

TECHNICAL MANUAL  
OPERATOR'S MANUAL  
FOR  
MODULAR LIGHTWEIGHT  
LOAD-CARRYING EQUIPMENT  
(MOLLE) II



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

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HEADQUARTERS, DEPARTMENT OF THE ARMY

02 NOVEMBER 2009

Crye Ex. 1010  
Crye v. FirstSpear  
IPR2019-01152



## 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 icons used within the technical manual.

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

### EXPLANATION OF HAZARDOUS MATERIALS ICONS



**BIOLOGICAL** – biohazard symbol means that contact with nuclear or biological material can cause harm to the equipment or the user.



**CHEMICAL** – drops of liquid on hand shows that the material will cause burns or irritation to human skin or tissue.



**FIRE** – flame shows that a material may ignite and cause burns.

## **HAZARDOUS MATERIALS DESCRIPTIONS**

### **WARNING**

Dispose of in accordance with FM 3-11.5 if exposed to any chemical, biological, radiological, or nuclear (CBRN) elements.

### **WARNING**

Improper cleaning methods or use of unauthorized cleaning liquids, solvents, dry cleaning, or drying clothes in a dryer can injure personnel or damage the MOLLE II. Failure to follow these instructions could result in harm to the soldier.

### **WARNING**

Do not store equipment in containers that could trap moisture. Failure to follow this warning may result in degradation of the equipment.

HEADQUARTERS  
DEPARTMENT OF THE ARMY  
WASHINGTON, D.C., 02 NOVEMBER 2009

TECHNICAL MANUAL  
OPERATOR'S MANUAL  
FOR  
MODULAR LIGHTWEIGHT LOAD-CARRYING  
EQUIPMENT  
(MOLLE) II

**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, DA Form 2028 (Recommended Changes to Publications and Blank Forms) directly to: Commander, TACOM Life Cycle Management Command, ATTN: AMSTA-LC-LMPP/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 number is DSN 793-0726, and commercial number (309) 782-0726. Our email address is [TACOMLCMC.DAFORM2028@us.army.mil](mailto:TACOMLCMC.DAFORM2028@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 Distribution Center, DOL-W will also provide updates and changes to the Technical Manual.

To receive new Technical Manuals or change packages to existing Technical Manuals (TM) for fielded equipment, provide the Unit Publications Clerk the full Technical Manual number, title, date of publication, and number of copies required. The Unit Publications Clerk will justify the request through the Unit Publications Officer. When the request is approved, the Unit Publications Clerk will use DA Form 12-R to order the series of Technical Manuals from the Army Publishing Directorate (APD).

#### **Instructions for Unit Publications Clerk**

Obtain DA Form 12-R and request a publications account from the APD Website 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**

This manual contains General Information, Operating and Maintenance instructions for the Modular Lightweight Load-Carrying Equipment (MOLLE) II.

**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 Data, and Theory of Operation.** Provides descriptions, equipment data, and theory of operation information.

**Chapter 2. Operator Instructions.** Provides operating instructions for the MOLLE II.

**Chapter 3. Troubleshooting Procedures.** Provides troubleshooting procedures for the MOLLE II.

**Chapter 4. Operator Maintenance Instructions.** Provides instructions on inspecting, cleaning, and PMCS.

**Chapter 5. Supporting Information.** Provides references information, Components of End Items (COEI)/Basic Issue Items (BI) Lists, Additional Authorized List (AAL), Expendable and Durable Items List, and Additional Information for the MOLLE II.

**REAR MATTER.** Rear matter consists of electronic instructions for DA Form 2028, authentication page, and back cover.

## **Manual Organization and Page Numbering System**

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 contained within each chapter and the Work Package Sequence Number where it can be found.

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

## **OPERATION AND MAINTENANCE**

Before you use the MOLLE II, familiarize yourself with the assembly and fitting instruction. Perform PMCS as directed. Always follow the **WARNINGS** and **CAUTIONS**.

**CHAPTER 1**

**GENERAL INFORMATION, EQUIPMENT DESCRIPTION**

**AND THEORY OF OPERATION**

**FOR**

**MODULAR LIGHTWEIGHT LOAD-CARRYING EQUIPMENT**

**(MOLLE) II**





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**GENERAL INFORMATION, EQUIPMENT DESCRIPTION  
AND THEORY OF OPERATION  
GENERAL INFORMATION**

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**SCOPE**

This manual covers the fitting and use instruction for the Modular Lightweight Load-Carrying Equipment (MOLLE) II.

**MAINTENANCE, FORMS, RECORDS AND REPORTS**

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

**REPORTING EQUIPMENT IMPROVEMENT  
RECOMMENDATIONS (EIR)**

If your MOLLE 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 Equipment

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**GENERAL INFORMATION, EQUIPMENT DESCRIPTION  
AND THEORY OF OPERATION**  
**GENERAL INFORMATION**

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**REPORTING EQUIPMENT IMPROVEMENT  
RECOMMENDATION (EIR) – Continued**

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 you 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.

**CORROSION PREVENTION AND CONTROL (CPC)**

Corrosion Prevention and Control (CPC) of Army materiel is a continuing concern. It is important that any corrosion or degradation problems with this item be reported so that the problem can be corrected and improvements can be made to prevent the problem in future items. Corrosion specifically occurs with metals. It is an electrochemical process that causes the degradation of metals. It is commonly caused by exposure to moisture, acids, bases, or salts. An example is the rusting of iron. Corrosion damage in metal can be seen, depending on the metal, as tarnishing, pitting, fogging, surface residue, and/or cracking. Plastics, composites, and rubbers can also degrade. Degradation is caused by thermal

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**GENERAL INFORMATION, EQUIPMENT DESCRIPTION  
AND THEORY OF OPERATION**

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**GENERAL INFORMATION**

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**CORROSION PREVENTION AND CONTROL (CPC) –  
Continued**

(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.

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

Not applicable to the MOLLE II system.

**PREPARATION FOR STORAGE OR SHIPMENT**

The MOLLE II is shipped in sealed plastic. Do not store the MOLLE II in any medium that could trap moisture and cause degradation of the equipment. Make sure components are packed in airtight or moisture-free environment for longtime storage or for shipment.

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**GENERAL INFORMATION, EQUIPMENT DESCRIPTION  
AND THEORY OF OPERATION  
GENERAL INFORMATION**

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**LIST OF ABBREVIATIONS/ACRONYMS**

<b><u>TERM</u></b>	<b><u>DEFINITION</u></b>
AAL	Additional Authorized List
ALICE	All-Purpose Lightweight Individual Carrying Equipment
AN/PVS	Army/Navy Portable Visual Search (an MNVD, see below)
APD	Army Publishing Directorate
AR	Army Regulation
ASIP	Advanced SINCGARS Improvement Program
BII	Basic Issue Items
CAGEC	Commercial and Government Entity Code
CBRN	Chemical, Biological, Radiological, and Nuclear

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**GENERAL INFORMATION, EQUIPMENT DESCRIPTION  
AND THEORY OF OPERATION  
GENERAL INFORMATION**

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**LIST OF ABBREVIATIONS/ACRONYMS – Continued**

<b><u>TERM</u></b>	<b><u>DEFINITION</u></b>
CIF	Central Issue Facility
COEI	Components of End Items
CPC	Corrosion Prevention and Control
DA	Department of the Army
DOL-W	Director of Logistics-Washington
EIR	Equipment Improvement Recommendations
EA	Each
ETLBV	Enhanced Tactical Load Bearing Vest
FLC	Fighting Load Carrier
FM	Field Manual
GP	General Purpose

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**GENERAL INFORMATION, EQUIPMENT DESCRIPTION  
AND THEORY OF OPERATION  
GENERAL INFORMATION**

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**LIST OF ABBREVIATIONS/ACRONYMS – Continued**

<b><u>TERM</u></b>	<b><u>DEFINITION</u></b>
GPS	General Purpose Sling
LBV	Load Bearing Vest
MBITR	Multiband Inter/Intra Team Radio
MDD	Media Distribution Division
MNVD	Monocular Night Vision Device
MVP	MOLLE Vehicle Pane
MOLLE	Modular Lightweight Load-Carrying Equipment
MTOE	Modified Table of Organization and Equipment
NO	Number
NSN	National Stock Number
PAM	Pamphlet

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**GENERAL INFORMATION, EQUIPMENT DESCRIPTION  
AND THEORY OF OPERATION  
GENERAL INFORMATION**

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**LIST OF ABBREVIATIONS/ACRONYMS – Continued**

<b><u>TERM</u></b>	<b><u>DEFINITION</u></b>
PMCS	Preventative Maintenance and Checks
PVS	Night Vision Goggles
PQDR	Product Quality Deficiency Report
SAW	Squad Automatic Weapon
SE	Set
SINCGARS	Single-Channel Ground-air Radio System
SF	Standard Form
SOP	Standard Operating Procedure
TAMMS	The Army Maintenance Management System
TAMMS-A	Functional Users Manual for the Army Maintenance System

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**GENERAL INFORMATION, EQUIPMENT DESCRIPTION  
AND THEORY OF OPERATION  
GENERAL INFORMATION**

---

**LIST OF ABBREVIATIONS/ACRONYMS – Continued**

<b><u>TERM</u></b>	<b><u>DEFINITION</u></b>
TM	Technical Manual
TOE	Table of Organization and Equipment
UV	Ultra Violet
WCA	Warranty Claim Action
WP	Workpackage

**END OF WORK PACKAGE**



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**EQUIPMENT DESCRIPTION AND DATA**

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**EQUIPMENT CHARACTERISTICS, CAPABILITIES, AND FEATURES**

The MOLLE II is an integrated, modular load bearing system designed to have different configurations that allow soldiers to tailor their equipment to meet specific mission needs.

