bottom of back flap up into the back flap pocket.</li> </ul>	

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**PMCS PROCEDURES – CONTINUED**

Table 1. Preventive Maintenance Checks and Services for IOTV and IOTV Gen II – Continued.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/AVAILABLE IF
	Monthly	Internal Elastic Bands – Continued		
				
Figure 24. IOTV Cable Routing, Lower Panel.				
22.	Monthly	Yoke/Collar Assembly	<b>Soldier</b> Attach yoke/collar assembly (Figure 25). a. Lay IOTV on a flat surface with the inside surface facing up.	

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**PMCS PROCEDURES – CONTINUED**

Table 1. Preventive Maintenance Checks and Services for IOTV and IOTV Gen II – Continued.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/AVAILABLE IF
	Monthly	Yoke/Collar Assembly – Continued	<ul style="list-style-type: none"> <li>b. Position the yoke back collar on the back carrier with label facing up.</li> <li>c. Attach back collar assembly to back carrier using standard MOLLE weave at both attachment points.</li> <li>d. Mate hook and loop fasteners to complete attachment.</li> <li>e. Position the front yoke on the front carrier with label facing up.</li> <li>f. Route side straps on collar through mating loops on carrier and snap.</li> <li>g. Use standard MOLLE weave to attach remaining straps to carrier.</li> </ul>	

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**PMCS PROCEDURES – CONTINUED**

Table 1. Preventive Maintenance Checks and Services for IOTV and IOTV Gen II – Continued.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/AVAILABLE IF
	Monthly	Yoke/Collar Assembly – Continued		

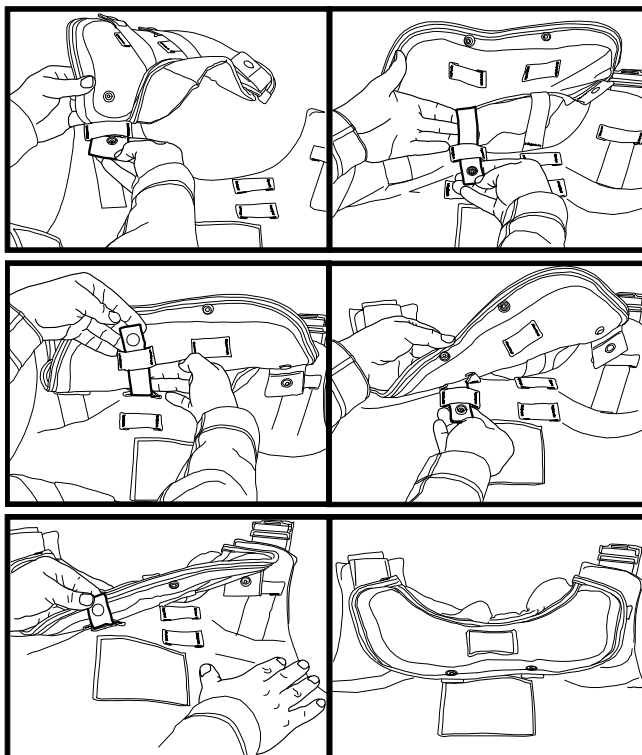


Figure 25. Attaching Yoke/Collar Assembly.

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**PMCS PROCEDURES – CONTINUED**

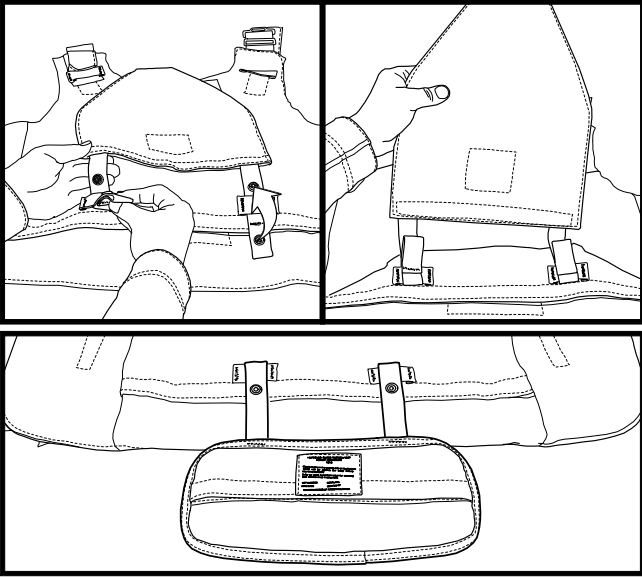
Table 1. Preventive Maintenance Checks and Services for IOTV and IOTV Gen II – Continued.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/AVAILABLE IF
23.	Monthly	Groin and Lower Back Protectors	<p><b>Soldier</b></p> <p>Install groin protector and lower back protector (as required) (Figure 26).</p> <ol style="list-style-type: none"> <li>Lay carriers on flat surface with interior facing up.</li> <li>Lay groin protector near bottom of front carrier with label facing up.</li> <li>Route straps on groin protector through loops and snap.</li> <li>Lay the lower back protector near the bottom of the back carrier with label facing up.</li> <li>Route straps on lower back protector through loops and snap.</li> </ol>	

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**PMCS PROCEDURES – CONTINUED**

Table 1. Preventive Maintenance Checks and Services for IOTV and IOTV Gen II – Continued.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/AVAILABLE IF
	Monthly	Groin and Lower Back Protectors		
 <p style="text-align: center;">Figure 26. Attaching Groin and Lower Back Protectors.</p>				
24.	Monthly	Deltoid Protector	<p><b>Soldier</b></p> <p>Install deltoid protector (as required) (Figure 27).</p> <p>a. Route the nylon webbing at the top of the deltoid protector over the top of the shoulder channels of the IOTV/IOTV Gen II vest.</p>	

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**PMCS PROCEDURES – CONTINUED**

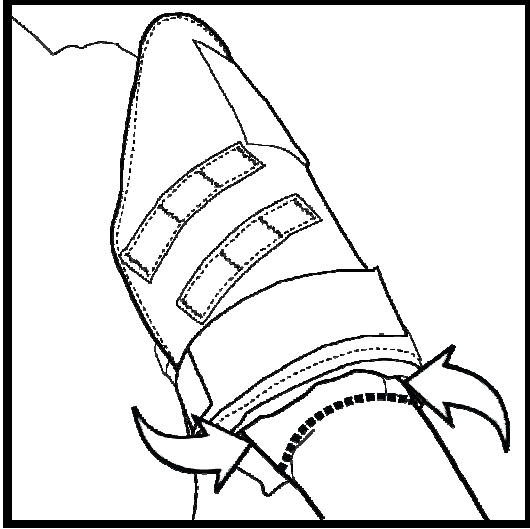
Table 1. Preventive Maintenance Checks and Services for IOTV and IOTV Gen II – Continued.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/AVAILABLE IF
	Monthly	Deltoid Protector – Continued	<p>b. Continue to route the webbing back underneath the shoulder channels but above the yoke/collar assembly (if installed).</p> <p>c. Secure with hook and loop fasteners and repeat for other side.</p> <p>d. Don vest. Deltoid protectors should be as high as possible without interfering with motion. Deltoid protectors should be centered on the arm.</p> <p>e. Route bicep webbing through straps and snap. Deltoid protector should be above the crease of the elbow.</p>	

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**PMCS PROCEDURES – CONTINUED**

Table 1. Preventive Maintenance Checks and Services for IOTV and IOTV Gen II – Continued.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/AVAILABLE IF
	Monthly	Deltoid Protector – Continued		
 <p style="text-align: center;">Figure 27. Installing Deltoid Protectors.</p>				
25.	Monthly	ESAPI	<p><b>Soldier</b></p> <p>Install ESAPI plates (as required) (Figure 28).</p> <ol style="list-style-type: none"> <li>Lay carriers on a flap surface with interior facing up.</li> <li>Separate seam to open insert pocket and lift soft armor insert by pulling strap.</li> <li>Insert ballistic plate so that it curves up (label faces up).</li> </ol>	



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**PMCS PROCEDURES – CONTINUED**

Table 1. Preventive Maintenance Checks and Services for IOTV and IOTV Gen II – Continued.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/AVAILABLE IF
	Monthly	ESAPI – Continued	d. Secure ballistic plate in pocket by attaching the strap to surface of pocket exterior. e. Re-seal seam of the insert pocket. f. Repeat for other plate.	

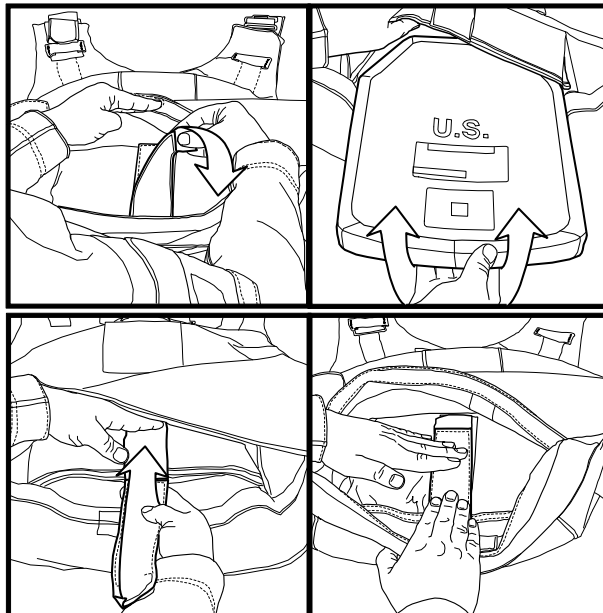


Figure 28. Inserting ESAPI Plates.