The MOLLE II system is configured from the following items: Large Ruck Sack with an external frame and webbing to accommodate added components, the Fighting Load Carrier (FLC) with webbing, Waist Pack, Assault Pack, compatible Pouches and Pockets, Hydration System, and additional items to assist in meeting mission requirements.

The MOLLE II System Sets are the Large Rucksack Set, Rifleman Set, Pistol Pocket Set, Grenadier Pocket Set, SAW Gunner Pocket Set, and the Medic Pocket Set.

The MOLLE II is made from water-repellant fabrics and composites that are military specified.

**LOCATION AND DESCRIPTION OF MAJOR COMPONENTS**

MOLLE II is a modular Load-Carrying system designed to enhance the survivability and lethality of the modern Soldier. MOLLE II is a replacement for the All-Purpose Lightweight Individual Carrying Equipment system (ALICE) and the

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**EQUIPMENT DESCRIPTION AND DATA**

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**LOCATION AND DESCRIPTION OF MAJOR  
COMPONENTS - Continued**

Integrated Individual Fighting System including the Enhanced Tactical Load-Bearing Vest (ETLBV).

Your Central Issue Facility or Supply should issue a complete Rifleman MOLLE II set. The appropriate pouches/pockets that match your position will be issued at the unit level (Figure 1).

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**EQUIPMENT DESCRIPTION AND DATA**

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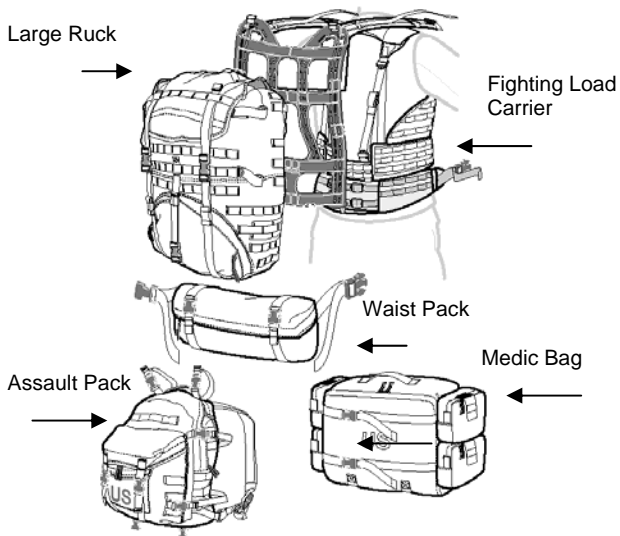
**LOCATION AND DESCRIPTION OF MAJOR COMPONENTS - Continued**

Figure 1. MOLLE II and Components.

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**EQUIPMENT DESCRIPTION AND DATA**

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**LOCATION AND DESCRIPTION OF MAJOR  
COMPONENTS - Continued****Fighting Load Carrier (FLC)**

The Fighting Load Carrier (FLC) is a modular vest that allows commanders to tailor the load to meet mission needs without unnecessary pouches and gear (Figure 2). It is one size fits all, and is designed to be worn over body armor. The MOLLE II pockets can be placed directly on the body armor for certain missions, however, when the pockets are placed directly on the armor, it limits the ability to take the fighting load off without exposing oneself to ballistic threats.

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**EQUIPMENT DESCRIPTION AND DATA**

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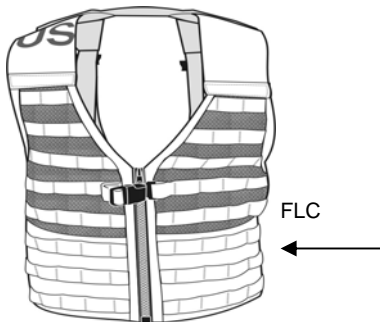
**LOCATION AND DESCRIPTION OF MAJOR  
COMPONENTS - Continued**

Figure 2. Fighting Load Carrier (FLC).

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**EQUIPMENT DESCRIPTION AND DATA**

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**LOCATION AND DESCRIPTION OF MAJOR COMPONENTS - Continued**

The FLC is designed to reduce heat buildup on the back with a minimum area of coverage of the H-Harness design (Figures 3 and 4). The wide, 3 ½ inch shoulder straps of the FLC help distribute the load without the need for excessive padding that can hinder mobility and sighting a weapon (Figure 3).

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**EQUIPMENT DESCRIPTION AND DATA**

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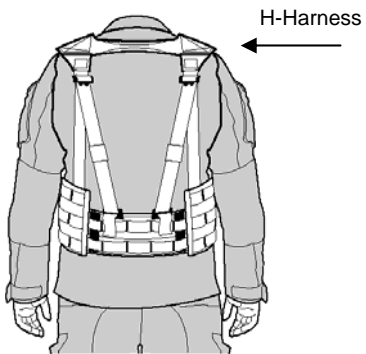
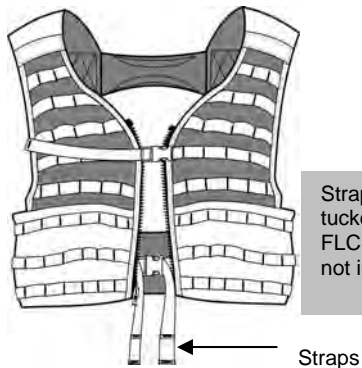
**LOCATION AND DESCRIPTION OF MAJOR  
COMPONENTS - Continued**

Figure 3. FLC Rear View.

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**EQUIPMENT DESCRIPTION AND DATA**

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**LOCATION AND DESCRIPTION OF MAJOR  
COMPONENTS - Continued**

Straps should be tucked inside the FLC panels when not in use.

Figure 4. FLC Front View.



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**EQUIPMENT DESCRIPTION AND DATA**

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**LOCATION AND DESCRIPTION OF MAJOR COMPONENTS - Continued****POCKETS/POUCHES**

A common FLC vest is provided for all Soldiers with specialized removable pouches/pockets for Rifleman, Pistol, SAW Gunner, Grenadier, and Medic configurations (Figure 5; Table 1).

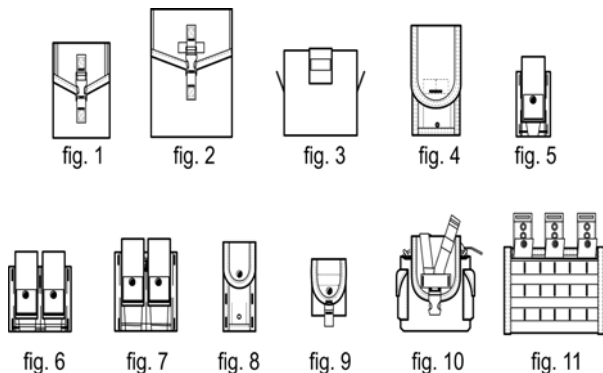


Figure 5. Pockets/Pouches.

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**EQUIPMENT DESCRIPTION AND DATA**

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**LOCATION AND DESCRIPTION OF MAJOR  
COMPONENTS - Continued****Table 1. Pockets/Pouches Use.**

Figure 1. in Figure 5 pg 0002-9	100-round SAW Pouch
Figure 2. in Figure 5 pg 0002-9	200-round SAW Pouch
Figure 3. in Figure 5 pg 0002-9	Medical Pocket
Figure 4. in Figure 5 pg 0002-9	M4, Two-Magazine Pouch
Figure 5. in Figure 5 pg 0002-9	40mm High Explosive Grenade Pouch (single)
Figure 6. in Figure 5 pg 0002-9	40mm High Explosive Grenade Pouch (double)
Figure 7. in Figure 5 pg 0002-9	40mm Pyrotechnic (illumination) Round Pouch (double)
Figure 8. in Figure 5 pg 0002-9	9mm Magazine Pouch
Figure 9. in Figure 5 pg 0002-9	Fragmentation Hand Grenade Pouch
Figure 10. in Figure 5 pg 0002-9	Canteen/General Purpose Pouch
Figure 11. in Figure 5 pg 0002-9	M4, Three-Magazine Side-by- Side Pouch

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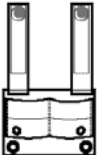
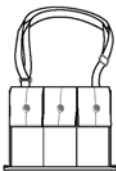
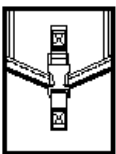


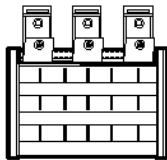

**EQUIPMENT DESCRIPTION AND DATA**

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**LOCATION AND DESCRIPTION OF MAJOR COMPONENTS - Continued**

There are other accessories/components that may be used according to mission need (see below).

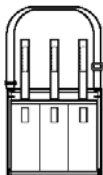
**Table 2. Accessories/Components.**

			
ALICE Adapter	Six-Magazine Bandoleer	100 Round Ammo	K-Bar Adapter
			
300 Round Pouch	M16A2 Three-Magazine Pouch	Flashbang Pouch	

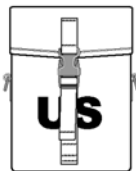
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**EQUIPMENT DESCRIPTION AND DATA**

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**LOCATION AND DESCRIPTION OF MAJOR  
COMPONENTS - Continued****Table 2. Accessories/Components. – Continued**

IV Bandoleer



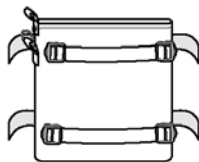
Sustainment Pouch



Leader Pouch



Chaplain Pouch

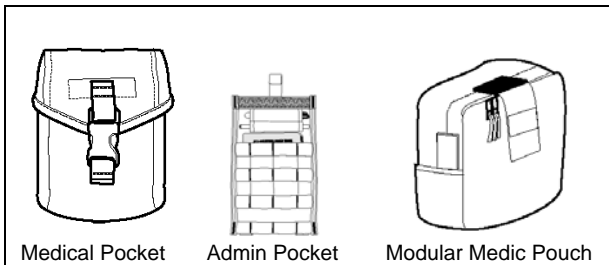


Radio Pouch

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**EQUIPMENT DESCRIPTION AND DATA**

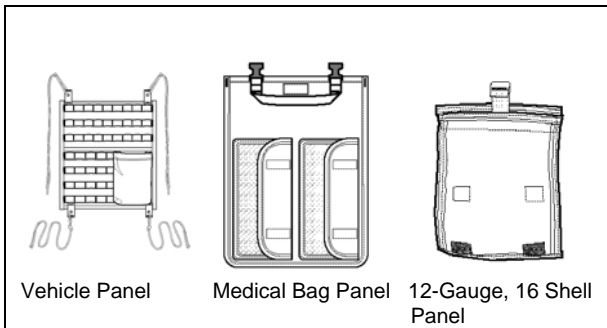
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**LOCATION AND DESCRIPTION OF MAJOR  
COMPONENTS - Continued****Table 2. Accessories/Components. – Continued**

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**EQUIPMENT DESCRIPTION AND DATA**

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**LOCATION AND DESCRIPTION OF MAJOR  
COMPONENTS - Continued****Table 2. Accessories/Components. – Continued**

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**EQUIPMENT DESCRIPTION AND DATA**

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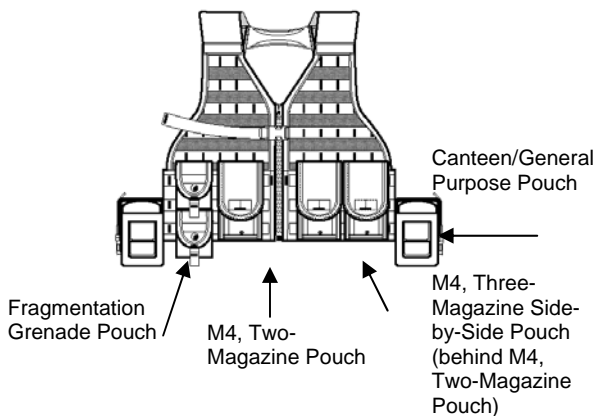
**LOCATION AND DESCRIPTION OF MAJOR COMPONENTS - Continued**

Figure 6. FLC Complete.

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**EQUIPMENT DESCRIPTION AND DATA**

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**MOLLE II CONFIGURATIONS**

Get to know your MOLLE II system and experiment with different load configurations that comprise the various MOLLE II sets. Get used to removing items that are not needed so that the load is as streamlined as possible. All configurations are comprised of a separate FLC and various other items such as pouches to make up the configuration.

**Rifleman Configuration**

The Rifleman configuration is designed to hold up to 12 magazines in three M4, Two-Magazine pouches and two M4, Three-Magazine Side-by-Side pouches. It holds grenades in two Fragmentation Hand Grenade pouches. Two Canteen/General Purpose pouches are for canteens or other items (Figure 7).



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**EQUIPMENT DESCRIPTION AND DATA**

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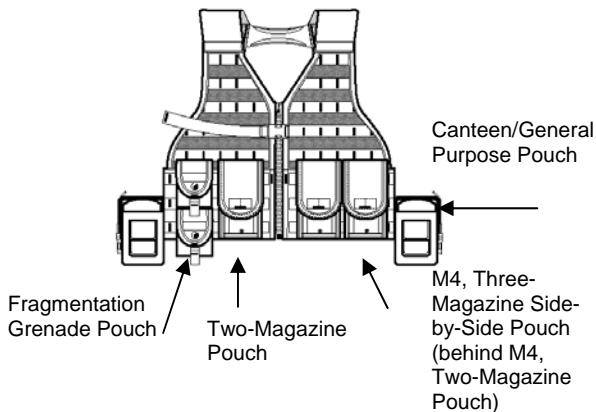
**MOLLE II CONFIGURATIONS – Continued**

Figure 7. Rifleman Set.

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**EQUIPMENT DESCRIPTION AND DATA**

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**MOLLE II CONFIGURATIONS – Continued****Pistol Configuration**

The Pistol configuration holds four single 9mm magazine pouches and two fragmentation hand grenades as shown.

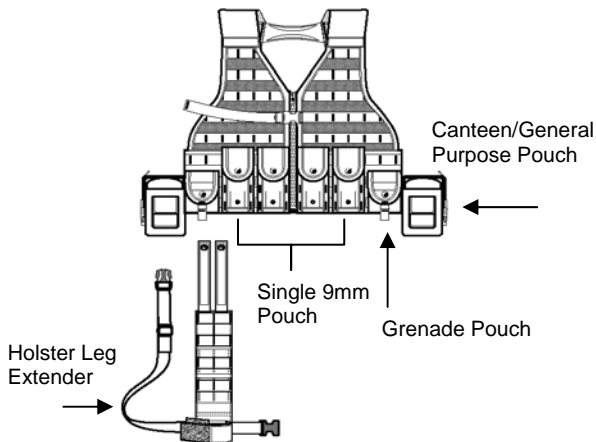


Figure 8. Pistol Set.

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**EQUIPMENT DESCRIPTION AND DATA**

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**MOLLE II CONFIGURATIONS – Continued****SAW Gunner**

The SAW Gunner configuration accommodates two 200-round magazine pouches and two 100-round magazine pouches.

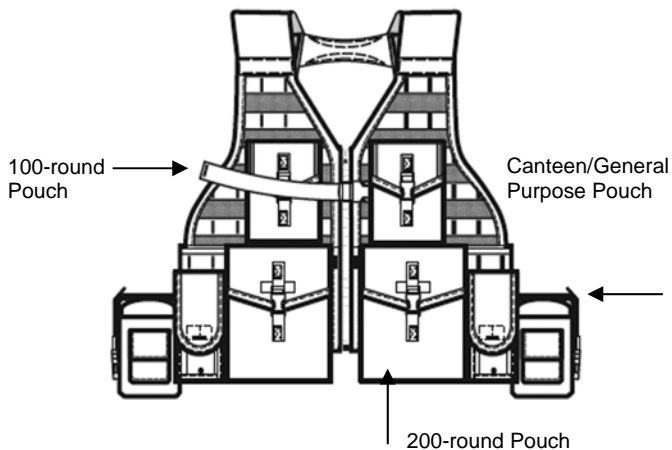


Figure 9. SAW Gunner Set.

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**EQUIPMENT DESCRIPTION AND DATA**

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**MOLLE II CONFIGURATIONS – Continued****Grenadier Configuration**

The Grenadier configuration consists of ten 40mm Single High Explosive grenade pouches, two Double High Explosive grenade pouches and two Double Pyrotechnic round pouches.

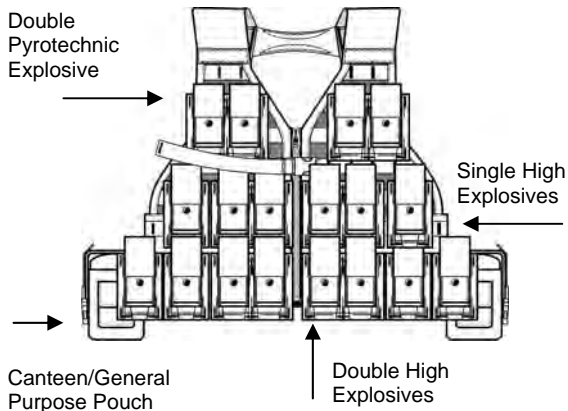


Figure 10. Grenadier Set.

**EQUIPMENT DESCRIPTION AND DATA**

---

**MOLLE II CONFIGURATIONS – Continued****Medic Configuration**

The Medic configuration will receive four zippered medical pouches for the vest and three M4, Two-magazine pouches. There will also be a specialized panel loading medical bag that has an additional four removable medical pouches attached to it (Figure 11).

---

EQUIPMENT DESCRIPTION AND DATA

---

## MOLLE II CONFIGURATIONS – Continued

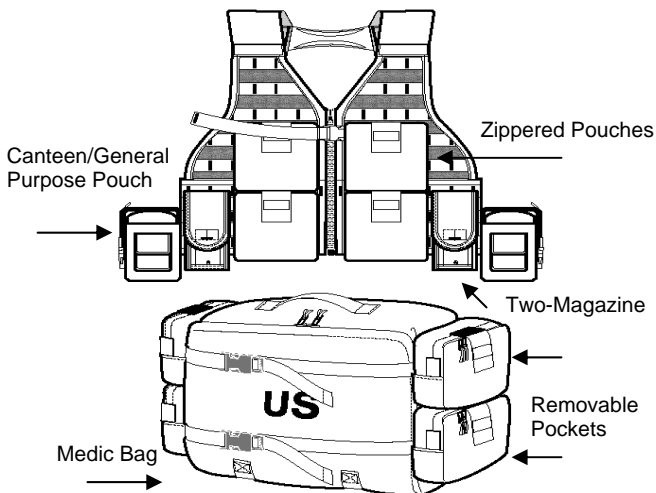


Figure 11. Medic Set.