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**PMCS PROCEDURES – CONTINUED**

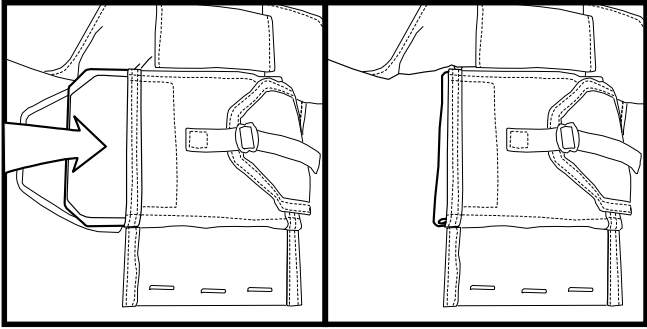
Table 1. Preventive Maintenance Checks and Services for IOTV and IOTV Gen II – Continued.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/AVAILABLE IF
26.	Monthly	ESBI	<p><b>Soldier</b></p> <p>Install ESBI plates (as required) (Figure 29).</p> <p>a. Lay back carrier on flap surface with the interior facing up and side plate carriers folded out, exposing the side plate pockets.</p> <p>b. Unfasten hook and loop fasteners on top flap of side plate pocket and pull out flap.</p> <p>c. Insert the side ballistic plate.</p> <p>d. Fold flap back into pocket and reattach the hook and loop fastener tape.</p> <p>e. If using X-Small ESAPI plates, insert into unbuckled bottom flap and into top flap. Buckle bottom flap closed, ensuring the nylon webbing is routed back through the buckle (from bottom to top).</p>	

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**PMCS PROCEDURES – CONTINUED**

Table 1. Preventive Maintenance Checks and Services for IOTV and IOTV Gen II – Continued.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/AVAILABLE IF
	Monthly	ESBI – Continued		
 <p style="text-align: center;">Figure 29. Inserting ESBI Plates.</p>				
27.	Monthly	IBA	<p><b>Soldier</b></p> <p>Adjust IOTV size (Figure 30).</p> <ol style="list-style-type: none"> <li>Don IOTV.</li> <li>When securing the internal elastic bands, ensure the hook and loop fastener tapes are matched and square.</li> <li>When securing the side plate carriers to the front carrier, ensure the side plate carriers are squared on the hook and loop fastener tape. The hook and loop fastener tape should match as closely as possible.</li> <li>Have an assistant open the lower access panel on the back carrier.</li> </ol>	

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PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS)**

**PMCS PROCEDURES – CONTINUED**


Table 1. Preventive Maintenance Checks and Services for IOTV and IOTV Gen II – Continued.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/AVAILABLE IF
	Monthly	IBA – Continued	<p>e. The assistant should tighten straps until the vest fits firmly and comfortably on the body. Ensure all straps are adjusted evenly. Start with the internal elastic bands and then adjust the side plate carriers.</p> <p>f. Secure excess webbing in webbing keepers.</p> <p>g. When completed, close the lower access panel and tuck the bottom up into the back flap pocket.</p>	

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**PMCS PROCEDURES – CONTINUED**

Table 1. Preventive Maintenance Checks and Services for IOTV and IOTV Gen II – Continued.

ITEM NO.	INTERVAL	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/AVAILABLE IF
	Monthly	IBA – Continued		
 <p style="text-align: center;">Figure 30. Adjusting Size.</p>				

**END OF TASK**

**OPERATOR MAINTENANCE**  
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**PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS)**

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**MANDATORY REPLACEMENT PARTS**

There are not mandatory replacement parts for the IOTV or IOTV Gen II.

**END OF TASK**

**END OF WORK PACKAGE**

**CHAPTER 4**

**MAINTENANCE INSTRUCTIONS**  
**FOR**  
**IMPROVED OUTER TACTICAL VEST (IOTV)**  
**AND**  
**IMPROVED OUTER TACTICAL VEST GEN II (IOTV GEN II)**





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**OPERATOR MAINTENANCE  
IMPROVED OUTER TACTICAL VEST  
IMPROVED OUTER TACTICAL VEST GEN II  
PREPARATION FOR SHIPMENT AND STORAGE**

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**INITIAL SETUP****N/A**

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**General Storage Requirements**

Administrative storage will be in accordance with the following:

1. Clean all items and ensure they are dry before IBA is placed in storage. Store each individual IBA in a plastic bag to keep out dirt, dust and moisture. Placement of clothing items in administrative storage should be for short periods of time. Ensure all items are protected from pilferage, dampness, fire, dirt, and rodents.
2. Insert the ESAPI/ESBI into the IBA pockets in the same manner as when worn. This prevents loss of components. Store the IBA system as flat as possible to avoid bunching of materials.
3. Items should be in mission readiness within 24 hours or within the time factors as determined by the directing authority.
4. During the storage period, appropriate maintenance records will be kept. Before placing equipment in administrative storage, current maintenance services and equipment serviceable criteria evaluations should be completed, shortcomings and deficiencies should be corrected, and all modification work orders should be applied.
5. Inside storage is preferred for items selected for administrative storage. If inside storage is not available, trucks, vans, CONEX containers and other containers may be used.

**In-Storage Inspection**

1. Check that no damage or deterioration has occurred.
2. Check the adequacy of the storage facilities, efforts taken to control pests and rodents, and protection against unfavorable climatic conditions and other elements that might cause damage to clothing items.

**Shipment Requirements**

Ensure all items are protected from pilferage, dampness, fire, dirt, and rodents.

**END OF WORK PACKAGE**



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**OPERATOR MAINTENANCE**  
**IMPROVED OUTER TACTICAL VEST**  
**IMPROVED OUTER TACTICAL VEST GEN II**  
**SERVICE – CLEANING AND DRYING**

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**INITIAL SETUP****References:**

WP 0015

**Materials/parts:**

Cleaning Foam System, Outer Vest (WP 0015, Item 1)

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**GENERAL CLEANING INSTRUCTIONS****WARNING**

Failure to follow all cleaning instructions could deteriorate damage or destroy the IBA, rendering it useless against ballistic threats.

To maintain your IBA so that it provides you with the maximum protection intended, it is extremely important to follow proper cleaning procedures. Do not bleach, machine wash, dry clean, or apply solvents, cleaning fluids, or yellow soap to any part of the IBA. They will discolor and/or deteriorate the IBA. Do not attempt to dye item or fix discolorations.

**IBA Vest and Components****WARNING**

Do not machine wash or dry. Failure to follow these instructions may render your IBA useless against ballistic threats.

**CAUTION**

Do not use a stiff brush to clean any part of your IBA as this will damage the material.

1. Remove loose dirt and lint from the outer shell using a cloth or soft bristle brush. Never use a stiff bristle brush.
2. Remove all soft ballistic inserts and the ESAPI/ESBI from the outer shell and component carriers

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**OPERATOR MAINTENANCE**  
**IMPROVED OUTER TACTICAL VEST**  
**IMPROVED OUTER TACTICAL VEST GEN II**  
**SERVICE – CLEANING AND DRYING**

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**GENERAL CLEANING INSTRUCTIONS – CONTINUED**

**CAUTION**

Never use bleach, yellow soap, cleaning fluids or solvents to clean the outer shell as this will stain and damage the material.

3. Hand-wash the outer shell and component carrier covers in cold or warm water, with mild detergent or soap.
4. Badly soiled areas may be scrubbed. Scrub only long enough to remove soil.
5. Grease and oil stains may be pre-spotted with a mild detergent and water mixture, and scrubbed with a soft brush. If stubborn stain persists, repeat the procedure.
6. Rinse the outer shell and covers thoroughly in clean, warm water until suds are completely gone.
7. Air-dry indoors or in shade, away from heat sources and direct sunlight.

**END OF TASK**

**Soft Ballistic Inserts**

**WARNING**

Do not machine wash or dry the soft ballistic inserts. Failure to follow these instructions may render the IBA useless against ballistic threats.

**CAUTION**

Do not intentionally submerge soft inserts in any liquid, including water.  
Do not use a stiff brush to clean any part of your IBA as this will damage the material.

Cleaning of the soft ballistics inserts is limited to removing loose dirt from the surface with a cloth or soft brush. If ballistic inserts become wet, allow to air dry in a flat position away from heat sources and direct sunlight. If ballistic insert becomes saturated with liquids such as gasoline, bleach or other lubricants, turn in for replacement as soon as possible.

**END OF TASK**

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**OPERATOR MAINTENANCE**  
**IMPROVED OUTER TACTICAL VEST**  
**IMPROVED OUTER TACTICAL VEST GEN II**  
**SERVICE – CLEANING AND DRYING**

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**ESAPI/ESBI****WARNING**

Do not machine wash or dry the ESAPI/ESBI inserts. Failure to follow these instructions may degrade the ESAPI/ESBI ballistic protection.

**CAUTION**

Do not submerge ESAPI/ESBI inserts in any liquid, including water.

Do not use a stiff brush to clean any part of your IBA as this will damage the material.

1. Remove loose dirt and lint from the outer surface of the ESAPI/ESBI using a cloth or soft bristle brush. Never use a stiff bristle brush.
2. Wet the ESAPI/ESBI in a sink or shower using warm, not hot, water.
3. Apply a mild soap or detergent to the soiled areas and scrub with a cloth or soft bristle brush.
4. Badly soiled areas may be scrubbed with mild soap or detergent.
5. Scrub only long enough to remove soil.
6. Rinse the ESAPI/ESBI with warm water until all suds are completely gone.
7. Let the insert dry by itself, away from heat or open flame.

**END OF TASK****END OF WORK PACKAGE**



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**OPERATOR MAINTENANCE  
IMPROVED OUTER TACTICAL VEST  
IMPROVED OUTER TACTICAL VEST GEN II  
ESAPI/ESBI INSERTS  
INSPECT, REPAIR**

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**INITIAL SETUP****References:**

WP 0015

**Materials/parts:**

Tape, Pressure Sensitive Adhesive (WP 0015, Item 5)

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**INSPECT****WARNING**

Service members must ensure they have the correct protective inserts. The ESAPI and ESBI have green covers and provide a higher level of protection than the Small Arms Protective Insert (SAPI) which has a black cover. ESAPI should be worn by all personnel in-theater. If a service member has the older black SAPI plates, they should be turned in and replaced with green ESAPI plates. Failure to ensure the correct plate while conducting combat operations may result in injury or death.

**Pre-combat Inspection**

The soldier must inspect the insert before each mission. The ESAPI/ESBI insert must be turned in if any of the following conditions are present:

- Outer Cover is damaged exposing the ceramic tile material.
- Plate is cracked and you hear loose pieces rattling around when shaken.
- Creaking or squeaking of ceramic tile heard when plate twisted by hand.
- Composite backing is delaminating (backing material plies are separating).
- Cracking of the ceramic tile is felt or heard as you firmly pinch the outer ½-inch perimeter of the plate.
- Plate has been hit by a bullet or fragment.

**END OF TASK**

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**OPERATOR MAINTENANCE  
IMPROVED OUTER TACTICAL VEST  
IMPROVED OUTER TACTICAL VEST GEN II  
ESAPI/ESBI INSERTS  
INSPECT, REPAIR**

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**REPAIR**

**NOTE**

Cloth backed adhesive tape is often referred to as duct tape, rigger's tape or 100 mile-per-hour tape.

Interim repairs of the ESAPI/ESBI outer cover can be made using cloth backed adhesive tape until it can be exchanged. This repair does help to prevent the spread of existing delamination. It is not meant as a permanent fix.

**END OF TASK**

**END OF WORK PACKAGE**



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**OPERATOR MAINTENANCE**  
**IMPROVED OUTER TACTICAL VEST**  
**IMPROVED OUTER TACTICAL VEST GEN II**  
**FABRIC REPAIR**

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**INITIAL SETUP****References:**

WP 0015

**Materials/parts:**

Kit, Sewing (WP 0015, Item 2)

Tape, Pressure Sensitive Adhesive (WP 0015, Item 5)

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**REPAIR****WARNING**

Fabric repair in this work package does not apply to the fabric on the soft ballistic inserts. Any damage to the soft ballistic inserts is cause for turn-in. Failure to follow these instructions could result in degraded ballistic protection.

This work package provides instructions for repairing the fabric of the IBA.

**Outer Shell**

1. To mend a ripped seam, overlap the two-edge and sew with straight and small stitches.



Figure 1. Straight Stitch.

2. To repair a tear, place the two edges together on the inside, and sew together.



Figure 2. Edge Sew.

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**OPERATOR MAINTENANCE**  
**IMPROVED OUTER TACTICAL VEST**  
**IMPROVED OUTER TACTICAL VEST GEN II**  
**FABRIC REPAIR**

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**REPAIR – CONTINUED**

3. To mend a frayed edge, turn the frayed edge under and sew.



Figure 3. Turn Edge Under and Sew.

**NOTE**

Cloth backed adhesive tape is often referred to as duct tape, riggers' tape or 100 mile-per-hour tape.

4. Interim repairs can be made with cloth backed adhesive tape to prevent tears or holes in the carrier from expanding until the vest can be exchanged. The tape can be used to keep the vest closed, hold the ballistic panels in place, or repair any hook and pile that has been damaged.

**END OF TASK****END OF WORK PACKAGE**

**CHAPTER 5**

**SUPPORTING INFORMATION**  
**FOR**  
**IMPROVED OUTER TACTICAL VEST (IOTV)**  
**AND**  
**IMPROVED OUTER TACTICAL VEST (IOTV GEN II)**



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**OPERATOR MAINTENANCE**  
**IMPROVED OUTER TACTICAL VEST**  
**IMPROVED OUTER TACTICAL VEST GEN II**  
**REFERENCES**

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**SCOPE**

This work package lists related field manuals, forms, technical manuals, and miscellaneous publications.

**MISCELLANEOUS PUBS/FORMS**

AR 700-138	Army Logistics Readiness and Sustainability
CTA 50-970	Expendable/Durable Items (Except Medical, Class V Repair Parts, and Heraldic Items)
CTA 50-909	Field and Garrison Furnishings and Equipments
CTA 8-100	Army Medical Department Expendable/Durable Items
DA Form 2028	Recommended Changes to Publications and Blank Forms
DA PAM 750-8	The Army Maintenance Management System (TAMMS) Users Manual
FM 3-11.2	Multiservice Tactics, Techniques, and Procedures for Chemical, Biological, and Nuclear Contamination Avoidance
FM 4-25.11	First Aid Information
SF 368	Product Quality Deficiency Report

**END OF WORK PACKAGE**



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**OPERATOR MAINTENANCE**  
**IMPROVED OUTER TACTICAL VEST**  
**IMPROVED OUTER TACTICAL VEST GEN II**  
**COMPONENTS OF END ITEM (COEI) AND BASIC ISSUE ITEM (BII) LISTS**

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**COMPONENTS OF END ITEM (COEI) AND BASIC ISSUE ITEM (BII) LISTS**  
**INTRODUCTION**

**SCOPE**

This work package lists COEI and BII for the Improved Outer Tactical Vest (IOTV) and Improved Outer Tactical Vest Gen II (IOTV Gen II) 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 IBA. 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). These essential items are required to place the IBA in operation, operate it and to do emergency repairs. Although shipped separately packaged, BII must be with the IBA during operation and when it is transferred between property accounts. Listing these items is your authority to request/requisition them for replacement based on authorization of the end item by the TOE/MTOE. Illustrations are furnished to help you find and identify the items.

**EXPLANATION OF COLUMNS IN THE COEI LIST AND BII LIST**

Column (1) Item Number. Gives you the number of the item listed.

Column (2) National Stock Number (NSN) and illustration. Identifies the stock number of the item to be used for requisitioning purposes and provides an illustration of the item.

Column (3) Description, Part Number/(CAGEC). 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 part number and the Commercial and Government Entity Code (CAGEC) (in parentheses).

Column (4) Usable On Code. When applicable, gives you a code if the item you need is not the same for different models of equipment.

**OPERATOR MAINTENANCE**  
**IMPROVED OUTER TACTICAL VEST**  
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**COMPONENTS OF END ITEM (COEI) AND BASIC ISSUE ITEM (BII) LISTS**


**EXPLANATION OF COLUMNS IN THE COEI LIST AND BII LIST – CONTINUED**

Column (5) U/I. Unit of Issue (U/I). Indicates the physical measurement or count of the item as issued per the National Stock Number shown in column (2).

Column (6) Qty Rqr. Indicates the quantity required.

**COMPONENTS OF END ITEMS LIST**

**Table 1. Components Of End Item (COEI) List – IOTV.**


(1) Item Num ber	(2) National Stock Number (NSN) and Illustration	(3) Description, Part Number/(CAGEC)	(4) Usable On Code	(5) U/I	(6) Qty Rqr
1	8470-01-551-7698 	CARRIER, VEST (FRONT) (XS), 1500-XS/(3T951)		EA	1
	8470-01-551-7701	CARRIER, VEST (FRONT) (S), 1500-S/(3T951)		EA	1
	8470-01-551-7703	CARRIER, VEST (FRONT) (M), 1500-M/(3T951)		EA	1
	8470-01-551-7705	CARRIER, VEST (FRONT) (ML), 1500-ML/(3T951)		EA	1
	8470-01-551-7706	CARRIER, VEST (FRONT) (L), 1500-L/(3T951)		EA	1
	8470-01-551-7707	CARRIER, VEST (FRONT) (LL), 1500-LL/(3T951)		EA	1
	8470-01-551-7708	CARRIER, VEST (FRONT) (XL), 1500-XL/(3T951)		EA	1
	8470-01-551-7711	CARRIER, VEST (FRONT) (XLL), 1500-XLL/(3T951)		EA	1
	8470-01-551-7712	CARRIER, VEST (FRONT) (2XL), 1500-2XL/(3T951)		EA	1



**OPERATOR MAINTENANCE**  
**IMPROVED OUTER TACTICAL VEST**  
**IMPROVED OUTER TACTICAL VEST GEN II**  
**COMPONENTS OF END ITEM (COEI) AND BASIC ISSUE ITEM (BII) LISTS**

**COMPONENTS OF END ITEMS LIST – CONTINUED**


**Table 1. Components Of End Item (COEI) List – IOTV – Continued.**

(1) Item Num ber	(2) National Stock Number (NSN) and Illustration	(3) Description, Part Number/(CAGEC)	(4) Usable On Code	(5) U/I	(6) Qty Rqr
2	8470-01-551-7713	CARRIER, VEST (FRONT) (3XL), 1500-3XL/(3T951)		EA	1
	8470-01-551-7714	CARRIER, VEST (FRONT) (4XL), 1500-4XL/(3T951)		EA	1
	8470-01-551-8039	INSERT, BALLISTIC (FRONT) (XS), 1502-XS/(3T951)		EA	1
					
		8470-01-551-8040		EA	1
		8470-01-551-8042		EA	1
		8470-01-551-8044		EA	1
		8470-01-551-8045		EA	1
		8470-01-551-8047		EA	1
		8470-01-551-8050		EA	1
		8470-01-551-8051		EA	1
		8470-01-551-8053		EA	1
		8470-01-551-8054		EA	1
		8470-01-551-8055		EA	1

**OPERATOR MAINTENANCE**  
**IMPROVED OUTER TACTICAL VEST**  
**IMPROVED OUTER TACTICAL VEST GEN II**  
**COMPONENTS OF END ITEM (COEI) AND BASIC ISSUE ITEM (BII) LISTS**