---

**EQUIPMENT DESCRIPTION AND DATA**

---

**LOAD CONFIGURATIONS**

There are several possible load configurations. Three common configurations are Light Fighting Load, Assault Pack Load, and Full Pack Load:

**Light Fighting Load.** Consists of the FLC and Waist Pack (Figure 12).

**Assault Pack Load.** Consists of the FLC, Waist Pack, and Assault Pack (Figure 13).

**Full Pack Load.** Consists of the FLC, Waist Pack, Assault Pack, and Large Ruck (Figure 14).

---

**EQUIPMENT DESCRIPTION AND DATA**

---

**LOAD CONFIGURATIONS - Continued**

Waist Pack attached to the FLC  
with pouches.

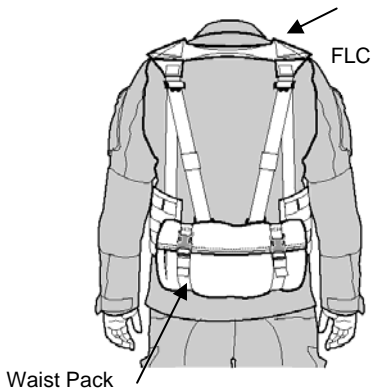


Figure 12. Light Fighting Load.



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**EQUIPMENT DESCRIPTION AND DATA**

---

**LOAD CONFIGURATIONS - Continued**

Assault Pack, Waist Pack, and FLC with pouches. The waist pack is attached to the bottom of the assault pack.

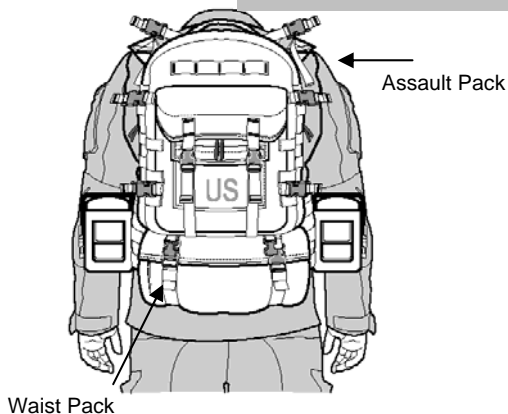


Figure 13. Assault Pack Load.

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**EQUIPMENT DESCRIPTION AND DATA**

---

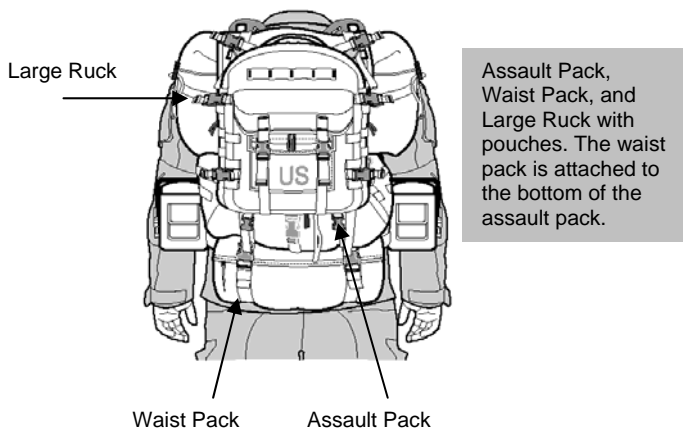
**LOAD CONFIGURATIONS - Continued**

Figure 14. Full Pack Load.

---

**EQUIPMENT DESCRIPTION AND DATA**

---

**EQUIPMENT DATA**

**Table 3. MOLLE II Data – Universal  
Camouflage Pattern.**

Component Materials	Water Repellant military specified fabrics and composites
MOLLE II Size	One size
Weight - Large rucksack with frame and straps	8 lbs - empty
Weight - FLC with rifleman pouches	4 lbs
Large Ruck Volume	4000 cubic inches
Large Ruck Sustainment Pouch Volume	500 cubic inches
Assault Pack Volume	2000 cubic inches



**THEORY OF OPERATION**

---

**THEORY OF OPERATION**

This work package discusses the theory of operation for the MOLLE II.

MOLLE II is a modular load carrying system for soldiers to wear to enhance their survivability, mobility, and lethality. The modularity permits tailoring for mission requirements and minimizes the combat load. The MOLLE is designed as a replacement to the All-Purpose Lightweight Individual Carrying Equipment (ALICE) system.

**END OF WORK PACKAGE**



**CHAPTER 2**  
**OPERATOR INSTRUCTIONS**  
**FOR**  
**MODULAR LIGHTWEIGHT LOAD-CARRYING EQUIPMENT**  
**(MOLLE) II**





---

## OPERATION UNDER USUAL CONDITIONS SIZING AND FITTING INSTRUCTIONS

---

**INITIAL SETUP:** Not Applicable

---

### **SIZING AND FITTING**

This work package provides instructions for fitting your MOLLE II properly.

#### **Fighting Load Carrier Adjustments**

Size adjustments to the vest are made in the following manner:

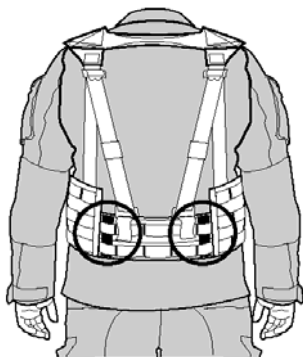
1. Remove the stiffened webbing adjustment tabs from the two slots on the vest belt (Figure 1).
2. Place the vest on the body.
3. Position both vest panels so they fit comfortably on the torso or body armor.
4. Reinsert the stiffened strap webbing tabs on the back of the belt in the appropriate location (Figure 2).

---

**OPERATION UNDER USUAL CONDITIONS  
SIZING AND FITTING INSTRUCTIONS**

---

**SIZING AND FITTING - Continued**



Remove both stiffened  
webbing adjustment  
tabs from vest belt.

Figure 1. Adjustment Tabs.

---

**OPERATION UNDER USUAL CONDITIONS**  
**SIZING AND FITTING INSTRUCTIONS**

---

**SIZING AND FITTING - Continued**

Reinsert both stiffened webbing adjustment tabs on the back of the belt.

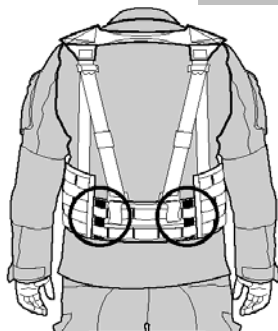


Figure 2. Webbing.

**END OF TASK**

---

**OPERATION UNDER USUAL CONDITIONS  
SIZING AND FITTING INSTRUCTIONS**

---

**SIZING AND FITTING - Continued****Fighting Load Carrier Adjustments – Narrow Torsos****NOTE**

The metal friction buckle on the belt is not used with narrow waists.

The buckles are shown for clarity in the illustration (Figure 3), but when properly adjusted for narrow waists, they will be hidden inside the vest panel tunnels.

To fit extremely narrow torsos:

1. Remove the 1-inch webbing from the two metal friction buckles on the back of the belt.
2. Remove the stiffened adjustment strap tabs from the loops.
3. Slide the vest panels toward the center back of the belt until a proper fit is achieved.
4. Secure the webbing adjustment strap tabs and wear the vest as shown (Figure 3).

---

**OPERATION UNDER USUAL CONDITIONS**  
**SIZING AND FITTING INSTRUCTIONS**

---

**SIZING AND FITTING – Continued**

5. Secure loose ends of 1-inch webbing with the elastic keepers.

Note: For narrow adjustment, buckle on belt is NOT used.

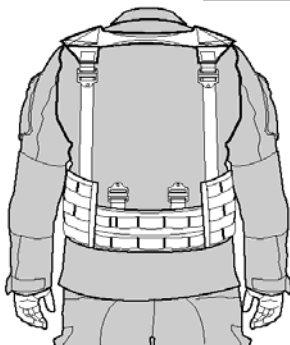


Figure 3. Buckle.

**END OF TASK**

**0004-5**

**OPERATION UNDER USUAL CONDITIONS  
SIZING AND FITTING INSTRUCTIONS**

---

**SIZING AND FITTING – Continued**

**Stowing**

1. Once the belt is adjusted properly adjust the waist belt webbing and side release buckle.
2. Stow the remaining webbing in the keeper buckle and tuck free-running ends of the webbing in the vest panel tunnels.

---

**OPERATION UNDER USUAL CONDITIONS  
SIZING AND FITTING INSTRUCTIONS**

---

**SIZING AND FITTING – Continued**

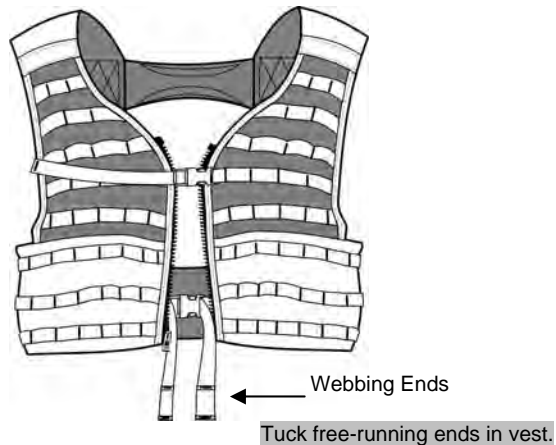


Figure 4. Free-Running Ends.