**COMPONENTS OF END ITEMS LIST – CONTINUED**



**Table 1. Components Of End Item (COEI) List – IOTV – Continued.**

(1) Item Num ber	(2) National Stock Number (NSN) and Illustration	(3) Description, Part Number/(CAGEC)	(4) Usable On Code	(5) U/I	(6) Qty Rqr
3	8470-01-551-7718 	CARRIER, VEST (BACK) (XS), 1501-XS/(3T951)		EA	1
	8470-01-551-7721	CARRIER, VEST (BACK) (S), 1501- S/(3T951)		EA	1
	8470-01-551-7724	CARRIER, VEST (BACK) (M), 1501-M/(3T951)		EA	1
	8470-01-551-7726	CARRIER, VEST (BACK) ML), 1501-ML/(3T951)		EA	1
	8470-01-551-7735	CARRIER, VEST (BACK) (L), 1501- L/(3T951)		EA	1
	8470-01-551-7737	CARRIER, VEST (BACK) (LL), 1501-LL/(3T951)		EA	1
	8470-01-551-7738	CARRIER, VEST (BACK) (XL), 1501-XL/(3T951)		EA	1
	8470-01-551-7739	CARRIER, VEST (BACK) (XLL), 1501-XLL/(3T951)		EA	1
	8470-01-551-7740	CARRIER, VEST (BACK) (2XL), 1501-2XL/(3T951)		EA	1
	8470-01-551-7741	CARRIER, VEST (BACK) (3XL), 1501-3XL/(3T951)		EA	1
	8470-01-551-7743	CARRIER, VEST (BACK) (4XL), 1501-4XL/(3T951)		EA	1

**OPERATOR MAINTENANCE**  
**IMPROVED OUTER TACTICAL VEST**  
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**COMPONENTS OF END ITEM (COEI) AND BASIC ISSUE ITEM (BII) LISTS**

**COMPONENTS OF END ITEMS LIST – CONTINUED**



**Table 1. Components Of End Item (COEI) List – IOTV – Continued.**

(1) Item Num ber	(2) National Stock Number (NSN) and Illustration	(3) Description, Part Number/(CAGEC)	(4) Usable On Code	(5) U/I	(6) Qty Rqr
4	8470-01-551-8057 	INSERT, BALLISTIC (BACK) (XS), 1503-XS/(3T951)		EA	1
	8470-01-551-8058	INSERT, BALLISTIC (BACK) (S), 1503-S/(3T951)		EA	1
	8470-01-551-8062	INSERT, BALLISTIC (BACK) (M), 1503-M/(3T951)		EA	1
	8470-01-551-8063	INSERT, BALLISTIC (BACK) (ML), 1503-ML/(3T951)		EA	1
	8470-01-551-8064	INSERT, BALLISTIC (BACK) (L), 1503-L/(3T951)		EA	1
	8470-01-551-8074	INSERT, BALLISTIC (BACK) (LL), 1503-LL/(3T951)		EA	1
	8470-01-551-8075	INSERT, BALLISTIC (BACK) (XL), 1503-XL/(3T951)		EA	1
	8470-01-551-8079	INSERT, BALLISTIC (BACK) (XLL), 1503-XLL/(3T951)		EA	1
	8470-01-551-8078	INSERT, BALLISTIC (BACK) (2XL), 1503-2XL/(3T951)		EA	1
	8470-01-551-8086	INSERT, BALLISTIC (BACK) (3XL), 1503-3XL/(3T951)		EA	1
5	8470-01-551-8087	INSERT, BALLISTIC (BACK) (4XL), 1503-4XL/(3T951)		EA	1
	8470-01-551-8093 	CARRIER, SIDE PLATE (RIGHT EXTERNAL) (XS-S), 1507- XSS/(3T951)		EA	1

**OPERATOR MAINTENANCE**  
**IMPROVED OUTER TACTICAL VEST**  
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**COMPONENTS OF END ITEM (COEI) AND BASIC ISSUE ITEM (BII) LISTS**

**COMPONENTS OF END ITEMS LIST – CONTINUED**



**Table 1. Components Of End Item (COEI) List – IOTV – Continued.**

(1) Item Num ber	(2) National Stock Number (NSN) and Illustration	(3) Description, Part Number/(CAGEC)	(4) Usable On Code	(5) U/I	(6) Qty Rqr
6	8470-01-551-8095	CARRIER, SIDE PLATE (RIGHT EXTERNAL) (M-L), 1507-MLG/(3T951)		EA	1
	8470-01-551-8096	CARRIER, SIDE PLATE (RIGHT EXTERNAL) (XL-2XL), 1507-X2L/(3T951)		EA	1
	8470-01-551-8101	CARRIER, SIDE PLATE (RIGHT EXTERNAL) (3XL-4XL), 1507-X34/(3T951)		EA	1
	8470-01-551-8113 	CARRIER, SIDE PLATE (LEFT EXTERNAL) (XS-S), 1508-XSS/(3T951)		EA	1
	8470-01-551-8114	CARRIER, SIDE PLATE (LEFT EXTERNAL) (M-L), 1508-MLG/(3T951)		EA	1
	8470-01-551-8115	CARRIER, SIDE PLATE (LEFT EXTERNAL) (XL-2XL), 1508-X2L/(3T951)		EA	1
7	8470-01-551-8120	CARRIER, SIDE PLATE (LEFT EXTERNAL) (3XL-4XL), 1508-X34/(3T951)		EA	1
	8470-01-551-8631 	BODY ARMOR, WAISTBAND (RIGHT INTERNAL ELASTIC BAND) (XS-S), 1509-XSS/(3T951)		EA	1
	8470-01-551-8632	BODY ARMOR, WAISTBAND (RIGHT INTERNAL ELASTIC BAND) (M-L), 1509-MLG/(3T951)		EA	1
	8470-01-551-8633	BODY ARMOR, WAISTBAND (RIGHT INTERNAL ELASTIC BAND) (XL-2XL), 1509-X2L/(3T951)		EA	1

**OPERATOR MAINTENANCE**  
**IMPROVED OUTER TACTICAL VEST**  
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**COMPONENTS OF END ITEM (COEI) AND BASIC ISSUE ITEM (BII) LISTS**

**COMPONENTS OF END ITEMS LIST – CONTINUED**


**Table 1. Components Of End Item (COEI) List – IOTV – Continued.**

(1) Item Num ber	(2) National Stock Number (NSN) and Illustration	(3) Description, Part Number/(CAGEC)	(4) Usable On Code	(5) U/I	(6) Qty Rqr
8	8470-01-551-8634	BODY ARMOR, WAISTBAND (RIGHT INTERNAL ELASTIC BAND) (3XL-4XL), 1509- X34/(3T951)		EA	1
	8470-01-551-8620 	BODY ARMOR, WAISTBAND (LEFT INTERNAL ELASTIC BAND) (XS-S), 1510-XSS/(3T951)		EA	1
	8470-01-551-8623	BODY ARMOR, WAISTBAND (LEFT INTERNAL ELASTIC BAND) (M-L), 1510-MLG/(3T951)		EA	1
	8470-01-551-8624	BODY ARMOR, WAISTBAND (LEFT INTERNAL ELASTIC BAND) (XL-2XL), 1510-X2L/(3T951)		EA	1
	8470-01-551-8627	BODY ARMOR, WAISTBAND (LEFT INTERNAL ELASTIC BAND) (3XL-4XL), 1510-X34/(3T951)		EA	1
9	8305-01-551-8940 	CORD,CABLE ASSEMBLY,IMPROVED OUTER TACTICAL VEST (CABLE RELEASE ASSEMBLY(XS-S), 1513-L60/(3T951)		EA	1
	8305-01-551-8941	CORD,CABLE ASSEMBLY,IMPROVED OUTER TACTICAL VEST (CABLE RELEASE ASSEMBLY(M-L), 1513- L62/(3T951)		EA	1

**OPERATOR MAINTENANCE**  
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**COMPONENTS OF END ITEM (COEI) AND BASIC ISSUE ITEM (BII) LISTS**

**COMPONENTS OF END ITEMS LIST – CONTINUED**


**Table 1. Components Of End Item (COEI) List – IOTV – Continued.**

(1) Item Num ber	(2) National Stock Number (NSN) and Illustration	(3) Description, Part Number/(CAGEC)	(4) Usable On Code	(5) U/I	(6) Qty Rqr
10	8305-01-551-8942	CORD,CABLE ASSEMBLY,IMPROVED OUTER TACTICAL VEST (CABLE RELEASE ASSEMBLY(XL-2XL), 1513-L64/(3T951)		EA	1
	8305-01-551-8943	CORD,CABLE ASSEMBLY,IMPROVED OUTER TACTICAL VEST (CABLE RELEASE ASSEMBLY(3XL-4XL), 1513-L66/(3T951)		EA	1
	8305-01-560-6949	CORD,CABLE ASSEMBLY,IMPROVED OUTER TACTICAL VEST (CABLE RELEASE ASSEMBLY(ABOVE 4XL), GC09477105/(54786)		EA	1
	8470-01-551-8159	CARRIER, YOKE AND COLLAR(BACK YOKE/COLLAR) (XS), 1504-XS/(3T951)		EA	1
					
	8470-01-551-8162	CARRIER, YOKE AND COLLAR(BACK YOKE/COLLAR) (S), 1504-S/(3T951)		EA	1
	8470-01-551-8171	CARRIER, YOKE AND COLLAR(BACK YOKE/COLLAR) (M), 1504-M/(3T951)		EA	1
	8470-01-551-8172	CARRIER, YOKE AND COLLAR(BACK YOKE/COLLAR) (L), 1504-L/(3T951)		EA	1
	8470-01-551-8177	CARRIER, YOKE AND COLLAR(BACK YOKE/COLLAR) (XL), 1504-XL/(3T951)		EA	1

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**COMPONENTS OF END ITEM (COEI) AND BASIC ISSUE ITEM (BII) LISTS**

**COMPONENTS OF END ITEMS LIST – CONTINUED**


**Table 1. Components Of End Item (COEI) List – IOTV – Continued.**

(1) Item Num ber	(2) National Stock Number (NSN) and Illustration	(3) Description, Part Number/(CAGEC)	(4) Usable On Code	(5) U/I	(6) Qty Rqr
11	8470-01-551-8178	CARRIER, YOKE AND COLLAR(BACK YOKE/COLLAR) (2XL), 1504-2XL/(3T951)		EA	1
	8470-01-551-8179	CARRIER, YOKE AND COLLAR(BACK YOKE/COLLAR) (3XL), 1504-3XL/(3T951)		EA	1
	8470-01-551-8180	CARRIER, YOKE AND COLLAR(BACK YOKE/COLLAR) (4XL), 1504-4XL/(3T951)		EA	1
	8470-01-551-8192	INSERT, BALLISTIC (RIGHT COLLAR BALLISTIC INSERT) (XS), 1505-XS/(3T951)		EA	1
		INSERT, BALLISTIC (RIGHT COLLAR BALLISTIC INSERT) (S), 1505-SM/(3T951)		EA	1
		INSERT, BALLISTIC (RIGHT COLLAR BALLISTIC INSERT) (M), 1505-MD/(3T951)		EA	1
		INSERT, BALLISTIC (RIGHT COLLAR BALLISTIC INSERT) (L), 1505-LG/(3T951)		EA	1
		INSERT, BALLISTIC (RIGHT COLLAR BALLISTIC INSERT) (XL), 1505-XL/(3T951)		EA	1
		INSERT, BALLISTIC (RIGHT COLLAR BALLISTIC INSERT) (2XL), 1505-2XL/(3T951)		EA	1
		INSERT, BALLISTIC (RIGHT COLLAR BALLISTIC INSERT) (3XL), 1505-3XL/(3T951)		EA	1

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**COMPONENTS OF END ITEM (COEI) AND BASIC ISSUE ITEM (BII) LISTS**

**COMPONENTS OF END ITEMS LIST – CONTINUED**

**Table 1. Components Of End Item (COEI) List – IOTV – Continued.**




(1) Item Num ber	(2) National Stock Number (NSN) and Illustration	(3) Description, Part Number/(CAGEC)	(4) Usable On Code	(5) U/I	(6) Qty Rqr
12	8470-01-551-8205	INSERT, BALLISTIC (RIGHT COLLAR BALLISTIC INSERT) (4XL), 1505-4XL/(3T951)		EA	1
	8470-01-551-8206	INSERT, BALLISTIC (LEFT COLLAR BALLISTIC INSERT) (XS), 1506-XS/(3T951)		EA	1
		8470-01-551-8208		EA	1
		8470-01-551-8210		EA	1
		8470-01-551-8212		EA	1
		8470-01-551-8218		EA	1
		8470-01-551-8220		EA	1
		8470-01-551-8222		EA	1
		8470-01-551-8270		EA	1



**OPERATOR MAINTENANCE**  
**IMPROVED OUTER TACTICAL VEST**  
**IMPROVED OUTER TACTICAL VEST GEN II**  
**COMPONENTS OF END ITEM (COEI) AND BASIC ISSUE ITEM (BII) LISTS**

**COMPONENTS OF END ITEMS LIST – CONTINUED**


**Table 1. Components Of End Item (COEI) List – IOTV – Continued.**

(1) Item Num ber	(2) National Stock Number (NSN) and Illustration	(3) Description, Part Number/(CAGEC)	(4) Usable On Code	(5) U/I	(6) Qty Rqr
13	8470-01-551-8182 	YOKE ASSEMBLY (FRONT YOKE/COLLAR) (ONE SIZE), 1094/(3T951)		EA	1
14	8470-01-551-8518 	BODY ARMOR, KIDNEY, PROTECTOR (LOWER BACK PROTECTOR CARRIER) (ONE SIZE), 1516/(3T951)		EA	1
15	8470-01-551-8523 	INSERT, KIDNEY PROTECTOR (LOWER BACK PROTECTOR BALLISTIC INSERT) (ONE SIZE), 1517/(3T951)		EA	1

**OPERATOR MAINTENANCE**  
**IMPROVED OUTER TACTICAL VEST**  
**IMPROVED OUTER TACTICAL VEST GEN II**  
**COMPONENTS OF END ITEM (COEI) AND BASIC ISSUE ITEM (BII) LISTS**

**COMPONENTS OF END ITEMS LIST – CONTINUED**


**Table 2. Components Of End Item (COEI) List – IOTV Gen II.**

(1) Item Num ber	(2) National Stock Number (NSN) and Illustration	(3) Description, Part Number/(CAGEC)	(4) Usable On Code	(5) U/I	(6) Qty Rqr
1	8470-01-564-1373 	CARRIER, VEST (FRONT) (XS), FQ-OD 07-05/(81337)		EA	1
	8470-01-564-1379	CARRIER, VEST (FRONT) (S), FQ- OD 07-05/(81337)		EA	1
	8470-01-564-1385	CARRIER, VEST (FRONT) (M), FQ- OD 07-05/(81337)		EA	1
	8470-01-564-1417	CARRIER, VEST (FRONT) (ML), FQ-OD 07-05/(81337)		EA	1
	8470-01-564-1553	CARRIER, VEST (FRONT) (L), FQ- OD 07-05/(81337)		EA	1
	8470-01-564-1557	CARRIER, VEST (FRONT) (LL), FQ-OD 07-05/(81337)		EA	1
	8470-01-564-1562	CARRIER, VEST (FRONT) (XL), FQ-OD 07-05/(81337)		EA	1
	8470-01-564-1564	CARRIER, VEST (FRONT) (XLL), FQ-OD 07-05/(81337)		EA	1
	8470-01-564-1663	CARRIER, VEST (FRONT) (2XL), FQ-OD 07-05/(81337)		EA	1
	8470-01-564-1676	CARRIER, VEST (FRONT) (3XL), FQ-OD 07-05/(81337)		EA	1
	8470-01-564-1684	CARRIER, VEST (FRONT) (4XL), FQ-OD 07-05/(81337)		EA	1

**OPERATOR MAINTENANCE**  
**IMPROVED OUTER TACTICAL VEST**  
**IMPROVED OUTER TACTICAL VEST GEN II**  
**COMPONENTS OF END ITEM (COEI) AND BASIC ISSUE ITEM (BII) LISTS**

**COMPONENTS OF END ITEMS LIST- CONTINUED**


**Table 2. Components Of End Item (COEI) List – IOTV Gen II – Continued.**

(1) Item Num ber	(2) National Stock Number (NSN) and Illustration	(3) Description, Part Number/(CAGEC)	(4) Usable On Code	(5) U/I	(6) Qty Rqr
2	8470-01-551-8039 	INSERT, BALLISTIC (FRONT) (XS), 1502-XS/(3T951)		EA	1
	8470-01-551-8040	INSERT, BALLISTIC (FRONT) (S), 1502-S/(3T951)		EA	1
	8470-01-551-8042	INSERT, BALLISTIC (FRONT) (M), 1502-M/(3T951)		EA	1
	8470-01-551-8044	INSERT, BALLISTIC (FRONT) (ML), 1502-ML/(3T951)		EA	1
	8470-01-551-8045	INSERT, BALLISTIC (FRONT) (L), 1502-L/(3T951)		EA	1
	8470-01-551-8047	INSERT, BALLISTIC (FRONT) (LL), 1502-LL/(3T951)		EA	1
	8470-01-551-8050	INSERT, BALLISTIC (FRONT) (XL), 1502-XL/(3T951)		EA	1
	8470-01-551-8051	INSERT, BALLISTIC (FRONT) (XLL), 1502-XLL/(3T951)		EA	1
	8470-01-551-8053	INSERT, BALLISTIC (FRONT) (2XL), 1502-2XL/(3T951)		EA	1
	8470-01-551-8054	INSERT, BALLISTIC (FRONT) (3XL), 1502-3XL/(3T951)		EA	1
	8470-01-551-8055	INSERT, BALLISTIC (FRONT) (4XL), 1502-4XL/(3T951)		EA	1

**OPERATOR MAINTENANCE**  
**IMPROVED OUTER TACTICAL VEST**  
**IMPROVED OUTER TACTICAL VEST GEN II**  
**COMPONENTS OF END ITEM (COEI) AND BASIC ISSUE ITEM (BII) LISTS**

**COMPONENTS OF END ITEMS LIST- CONTINUED**



**Table 2. Components Of End Item (COEI) List – IOTV Gen II – Continued.**

(1) Item Num ber	(2) National Stock Number (NSN) and Illustration	(3) Description, Part Number/(CAGEC)	(4) Usable On Code	(5) U/I	(6) Qty Rqr
3	8470-01-564-1733 	CARRIER, VEST (BACK) (XS), FQ-OD 07-05/(81337)		EA	1
	8470-01-564-1755	CARRIER, VEST (BACK) (S), FQ-OD 07-05/(81337)		EA	1
	8470-01-564-1978	CARRIER, VEST (BACK) (M), FQ-OD 07-05/(81337)		EA	1
	8470-01-564-1988	CARRIER, VEST (BACK) (ML), FQ-OD 07-05/(81337)		EA	1
	8470-01-564-2000	CARRIER, VEST (BACK) (L), FQ-OD 07-05/(81337)		EA	1
	8470-01-564-2007	CARRIER, VEST (BACK) (LL), FQ-OD 07-05/(81337)		EA	1
	8470-01-564-2013	CARRIER, VEST (BACK) (XL), FQ-OD 07-05/(81337)		EA	1
	8470-01-564-2030	CARRIER, VEST (BACK) (XLL), FQ-OD 07-05/(81337)		EA	1
	8470-01-564-2035	CARRIER, VEST (BACK) (2XL), FQ-OD 07-05/(81337)		EA	1
	8470-01-564-2039	CARRIER, VEST (BACK) (3XL), FQ-OD 07-05/(81337)		EA	1
	8470-01-564-2336	CARRIER, VEST (BACK) (4XL), FQ-OD 07-05/(81337)		EA	1