**END OF TASK**

**OPERATION UNDER USUAL CONDITIONS  
SIZING AND FITTING INSTRUCTIONS**

---

**SIZING AND FITTING – Continued****Vest Height Adjustment**

To adjust the height of the vest:

1. Position the bottom of the vest no less than 2 inches above the wearer's hip bones to allow space for proper use of the pack hip belt.
2. Adjust the webbing equally on the four (4) metal buckles on the back of the vest.
3. Secure the free-running ends of all webbing with the elastic keepers or tape.



---

**OPERATION UNDER USUAL CONDITIONS**  
**SIZING AND FITTING INSTRUCTIONS**

---

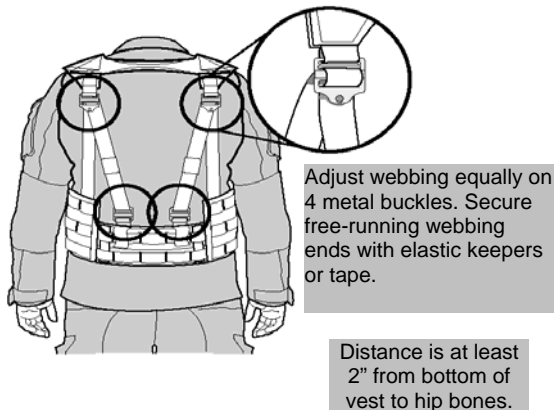
**SIZING AND FITTING – Continued**

Figure 5. Secured Free-Running Ends.

**END OF TASK****END OF WORK PACKAGE****0004-9/10 blank**



**OPERATION UNDER USUAL CONDITIONS  
POUCH/POCKET ATTACHMENT**

---

**INITIAL SETUP:** Not Applicable

---

**POUCH/POCKET ATTACHMENT**

1. To properly attach a pouch/pocket, choose the desired attachment point on the vest panel.
2. Line up the top of the pouch evenly with the top of the nearest horizontal 1-inch webbing that goes across the panels.
3. Insert the pouch attachment strap down the 1 ½ -inch channel then behind the 1-inch webbing on the back of the pouch.
4. Continue weaving the attaching strap behind the horizontal webbing on the vest and the webbing on the back of the pouch until the pouch is secured along its entire length.

This attachment system is extremely secure and stable when properly used.

---

OPERATION UNDER USUAL CONDITIONS  
POUCH/POCKET ATTACHMENT

---

POUCH/POCKET ATTACHMENT - Continued

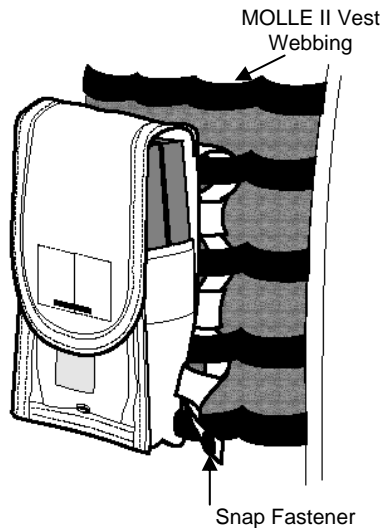


Figure 1. Correct Pouch/Pocket Attachment.

---

**OPERATION UNDER USUAL CONDITIONS**  
**POUCH/POCKET ATTACHMENT**

---

**POUCH/POCKET ATTACHMENT - Continued**

Do not simply place the attaching strap through the vest webbing without the interlocking weave. The pouches will not be secure if attached in this manner.



Figure 2. Wrong Pouch/Pocket Attachment.

**END OF TASK**

**END OF WORK PACKAGE**

**0005-3/4 blank**



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**OPERATION UNDER USUAL CONDITIONS  
CANTEEN/GENERAL PURPOSE POUCH**

---

---

**INITIAL SETUP:** Not Applicable

---

**CANTEEN/GENERAL PURPOSE POUCH****NOTE**

The canteen/general purpose pouch has a variety of uses. It can be used as a carrier for the canteen or for various small items.

**Canteen Pouch**

1. Slide the top flap down inside the back of the pouch before inserting the canteen and cup.
2. Allow the V-shaped straps to pass over the neck of the canteen and fasten the buckle.

**END OF TASK****General Purpose Pouch**

1. Pull the top flap out.
2. Insert the V-shaped strap under the webbing on the top flap and insert items such as goggles inside the pouch.

---

**OPERATION UNDER USUAL CONDITIONS**  
**CANTEEN/GENERAL PURPOSE POUCH**

---

**CANTEEN/GENERAL PURPOSE POUCH - Continued**

3. Secure the plastic fastener on the front of the pouch.

This pouch is able to hold one stripped-down MRE, five M16 or M4 magazines, or AN/PVS-14 goggles insert, and various other items. The side pockets on the pouch are designed for carrying items such as first aid dressings, water purification tablets, a compass, or other small equipment.

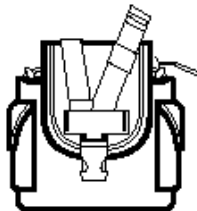


Figure 1. Canteen/General Purpose Pouch.

**END OF TASK**

**END OF WORK PACKAGE**



**OPERATION UNDER USUAL CONDITIONS  
LARGE RUCK**

---

**INITIAL SETUP:** Not Applicable

---

**LARGE RUCK**

The Large Ruck shoulder straps and waist belt come pre-assembled to the Frame. The other components are provided as needed. The MOLLE II Large Ruck capacity is 4000 cubic inches. The side sustainment pouch capacity is 500 cubic inches each. The top flap of the Large Ruck is a mesh pocket for small reference and information materials. It is secured with a hook and loop closure (Figure 1).

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**OPERATION UNDER USUAL CONDITIONS**  
**LARGE RUCK**

---

**LARGE RUCK – Continued**

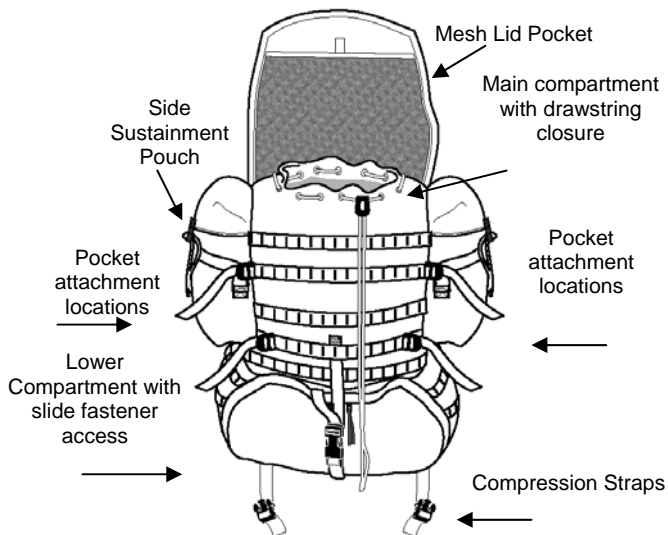


Figure 1. Large Ruck.

**END OF TASK**

---

**OPERATION UNDER USUAL CONDITIONS  
LARGE RUCK**

---

**LARGE RUCK - Continued****Donning**

1. Place ruck on back by inserting arms through shoulder straps.
2. Buckle and adjust waistbelt.
3. Adjust shoulder straps with the quick-release buckle (Figure 2) on the lanyard (Figure 3).
4. Stow free-running ends.

**END OF TASK****Doffing****CAUTION**

Always disengage waistbelt buckle and chest strap first.

1. ***Emergency Doffing*** can be accomplished by sharply pulling upward on the quick-release lanyard to disengage the buckle and letting the pack fall away.

**OPERATION UNDER USUAL CONDITIONS  
LARGE RUCK**

---

**LARGE RUCK - Continued**

2. ***Prone Position Doffing*** can be accomplished while in the prone position by simply activating one of the shoulder strap quick-releases and letting the pack fall off by twisting to one side. To re-attach the quick-release buckle, simply insert the male portion into the female portion and push until the latch tab clicks. Do not try to push down on the latch tab.

---

OPERATION UNDER USUAL CONDITIONS  
LARGE RUCK

---

**LARGE RUCK – Continued**

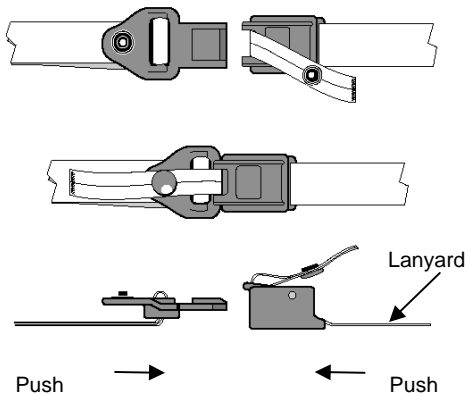


Figure 2. Quick-Release Buckle.