**OPERATOR MAINTENANCE**  
**IMPROVED OUTER TACTICAL VEST**  
**IMPROVED OUTER TACTICAL VEST GEN II**  
**COMPONENTS OF END ITEM (COEI) AND BASIC ISSUE ITEM (BII) LISTS**

**COMPONENTS OF END ITEMS LIST- CONTINUED**




**Table 2. Components Of End Item (COEI) List – IOTV Gen II – Continued.**

(1) Item Num ber	(2) National Stock Number (NSN) and Illustration	(3) Description, Part Number/(CAGEC)	(4) Usable On Code	(5) U/I	(6) Qty Rqr
4	8470-01-551-8057 	INSERT, BALLISTIC (BACK) (XS), 1503-XS/(3T951)		EA	1
	8470-01-551-8058	INSERT, BALLISTIC (BACK) (S), 1503-S/(3T951)		EA	1
	8470-01-551-8062	INSERT, BALLISTIC (BACK) (M), 1503-M/(3T951)		EA	1
	8470-01-551-8063	INSERT, BALLISTIC (BACK) (ML), 1503-ML/(3T951)		EA	1
	8470-01-551-8064	INSERT, BALLISTIC (BACK) (L), 1503-L/(3T951)		EA	1
	8470-01-551-8074	INSERT, BALLISTIC (BACK) (LL), 1503-LL/(3T951)		EA	1
	8470-01-551-8075	INSERT, BALLISTIC (BACK) (XL), 1503-XL/(3T951)		EA	1
	8470-01-551-8079	INSERT, BALLISTIC (BACK) (XLL), 1503-XLL/(3T951)		EA	1
	8470-01-551-8078	INSERT, BALLISTIC (BACK) (2XL), 1503-2XL/(3T951)		EA	1
	8470-01-551-8086	INSERT, BALLISTIC (BACK) (3XL), 1503-3XL/(3T951)		EA	1
	8470-01-551-8087	INSERT, BALLISTIC (BACK) (4XL), 1503-4XL/(3T951)		EA	1
5	8470-01-576-7903 	CARRIER, SIDE PLATE (UNIVERSAL) (XS-S), FQ-OD 07- 05/(81337)		EA	2

**OPERATOR MAINTENANCE**  
**IMPROVED OUTER TACTICAL VEST**  
**IMPROVED OUTER TACTICAL VEST GEN II**  
**COMPONENTS OF END ITEM (COEI) AND BASIC ISSUE ITEM (BII) LISTS**

**COMPONENTS OF END ITEMS LIST- CONTINUED**

**Table 2. Components Of End Item (COEI) List – IOTV Gen II – Continued.**

(1) Item Num ber	(2) National Stock Number (NSN) and Illustration	(3) Description, Part Number/(CAGEC)	(4) Usable On Code	(5) U/I	(6) Qty Rqr
6	8470-01-576-8096	CARRIER, SIDE PLATE (UNIVERSAL) (M-L), FQ-OD 07- 05/(81337)		EA	2
	8470-01-576-8126	CARRIER, SIDE PLATE (UNIVERSAL) (XL-2XL), FQ-OD 07- 05/(81337)		EA	2
	8470-01-576-8131	CARRIER, SIDE PLATE (UNIVERSAL) (3XL-4XL), FQ-OD 07-05/(81337)		EA	2
	8470-01-576-8138 	POUCH, SIDE PLATE (UNIVERSAL) (ONE SIZE), FQ-OD 07-05/(81337)		EA	2
7	8470-01-551-8631 	BODY ARMOR, WAISTBAND (RIGHT INTERNAL ELASTIC BAND) (XS-S), 1509-XSS/(3T951)		EA	1
	8470-01-551-8632	BODY ARMOR, WAISTBAND (RIGHT INTERNAL ELASTIC BAND) (M-L), 1509-MLG/(3T951)		EA	1
	8470-01-551-8633	BODY ARMOR, WAISTBAND (RIGHT INTERNAL ELASTIC BAND) (XL-2XL), 1509-X2L/(3T951)		EA	1
	8470-01-551-8634	BODY ARMOR, WAISTBAND (RIGHT INTERNAL ELASTIC BAND) (3XL-4XL), 1509- X34/(3T951)		EA	1
8	8470-01-551-8620 	BODY ARMOR, WAISTBAND (LEFT INTERNAL ELASTIC BAND) (XS-S), 1510-XSS/(3T951)		EA	1
	8470-01-551-8623	BODY ARMOR, WAISTBAND (LEFT INTERNAL ELASTIC BAND) (M-L), 1510-MLG/(3T951)		EA	1

**OPERATOR MAINTENANCE**  
**IMPROVED OUTER TACTICAL VEST**  
**IMPROVED OUTER TACTICAL VEST GEN II**  
**COMPONENTS OF END ITEM (COEI) AND BASIC ISSUE ITEM (BII) LISTS**

**COMPONENTS OF END ITEMS LIST- CONTINUED**




**Table 2. Components Of End Item (COEI) List – IOTV Gen II – Continued.**

(1) Item Num ber	(2) National Stock Number (NSN) and Illustration	(3) Description, Part Number/(CAGEC)	(4) Usable On Code	(5) U/I	(6) Qty Rqr
9	8470-01-551-8624	BODY ARMOR, WAISTBAND (LEFT INTERNAL ELASTIC BAND) (XL-2XL), 1510-X2L/(3T951)		EA	1
	8470-01-551-8627	BODY ARMOR, WAISTBAND (LEFT INTERNAL ELASTIC BAND) (3XL-4XL), 1510-X34/(3T951)		EA	1
	8305-01-551-8940	CORD,CABLE ASSEMBLY,IMPROVED OUTER TACTICAL VEST (CABLE RELEASE ASSEMBLY(XS-S), 1513-L60/(3T951)		EA	1
	8305-01-551-8941	CORD,CABLE ASSEMBLY,IMPROVED OUTER TACTICAL VEST (CABLE RELEASE ASSEMBLY(M-L), 1513- L62/(3T951)		EA	1
	8305-01-551-8942	CORD,CABLE ASSEMBLY,IMPROVED OUTER TACTICAL VEST (CABLE RELEASE ASSEMBLY(XL-2XL), 1513-L64/(3T951)		EA	1
	8305-01-551-8943	CORD,CABLE ASSEMBLY,IMPROVED OUTER TACTICAL VEST (CABLE RELEASE ASSEMBLY(3XL-4XL), 1513-L66/(3T951)		EA	1
	8305-01-560-6949	CORD,CABLE ASSEMBLY,IMPROVED OUTER TACTICAL VEST (CABLE RELEASE ASSEMBLY(ABOVE 4XL), GC09477105/(54786)		EA	1

**OPERATOR MAINTENANCE**  
**IMPROVED OUTER TACTICAL VEST**  
**IMPROVED OUTER TACTICAL VEST GEN II**  
**COMPONENTS OF END ITEM (COEI) AND BASIC ISSUE ITEM (BII) LISTS**

**COMPONENTS OF END ITEMS LIST- CONTINUED**

**Table 2. Components Of End Item (COEI) List – IOTV Gen II – Continued.**




(1) Item Num ber	(2) National Stock Number (NSN) and Illustration	(3) Description, Part Number/(CAGEC)	(4) Usable On Code	(5) U/I	(6) Qty Rqr
10	8470-01-564-2544 	YOKE AND COLLAR ASSEMBLY (IOTV GEN II), (L), FQ-PD 07- 05/81337		EA	1
	8470-01-564-2550	YOKE AND COLLAR ASSEMBLY (IOTV GEN II), (XL), FQ-PD 07- 05/81337		EA	1
	8470-01-564-2560	YOKE AND COLLAR ASSEMBLY (IOTV GEN II), (2XL), FQ-PD 07- 05/81337		EA	1
	8470-01-564-3972	YOKE AND COLLAR ASSEMBLY (IOTV GEN II), (3XL), FQ-PD 07- 05/81337		EA	1
	8470-01-564-3982	YOKE AND COLLAR ASSEMBLY (IOTV GEN II), (4XL), FQ-PD 07- 05/81337		EA	1
11	8470-01-564-3393 	CARRIER, BACK PROTECTOR (GEN II LOWER BACK PROTECTOR CARRIER), (ONE SIZE), FQ-PD 07-05/(81337)		EA	1
12	8470-01-551-8523 	INSERT, KIDNEY PROTECTOR (LOWER BACK PROTECTOR BALLISTIC INSERT) (ONE SIZE), 1517/(3T951)		EA	1



**OPERATOR MAINTENANCE**  
**IMPROVED OUTER TACTICAL VEST**  
**IMPROVED OUTER TACTICAL VEST GEN II**  
**COMPONENTS OF END ITEM (COEI) AND BASIC ISSUE ITEM (BII) LISTS**

**COMPONENTS OF END ITEMS LIST- CONTINUED**

**Table 2. Components Of End Item (COEI) List – IOTV Gen II – Continued.**

(1) Item Num ber	(2) National Stock Number (NSN) and Illustration	(3) Description, Part Number/(CAGEC)	(4) Usable On Code	(5) U/I	(6) Qty Rqr
13	8470-01-564-4278 	GROIN PROTECTOR, CARRIER (XS-ML), FQ-PD 07-05/(81337)		EA	1
	8470-01-564-4292	GROIN PROTECTOR, CARRIER (L-4XL), FQ-PD 07-05/(81337)		EA	1
14	8470-01-497-8626 	INSERT, BALLISTIC GROIN PROTECTOR, (XS-ML), PD-00- 02/(81337)		EA	1
	8470-01-497-8627	INSERT, BALLISTIC GROIN PROTECTOR, (L-4XL), PD-00- 02/(81337)		EA	1
15	8470-01-564-5449 	DELTOID PROTECTOR OUTERSHELL, (XS-S), CO/PD 07- 05/(81337)		EA	2

**OPERATOR MAINTENANCE**  
**IMPROVED OUTER TACTICAL VEST**  
**IMPROVED OUTER TACTICAL VEST GEN II**  
**COMPONENTS OF END ITEM (COEI) AND BASIC ISSUE ITEM (BII) LISTS**

**COMPONENTS OF END ITEMS LIST- CONTINUED**

**Table 2. Components Of End Item (COEI) List – IOTV Gen II – Continued.**

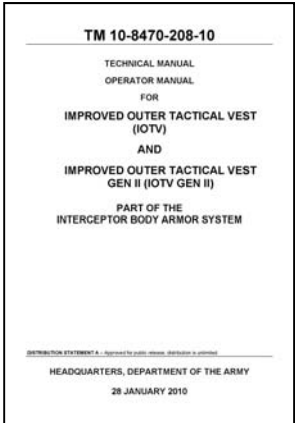

(1) Item Num ber	(2) National Stock Number (NSN) and Illustration	(3) Description, Part Number/(CAGEC)	(4) Usable On Code	(5) U/I	(6) Qty Rqr
16	8470-01-564-5474	DELTOID PROTECTOR OUTERSHELL, (M-L), CO/PD 07- 05/(81337)		EA	2
	8470-01-564-5505	DELTOID PROTECTOR OUTERSHELL, (XL-4XL), CO/PD 07-05/(81337)		EA	2
	8470-01-556-2192	DELTOID PROTECTOR, BALLISTIC PANEL, (XS-S), CO/PD 07-10/(81337)		EA	2
	8470-01-556-2187	DELTOID PROTECTOR, BALLISTIC PANEL, (M-L), CO/PD 07-10/(81337)		EA	2
	8470-01-520-7349	DELTOID PROTECTOR, BALLISTIC PANEL, (XL-4XL), CO/PD 07-10/(81337)		EA	2



**OPERATOR MAINTENANCE**  
**IMPROVED OUTER TACTICAL VEST**  
**IMPROVED OUTER TACTICAL VEST GEN II**  
**COMPONENTS OF END ITEM (COEI) AND BASIC ISSUE ITEM (BII) LISTS**

**COMPONENTS OF END ITEMS LIST- CONTINUED**



**Table 3. Basic Issue Items (BII) – IOTV.**

(1) Item Num ber	(2) National Stock Number (NSN) and Illustration	(3) Description, CAGEC, and Part Number	(4) Usable On Code	(5) Unit of Issu e (U/I)	(6) Qty Rqr.
1	N/A 	OPERATOR MANUAL FOR IMPROVED OUTER TACTICAL VEST (IOTV) AND IMPROVED OUTER TACTICAL VEST GEN II (IOTV GEN II) PART OF THE INTERCEPTOR BODY ARMOR SYSTEM, 81337, TM 10-8470-208-10		EA	1
2	8470-01-556-2100 	DELTOID PROTECTOR OUTERSHELL, (XS-S), CO/PD 07-10/(81337)		EA	2
	8470-01-556-2168	DELTOID PROTECTOR OUTERSHELL, (M-L), CO/PD 07-10/(81337)		EA	2
	8470-01-526-9657	DELTOID PROTECTOR OUTERSHELL, (XL-4XL), CO/PD 07-10/(81337)		EA	2

**OPERATOR MAINTENANCE**  
**IMPROVED OUTER TACTICAL VEST**  
**IMPROVED OUTER TACTICAL VEST GEN II**  
**COMPONENTS OF END ITEM (COEI) AND BASIC ISSUE ITEM (BII) LISTS**

**COMPONENTS OF END ITEMS LIST- CONTINUED**



**Table 3. Basic Issue Items (BII) – IOTV – Continued.**

(1) Item Num ber	(2) National Stock Number (NSN) and Illustration	(3) Description, CAGEC, and Part Number	(4) Usable On Code	(5) Unit of Issu e (U/I)	(6) Qty Rqr.
3	8470-01-556-2192 	DELTOID PROTECTOR, BALLISTIC PANEL, (XS-S), CO/PD 07-10/(81337)		EA	2
	8470-01-556-2187	DELTOID PROTECTOR, BALLISTIC PANEL, (M-L), CO/PD 07-10/(81337)		EA	2
	8470-01-520-7349	DELTOID PROTECTOR, BALLISTIC PANEL, (XL-4XL), CO/PD 07-10/(81337)		EA	2
4	8470-01-526-8051 	GROIN PROTECTOR, CARRIER (XS-ML), PD-00-02/(81337)		EA	1
	8470-01-526-8053	GROIN PROTECTOR, CARRIER (L-4XL) PD-00-02/(81337)		EA	1

**OPERATOR MAINTENANCE**  
**IMPROVED OUTER TACTICAL VEST**  
**IMPROVED OUTER TACTICAL VEST GEN II**  
**COMPONENTS OF END ITEM (COEI) AND BASIC ISSUE ITEM (BII) LISTS**

**COMPONENTS OF END ITEMS LIST- CONTINUED**


**Table 3. Basic Issue Items (BII) – IOTV – Continued.**

(1) Item Num ber	(2) National Stock Number (NSN) and Illustration	(3) Description, CAGEC, and Part Number	(4) Usable On Code	(5) Unit of Issu e (U/I)	(6) Qty Rqr.
5	8470-01-497-8626 	INSERT, BALLISTIC GROIN PROTECTOR, (XS-ML), PD-00-02/(81337)		EA	1
	8470-01-497-8627	INSERT, BALLISTIC GROIN PROTECTOR, (L-4XL), PD-00-02/(81337)		EA	1
6	8470-01-520-7360 	INSERTS, ENHANCED SMALL ARMS (ESAPI) (XS), CO/PD 04-10/(81337)		EA	2
	8470-01-520-7370	INSERTS, ENHANCED SMALL ARMS (ESAPI) (S), CO/PD 04-10/(81337)		EA	2
	8470-01-520-7373	INSERTS, ENHANCED SMALL ARMS (ESAPI) (M), CO/PD 04-10/(81337)		EA	2
	8470-01-520-7385	INSERTS, ENHANCED SMALL ARMS (ESAPI) (L), CO/PD 04-10/(81337)		EA	2
	8470-01-520-7382	INSERTS, ENHANCED SMALL ARMS (ESAPI) (XL), CO/PD 04-10/(81337)		EA	2

**OPERATOR MAINTENANCE  
IMPROVED OUTER TACTICAL VEST  
IMPROVED OUTER TACTICAL VEST GEN II  
COMPONENTS OF END ITEM (COEI) AND BASIC ISSUE ITEM (BII) LISTS**

**COMPONENTS OF END ITEMS LIST- CONTINUED**

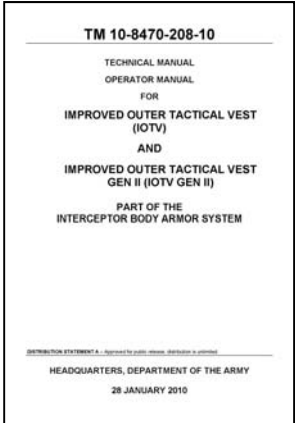

**Table 3. Basic Issue Items (BII) – IOTV – Continued.**

(1) Item Num ber	(2) National Stock Number (NSN) and Illustration	(3) Description, CAGEC, and Part Number	(4) Usable On Code	(5) Unit of Issu e (U/I)	(6) Qty Rqr.
7	8470-01-536-7227  	INSERTS, SMALL ARMS PROTECTIVE (ESBI) , (ONE SIZE), CO/PD 06-20/(81337)		EA	2

**OPERATOR MAINTENANCE**  
**IMPROVED OUTER TACTICAL VEST**  
**IMPROVED OUTER TACTICAL VEST GEN II**  
**COMPONENTS OF END ITEM (COEI) AND BASIC ISSUE ITEM (BII) LISTS**

**COMPONENTS OF END ITEMS LIST- CONTINUED**


**Table 4. Basic Issue Items (BII) – IOTV GEN II.**

(1) Item Num ber	(2) National Stock Number (NSN) and Illustration	(3) Description, CAGEC, and Part Number	(4) Usable On Code	(5) Unit of Issu e (U/I)	(6) Qty Rqr.
1	N/A 	OPERATOR MANUAL FOR IMPROVED OUTER TACTICAL VEST (IOTV) AND IMPROVED OUTER TACTICAL VEST GEN II (IOTV GEN II) PART OF THE INTERCEPTOR BODY ARMOR SYSTEM, 81337, TM 10-8470-208-10		EA	1
2	8470-01-520-7360 	INSERTS, ENHANCED SMALL ARMS (ESAPI) (XS), CO/PD 04-10/(81337)		EA	2
	8470-01-520-7370	INSERTS, ENHANCED SMALL ARMS (ESAPI) (S), CO/PD 04-10/(81337)		EA	2
	8470-01-520-7373	INSERTS, ENHANCED SMALL ARMS (ESAPI) (M), CO/PD 04-10/(81337)		EA	2
	8470-01-520-7385	INSERTS, ENHANCED SMALL ARMS (ESAPI) (L), CO/PD 04-10/(81337)		EA	2
	8470-01-520-7382	INSERTS, ENHANCED SMALL ARMS (ESAPI) (XL), CO/PD 04-10/(81337)		EA	2

**OPERATOR MAINTENANCE  
IMPROVED OUTER TACTICAL VEST  
IMPROVED OUTER TACTICAL VEST GEN II  
COMPONENTS OF END ITEM (COEI) AND BASIC ISSUE ITEM (BII) LISTS**

**COMPONENTS OF END ITEMS LIST- CONTINUED**

**Table 4. Basic Issue Items (BII) – IOTV GEN II – Continued.**

(1) Item Num ber	(2) National Stock Number (NSN) and Illustration	(3) Description, CAGEC, and Part Number	(4) Usable On Code	(5) Unit of Issu e (U/I)	(6) Qty Rqr.
3	8470-01-536-7227  	INSERTS, SMALL ARMS PROTECTIVE (ESBI) , (ONE SIZE), CO/PD 06-20/(81337)		EA	2

**END OF WORK PACKAGE**



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**OPERATOR MAINTENANCE**  
**IMPROVED OUTER TACTICAL VEST**  
**IMPROVED OUTER TACTICAL VEST GEN II**  
**EXPENDABLE AND DURABLE ITEMS LIST**

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**EXPENDABLE AND DURABLE ITEMS LIST**  
**INTRODUCTION**

**Scope**

This work package lists expendable and durable items that you will need to operate and maintain the IBA. 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), CTA 50-909, Field and Garrison Furnishings and Equipments or CTA 8-100, Army Medical Department Expendable/Durable Items.