---

**OPERATION UNDER USUAL CONDITIONS  
LARGE RUCK**

---

**LARGE RUCK – Continued**

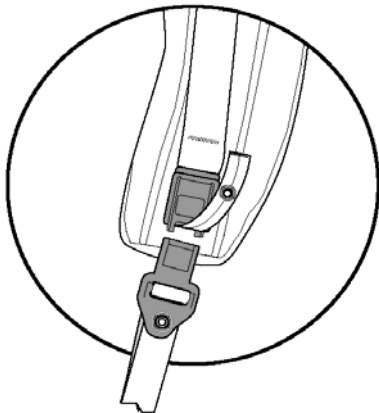


Figure 3. Lanyard.

**END OF TASK**

**END OF WORK PACKAGE**

**OPERATION UNDER USUAL CONDITIONS  
ASSAULT PACK**

---

**INITIAL SETUP:** Not Applicable

---

**ASSAULT PACK**

The Assault Pack has a total volume of 2000 cubic inches. The radio pouch can be attached to the rear panel of the assault pack utilizing the 1- inch oval loops.

There are two white straps used for airborne operations inside the Assault Pack. These straps can attach directly to the parachute harness D-rings. There is also an attachment loop if a lowering line is used. Refer to procedures in FM 3-21-220, Static Line Parachuting Techniques and Training, for proper rigging instructions.

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**OPERATION UNDER USUAL CONDITIONS  
ASSAULT PACK**

---

**ASSAULT PACK – Continued**

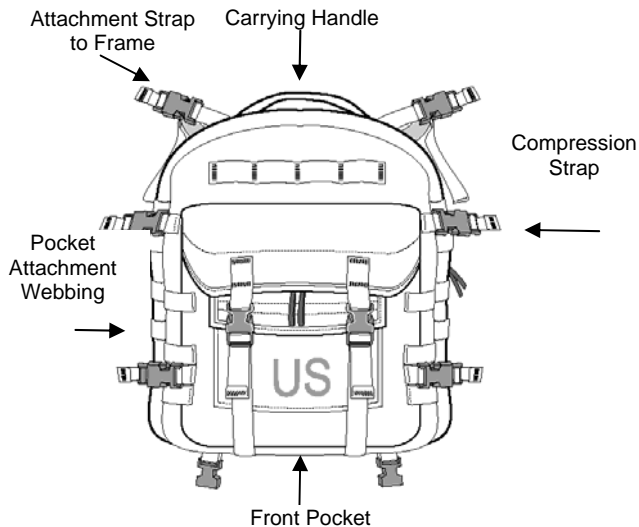


Figure 1. Assault Pack, Front View.



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OPERATION UNDER USUAL CONDITIONS  
ASSAULT PACK

---

**ASSAULT PACK – Continued**

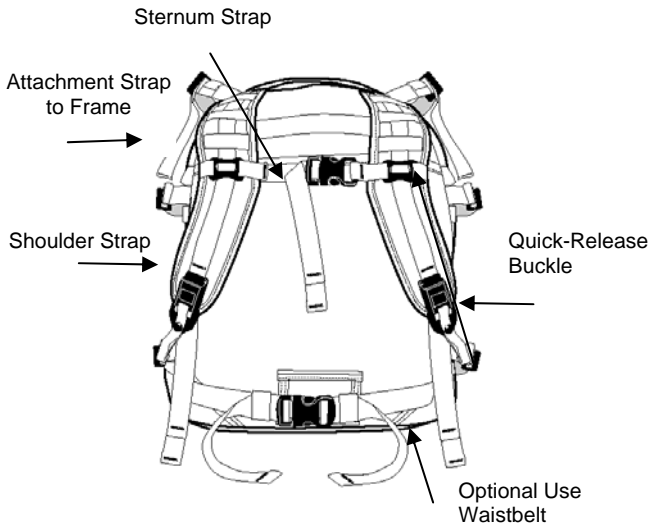


Figure 2. Assault Pack, Rear View.

**OPERATION UNDER USUAL CONDITIONS  
ASSAULT PACK**

---

**Donning**

1. Place the assault pack (Figure 1) on back by inserting arms through shoulder straps.
2. Adjust shoulder straps and sternum strap.
3. Stow free-running ends.

**END OF TASK****Doffing****CAUTION**

Always disengage the sternum strap and waistbelt.

1. Unbuckle the optional use waistbelt.

**OPERATION UNDER USUAL CONDITIONS  
ASSAULT PACK**

---

**ASSAULT PACK – Continued**

2. Unbuckle the sternum strap.
3. Let the pack fall off the back.

**END OF TASK**

**END OF WORK PACKAGE**



---

**OPERATION UNDER USUAL CONDITIONS**  
**BANDOLEER**

---

**INITIAL SETUP:** Not Applicable

---

**BANDOLEER**

There is a removable six magazine bandoleer. It fits in the front pocket of the Assault Pack, or it can be slung across the shoulders.

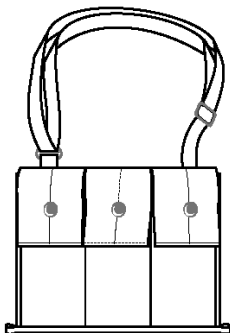


Figure 1. Bandoleer.

**END OF WORK PACKAGE**

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**OPERATION UNDER USUAL CONDITIONS  
WAIST PACK**

---

**INITIAL SETUP:** Not Applicable

---

**WAIST PACK****NOTE**

Ensure the attached waistbelt is stowed into the tunnel on back of the Waist Pack when not used in the Stand Alone configuration.

The multi-purpose Waist Pack can be worn in one of three ways:

1. It can be attached to the bottom of the Assault Pack by passing the stiffened webbing straps with the female side release buckles through the four webbing keepers on the bottom of the Assault Pack.
2. It can be attached directly to the FLC by utilizing the stiffened webbing tabs by weaving them into the corresponding slots on the back of the FLC.
3. It can be carried in the “stand alone” configuration by utilizing the attached 2-inch wide waistbelt.

---

**OPERATION UNDER USUAL CONDITIONS**  
**WAIST PACK**

---

**WAIST PACK - Continued**

This method allows the user to rotate the waist pack around in front to easily access the contents of the pack, without removing the FLC or Patrol Pack.



Figure 1. Waist Pack.

**END OF WORK PACKAGE**



---

## OPERATIONS UNDER USUAL CONDITIONS FRAME

---

**INITIAL SETUP:** Not Applicable

---

### FRAME

The molded frame is contoured to fit the shape of the back and allow the user to wear the rear ballistic plate of standard body armor without discomfort.

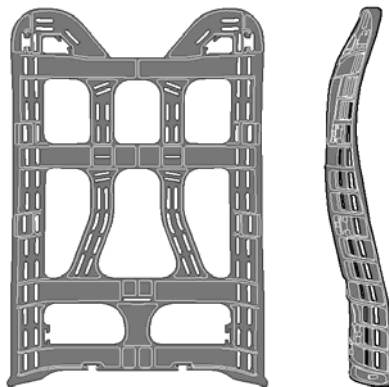


Figure 1. Frame.

0011-1

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**OPERATIONS UNDER USUAL CONDITIONS**  
**FRAME**

---

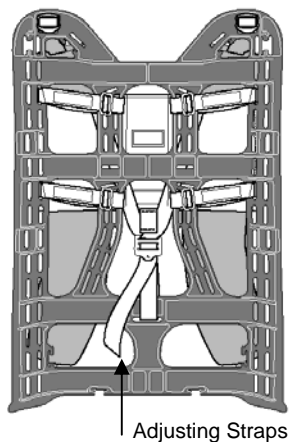
**FRAME - Continued**

Figure 2. Adjusting Straps on Frame.

---

## OPERATIONS UNDER USUAL CONDITIONS FRAME

---

### FRAME - Continued

#### **NOTE**

Proper attachment of the shoulder straps to the frame is extremely important to prevent unstable loads.

#### **Shoulder Straps**

The shoulder strap suspension of the frame is adjusted by securing the 1-inch webbing around the frame in the appropriate location using the slide buckle.

The proper location is determined by donning the frame and fastening the waistbelt buckle while wearing the vest. Position the shoulder straps so there is complete contact with the shoulder. For short torsos, move the waistbelt location on the frame as shown in the next illustration. If more adjustment is needed, move the shoulder strap location on the frame.

A properly positioned waistbelt will cover the hip bone. After the 1-inch webbing is secured around the frame to hold the shoulder straps in place, wrap the 1 ½ -inch webbing around the cross bar and secure with the non-slip slide buckle.

#### **END OF WORK PACKAGE**



---

## OPERATION UNDER USUAL CONDITIONS WAISTBELT

---

**INITIAL SETUP:** Not Applicable

---

### WAISTBELT

The molded waistbelt should be permanently connected to the frame utilizing four (4) non-slip buckles as shown. For a short torso length, the waistbelt can be moved as indicated in the illustration.

Move all four waistbelt attachment straps up one location on the frame for short torsos.

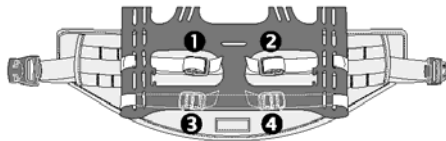


Figure 1. Waistbelt Attachment with Non-slip Buckles.

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**OPERATION UNDER USUAL CONDITIONS**  
**WAISTBELT**

---

**WAISTBELT - Continued**

The load-lifter straps can be used to adjust the pack while marching. The weight of the pack can be transferred from the shoulders to the hips and back again by either cinching the 1-inch webbing down or by loosening the webbing by adjusting the non-slip buckle.