**Explanation of Columns in the Expendable/Durable Items List**

**Column (1) Item No.** This number is assigned to the entry in the list and is references in the narrative instructions to identify the item (e.g., Use brake fluid (WP 0098, item 5))

**Column (2) Level.** This column identifies the lowest level of maintenance that requires the listed item (*C= Crew*).

**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, Part Number (CAGEC).** This column provides the other information you need to identify the item. The last line below the description is the part number and the Commercial and Government Entity Code (CAGEC) (in parentheses).

**Column (5) U/I. Unit of Issue (U/I) Code.** Shows the physical measurement or count of an item, such as gallon, dozen, gross, etc.

**OPERATOR MAINTENANCE  
IMPROVED OUTER TACTICAL VEST  
IMPROVED OUTER TACTICAL VEST GEN II  
EXPENDABLE AND DURABLE ITEMS LIST**

**EXPENDABLE AND DURABLES ITEMS LIST**

**Table 1. Expendable and Durable Items List**

<b>(1) Item No.</b>	<b>(2) Level</b>	<b>(3) National Stock Number (NSN)</b>	<b>(4) Item Name, Description, Part Number/(CAGEC)</b>	<b>(5) U/I</b>
1	C	N/A	Cleaning Foam System, Outer Vest, SOT0- 10FC00NA05 /(3D6J6)	BT
2	C	8315-01-222- 0680	Kit, Sewing, A-A-55190 (58536)	EA
3	C	N/A	Patch, Outer Shell Field Repair, Type I, SOT0- 10DE00CD01/(3D6J6)	PK
4	C	N/A	Patch, Outer Shell Field Repair, Type II, SOT0- 10DE00CD02/(3D6J6)	PK
5	C	7510-00-266- 5016	Tape, Pressure Sensitive Adhesive, PPP-T-60 (81348) or similar	RL

**END OF WORK PACKAGE**

## These are the instructions for sending an electronic 2028

The following format must be used if submitting an electronic 2028. The subject line must be exactly the same and all fields must be included; however only the following fields are mandatory: 1, 3, 4, 5, 6, 7, 8, 9, 10, 13, 15, 16, 17, and 27.

From: "Whoever" <whoever@avma27.army.mil>  
To: TACOMLCMC.DAForm2028@us.army.mil

Subject: DA Form 2028

1. From: Joe Smith
2. Unit: home
3. Address: 4300 Park
4. City: Hometown
5. St: MO
6. Zip: 77777
7. Date Sent: 19-OCT-93
8. Pub no: 55-2840-229-23
9. Pub Title: TM
10. Publication Date: 04-JUL-85
11. Change Number: 7
12. Submitter Rank: MSG
13. Submitter FName: Joe
14. Submitter MName: T
15. Submitter LName: Smith
16. Submitter Phone: 123-123-1234
17. Problem: 1
18. Page: 2
19. Paragraph: 3
20. Line: 4
21. NSN: 5
22. Reference: 6
23. Figure: 7
24. Table: 8
25. Item: 9
26. Total: 123
27. Text:

This is the text for the problem below line 27.



<b>RECOMMENDED CHANGES TO PUBLICATIONS AND BLANK FORMS</b> For use of this form, see AR 25-30; the proponent agency is ODISC4.						Use Part II (reverse) for Repair Parts and Special Tool Lists (RPSTL) and Supply Catalogs/Supply Manuals (SC/SM).	DATE 21 October 2003
<b>TO:</b> (Forward to proponent of publication or form) (Include ZIP Code) US ARMY TACOM LIFE CYCLE MANAGEMENT COMMAND ATTN: AMSTA-LC-SECT 15 KANSAS ST NATICK, MA 01760-5052						<b>FROM:</b> (Activity and location) (Include ZIP Code) PFC JANE DOE Co A 3 <sup>RD</sup> Engineer Br. Ft Leonard Wood, MO 63108	
<b>PART I – ALL PUBLICATIONS (EXCEPT RPSTL AND SC/SM) AND BLANK FORMS</b>							
PUBLICATION/FORM NUMBER TM 10-1670-296-23&P						DATE 30 October 2002	TITLE Unit Manual for Ancillary Equipment for Low Velocity Air Drop Systems
ITEM NO.	PAGE NO.	PARA-GRAPH	LINE NO. *	FIGURE NO.	TABLE NO.	RECOMMENDED CHANGES AND REASON (Provide exact wording of recommended changes, if possible).	
	0036 00-2				1	<p>In Table 1, Sewing Machine Code Symbols, the second sewing machine code symbol should be MDZZ not MD22</p> <p>Change the manual to show Sewing Machine, Industrial: Zig-Zag; 308 stitch; medium-duty; NSN 3530-01-181-1421 as a MDZZ code symbol.</p>	
<i>*Reference to line numbers within the paragraph or subparagraph.</i>							
TYPED NAME, GRADE OR TITLE Jane Doe, PFC				TELEPHONE EXCHANGE/AUTOVON, PLUS EXTENSION (508) 233-4141 DSN 256-4141		SIGNATURE Jane Doe Jane Doe	

<b>TO:</b> (Forward direct to addressee listed in publication) US ARMY TACOM LIFE CYCLE MANAGEMENT COMMAND ATTN: AMSTA-LC-SECT 15 KANSAS ST NATICK, MA 01760-5052					<b>FROM:</b> (Activity and location) (Include ZIP Code) PFC JANE DOE Co A 3 <sup>RD</sup> Engineer Br. Ft Leonard Wood, MO 63108			<b>DATE</b> 21 October 2003	
<b>PART II – REPAIR PARTS AND SPECIAL TOOL LISTS AND SUPPLY CATALOGS/SUPPLY MANUALS</b>									
PUBLICATION NUMBER TM 10-1670-296-23&P					DATE 30 October 2002		TITLE Unit Manual for Ancillary Equipment for Low Velocity Air Drop Systems		
PAGE NO.	COLM NO.	LINE NO.	NATIONAL STOCK NUMBER	REFERENCE NO.	FIGURE NO.	ITEM NO.	TOTAL NO. OF MAJOR ITEMS SUPPORTED	RECOMMENDED ACTION	
0066 00-					4			Callout 16 in figure 4 is pointed to a <u>D-Ring</u> . In the Repair Part List key for Figure 4, item 16 is called a <u>Snap Hook</u> . Please correct one or the other.	
<b>PART III – REMARKS</b> (Any general remarks or recommendations, or suggestions for improvement of publications and blank forms. Additional blank sheets may be used if more space is needed.)									
TYPED NAME, GRADE OR TITLE				TELEPHONE EXCHANGE/AUTOVON, PLUS EXTENSION			SIGNATURE		

<b>RECOMMENDED CHANGES TO PUBLICATIONS AND BLANK FORMS</b> For use of this form, see AR 25-30; the proponent agency is ODISC4.						Use Part II (reverse) for Repair Parts and Special Tool Lists (RPSTL) and Supply Catalogs/Supply Manuals (SC/SM).	DATE
<b>TO:</b> (Forward to proponent of publication or form) (Include ZIP Code) US ARMY TACOM LIFE CYCLE MANAGEMENT COMMAND ATTN: AMSTA-LCL-MPP/TECH PUBS 1 Rock Island Arsenal ROCK ISLAND, IL 61299-7360						<b>FROM:</b> (Activity and location) (Include ZIP Code)	
<b>PART I - ALL PUBLICATIONS (EXCEPT RPSTL AND SC/SM) AND BLANK FORMS</b>							
PUBLICATION/FORM NUMBER TM 10-8470-208-10					DATE 01 March 2010	TITLE Operator's Manual For Improved Outer Tactical Vest (IOTV) and Improved Outer Tactical Vest Gen II (IOTV Gen II)	
ITEM NO.	PAGE NO.	PARA-GRAPH	LINE NO. *	FIGURE NO.	TABLE NO.	RECOMMENDED CHANGES AND REASON (Provide exact wording of recommended changes, if possible).	
<i>*Reference to line numbers within the paragraph or subparagraph.</i>							
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By Order of the Secretary of the Army:

GEORGE W. CASEY, JR.  
*General, United States Army*  
*Chief of Staff*

Official:



JOYCE E. MORROW  
*Administrative Assistant to the*  
*Secretary of the Army*  
1006310

Distribution:

To be distributed in accordance with the initial distribution number (IDN) 314252,  
requirements for TM 10-8470-208-10.





**PIN: 085476-000**