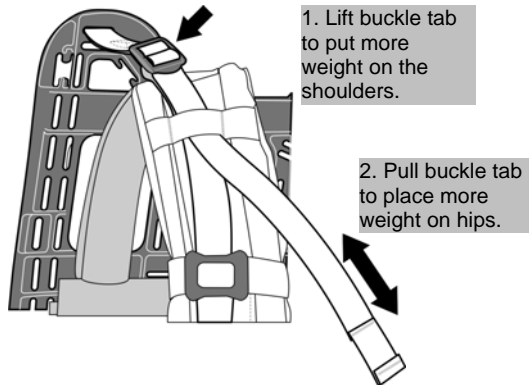


Figure 2. Buckle Tab.

---

**OPERATION UNDER USUAL CONDITIONS**  
**WAISTBELT**

---

**WAISTBELT - Continued**

The ruck attachment straps are attached at the top slot on the frame with a three-bar buckle and webbing. The sides of the ruck are attached to the frame by using the folded webbing as toggles through the vertical openings.

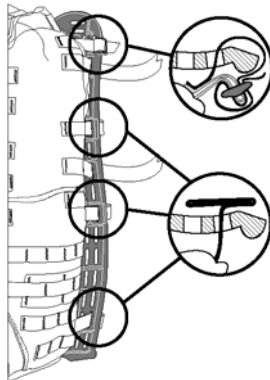


Figure 3. Folded Webbing Toggle.

**END OF WORKPACKAGE****0012-3/4 blank**





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**OPERATION UNDER USUAL CONDITIONS**  
**RUCK SUSTAINMENT POUCHES**

---

**INITIAL SETUP:** Not Applicable

---

**RUCK SUSTAINMENT POUCHES**

The Large Ruck has two large, removable Sustainment Pouches which attach to the side of the ruck using the same interlocking attachment system as the FLC pockets. These Sustainment Pouches each contain two D-rings on the sides, which allow them to be carried by the General Purpose (GP) Sling (GPS) for alternate uses.

The Sustainment Pouches can also be added to the side of the Assault Pack to add 1000 cubic inches to its capacity. All of the large pouches of the MOLLE II system have D-rings on the sides to allow the item to be slung with a GP sling.

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**OPERATION UNDER USUAL CONDITIONS  
RUCK SUSTAINMENT POUCHES**

---

**RUCK SUSTAINMENT POUCHES - Continued**

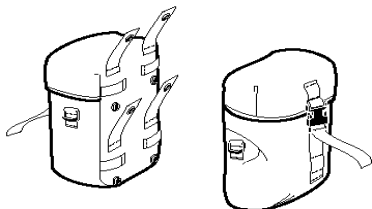


Figure 1. Sustainment Pouches.

**END OF WORK PACKAGE**

---

**OPERATION UNDER USUAL CONDITIONS**  
**RADIO POCKET**

---

**INITIAL SETUP:** Not Applicable

---

**RADIO POCKET**

Inside the Large Ruck, against the back panel, is a water-resistant, removable radio pouch designed to carry a SINCGARS/ASIP radio.

This removable pouch contains D-rings on each side to allow the radio to be carried by the General Purpose Sling when a pack is not needed. When the radio must be carried in the Large Ruck, the radio pouch is secured to the four black metal loops on the inside of the Large Ruck using the 1-inch webbing.

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**OPERATION UNDER USUAL CONDITIONS**  
**RADIO POCKET**

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**RADIO POCKET - Continued**

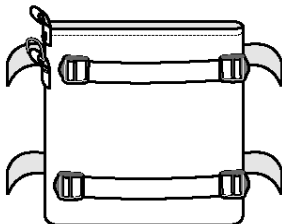


Figure 1. Radio Pocket.

**END OF WORK PACKAGE**

**CHAPTER 3**  
**TROUBLESHOOTING PROCEDURES**  
**FOR**  
**MODULAR LIGHTWEIGHT LOAD-CARRYING EQUIPMENT**  
**(MOLLE) II**



---

**OPERATOR MAINTENANCE  
TROUBLESHOOTING**

---

**INITIAL SETUP:** Not Applicable

---

**GENERAL**

This work package lists troubleshooting tasks for each component of the MOLLE II along with the appropriate repair procedure.

This work package is limited to the visual inspection of the equipment. The MOLLE II and its components are replaced at the Central Issue Facility (CIF) or in accordance with unit Standard Operating Procedure (SOP) if it is not serviceable.

**Table 1. Troubleshooting Index.**

<b>Symptom</b>	<b>Procedure</b>
Frayed or Broken Straps	Exchange at CIF/per unit SOP
Missing or Broken buckles	Exchange at CIF/per unit SOP
Broken Webbing	Exchange at CIF/per unit SOP
Missing or Broken Snaps	Exchange at CIF/per unit SOP
Damaged Pockets/Pouches	Exchange at CIF/per unit SOP

**END OF WORK PACKAGE****0015-1/2 blank**





**CHAPTER 4**  
**OPERATOR MAINTENANCE INSTRUCTIONS**  
**FOR**  
**MODULAR LIGHTWEIGHT LOAD-CARRYING EQUIPMENT**  
**(MOLLE) II**



---

**OPERATOR MAINTENANCE INSTRUCTIONS**  
**OPERATOR MAINTENANCE**

---

**INITIAL SETUP:** Not Applicable

---

**OPERATOR MAINTENANCE****Inspection**

The MOLLE II should be inspected prior to and after each use.

Place the MOLLE II components in an area conducive to perform a general visual inspection. Look for obvious tears, holes, missing parts, obvious dirt, or other damage.

Complete the general inspection and note any deficiencies. Exchange missing or damaged components at the CIF or as per unit SOPs.

**Hardware Care and Use**

1. Scrape dirt and dust from the item using a brush that will not cut into the fabric.
2. Using mild detergent or soap, hose or wash the item in a pail of water.
3. Rinse thoroughly with clean water.

---

**OPERATOR MAINTENANCE INSTRUCTIONS**  
**OPERATOR MAINTENANCE**

---

**OPERATOR MAINTENANCE - Continued**

4. Do not use chlorine bleach, yellow soap, cleaning fluids, or solvents that will discolor or deteriorate the item.
5. Dry the item in shade or indoors. Do not dry in direct sunlight, direct heat, or open flame.
6. Do not launder or dry item in fixed field, commercial or home-type laundry equipment.
7. Do not attempt to dye or repair.
8. Turn in for repair or replacement.

Remember, extremely dirty or damaged equipment can eventually fail to perform its intended function. Exchange damaged equipment at your CIF or in accordance with unit SOP.

**Hydration System Care and Use**

The MOLLE comes with an on-the-move tube hydration system for special missions where hands-free drinking is desired. This system is intended to supplement, not replace, the 1-quart canteen. There are two similar designs that are approved for use with the MOLLE II.

---

**OPERATOR MAINTENANCE INSTRUCTIONS**  
**OPERATOR MAINTENANCE**

---

**INSPECTION - Continued**

Each system is shown in the illustration below (Figure 1).  
You will receive one of these.

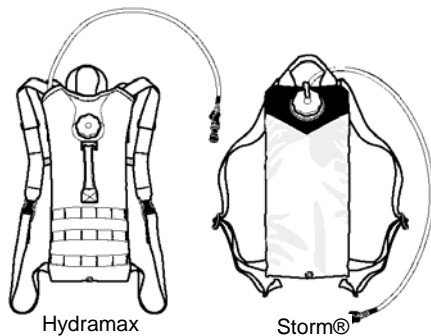


Figure 1. Hydration Systems.

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**OPERATOR MAINTENANCE INSTRUCTIONS**  
**OPERATOR MAINTENANCE**

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**INSPECTION - Continued**

The hydration system requires regular cleaning as described below.

**NOTE**

Be sure the cap is screwed all the way down to prevent leaking. If the cap leaks, make sure the cap lanyard is pushed down past the screw threads, otherwise, the lanyard could prevent the cap from completely closing.

1. Rinse hydration system with mild soap and hot water before first use and after each use.
2. To freshen, add 2 teaspoons of baking soda to a full system of water and let soak overnight. Rinse well.
3. To sanitize, add 2 teaspoons of bleach to a full system of water and let soak overnight. Rinse thoroughly.

The use of liquids other than water will accelerate mold growth and will require more frequent cleaning.

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

**CHAPTER 5**  
**SUPPORTING INFORMATION**  
**FOR**  
**MODULAR LIGHTWEIGHT LOAD-CARRYING EQUIPMENT**  
**(MOLLE) II**





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**SUPPORTING INFORMATION  
REFERENCES**

---

**GENERAL**

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

**Army  
Regulations**

AR 700-138      Army Logistics Readiness and Sustainability

**DA Pamphlets**

DA PAM 25-33      User's Guide for Army Publications and  
Forms

DA PAM 750-8      The Army Maintenance Management  
System (TAMMS) Users Manual

DA PAM 738-751      Army Logistics Readiness and Sustainability

**Field Manuals**

FM 4-25.11      First Aid Information

FM 3-11.5      Multiservice Tactics, Techniques, and  
Procedures for Chemical, Biological,  
Radiological, and Nuclear Decontamination

FM 3-21-220      Static Line Parachuting Techniques and  
Training

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**SUPPORTING INFORMATION  
REFERENCES**

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**GENERAL – Continued****Forms**

DA Form 12-R	Request for Establishment of a Publications Account
DA Form 2028	Recommended Changes to Publications and Blank Forms
SF 368	Product Quality Deficiency Report

**END OF WORK PACKAGE**

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

---

**ITEM DESCRIPTION**

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**SCOPE**

This work package lists components of the MOLLE II to help you inventory items and for use of the equipment. These items are listed in the format of item Description and National Stock Number (NSN).

COEI is for information purposes only and is not authority to requisition replacements. As part of the end item, these items must be with the end item whenever it is issued or transferred between property accounts.

Basic Issue Items (BII). These essential items are required to place the MOLLE II in use. Listing these items is your authority to request/requisition them for replacement based on authorization of the end item by the TOE/MTOE.

**Explanation of Columns**

**Column (1) Description.** Gives you the item description.

**Column (2) Universal National Stock Number (NSN).** Identifies the stock number of the item to be used for requisitioning purposes.

**Column (3) Quantity Required.** Indicates the quantity required.

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

---

**Table 1. MOLLE II BII and COEI - (Universal  
Camouflage).**

<b>DESCRIPTION</b>	<b>NSN</b>	<b>QTY Req.</b>
<b>RIFLEMAN SET/BASIC CONFIGURATION SET</b>	<b>8465-01-525-0578</b>	
Fighting Load Carrier Set (FLC Set)	8465-01-525-0575	1
Fighting Load Carrier (Buckle or Slide Fastener)	8465-01-525-0577	1
Canteen/General Purpose Pouch	8465-01-525-0585	2
Hand Grenade Pouch	8465-01-525-0589	2
M4, Two Magazine	8465-01-525-0606	3
M4, Three Magazine Side-by-Side Pouch	8465-01-525-0598	2
Hydration System (Hydramax) or Hydration System (100oz Storm®)	8465-01-525-5531 8465-01-524-8396	1

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

---

**Table 1. MOLLE II BII and COEI - (Universal  
Camouflage). - Continued**

DESCRIPTION	NSN	QTY Req.
Hydrolink Conversion Kit, Hydration System (Storm®)	8465-01-499-9948	1
Carrier Hydration System (100oz Storm®)	8465-01-524-5232	1
Bladder Hydration System (Hydramax)	8464-01-519-2304	1
Drink Tube, Hydration System (Hydramax)	8465-01-519-2385	1
Bite Valve, Hydration System (Hydramax)	8465-01-519-2383	1
Carrier Hydration System (Hydramax)	8465-01-524-8362	1
Bladder Hydration System (100oz Storm®)	8465-01-465-2096	1
Big Bite Valve, Hydration system (100oz Storm®)	8465-01-472-5106	1
Assault Pack, MOLLE	8465-01-524-5250	1
Waist Pack	8465-01-524-7263	1
Carrier Entrenching Tool (PD 05-03)	8465-01-524-8407	1

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

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**Table 1. MOLLE II BII and COEI - (Universal  
Camouflage). - Continued**

<b>DESCRIPTION</b>	<b>NSN</b>	<b>QTY Req.</b>
<b>LARGE FIELD PACK SET with FRAME and STRAPS</b>	<b>8465-01-523-6276</b>	
Bandoleer Ammunition Pouches (6 mag)	8465-01-524-7309	1
Flash Bang Grenade Pouch	8465-01-524-7324	1
Rucksack, Large Field Pack, MOLLE	8465-01-524-5285	1
Sustainment Pouch	8465-01-524-7226	2
MOLLE Pack Frame	8465-01-524-8368	1
Molded Waistbelt	8465-01-524-7232	1
Enhanced Frame Shoulder Straps	8465-01-524-7240	1
Load Lifter Attachment Strap	8465-01-524-7241	2
Buckle, Male, Shoulder Suspension	8465-01-524-8415	2
<b>PISTOLMAN SET</b>	<b>8465-01-524-7328</b>	
Holster/Leg Extender	8465-01-524-7345	1

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

---

**Table 1. MOLLE II BII and COEI - (Universal  
Camouflage). - Continued**

<b>DESCRIPTION</b>	<b>NSN</b>	<b>QTY Req.</b>
9mm Magazine Pouch (Single)	8465-01-524-7361	4
<b>SAW GUNNER SET</b>	<b>8465-01524-7362</b>	
100-Round Utility Pouch	8465-01-524-7365	2
200-Round SAW Gunner Pouch	8465-01-524-7620	2
<b>GRENADIER SET</b>	<b>8465-01-524-7624</b>	
40mm High Explosive Pouch (Single)	8465-01-524-7625	10
40mm High Explosive Pouch (Double)	8465-01-524-7628	4
40mm Pyrotechnic Pouch (Double)	8465-01-524-7636	2
<b>MEDIC SET (with 4 internal and 8 external pockets)</b>	<b>8465-01-524-7632</b>	
Bag Medical with 4 Pockets	8465-01-524-7635	1

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

---

**ITEM DESCRIPTION**

---

**Table 1. MOLLE II BII and COEI - (Universal  
Camouflage). - Continued**

<b>DESCRIPTION</b>	<b>NSN</b>	<b>QTY Req.</b>
Medical External Modular Pocket	8465-01-524-7638	8
Panel, Medical Bag	8465-01-524-7683	1
Bag, Medical, IV Bandoleer	8465-01-524-7640	1

**END OF WORK PACKAKGE**



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**ADDITIONAL AUTHORIZATION LIST  
ACCESSORIES**

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**INTRODUCTION****SCOPE**

This work package identifies additional items, Additional Authorization List (AAL), you are authorized for the support of the MOLLE II.

**GENERAL**

This list identifies items that do not have to accompany the MOLLE II. These items are authorized to you by CTA, MTOE, TDA, or JTA.

**Explanation of Columns in the Additional Authorization List (AAL).**

**Column (1) Description.** Identifies the item name.

**Column (2) National Stock Number (NSN).** Identifies the stock number of the item to be used for requisitioning.

---

**ADDITIONAL AUTHORIZATION LIST  
ACCESSORIES**

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**ADDITIONAL AUTHORIZATION LIST/ACCESSORIES****Table 1. MOLLE II Components.**

<b>DESCRIPTION</b>	<b>UNIVERSAL NSN</b>
Panel, 12 Gauge Shotgun, 16 Shell	8465-01-524-7691
MBITR Pouch	8465-01-524-7691
300 Round 7.62 Ammo Bag	8465-01-524-7694
Admin Pouch	8415-01-538-2040
Shoulder Strap (Sling Assembly), Universal, Individual Load	8465-01-545-3444
Radio Pouch	8465-01-524-7684
Vehicle Panel (MVP), Universal	8465-01-538-1497
PVS-14 Pouch, Universal	8465-01-538-1514
ThermoBak® 3L (100oz)	8465-01-532-6425
Buckles Set	8465-01-524-7639
K-Bar Adapter	8465-01-524-7246
ALICE Clip Adapter	8465-01-524-7253
Lashing Straps	8465-01-524-7689
Large Ruck Flap	8465-01-538-1868
Leaders Set	8465-01-538-1523

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**ADDITIONAL AUTHORIZATION LIST  
ACCESSORIES**

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**ADDITIONAL AUTHORIZATION LIST/ACCESSORIES -  
Continued****Table 1. MOLLE II Components. – Continued**

<b>DESCRIPTION</b>	<b>UNIVERSAL NSN</b>
Leaders Set Universal	8465-01-538-1523
Leaders Pocket Insert (GPS) Universal	8465-01-538-1507
Leaders Pocket Insert (Writing Instrument) Universal	8465-01-538-1647
PVS-14 Pouch Foam Insert Universal	8465-01-538-2043
Admin Pouch Universal	8465-01-538-2040
Belt Utility MOLLE	
Tactical Assault Panel	846501F005322

**END OF WORK PACKAGE**



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**EXPENDABLE AND DURABLE ITEMS LIST**

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**INTRODUCTION****Scope**

This work package lists expendable and durable items that you will need for the MOLLE II. 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, 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 its 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/Operator).

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**EXPENDABLE AND DURABLE ITEMS LIST**

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

**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 counts of an item, such as gallon, dozen, gross, etc.

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**EXPENDABLE AND DURABLE ITEMS LIST**

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**Explanation of Columns in the Expendable/Durable  
Items List - Continued****Table 1. Expendable and Durable Items.**

(1) Item No.	(2) Level	(3) National Stock Number (NSN)	(4) Item Name, Description, Part Number/ (CAGEC)	(5) U/I
1	C	7930-00-068-1669	Detergent, General Purpose, P-D- 1747/(81348)	BX
2	C	6810-00-598-7316	Sodium Hypochlorite Solution, 6810- 00-598- 7316/(80244)	BX

**END OF WORK PACKAGE****0020-3/4 blank**





***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: "Whomever" <whomever@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.



By Order of the Secretary of the Army:

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

Official:

A handwritten signature in black ink, reading "Joyce E. Morrow". The signature is fluid and cursive, with the first letters of each name being capitalized and prominent.

JOYCE E. MORROW  
*Administrative Assistant to the*  
*Secretary of the Army*  
06333

**Distribution:** To be distributed in accordance  
with initial distribution number 256908  
requirements for TM 10-8465-236-10.









**TM 10-8465-236-10**

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